APPENDIX K.2 **OPERATING UNIT 2 (OU-2) REMEDIAL ACTION PLAN (3 OF 5)**

APPENDIX G

Analytical Laboratory Reports for Soil and Grab Groundwater Samples

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
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Tel: (925)484-1919

TestAmerica Job ID: 720-89864-1
Client Project/Site: Brisbane OU2

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
12/7/2018 3:40:07 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-89864-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-89864-1

Comments
Terracore testing was cancelled as they were received in Irvine outside of the acceptable temperature requirement.

Receipt
The samples were received on 11/21/2018 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Receipt Exceptions

The following samples were not received: DG-AW8S-0.5-1 & DG-AW8S-3.5-4.

The following samples were received, but were not listed on the Chain of Custody: DG-AW7S-3.5-4 & DG-AW7S-0.5-1. Revised Chain of Custody was received to add these samples.

1 set of terracores for the following sample was not received - DG-P1S-3.5-4.

The following samples were received at the laboratory outside the required temperature criteria:

Irvine received all of the terracores on 11/26/18 at 14.6 C without ice. Irvine received samples 720-89864-18 (DG-AW7S-3.5-4) and720-89864 -19 (DG-AW7S-0.5-1), but they are not listed on the sub COC.

GC/MS Semi VOA
Method(s) 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-255965 and analytical batch 720-256029 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 8270C SIM: The method blank for preparation batch 720-255965 and analytical batch 720-256029 contained Acenaphthene and Phenanthrene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-P9S-0.5-1 (720-89864-1) and DG-AF13S-3.5-4 (720-89864-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: Surrogate recovery for the following sample was outside the upper control limit: (MB 720-255956/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-AF13S-0.5-1 (720-89864-5) and DG-AF13S-3.5-4 (720-89864-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: The method blank for preparation batch 720-255935 and analytical batch 720-255986 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8015B: The method blank for preparation batch 720-256070 and analytical batch 720-256067 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8081A: The following samples required a dilution due to the nature of the sample matrix: DG-AF13S-0.5-1 (720-89864-5),

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Laboratory: TestAmerica Pleasanton (Continued)

DG-AF13S-3.5-4 (720-89864-6) and DG-AF13S-7-7.5 (720-89864-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8081A: The following samples were diluted due to color: DG-AF13S-0.5-1 (720-89864-5) and DG-AF13S-3.5-4 (720-89864-6). Elevated reporting limits (RL) are provided.

Method(s) 8081A: The following sample was diluted due to the abundance of non-target analytes: DG-AF13S-7-7.5 (720-89864-7). Elevated reporting limits (RLs) are provided.

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-256054 and analytical batch 720-256134 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 720-256134 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-P9S-0.5-1 (720-89864-1), DG-P9S-3.5-4 (720-89864-2), DG-AF13S-0.5-1 (720-89864-5), DG-AF13S-3.5-4 (720-89864-6), DG-P1S-0.5-1 (720-89864-12), (MB 720-256054/1-A) and (720-89914-B-1-G).

Method(s) 8082: The following sample required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AF13S-7-7.5 (720-89864-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-255883 and analytical batch 720-255992 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-255992 was outside of the 10% control limits for these analytes Ba-58%,Co-37%,Cr-42%,V-42%: (720-89864-D-1-C SD)

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes Ca, Fe: DG-P9S-0.5-1 (720-89864-1), DG-P9S-3.5-4 (720-89864-2), DG-W13S-0.5-1 (720-89864-3), DG-W13S-3.5-4 (720-89864-4), DG-AF13S-3.5-4 (720-89864-6), DG-AL3S-0.5-1 (720-89864-10), DG-AL3S-3.5-4 (720-89864-11), DG-P1S-0.5-1 (720-89864-12), DG-P1S-3.5-4 (720-89864-13), DG-Z7S-0.5-1 (720-89864-14), DG-Z7S-3.5-4 (720-89864-15), DUP-02 (720-89864-16) and DUP-01 (720-89864-17). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 720-256063 contained Pb above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 7471A: The matrix spike (MS) recoveries for preparation batch 720-255887 and analytical batch 720-256092 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-255961 and analytical batch 720-256549 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analyte Ca, Fe, Mn: DG-AW7S-3.5-4 (720-89864-18), DG-AW7S-0.5-1 (720-89864-19), (720-89864-D-18-B MS), (720-89864-D-18-C MSD), (720-89864-D-18-D PDS) and (720-89864-D-18-D SD). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The post digestion spike % recovery for Ba-62% associated with batch 720-256549 was outside of the 75-125% control limits.

Job ID: 720-89864-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-256549 was outside the 10% control limits for these analytes Ba-11%,Cd-33%,Co-26%, Cr-14%, Ni-11%, V-16% & Zn-13%: (720-89864-D-18-D SD)

Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 720-256549 contained Pb above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes Ca, Fe: DG-AF13S-0.5-1 (720-89864-5) and DG-AF13S-7-7.5 (720-89864-7). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The method blank for preparation batch 720-255883 and analytical batch 720-255992 contained Ag above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The method blank for preparation batch 720-255961 and analytical batch 720-256063 contained Ag, Pb above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AF13S-0.5-1 (720-89864-5) and DG-AF13S-3.5-4 (720-89864-6). The reporting limits (RLs) are elevated proportionately.440-513573 3546 8082 PCB

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435: This method was subcontracted to Asbestos TEM Laboratories, Inc.. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DG-P9S-0.5-1 — Lab Sample ID: 720-89864-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	10	J	20	9.9	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	24		9.9	4.8	ug/Kg	2		8270C SIM	Total/NA
Anthracene	13		9.9	4.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	8.7	J	9.9	3.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	16		9.9	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	18		9.9	4.2	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	50		9.9	8.5	ug/Kg	2		8270C SIM	Total/NA
Chrysene	10		9.9	2.8	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	9.8	J	9.9	2.8	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	16		9.9	8.3	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	10		9.9	6.9	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	17	B	9.9	3.6	ug/Kg	2		8270C SIM	Total/NA
Pyrene	17		9.9	3.4	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	96	B	3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	380		98	20	mg/Kg	2		8015B	Total/NA
Antimony	0.56	J F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	0.79	J	3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	26		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	11		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	94		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	6.4		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	5.5		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.69	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Silver	0.76	J B	0.96	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	45		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.038	F1	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P9S-3.5-4 — Lab Sample ID: 720-89864-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	3.5	J	4.7	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	3.7	J	4.7	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	11		4.7	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	17		4.7	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	67		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	16		4.7	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	10		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	67		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	11		4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	54		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	14		4.7	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	240	B	4.7	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	42		4.7	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	14	B	1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	45	J	47	9.4	mg/Kg	1		8015B	Total/NA
Antimony	5.4		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	19		4.0	0.34	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P9S-3.5-4 (Continued) — Lab Sample ID: 720-89864-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	33		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	1.1		0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.57		0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	28		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	41		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	64		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	38		2.0	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.54	J B	0.99	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	45		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	520		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W13S-0.5-1 — Lab Sample ID: 720-89864-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	1.4	J	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	30		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.17	J	0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	16		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	130		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	66		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	12		1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.70	J B	0.94	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	75		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.070		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W13S-3.5-4 — Lab Sample ID: 720-89864-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	7.6		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	63		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.36		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	36		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	67		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	17		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.32	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	31		1.8	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.72	J B	0.91	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	66		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.066		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DG-AF13S-0.5-1 — Lab Sample ID: 720-89864-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	1700		190	97	ug/Kg	20		8270C SIM	Total/NA
Acenaphthene	2700	B	97	54	ug/Kg	20		8270C SIM	Total/NA
Acenaphthylene	580		97	46	ug/Kg	20		8270C SIM	Total/NA
Anthracene	2900		97	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	1300		97	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	740		97	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	580		97	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	170		97	83	ug/Kg	20		8270C SIM	Total/NA
Chrysene	2900		97	27	ug/Kg	20		8270C SIM	Total/NA
Dibenz(a,h)anthracene	110		97	68	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	1300		97	27	ug/Kg	20		8270C SIM	Total/NA
Fluorene	4300		97	43	ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	84	J	97	81	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	660		97	68	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	13000	B	97	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	4700		97	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15000	B	190	72	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	17000		4800	960	mg/Kg	100		8015B	Total/NA
Antimony	0.79	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	19		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	80		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.073	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	48		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	16		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	31		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	24		1.7	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.38	J B	0.86	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	36		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.097		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF13S-3.5-4 — Lab Sample ID: 720-89864-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	1000		480	240	ug/Kg	50		8270C SIM	Total/NA
Acenaphthene	2900	B	240	140	ug/Kg	50		8270C SIM	Total/NA
Acenaphthylene	590		240	120	ug/Kg	50		8270C SIM	Total/NA
Anthracene	2600		240	97	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]anthracene	1200		240	72	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	740		240	92	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	600		240	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	220	J	240	210	ug/Kg	50		8270C SIM	Total/NA
Chrysene	2600		240	68	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	1100		240	68	ug/Kg	50		8270C SIM	Total/NA
Fluorene	4000		240	110	ug/Kg	50		8270C SIM	Total/NA
Naphthalene	930		240	170	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	9800	B	240	87	ug/Kg	50		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AF13S-3.5-4 (Continued) — Lab Sample ID: 720-89864-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	4100		240	82	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	52000	B	490	180	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	63000		12000	2500	mg/Kg	100		8015B	Total/NA
4,4'-DDT	42	J	96	20	ug/Kg	50		8081A	Total/NA
Antimony	5.9		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	440		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	30		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	190		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	1500		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	26		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	1.9	B	0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	550		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.47		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF13S-7-7.5 — Lab Sample ID: 720-89864-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	96		9.4	4.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	130	B	4.7	2.6	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	17		4.7	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	66		4.7	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	36		4.7	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	36		4.7	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	51		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	22		4.7	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	19		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	64		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.5		4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	180		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	88		4.7	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	17		4.7	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	500		4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	250	B	4.7	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	160		4.7	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	190	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	140		50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	4.5		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	10		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	400		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.56		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.69		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	28		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.7		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	120		5.6	2.6	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AF13S-7-7.5 (Continued) — Lab Sample ID: 720-89864-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	890		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.45	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	29		1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	2.2	B	0.93	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	460		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL3S-0.5-1 — Lab Sample ID: 720-89864-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	76		1.5	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.92		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	9.5		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	160		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	420		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.52	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	9.3		1.5	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.91	B	0.76	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	75		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	240		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.35		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL3S-3.5-4 — Lab Sample ID: 720-89864-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.1		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	310		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	39		1.4	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	11		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	120		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	200		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	15		1.4	0.15	mg/Kg	4		6010B	Total/NA
Silver	0.95	B	0.72	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	130		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.089		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P1S-0.5-1 — Lab Sample ID: 720-89864-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	16		9.6	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	15	B	4.8	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	43		4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	45		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P1S-0.5-1 (Continued)

Lab Sample ID: 720-89864-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	120	F1	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	180	F1	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	170		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	64		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	130	F1	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	34		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	180	F1	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	16		4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	86		4.8	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	25		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	120	B F2	4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	220		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	43	J	49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	0.69	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	42		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	53		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.10	J	0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	23		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	81		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	59		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	14		1.7	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.60	J B	0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	92		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	66		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.070		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P1S-3.5-4

Lab Sample ID: 720-89864-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	7.3	J	9.5	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	5.4	B	4.8	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	3.8	J	4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	4.0	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	6.9		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	12		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	14		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	13		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.3		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	12		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.0	J	4.8	3.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	15		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	4.0	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	9.0		4.8	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	9.6		4.8	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	22	B	4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	18		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.5	B	2.0	0.74	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P1S-3.5-4 (Continued) — Lab Sample ID: 720-89864-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	10	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	2.6		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	55		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	92		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.085	J	0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	120		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	31		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	4.5		2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	140		2.0	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.65	J B	1.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	70		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	49		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	12		0.77	0.11	mg/Kg	50		7471A	Total/NA

Client Sample ID: DG-Z7S-0.5-1 — Lab Sample ID: 720-89864-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	26		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	18		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	1300		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.80		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	2.3		0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	46		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	6.1		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	570		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	3200		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.76	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	67		1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	4.7	B	0.93	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	1500		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.51		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z7S-3.5-4 — Lab Sample ID: 720-89864-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	5.2		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	130		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.63		0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	23		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	84		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	130		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.83	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	34		1.7	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.70	J B	0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.7	0.23	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z7S-3.5-4 (Continued) — Lab Sample ID: 720-89864-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	170		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-02 — Lab Sample ID: 720-89864-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	6.0	J	9.7	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.7	J B	4.9	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	5.4		4.9	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	14		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	18		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	20		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	21		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	15		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	9.1		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	22		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.5	J	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	39		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	6.8		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	11		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	7.7		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	53	B	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	44		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	4.7		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	16	J	48	9.6	mg/Kg	1		8015B	Total/NA
Antimony	2.9		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	56		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	100		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.069	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	130		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	27		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	7.0		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	140		1.7	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.65	J B	0.86	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	52		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	19		0.77	0.11	mg/Kg	50		7471A	Total/NA

Client Sample ID: DUP-01 — Lab Sample ID: 720-89864-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	97		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	42		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.31	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	8.6		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	77		5.5	2.6	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-01 (Continued) — Lab Sample ID: 720-89864-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	40		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.37	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	6.7		1.8	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.64	J B	0.91	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	91		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	69		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW7S-3.5-4 — Lab Sample ID: 720-89864-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	37	F1	5.0	0.83	mg/Kg	10		6010B	Total/NA
Arsenic	22		10	0.85	mg/Kg	10		6010B	Total/NA
Barium	2300	F2	5.0	0.71	mg/Kg	10		6010B	Total/NA
Beryllium	1.1		1.0	0.33	mg/Kg	10		6010B	Total/NA
Cadmium	8.3		1.3	0.12	mg/Kg	10		6010B	Total/NA
Chromium	75	F1	5.0	0.53	mg/Kg	10		6010B	Total/NA
Cobalt	10		2.0	0.20	mg/Kg	10		6010B	Total/NA
Copper	2000	F2	15	7.1	mg/Kg	10		6010B	Total/NA
Lead	7900	B ^	5.0	1.1	mg/Kg	10		6010B	Total/NA
Molybdenum	1.4	J	5.0	0.64	mg/Kg	10		6010B	Total/NA
Nickel	66		5.0	0.51	mg/Kg	10		6010B	Total/NA
Silver	13	B	2.5	0.51	mg/Kg	10		6010B	Total/NA
Vanadium	42	F1	5.0	0.68	mg/Kg	10		6010B	Total/NA
Zinc	5400	F2	15	6.4	mg/Kg	10		6010B	Total/NA
Mercury	0.62		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW7S-0.5-1 — Lab Sample ID: 720-89864-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	35		4.1	0.68	mg/Kg	10		6010B	Total/NA
Arsenic	35		8.2	0.70	mg/Kg	10		6010B	Total/NA
Barium	1500		4.1	0.58	mg/Kg	10		6010B	Total/NA
Beryllium	0.53	J	0.82	0.27	mg/Kg	10		6010B	Total/NA
Cadmium	5.0		1.0	0.10	mg/Kg	10		6010B	Total/NA
Chromium	150		4.1	0.43	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	4700		12	5.8	mg/Kg	10		6010B	Total/NA
Lead	4900	B ^	4.1	0.86	mg/Kg	10		6010B	Total/NA
Molybdenum	0.59	J	4.1	0.52	mg/Kg	10		6010B	Total/NA
Nickel	130		4.1	0.42	mg/Kg	10		6010B	Total/NA
Silver	7.4	B	2.0	0.41	mg/Kg	10		6010B	Total/NA
Thallium	1.6	J	4.1	1.2	mg/Kg	10		6010B	Total/NA
Vanadium	33		4.1	0.56	mg/Kg	10		6010B	Total/NA
Zinc	3600		12	5.2	mg/Kg	10		6010B	Total/NA
Mercury	1.4		0.030	0.0045	mg/Kg	2		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P9S-0.5-1

Date Collected: 11/21/18 09:00
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-1

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**10**	**J**	20	9.9	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Acenaphthene	ND		9.9	5.6	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Acenaphthylene	**24**		9.9	4.8	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Anthracene	**13**		9.9	4.0	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Benzo[a]anthracene	**8.7**	**J**	9.9	3.0	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Benzo[a]pyrene	**16**		9.9	3.8	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Benzo[b]fluoranthene	**18**		9.9	4.2	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Benzo[g,h,i]perylene	**50**		9.9	8.5	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Benzo[k]fluoranthene	ND		9.9	4.2	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Chrysene	**10**		9.9	2.8	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Dibenz(a,h)anthracene	ND		9.9	6.9	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Fluoranthene	**9.8**	**J**	9.9	2.8	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Fluorene	ND		9.9	4.4	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Indeno[1,2,3-cd]pyrene	**16**		9.9	8.3	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Naphthalene	**10**		9.9	6.9	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Phenanthrene	**17**	**B**	9.9	3.6	ug/Kg		11/26/18 15:29	11/27/18 21:31	2
Pyrene	**17**		9.9	3.4	ug/Kg		11/26/18 15:29	11/27/18 21:31	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*33 - 120*	*11/26/18 15:29*	*11/27/18 21:31*	*2*
Terphenyl-d14	*76*		*35 - 146*	*11/26/18 15:29*	*11/27/18 21:31*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**96**	**B**	3.9	1.5	mg/Kg		11/26/18 09:23	11/28/18 03:57	2
Motor Oil Range Organics [C24-C36]	**380**		98	20	mg/Kg		11/26/18 09:23	11/28/18 03:57	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*11/26/18 09:23*	*11/28/18 03:57*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Aldrin	ND		1.9	0.48	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
alpha-BHC	ND		1.9	0.53	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
beta-BHC	ND		1.9	0.35	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Chlordane (technical)	ND		39	3.1	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
cis-Chlordane	ND		1.9	0.39	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
delta-BHC	ND		1.9	0.43	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Dieldrin	ND		1.9	0.57	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Endosulfan I	ND		1.9	0.31	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Endosulfan II	ND		1.9	0.47	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Endrin	ND		1.9	0.45	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Endrin ketone	ND		1.9	0.32	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		11/28/18 11:56	11/29/18 12:04	1

Client Sample ID: DG-P9S-0.5-1

Date Collected: 11/21/18 09:00
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-1

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.45	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Methoxychlor	ND		1.9	0.66	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
Toxaphene	ND		39	6.6	ug/Kg		11/28/18 11:56	11/29/18 12:04	1
trans-Chlordane	ND		1.9	0.45	ug/Kg		11/28/18 11:56	11/29/18 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*21 - 136*	*11/28/18 11:56*	*11/29/18 12:04*	*1*
Tetrachloro-m-xylene	*97*		*21 - 145*	*11/28/18 11:56*	*11/29/18 12:04*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 12:58	1
Aroclor 1221	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 12:58	1
Aroclor 1232	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 12:58	1
Aroclor 1242	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 12:58	1
Aroclor 1248	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 12:58	1
Aroclor 1254	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 12:58	1
Aroclor 1260	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*11/28/18 05:52*	*11/29/18 12:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.56**	**J F1**	1.9	0.32	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Arsenic	**0.79**	**J**	3.8	0.33	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Barium	**26**		1.9	0.27	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Beryllium	ND		0.38	0.13	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Cadmium	**0.12**	**J**	0.48	0.048	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Chromium	**11**		1.9	0.20	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Cobalt	**13**		0.77	0.077	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Copper	**94**		5.8	2.7	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Lead	**6.4**		1.9	0.40	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Molybdenum	ND		1.9	0.25	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Nickel	**5.5**		1.9	0.20	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Selenium	**0.69**	**J**	3.8	0.58	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Silver	**0.76**	**J B**	0.96	0.19	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Thallium	ND		1.9	0.56	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Vanadium	**110**		1.9	0.26	mg/Kg		11/24/18 09:35	11/26/18 15:47	4
Zinc	**45**		5.8	2.4	mg/Kg		11/24/18 09:35	11/26/18 15:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**	**F1**	0.017	0.0025	mg/Kg		11/28/18 09:07	11/28/18 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.2**		0.1	0.05	%			11/30/18 16:28	1

Client Sample ID: DG-P9S-3.5-4

Date Collected: 11/21/18 09:00
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-2

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.4	4.7	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Acenaphthene	ND		4.7	2.6	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Acenaphthylene	**3.5**	**J**	4.7	2.3	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Anthracene	**3.7**	**J**	4.7	1.9	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Benzo[a]anthracene	**11**		4.7	1.4	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Benzo[a]pyrene	**17**		4.7	1.8	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Benzo[b]fluoranthene	**67**		4.7	2.0	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Benzo[g,h,i]perylene	**16**		4.7	4.1	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Benzo[k]fluoranthene	**10**		4.7	2.0	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Chrysene	**67**		4.7	1.3	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Dibenz(a,h)anthracene	**11**		4.7	3.3	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Fluoranthene	**54**		4.7	1.3	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Fluorene	ND		4.7	2.1	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Indeno[1,2,3-cd]pyrene	**14**		4.7	4.0	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Naphthalene	ND		4.7	3.3	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Phenanthrene	**240**	**B**	4.7	1.7	ug/Kg		11/26/18 15:29	11/27/18 17:35	1
Pyrene	**42**		4.7	1.6	ug/Kg		11/26/18 15:29	11/27/18 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*11/26/18 15:29*	*11/27/18 17:35*	*1*
Terphenyl-d14	*79*		*35 - 146*	*11/26/18 15:29*	*11/27/18 17:35*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**	**B**	1.9	0.71	mg/Kg		11/26/18 09:23	11/27/18 23:03	1
Motor Oil Range Organics [C24-C36]	**45**	**J**	47	9.4	mg/Kg		11/26/18 09:23	11/27/18 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*109*		*40 - 130*	*11/26/18 09:23*	*11/27/18 23:03*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Aldrin	ND		2.0	0.50	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
alpha-BHC	ND		2.0	0.55	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
beta-BHC	ND		2.0	0.36	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Chlordane (technical)	ND		40	3.2	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
cis-Chlordane	ND		2.0	0.40	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
delta-BHC	ND		2.0	0.44	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Dieldrin	ND		2.0	0.59	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Endosulfan I	ND		2.0	0.32	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Endosulfan II	ND		2.0	0.49	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Endrin	ND		2.0	0.46	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Endrin ketone	ND		2.0	0.33	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		11/28/18 11:56	11/29/18 12:22	1

Client Sample ID: DG-P9S-3.5-4
Date Collected: 11/21/18 09:00
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-2
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		2.0	0.46	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Methoxychlor	ND		2.0	0.68	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
Toxaphene	ND		40	6.8	ug/Kg		11/28/18 11:56	11/29/18 12:22	1
trans-Chlordane	ND		2.0	0.46	ug/Kg		11/28/18 11:56	11/29/18 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*21 - 136*	*11/28/18 11:56*	*11/29/18 12:22*	*1*
Tetrachloro-m-xylene	*84*		*21 - 145*	*11/28/18 11:56*	*11/29/18 12:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 13:12	1
Aroclor 1221	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 13:12	1
Aroclor 1232	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 13:12	1
Aroclor 1242	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 13:12	1
Aroclor 1248	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 13:12	1
Aroclor 1254	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 13:12	1
Aroclor 1260	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*11/28/18 05:52*	*11/29/18 13:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.4**		2.0	0.33	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Arsenic	**19**		4.0	0.34	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Barium	**33**		2.0	0.28	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Beryllium	**1.1**		0.40	0.13	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Cadmium	**0.57**		0.50	0.049	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Chromium	**28**		2.0	0.21	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Cobalt	**13**		0.79	0.079	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Copper	**41**		5.9	2.8	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Lead	**64**		2.0	0.42	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Molybdenum	**0.39**	**J**	2.0	0.25	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Nickel	**38**		2.0	0.20	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Selenium	ND		4.0	0.59	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Silver	**0.54**	**J B**	0.99	0.20	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Thallium	ND		2.0	0.57	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Vanadium	**45**		2.0	0.27	mg/Kg		11/24/18 09:35	11/26/18 15:52	4
Zinc	**520**		5.9	2.5	mg/Kg		11/24/18 09:35	11/26/18 15:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.016	0.0023	mg/Kg		11/28/18 09:07	11/28/18 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.7**		0.1	0.05	%			11/30/18 16:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DG-W13S-0.5-1

Date Collected: 11/21/18 10:30
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.9	0.31	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Arsenic	1.4	J	3.8	0.32	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Barium	30		1.9	0.27	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Beryllium	ND		0.38	0.12	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Cadmium	0.17	J	0.47	0.047	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Chromium	16		1.9	0.20	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Cobalt	13		0.75	0.075	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Copper	130		5.7	2.7	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Lead	66		1.9	0.40	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Molybdenum	ND		1.9	0.24	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Nickel	12		1.9	0.19	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Selenium	ND		3.8	0.57	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Silver	0.70	J B	0.94	0.19	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Thallium	ND		1.9	0.55	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Vanadium	120		1.9	0.26	mg/Kg		11/24/18 09:35	11/26/18 15:56	4
Zinc	75		5.7	2.4	mg/Kg		11/24/18 09:35	11/26/18 15:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.015	0.0023	mg/Kg		11/28/18 09:07	11/28/18 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.4		0.1	0.05	%			11/30/18 16:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DG-W13S-3.5-4
Date Collected: 11/21/18 10:30
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-4
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1		1.8	0.30	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Arsenic	7.6		3.6	0.31	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Barium	63		1.8	0.26	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Beryllium	0.36		0.36	0.12	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Cadmium	0.13	J	0.45	0.045	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Chromium	36		1.8	0.19	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Cobalt	16		0.73	0.073	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Copper	67		5.5	2.6	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Lead	17		1.8	0.38	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Molybdenum	0.32	J	1.8	0.23	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Nickel	31		1.8	0.19	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Selenium	ND		3.6	0.55	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Silver	0.72	J B	0.91	0.18	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Thallium	ND		1.8	0.53	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Vanadium	41		1.8	0.25	mg/Kg		11/24/18 09:35	11/26/18 16:01	4
Zinc	66		5.5	2.3	mg/Kg		11/24/18 09:35	11/26/18 16:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066		0.016	0.0024	mg/Kg		11/28/18 09:07	11/28/18 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.0		0.1	0.05	%			11/30/18 16:28	1

Client Sample ID: DG-AF13S-0.5-1

Date Collected: 11/21/18 12:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-5

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	1700		190	97	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Acenaphthene	2700	B	97	54	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Acenaphthylene	580		97	46	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Anthracene	2900		97	39	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Benzo[a]anthracene	1300		97	29	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Benzo[a]pyrene	740		97	37	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Benzo[b]fluoranthene	580		97	41	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Benzo[g,h,i]perylene	170		97	83	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Benzo[k]fluoranthene	ND		97	41	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Chrysene	2900		97	27	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Dibenz(a,h)anthracene	110		97	68	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Fluoranthene	1300		97	27	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Fluorene	4300		97	43	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Indeno[1,2,3-cd]pyrene	84	J	97	81	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Naphthalene	660		97	68	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Phenanthrene	13000	B	97	35	ug/Kg		11/26/18 15:29	11/27/18 21:55	20
Pyrene	4700		97	33	ug/Kg		11/26/18 15:29	11/27/18 21:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*33 - 120*	*11/26/18 15:29*	*11/27/18 21:55*	*20*
Terphenyl-d14	*79*		*35 - 146*	*11/26/18 15:29*	*11/27/18 21:55*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15000	B	190	72	mg/Kg		11/26/18 09:23	11/28/18 04:21	100
Motor Oil Range Organics [C24-C36]	17000		4800	960	mg/Kg		11/26/18 09:23	11/28/18 04:21	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D X*	*40 - 130*	*11/26/18 09:23*	*11/28/18 04:21*	*100*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		39	12	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
4,4'-DDE	ND		39	8.3	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
4,4'-DDT	ND		39	8.1	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Aldrin	ND		39	9.9	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
alpha-BHC	ND		39	11	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
beta-BHC	ND		39	7.1	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Chlordane (technical)	ND		790	63	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
cis-Chlordane	ND		39	7.9	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
delta-BHC	ND		39	8.7	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Dieldrin	ND		39	12	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Endosulfan I	ND		39	6.3	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Endosulfan II	ND		39	9.7	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Endosulfan sulfate	ND		39	7.5	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Endrin	ND		39	9.1	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Endrin aldehyde	ND		39	12	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Endrin ketone	ND		39	6.5	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
gamma-BHC (Lindane)	ND		39	12	ug/Kg		11/28/18 11:56	11/29/18 12:39	20

Client Sample ID: DG-AF13S-0.5-1

Date Collected: 11/21/18 12:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-5

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		39	9.1	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Heptachlor epoxide	ND		39	6.9	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Methoxychlor	ND		39	13	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
Toxaphene	ND		790	130	ug/Kg		11/28/18 11:56	11/29/18 12:39	20
trans-Chlordane	ND		39	9.1	ug/Kg		11/28/18 11:56	11/29/18 12:39	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D X*	*21 - 136*	*11/28/18 11:56*	*11/29/18 12:39*	*20*
Tetrachloro-m-xylene	*0*	*D X*	*21 - 145*	*11/28/18 11:56*	*11/29/18 12:39*	*20*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:25	1
Aroclor 1221	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:25	1
Aroclor 1232	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:25	1
Aroclor 1242	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:25	1
Aroclor 1248	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:25	1
Aroclor 1254	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:25	1
Aroclor 1260	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*11/28/18 05:52*	*11/29/18 13:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.79**	**J**	1.7	0.29	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Arsenic	**19**		3.4	0.29	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Barium	**80**		1.7	0.24	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Beryllium	**0.14**	**J**	0.34	0.11	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Cadmium	**0.073**	**J**	0.43	0.043	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Chromium	**48**		1.7	0.18	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Cobalt	**8.2**		0.69	0.069	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Copper	**16**		5.2	2.5	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Lead	**31**		1.7	0.36	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Molybdenum	**0.25**	**J**	1.7	0.22	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Nickel	**24**		1.7	0.18	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Selenium	ND		3.4	0.52	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Silver	**0.38**	**J B**	0.86	0.17	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Thallium	ND		1.7	0.50	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Vanadium	**43**		1.7	0.23	mg/Kg		11/24/18 09:35	11/26/18 16:15	4
Zinc	**36**		5.2	2.2	mg/Kg		11/24/18 09:35	11/26/18 16:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.097**		0.016	0.0024	mg/Kg		11/28/18 09:07	11/28/18 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.1**		0.1	0.05	%			11/30/18 16:28	1

Client Sample ID: DG-AF13S-3.5-4

Date Collected: 11/21/18 12:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-6

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	1000		480	240	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Acenaphthene	2900	B	240	140	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Acenaphthylene	590		240	120	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Anthracene	2600		240	97	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Benzo[a]anthracene	1200		240	72	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Benzo[a]pyrene	740		240	92	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Benzo[b]fluoranthene	600		240	100	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Benzo[g,h,i]perylene	220	J	240	210	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Benzo[k]fluoranthene	ND		240	100	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Chrysene	2600		240	68	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Dibenz(a,h)anthracene	ND		240	170	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Fluoranthene	1100		240	68	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Fluorene	4000		240	110	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Indeno[1,2,3-cd]pyrene	ND		240	200	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Naphthalene	930		240	170	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Phenanthrene	9800	B	240	87	ug/Kg		11/26/18 15:29	11/27/18 22:19	50
Pyrene	4100		240	82	ug/Kg		11/26/18 15:29	11/27/18 22:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*33 - 120*	*11/26/18 15:29*	*11/27/18 22:19*	*50*
Terphenyl-d14	*63*		*35 - 146*	*11/26/18 15:29*	*11/27/18 22:19*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	52000	B	490	180	mg/Kg		11/26/18 09:23	11/28/18 04:45	100
Motor Oil Range Organics [C24-C36]	63000		12000	2500	mg/Kg		11/26/18 09:23	11/28/18 04:45	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D X*	*40 - 130*	*11/26/18 09:23*	*11/28/18 04:45*	*100*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		96	29	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
4,4'-DDE	ND		96	20	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
4,4'-DDT	42	J	96	20	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Aldrin	ND		96	24	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
alpha-BHC	ND		96	26	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
beta-BHC	ND		96	17	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Chlordane (technical)	ND		1900	150	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
cis-Chlordane	ND		96	19	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
delta-BHC	ND		96	21	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Dieldrin	ND		96	28	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Endosulfan I	ND		96	15	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Endosulfan II	ND		96	24	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Endosulfan sulfate	ND		96	18	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Endrin	ND		96	22	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Endrin aldehyde	ND		96	30	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Endrin ketone	ND		96	16	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
gamma-BHC (Lindane)	ND		96	30	ug/Kg		11/28/18 11:56	11/29/18 12:57	50

Client Sample ID: DG-AF13S-3.5-4

Date Collected: 11/21/18 12:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-6

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		96	22	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Heptachlor epoxide	ND		96	17	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Methoxychlor	ND		96	33	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
Toxaphene	ND		1900	330	ug/Kg		11/28/18 11:56	11/29/18 12:57	50
trans-Chlordane	ND		96	22	ug/Kg		11/28/18 11:56	11/29/18 12:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D X*	*21 - 136*	*11/28/18 11:56*	*11/29/18 12:57*	*50*
Tetrachloro-m-xylene	*0*	*D X*	*21 - 145*	*11/28/18 11:56*	*11/29/18 12:57*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:39	1
Aroclor 1221	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:39	1
Aroclor 1232	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:39	1
Aroclor 1242	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:39	1
Aroclor 1248	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:39	1
Aroclor 1254	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:39	1
Aroclor 1260	ND		100	34	ug/Kg		11/28/18 05:52	11/29/18 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*11/28/18 05:52*	*11/29/18 13:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.9**		1.8	0.29	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Arsenic	**11**		3.5	0.30	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Barium	**440**		1.8	0.25	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Beryllium	**0.21**	**J**	0.35	0.12	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Cadmium	**1.1**		0.44	0.044	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Chromium	**30**		1.8	0.19	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Cobalt	**7.7**		0.71	0.071	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Copper	**190**		5.3	2.5	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Lead	**1500**		1.8	0.37	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Molybdenum	**0.40**	**J**	1.8	0.23	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Nickel	**26**		1.8	0.18	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Selenium	ND		3.5	0.53	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Silver	**1.9**	**B**	0.88	0.18	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Thallium	ND		1.8	0.51	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Vanadium	**60**		1.8	0.24	mg/Kg		11/24/18 09:35	11/26/18 16:19	4
Zinc	**550**		5.3	2.2	mg/Kg		11/24/18 09:35	11/26/18 16:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.47**		0.017	0.0025	mg/Kg		11/28/18 09:07	11/28/18 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.6**		0.1	0.05	%			11/30/18 16:28	1

Client Sample ID: DG-AF13S-7-7.5

Date Collected: 11/21/18 12:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-7

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	96		9.4	4.7	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Acenaphthene	130	B	4.7	2.6	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Acenaphthylene	17		4.7	2.3	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Anthracene	66		4.7	1.9	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Benzo[a]anthracene	36		4.7	1.4	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Benzo[a]pyrene	36		4.7	1.8	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Benzo[b]fluoranthene	51		4.7	2.0	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Benzo[g,h,i]perylene	22		4.7	4.1	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Benzo[k]fluoranthene	19		4.7	2.0	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Chrysene	64		4.7	1.3	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Dibenz(a,h)anthracene	5.5		4.7	3.3	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Fluoranthene	180		4.7	1.3	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Fluorene	88		4.7	2.1	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Indeno[1,2,3-cd]pyrene	17		4.7	4.0	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Naphthalene	500		4.7	3.3	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Phenanthrene	250	B	4.7	1.7	ug/Kg		11/26/18 15:29	11/27/18 17:59	1
Pyrene	160		4.7	1.6	ug/Kg		11/26/18 15:29	11/27/18 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*33 - 120*	*11/26/18 15:29*	*11/27/18 17:59*	*1*
Terphenyl-d14	*68*		*35 - 146*	*11/26/18 15:29*	*11/27/18 17:59*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	190	B	2.0	0.75	mg/Kg		11/26/18 09:23	11/28/18 02:43	1
Motor Oil Range Organics [C24-C36]	140		50	9.9	mg/Kg		11/26/18 09:23	11/28/18 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*86*		*40 - 130*	*11/26/18 09:23*	*11/28/18 02:43*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		19	5.9	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
4,4'-DDE	ND		19	4.0	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
4,4'-DDT	ND		19	3.9	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Aldrin	ND		19	4.8	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
alpha-BHC	ND		19	5.3	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
beta-BHC	ND		19	3.5	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Chlordane (technical)	ND		390	31	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
cis-Chlordane	ND		19	3.9	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
delta-BHC	ND		19	4.2	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Dieldrin	ND		19	5.7	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Endosulfan I	ND		19	3.1	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Endosulfan II	ND		19	4.7	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Endosulfan sulfate	ND		19	3.7	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Endrin	ND		19	4.4	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Endrin aldehyde	ND		19	6.1	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Endrin ketone	ND		19	3.2	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
gamma-BHC (Lindane)	ND		19	6.1	ug/Kg		11/28/18 11:56	11/30/18 06:55	10

Client Sample ID: DG-AF13S-7-7.5

Date Collected: 11/21/18 12:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-7

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		19	4.4	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Heptachlor epoxide	ND		19	3.4	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Methoxychlor	ND		19	6.5	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
Toxaphene	ND		390	66	ug/Kg		11/28/18 11:56	11/30/18 06:55	10
trans-Chlordane	ND		19	4.4	ug/Kg		11/28/18 11:56	11/30/18 06:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D X*	*21 - 136*	*11/28/18 11:56*	*11/30/18 06:55*	*10*
Tetrachloro-m-xylene	*0*	*D X*	*21 - 145*	*11/28/18 11:56*	*11/30/18 06:55*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:30	1
Aroclor 1221	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:30	1
Aroclor 1232	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:30	1
Aroclor 1242	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:30	1
Aroclor 1248	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:30	1
Aroclor 1254	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:30	1
Aroclor 1260	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*11/28/18 05:52*	*11/29/18 15:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.5**		1.9	0.31	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Arsenic	**10**		3.7	0.31	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Barium	**400**		1.9	0.26	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Beryllium	**0.56**		0.37	0.12	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Cadmium	**0.69**		0.46	0.046	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Chromium	**28**		1.9	0.20	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Cobalt	**9.7**		0.74	0.074	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Copper	**120**		5.6	2.6	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Lead	**890**		1.9	0.39	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Molybdenum	**0.45**	**J**	1.9	0.24	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Nickel	**29**		1.9	0.19	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Selenium	ND		3.7	0.56	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Silver	**2.2**	**B**	0.93	0.19	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Thallium	ND		1.9	0.54	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Vanadium	**30**		1.9	0.25	mg/Kg		11/24/18 09:35	11/26/18 16:24	4
Zinc	**460**		5.6	2.4	mg/Kg		11/24/18 09:35	11/26/18 16:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.017	0.0025	mg/Kg		11/28/18 09:07	11/28/18 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		0.1	0.05	%			11/30/18 16:28	1

Client Sample ID: DG-AL3S-0.5-1
Date Collected: 11/21/18 14:35
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-10
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.5	0.25	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Arsenic	11		3.1	0.26	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Barium	76		1.5	0.22	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Beryllium	ND		0.31	0.099	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Cadmium	0.92		0.38	0.038	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Chromium	9.5		1.5	0.16	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Cobalt	7.5		0.61	0.061	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Copper	160		4.6	2.2	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Lead	420		1.5	0.32	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Molybdenum	0.52	J	1.5	0.20	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Nickel	9.3		1.5	0.16	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Selenium	ND		3.1	0.46	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Silver	0.91	B	0.76	0.15	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Thallium	ND		1.5	0.44	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Vanadium	75		1.5	0.21	mg/Kg		11/24/18 09:35	11/26/18 16:28	4
Zinc	240		4.6	1.9	mg/Kg		11/24/18 09:35	11/26/18 16:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.015	0.0022	mg/Kg		11/28/18 09:07	11/28/18 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.2		0.1	0.05	%			11/30/18 16:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DG-AL3S-3.5-4
Date Collected: 11/21/18 14:35
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-11
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.1		1.4	0.24	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Arsenic	310		2.9	0.25	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Barium	39		1.4	0.21	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Beryllium	ND		0.29	0.094	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Cadmium	0.46		0.36	0.036	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Chromium	11		1.4	0.15	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Cobalt	9.5		0.58	0.058	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Copper	120		4.3	2.1	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Lead	200		1.4	0.30	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Molybdenum	ND		1.4	0.19	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Nickel	15		1.4	0.15	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Selenium	ND		2.9	0.43	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Silver	0.95	B	0.72	0.15	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Thallium	ND		1.4	0.42	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Vanadium	79		1.4	0.20	mg/Kg		11/24/18 09:35	11/26/18 16:33	4
Zinc	130		4.3	1.8	mg/Kg		11/24/18 09:35	11/26/18 16:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.089		0.015	0.0023	mg/Kg		11/28/18 09:07	11/28/18 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.7		0.1	0.05	%			11/30/18 16:28	1

Client Sample ID: DG-P1S-0.5-1

Date Collected: 11/21/18 15:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-12

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	16		9.6	4.8	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Acenaphthene	15	B	4.8	2.7	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Acenaphthylene	43		4.8	2.3	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Anthracene	45		4.8	1.9	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Benzo[a]anthracene	120	F1	4.8	1.4	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Benzo[a]pyrene	180	F1	4.8	1.8	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Benzo[b]fluoranthene	170		4.8	2.0	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Benzo[g,h,i]perylene	110		4.8	4.1	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Benzo[k]fluoranthene	64		4.8	2.0	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Chrysene	130	F1	4.8	1.3	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Dibenz(a,h)anthracene	34		4.8	3.4	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Fluoranthene	180	F1	4.8	1.3	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Fluorene	16		4.8	2.1	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Indeno[1,2,3-cd]pyrene	86		4.8	4.0	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Naphthalene	25		4.8	3.4	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Phenanthrene	120	B F2	4.8	1.7	ug/Kg		11/26/18 15:29	11/27/18 17:11	1
Pyrene	220		4.8	1.6	ug/Kg		11/26/18 15:29	11/27/18 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*11/26/18 15:29*	*11/27/18 17:11*	*1*
Terphenyl-d14	*81*		*35 - 146*	*11/26/18 15:29*	*11/27/18 17:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15	B	2.0	0.74	mg/Kg		11/26/18 09:23	11/27/18 22:39	1
Motor Oil Range Organics [C24-C36]	43	J	49	9.8	mg/Kg		11/26/18 09:23	11/27/18 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*103*		*40 - 130*	*11/26/18 09:23*	*11/27/18 22:39*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Aldrin	ND		1.9	0.48	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
alpha-BHC	ND		1.9	0.53	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
beta-BHC	ND		1.9	0.35	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Chlordane (technical)	ND		38	3.1	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
cis-Chlordane	ND		1.9	0.38	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
delta-BHC	ND		1.9	0.42	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Dieldrin	ND		1.9	0.57	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Endosulfan I	ND		1.9	0.31	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Endosulfan II	ND		1.9	0.47	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Endrin	ND		1.9	0.44	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Endrin ketone	ND		1.9	0.32	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		11/28/18 11:56	11/29/18 13:32	1

Client Sample ID: DG-P1S-0.5-1

Date Collected: 11/21/18 15:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-12

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.44	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Methoxychlor	ND		1.9	0.65	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
Toxaphene	ND		38	6.5	ug/Kg		11/28/18 11:56	11/29/18 13:32	1
trans-Chlordane	ND		1.9	0.44	ug/Kg		11/28/18 11:56	11/29/18 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*21 - 136*	*11/28/18 11:56*	*11/29/18 13:32*	*1*
Tetrachloro-m-xylene	*88*		*21 - 145*	*11/28/18 11:56*	*11/29/18 13:32*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:17	1
Aroclor 1221	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:17	1
Aroclor 1232	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:17	1
Aroclor 1242	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:17	1
Aroclor 1248	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:17	1
Aroclor 1254	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:17	1
Aroclor 1260	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*11/28/18 05:52*	*11/29/18 15:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.69**	**J**	1.7	0.28	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Arsenic	**42**		3.3	0.28	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Barium	**53**		1.7	0.24	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Beryllium	ND		0.33	0.11	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Cadmium	**0.10**	**J**	0.42	0.041	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Chromium	**23**		1.7	0.18	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Cobalt	**10**		0.67	0.067	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Copper	**81**		5.0	2.4	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Lead	**59**		1.7	0.35	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Molybdenum	ND		1.7	0.21	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Nickel	**14**		1.7	0.17	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Selenium	ND		3.3	0.50	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Silver	**0.60**	**J B**	0.83	0.17	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Thallium	ND		1.7	0.48	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Vanadium	**92**		1.7	0.23	mg/Kg		11/24/18 09:35	11/26/18 16:38	4
Zinc	**66**		5.0	2.1	mg/Kg		11/24/18 09:35	11/26/18 16:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.070**		0.015	0.0022	mg/Kg		11/28/18 09:07	11/28/18 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.9**		0.1	0.05	%			11/30/18 16:28	1

Client Sample ID: DG-P1S-3.5-4

Date Collected: 11/21/18 15:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-13

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	7.3	J	9.5	4.8	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Acenaphthene	5.4	B	4.8	2.7	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Acenaphthylene	3.8	J	4.8	2.3	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Anthracene	4.0	J	4.8	1.9	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Benzo[a]anthracene	6.9		4.8	1.4	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Benzo[a]pyrene	12		4.8	1.8	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Benzo[b]fluoranthene	14		4.8	2.0	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Benzo[g,h,i]perylene	13		4.8	4.1	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Benzo[k]fluoranthene	5.3		4.8	2.0	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Chrysene	12		4.8	1.3	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Dibenz(a,h)anthracene	4.0	J	4.8	3.3	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Fluoranthene	15		4.8	1.3	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Fluorene	4.0	J	4.8	2.1	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Indeno[1,2,3-cd]pyrene	9.0		4.8	4.0	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Naphthalene	9.6		4.8	3.3	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Phenanthrene	22	B	4.8	1.7	ug/Kg		11/26/18 15:29	11/27/18 15:36	1
Pyrene	18		4.8	1.6	ug/Kg		11/26/18 15:29	11/27/18 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*11/26/18 15:29*	*11/27/18 15:36*	*1*
Terphenyl-d14	*81*		*35 - 146*	*11/26/18 15:29*	*11/27/18 15:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.5	B	2.0	0.74	mg/Kg		11/28/18 08:47	11/28/18 14:35	1
Motor Oil Range Organics [C24-C36]	10	J	50	9.9	mg/Kg		11/28/18 08:47	11/28/18 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*11/28/18 08:47*	*11/28/18 14:35*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Aldrin	ND		1.9	0.47	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
alpha-BHC	ND		1.9	0.52	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
beta-BHC	ND		1.9	0.34	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Chlordane (technical)	ND		38	3.0	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
cis-Chlordane	ND		1.9	0.38	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
delta-BHC	ND		1.9	0.42	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Dieldrin	ND		1.9	0.56	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Endosulfan I	ND		1.9	0.30	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Endosulfan II	ND		1.9	0.46	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Endrin	ND		1.9	0.44	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Endrin ketone	ND		1.9	0.31	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		11/28/18 11:56	11/29/18 09:13	1

Client Sample ID: DG-P1S-3.5-4

Date Collected: 11/21/18 15:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-13

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.44	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Methoxychlor	ND		1.9	0.64	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
Toxaphene	ND		38	6.4	ug/Kg		11/28/18 11:56	11/29/18 09:13	1
trans-Chlordane	ND		1.9	0.44	ug/Kg		11/28/18 11:56	11/29/18 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*21 - 136*	*11/28/18 11:56*	*11/29/18 09:13*	*1*
Tetrachloro-m-xylene	*88*		*21 - 145*	*11/28/18 11:56*	*11/29/18 09:13*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:19	1
Aroclor 1221	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:19	1
Aroclor 1232	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:19	1
Aroclor 1242	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:19	1
Aroclor 1248	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:19	1
Aroclor 1254	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:19	1
Aroclor 1260	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*54*		*45 - 120*	*11/28/18 05:52*	*11/29/18 14:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.6**		2.0	0.33	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Arsenic	**55**		4.0	0.34	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Barium	**92**		2.0	0.28	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Beryllium	**0.16**	**J**	0.40	0.13	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Cadmium	**0.085**	**J**	0.50	0.050	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Chromium	**120**		2.0	0.21	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Cobalt	**17**		0.80	0.080	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Copper	**31**		6.0	2.8	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Lead	**4.5**		2.0	0.42	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Molybdenum	ND		2.0	0.26	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Nickel	**140**		2.0	0.20	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Selenium	ND		4.0	0.60	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Silver	**0.65**	**J B**	1.0	0.20	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Thallium	ND		2.0	0.58	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Vanadium	**70**		2.0	0.27	mg/Kg		11/24/18 09:35	11/26/18 16:42	4
Zinc	**49**		6.0	2.5	mg/Kg		11/24/18 09:35	11/26/18 16:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**12**		0.77	0.11	mg/Kg		11/28/18 09:07	11/28/18 12:18	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.5**		0.1	0.05	%			11/30/18 16:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DG-Z7S-0.5-1
Date Collected: 11/21/18 16:20
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-14
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	26		1.9	0.31	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Arsenic	18		3.7	0.32	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Barium	1300		1.9	0.27	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Beryllium	0.80		0.37	0.12	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Cadmium	2.3		0.47	0.046	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Chromium	46		1.9	0.20	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Cobalt	6.1		0.75	0.075	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Copper	570		5.6	2.7	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Lead	3200		1.9	0.39	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Molybdenum	0.76	J	1.9	0.24	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Nickel	67		1.9	0.19	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Selenium	ND		3.7	0.56	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Silver	4.7	B	0.93	0.19	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Thallium	ND		1.9	0.54	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Vanadium	35		1.9	0.25	mg/Kg		11/24/18 09:35	11/26/18 16:47	4
Zinc	1500		5.6	2.4	mg/Kg		11/24/18 09:35	11/26/18 16:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.51		0.014	0.0021	mg/Kg		11/28/18 09:07	11/28/18 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.3		0.1	0.05	%			11/30/18 16:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DG-Z7S-3.5-4
Date Collected: 11/21/18 16:20
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-15
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.7	0.28	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Arsenic	5.2		3.3	0.28	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Barium	130		1.7	0.24	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Beryllium	ND		0.33	0.11	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Cadmium	0.63		0.42	0.041	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Chromium	23		1.7	0.18	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Cobalt	9.5		0.67	0.067	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Copper	84		5.0	2.4	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Lead	130		1.7	0.35	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Molybdenum	0.83	J	1.7	0.21	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Nickel	34		1.7	0.17	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Selenium	ND		3.3	0.50	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Silver	0.70	J B	0.83	0.17	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Thallium	ND		1.7	0.48	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Vanadium	47		1.7	0.23	mg/Kg		11/24/18 09:35	11/26/18 16:51	4
Zinc	170		5.0	2.1	mg/Kg		11/24/18 09:35	11/26/18 16:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.016	0.0023	mg/Kg		11/28/18 09:07	11/28/18 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.6		0.1	0.05	%			11/30/18 16:28	1

Client Sample ID: DUP-02

Date Collected: 11/21/18 00:00
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-16

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	6.0	J	9.7	4.9	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Acenaphthene	3.7	J B	4.9	2.7	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Acenaphthylene	5.4		4.9	2.3	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Anthracene	14		4.9	1.9	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Benzo[a]anthracene	18		4.9	1.5	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Benzo[a]pyrene	20		4.9	1.9	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Benzo[b]fluoranthene	21		4.9	2.0	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Benzo[g,h,i]perylene	15		4.9	4.2	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Benzo[k]fluoranthene	9.1		4.9	2.0	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Chrysene	22		4.9	1.4	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Dibenz(a,h)anthracene	4.5	J	4.9	3.4	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Fluoranthene	39		4.9	1.4	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Fluorene	6.8		4.9	2.1	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Indeno[1,2,3-cd]pyrene	11		4.9	4.1	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Naphthalene	7.7		4.9	3.4	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Phenanthrene	53	B	4.9	1.8	ug/Kg		11/26/18 15:29	11/27/18 16:00	1
Pyrene	44		4.9	1.7	ug/Kg		11/26/18 15:29	11/27/18 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*11/26/18 15:29*	*11/27/18 16:00*	*1*
Terphenyl-d14	*73*		*35 - 146*	*11/26/18 15:29*	*11/27/18 16:00*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.7		1.9	0.72	mg/Kg		11/26/18 14:16	11/27/18 01:56	1
Motor Oil Range Organics [C24-C36]	16	J	48	9.6	mg/Kg		11/26/18 14:16	11/27/18 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*122*		*40 - 130*	*11/26/18 14:16*	*11/27/18 01:56*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Aldrin	ND		1.9	0.48	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
alpha-BHC	ND		1.9	0.53	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
beta-BHC	ND		1.9	0.35	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Chlordane (technical)	ND		39	3.1	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
cis-Chlordane	ND		1.9	0.39	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
delta-BHC	ND		1.9	0.42	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Dieldrin	ND		1.9	0.57	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Endosulfan I	ND		1.9	0.31	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Endosulfan II	ND		1.9	0.47	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Endrin	ND		1.9	0.44	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Endrin ketone	ND		1.9	0.32	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		11/28/18 11:56	11/29/18 09:29	1

Client Sample ID: DUP-02

Date Collected: 11/21/18 00:00
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-16

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		1.9	0.44	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Methoxychlor	ND		1.9	0.66	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
Toxaphene	ND		39	6.6	ug/Kg		11/28/18 11:56	11/29/18 09:29	1
trans-Chlordane	ND		1.9	0.44	ug/Kg		11/28/18 11:56	11/29/18 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*21 - 136*	*11/28/18 11:56*	*11/29/18 09:29*	*1*
Tetrachloro-m-xylene	*76*		*21 - 145*	*11/28/18 11:56*	*11/29/18 09:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:33	1
Aroclor 1221	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:33	1
Aroclor 1232	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:33	1
Aroclor 1242	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:33	1
Aroclor 1248	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:33	1
Aroclor 1254	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:33	1
Aroclor 1260	ND		50	17	ug/Kg		11/28/18 05:52	11/29/18 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*11/28/18 05:52*	*11/29/18 14:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.9**		1.7	0.29	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Arsenic	**56**		3.4	0.29	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Barium	**100**		1.7	0.24	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Beryllium	**0.12**	**J**	0.34	0.11	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Cadmium	**0.069**	**J**	0.43	0.043	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Chromium	**130**		1.7	0.18	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Cobalt	**17**		0.69	0.069	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Copper	**27**		5.2	2.5	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Lead	**7.0**		1.7	0.36	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Molybdenum	ND		1.7	0.22	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Nickel	**140**		1.7	0.18	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Selenium	ND		3.4	0.52	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Silver	**0.65**	**J B**	0.86	0.17	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Thallium	ND		1.7	0.50	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Vanadium	**79**		1.7	0.23	mg/Kg		11/24/18 09:35	11/26/18 16:56	4
Zinc	**52**		5.2	2.2	mg/Kg		11/24/18 09:35	11/26/18 16:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**19**		0.77	0.11	mg/Kg		11/28/18 09:07	11/28/18 12:21	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.1**		0.1	0.05	%			11/30/18 16:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DUP-01
Date Collected: 11/21/18 00:00
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-17
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.8	0.30	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Arsenic	97		3.6	0.31	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Barium	42		1.8	0.26	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Beryllium	ND		0.36	0.12	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Cadmium	0.31	J	0.45	0.045	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Chromium	8.6		1.8	0.19	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Cobalt	10		0.73	0.073	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Copper	77		5.5	2.6	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Lead	40		1.8	0.38	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Molybdenum	0.37	J	1.8	0.23	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Nickel	6.7		1.8	0.19	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Selenium	ND		3.6	0.55	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Silver	0.64	J B	0.91	0.18	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Thallium	ND		1.8	0.53	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Vanadium	91		1.8	0.25	mg/Kg		11/24/18 09:35	11/26/18 17:10	4
Zinc	69		5.5	2.3	mg/Kg		11/24/18 09:35	11/26/18 17:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.015	0.0022	mg/Kg		11/28/18 09:07	11/28/18 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.0		0.1	0.05	%			11/30/18 16:28	1

Client Sample ID: DG-AW7S-3.5-4

Date Collected: 11/21/18 13:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	37	F1	5.0	0.83	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Arsenic	22		10	0.85	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Barium	2300	F2	5.0	0.71	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Beryllium	1.1		1.0	0.33	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Cadmium	8.3		1.3	0.12	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Chromium	75	F1	5.0	0.53	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Cobalt	10		2.0	0.20	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Copper	2000	F2	15	7.1	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Lead	7900	B ^	5.0	1.1	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Molybdenum	1.4	J	5.0	0.64	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Nickel	66		5.0	0.51	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Selenium	ND	F1	10	1.5	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Silver	13	B	2.5	0.51	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Thallium	ND		5.0	1.5	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Vanadium	42	F1	5.0	0.68	mg/Kg		11/27/18 08:37	12/06/18 12:09	10
Zinc	5400	F2	15	6.4	mg/Kg		11/27/18 08:37	12/06/18 12:09	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.62		0.016	0.0024	mg/Kg		11/27/18 09:40	11/27/18 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.3		0.1	0.05	%			11/30/18 16:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DG-AW7S-0.5-1

Date Collected: 11/21/18 13:10
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	35		4.1	0.68	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Arsenic	35		8.2	0.70	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Barium	1500		4.1	0.58	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Beryllium	0.53	J	0.82	0.27	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Cadmium	5.0		1.0	0.10	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Chromium	150		4.1	0.43	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Cobalt	15		1.6	0.16	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Copper	4700		12	5.8	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Lead	4900	B ^	4.1	0.86	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Molybdenum	0.59	J	4.1	0.52	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Nickel	130		4.1	0.42	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Selenium	ND		8.2	1.2	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Silver	7.4	B	2.0	0.41	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Thallium	1.6	J	4.1	1.2	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Vanadium	33		4.1	0.56	mg/Kg		11/27/18 08:37	12/06/18 12:13	10
Zinc	3600		12	5.2	mg/Kg		11/27/18 08:37	12/06/18 12:13	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.030	0.0045	mg/Kg		11/27/18 09:40	11/27/18 12:22	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.05	%			12/03/18 14:36	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)
720-89864-1	DG-P9S-0.5-1	70	76
720-89864-2	DG-P9S-3.5-4	75	79
720-89864-5	DG-AF13S-0.5-1	70	79
720-89864-6	DG-AF13S-3.5-4	65	63
720-89864-7	DG-AF13S-7-7.5	56	68
720-89864-12	DG-P1S-0.5-1	77	81
720-89864-12 MS	DG-P1S-0.5-1	73	83
720-89864-12 MSD	DG-P1S-0.5-1	66	77
720-89864-13	DG-P1S-3.5-4	74	81
720-89864-16	DUP-02	63	73
LCS 720-255965/2-A	Lab Control Sample	69	83
MB 720-255965/1-A	Method Blank	56	61

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-89864-1	DG-P9S-0.5-1	101
720-89864-2	DG-P9S-3.5-4	109
720-89864-5	DG-AF13S-0.5-1	0 D X
720-89864-6	DG-AF13S-3.5-4	0 D X
720-89864-7	DG-AF13S-7-7.5	86
720-89864-12	DG-P1S-0.5-1	103
720-89864-12 MS	DG-P1S-0.5-1	118
720-89864-12 MSD	DG-P1S-0.5-1	121
720-89864-13	DG-P1S-3.5-4	107
720-89864-13 MS	DG-P1S-3.5-4	118
720-89864-13 MSD	DG-P1S-3.5-4	127
720-89864-16	DUP-02	122
720-89864-16 MS	DUP-02	116
720-89864-16 MSD	DUP-02	124
LCS 720-255935/2-A	Lab Control Sample	122
LCS 720-255956/2-A	Lab Control Sample	130
LCS 720-256070/2-A	Lab Control Sample	108
MB 720-255935/1-A	Method Blank	73
MB 720-255956/1-A	Method Blank	132 X
MB 720-256070/1-A	Method Blank	94

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-89864-1	DG-P9S-0.5-1	77	97
720-89864-12	DG-P1S-0.5-1	77	88
720-89864-13	DG-P1S-3.5-4	99	88
MB 720-256054/1-A	Method Blank	107	85

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-89864-2	DG-P9S-3.5-4	75	84
720-89864-16	DUP-02	96	76

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-89864-5	DG-AF13S-0.5-1	0 D X	0 D X
720-89864-6	DG-AF13S-3.5-4	0 D X	0 D X
720-89864-7	DG-AF13S-7-7.5	0 D X	0 D X
720-89914-B-1-F MSD	Matrix Spike Duplicate	83	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-89914-B-1-E MS	Matrix Spike	90	87
LCS 720-256054/2-A	Lab Control Sample	123	88

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCB2 (45-120)							
440-225141-A-1-F MS	Matrix Spike	55							
440-225141-A-1-G MSD	Matrix Spike Duplicate	52							
720-89864-1	DG-P9S-0.5-1	51							
720-89864-2	DG-P9S-3.5-4	61							
720-89864-5	DG-AF13S-0.5-1	55							
720-89864-6	DG-AF13S-3.5-4	61							
720-89864-7	DG-AF13S-7-7.5	59							
720-89864-12	DG-P1S-0.5-1	63							
720-89864-13	DG-P1S-3.5-4	54							
720-89864-16	DUP-02	55							
LCS 440-513573/2-A	Lab Control Sample	94							
MB 440-513573/1-A	Method Blank	90							

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-255965/1-A
Matrix: Solid
Analysis Batch: 256029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Acenaphthene	3.33	J	5.0	2.8	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Anthracene	ND		5.0	2.0	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Chrysene	ND		5.0	1.4	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Fluoranthene	ND		5.0	1.4	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Fluorene	ND		5.0	2.2	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Naphthalene	ND		5.0	3.5	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Phenanthrene	1.98	J	5.0	1.8	ug/Kg		11/26/18 15:29	11/27/18 15:12	1
Pyrene	ND		5.0	1.7	ug/Kg		11/26/18 15:29	11/27/18 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*33 - 120*	*11/26/18 15:29*	*11/27/18 15:12*	*1*
Terphenyl-d14	*61*		*35 - 146*	*11/26/18 15:29*	*11/27/18 15:12*	*1*

Lab Sample ID: LCS 720-255965/2-A
Matrix: Solid
Analysis Batch: 256029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	450		ug/Kg		67	46 - 110
Acenaphthene	667	490		ug/Kg		74	46 - 106
Acenaphthylene	667	512		ug/Kg		77	46 - 108
Anthracene	667	530		ug/Kg		80	55 - 103
Benzo[a]anthracene	667	565		ug/Kg		85	54 - 110
Benzo[a]pyrene	667	590		ug/Kg		88	62 - 111
Benzo[b]fluoranthene	667	594		ug/Kg		89	60 - 109
Benzo[g,h,i]perylene	667	595		ug/Kg		89	52 - 114
Benzo[k]fluoranthene	667	535		ug/Kg		80	58 - 109
Chrysene	667	543		ug/Kg		81	54 - 108
Dibenz(a,h)anthracene	667	587		ug/Kg		88	58 - 112
Fluoranthene	667	551		ug/Kg		83	59 - 109
Fluorene	667	513		ug/Kg		77	52 - 106
Indeno[1,2,3-cd]pyrene	667	590		ug/Kg		88	55 - 120
Naphthalene	667	457		ug/Kg		69	49 - 110
Phenanthrene	667	516		ug/Kg		77	57 - 110
Pyrene	667	551		ug/Kg		83	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-255965/2-A
Matrix: Solid
Analysis Batch: 256029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255965

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	*83*		*35 - 146*

Lab Sample ID: 720-89864-12 MS
Matrix: Solid
Analysis Batch: 256029

Client Sample ID: DG-P1S-0.5-1
Prep Type: Total/NA
Prep Batch: 255965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	16		655	491		ug/Kg		73	46 - 110
Acenaphthene	15	B	655	528		ug/Kg		78	46 - 106
Acenaphthylene	43		655	602		ug/Kg		85	46 - 108
Anthracene	45		655	652		ug/Kg		93	55 - 103
Benzo[a]anthracene	120	F1	655	860	F1	ug/Kg		113	54 - 110
Benzo[a]pyrene	180	F1	655	945	F1	ug/Kg		117	62 - 111
Benzo[b]fluoranthene	170		655	831		ug/Kg		101	60 - 109
Benzo[g,h,i]perylene	110		655	686		ug/Kg		89	52 - 114
Benzo[k]fluoranthene	64		655	758		ug/Kg		106	58 - 109
Chrysene	130	F1	655	846	F1	ug/Kg		109	54 - 108
Dibenz(a,h)anthracene	34		655	599		ug/Kg		86	58 - 112
Fluoranthene	180	F1	655	912	F1	ug/Kg		112	59 - 109
Fluorene	16		655	545		ug/Kg		81	52 - 106
Indeno[1,2,3-cd]pyrene	86		655	692		ug/Kg		93	55 - 120
Naphthalene	25		655	494		ug/Kg		72	49 - 110
Phenanthrene	120	B F2	655	824		ug/Kg		108	57 - 110
Pyrene	220		655	974		ug/Kg		115	50 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*73*		*33 - 120*
Terphenyl-d14	*83*		*35 - 146*

Lab Sample ID: 720-89864-12 MSD
Matrix: Solid
Analysis Batch: 256029

Client Sample ID: DG-P1S-0.5-1
Prep Type: Total/NA
Prep Batch: 255965

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	16		656	441		ug/Kg		65	46 - 110	11	35
Acenaphthene	15	B	656	459		ug/Kg		68	46 - 106	14	35
Acenaphthylene	43		656	510		ug/Kg		71	46 - 108	17	35
Anthracene	45		656	526		ug/Kg		73	55 - 103	21	35
Benzo[a]anthracene	120	F1	656	667		ug/Kg		84	54 - 110	25	35
Benzo[a]pyrene	180	F1	656	758		ug/Kg		88	62 - 111	22	35
Benzo[b]fluoranthene	170		656	721		ug/Kg		84	60 - 109	14	35
Benzo[g,h,i]perylene	110		656	553		ug/Kg		68	52 - 114	21	35
Benzo[k]fluoranthene	64		656	563		ug/Kg		76	58 - 109	29	35
Chrysene	130	F1	656	656		ug/Kg		80	54 - 108	25	35
Dibenz(a,h)anthracene	34		656	514		ug/Kg		73	58 - 112	15	35
Fluoranthene	180	F1	656	641		ug/Kg		71	59 - 109	35	35
Fluorene	16		656	485		ug/Kg		72	52 - 106	12	35
Indeno[1,2,3-cd]pyrene	86		656	574		ug/Kg		74	55 - 120	19	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-89864-12 MSD
Matrix: Solid
Analysis Batch: 256029

Client Sample ID: DG-P1S-0.5-1
Prep Type: Total/NA
Prep Batch: 255965

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	25		656	436		ug/Kg		63	49 - 110	12	35
Phenanthrene	120	B F2	656	563	F2	ug/Kg		68	57 - 110	38	35
Pyrene	220		656	690		ug/Kg		72	50 - 120	34	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*33 - 120*
Terphenyl-d14	*77*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-255935/1-A
Matrix: Solid
Analysis Batch: 255986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.68	J	2.0	0.75	mg/Kg		11/26/18 09:23	11/27/18 18:09	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		11/26/18 09:23	11/27/18 18:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*73*		*40 - 130*	*11/26/18 09:23*	*11/27/18 18:09*	*1*

Lab Sample ID: LCS 720-255935/2-A
Matrix: Solid
Analysis Batch: 255986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255935

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			167	158		mg/Kg		95	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*122*		*40 - 130*

Lab Sample ID: 720-89864-12 MS
Matrix: Solid
Analysis Batch: 255986

Client Sample ID: DG-P1S-0.5-1
Prep Type: Total/NA
Prep Batch: 255935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	15	B	162	165		mg/Kg		93	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*118*		*40 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-89864-12 MSD
Matrix: Solid
Analysis Batch: 255986

Client Sample ID: DG-P1S-0.5-1
Prep Type: Total/NA
Prep Batch: 255935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	15	B	163	198		mg/Kg		113	50 - 150	18	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*121*		*40 - 130*

Lab Sample ID: MB 720-255956/1-A
Matrix: Solid
Analysis Batch: 255921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		11/26/18 14:16	11/27/18 03:54	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		11/26/18 14:16	11/27/18 03:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*132*	*X*	*40 - 130*	*11/26/18 14:16*	*11/27/18 03:54*	*1*

Lab Sample ID: LCS 720-255956/2-A
Matrix: Solid
Analysis Batch: 255921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	194		mg/Kg		117	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*130*		*40 - 130*

Lab Sample ID: 720-89864-16 MS
Matrix: Solid
Analysis Batch: 255921

Client Sample ID: DUP-02
Prep Type: Total/NA
Prep Batch: 255956

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	4.7		160	173		mg/Kg		105	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*116*		*40 - 130*

Lab Sample ID: 720-89864-16 MSD
Matrix: Solid
Analysis Batch: 255921

Client Sample ID: DUP-02
Prep Type: Total/NA
Prep Batch: 255956

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	4.7		162	184		mg/Kg		111	50 - 150	6	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-89864-16 MSD
Matrix: Solid
Analysis Batch: 255921

Client Sample ID: DUP-02
Prep Type: Total/NA
Prep Batch: 255956

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	124		40 - 130

Lab Sample ID: MB 720-256070/1-A
Matrix: Solid
Analysis Batch: 256067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.18	J	2.0	0.75	mg/Kg		11/28/18 08:47	11/28/18 14:35	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		11/28/18 08:47	11/28/18 14:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	94		40 - 130	11/28/18 08:47	11/28/18 14:35	1

Lab Sample ID: LCS 720-256070/2-A
Matrix: Solid
Analysis Batch: 256067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256070

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	152		mg/Kg		91	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	108		40 - 130

Lab Sample ID: 720-89864-13 MS
Matrix: Solid
Analysis Batch: 256066

Client Sample ID: DG-P1S-3.5-4
Prep Type: Total/NA
Prep Batch: 256070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	3.5	B	166	156		mg/Kg		92	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	118		40 - 130

Lab Sample ID: 720-89864-13 MSD
Matrix: Solid
Analysis Batch: 256066

Client Sample ID: DG-P1S-3.5-4
Prep Type: Total/NA
Prep Batch: 256070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	3.5	B	165	162		mg/Kg		96	50 - 150	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	127		40 - 130

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-256054/1-A
Matrix: Solid
Analysis Batch: 256134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Aldrin	ND		2.0	0.50	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
alpha-BHC	ND		2.0	0.55	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
beta-BHC	ND		2.0	0.36	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Chlordane (technical)	ND		40	3.2	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
cis-Chlordane	ND		2.0	0.40	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
delta-BHC	ND		2.0	0.44	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Dieldrin	ND		2.0	0.59	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Endosulfan I	ND		2.0	0.32	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Endosulfan II	ND		2.0	0.49	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Endrin	ND		2.0	0.46	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Endrin ketone	ND		2.0	0.33	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Heptachlor	ND		2.0	0.46	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Methoxychlor	ND		2.0	0.68	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
Toxaphene	ND		40	6.8	ug/Kg		11/27/18 21:15	11/29/18 04:34	1
trans-Chlordane	ND		2.0	0.46	ug/Kg		11/27/18 21:15	11/29/18 04:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*21 - 136*	*11/27/18 21:15*	*11/29/18 04:34*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*11/27/18 21:15*	*11/29/18 04:34*	*1*

Lab Sample ID: LCS 720-256054/2-A
Matrix: Solid
Analysis Batch: 256134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	19.4		ug/Kg		116	75 - 128
4,4'-DDE	16.7	18.7		ug/Kg		112	76 - 126
4,4'-DDT	16.7	19.1		ug/Kg		114	63 - 127
Aldrin	16.7	16.0		ug/Kg		96	65 - 120
alpha-BHC	16.7	13.2		ug/Kg		79	46 - 122
beta-BHC	16.7	18.1		ug/Kg		109	78 - 136
cis-Chlordane	16.7	18.2		ug/Kg		109	70 - 120
delta-BHC	16.7	13.9		ug/Kg		83	43 - 125
Dieldrin	16.7	18.1		ug/Kg		109	72 - 120
Endosulfan I	16.7	18.2		ug/Kg		109	62 - 120
Endosulfan II	16.7	19.5		ug/Kg		117	65 - 120
Endosulfan sulfate	16.7	19.1		ug/Kg		114	72 - 121
Endrin	16.7	18.9		ug/Kg		114	68 - 120
Endrin aldehyde	16.7	19.4		ug/Kg		117	68 - 120
Endrin ketone	16.7	19.5		ug/Kg		117	75 - 136
gamma-BHC (Lindane)	16.7	15.8		ug/Kg		95	72 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-256054/2-A
Matrix: Solid
Analysis Batch: 256134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	16.7	16.9		ug/Kg		101	69 - 120
Heptachlor epoxide	16.7	17.6		ug/Kg		105	68 - 120
Methoxychlor	16.7	20.6		ug/Kg		124	71 - 132
trans-Chlordane	16.7	17.8		ug/Kg		107	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*21 - 136*
Tetrachloro-m-xylene	*88*		*21 - 145*

Lab Sample ID: 720-89914-B-1-E MS
Matrix: Solid
Analysis Batch: 256134

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 256054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.2	12.9		ug/Kg		80	40 - 120
4,4'-DDE	4.8		16.2	16.1		ug/Kg		70	40 - 120
4,4'-DDT	ND	F2	16.2	16.2		ug/Kg		100	17 - 144
Aldrin	ND		16.2	9.75		ug/Kg		60	53 - 120
alpha-BHC	ND	F2	16.2	15.2		ug/Kg		94	40 - 120
beta-BHC	ND	F2	16.2	14.0	p	ug/Kg		87	40 - 120
cis-Chlordane	ND		16.2	14.6		ug/Kg		91	40 - 120
delta-BHC	ND	F2	16.2	11.7		ug/Kg		72	40 - 120
Dieldrin	1.1	J p	16.2	16.4		ug/Kg		102	46 - 130
Endosulfan I	ND	F2	16.2	13.1		ug/Kg		81	40 - 120
Endosulfan II	ND		16.2	12.9		ug/Kg		80	40 - 120
Endosulfan sulfate	ND	F2	16.2	15.7		ug/Kg		97	40 - 120
Endrin	ND	F2	16.2	15.2		ug/Kg		94	32 - 143
Endrin aldehyde	ND	* F2	16.2	13.1		ug/Kg		81	40 - 120
Endrin ketone	ND		16.2	15.8		ug/Kg		98	40 - 120
gamma-BHC (Lindane)	ND		16.2	16.1		ug/Kg		100	58 - 120
Heptachlor	ND	F2	16.2	12.9		ug/Kg		80	52 - 120
Heptachlor epoxide	ND		16.2	14.2		ug/Kg		88	40 - 120
Methoxychlor	ND	F1 F2	16.2	37.8	F1	ug/Kg		234	40 - 120
trans-Chlordane	ND	F2	16.2	15.9		ug/Kg		98	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*21 - 136*
Tetrachloro-m-xylene	*87*		*21 - 145*

Lab Sample ID: 720-89914-B-1-F MSD
Matrix: Solid
Analysis Batch: 256134

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 256054

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.4	13.2		ug/Kg		80	40 - 120	2	20
4,4'-DDE	4.8		16.4	18.6		ug/Kg		84	40 - 120	15	20
4,4'-DDT	ND	F2	16.4	12.0	F2	ug/Kg		73	17 - 144	30	20
Aldrin	ND		16.4	10.3		ug/Kg		63	53 - 120	6	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-89914-B-1-F MSD
Matrix: Solid
Analysis Batch: 256134

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 256054

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	ND	F2	16.4	13.1		ug/Kg		80	40 - 120	14	20
beta-BHC	ND	F2	16.4	9.37	p F2	ug/Kg		57	40 - 120	40	20
cis-Chlordane	ND		16.4	13.0		ug/Kg		79	40 - 120	12	20
delta-BHC	ND	F2	16.4	9.20	F2	ug/Kg		56	40 - 120	24	20
Dieldrin	1.1	J p	16.4	15.4		ug/Kg		94	46 - 130	7	20
Endosulfan I	ND	F2	16.4	9.93	F2	ug/Kg		60	40 - 120	28	20
Endosulfan II	ND		16.4	12.2		ug/Kg		74	40 - 120	5	30
Endosulfan sulfate	ND	F2	16.4	12.4	F2	ug/Kg		75	40 - 120	24	20
Endrin	ND	F2	16.4	12.1	F2	ug/Kg		73	32 - 143	23	20
Endrin aldehyde	ND	* F2	16.4	7.48	F2	ug/Kg		45	40 - 120	55	20
Endrin ketone	ND		16.4	13.3		ug/Kg		81	40 - 120	17	20
gamma-BHC (Lindane)	ND		16.4	15.6		ug/Kg		95	58 - 120	3	20
Heptachlor	ND	F2	16.4	11.3		ug/Kg		69	52 - 120	14	20
Heptachlor epoxide	ND		16.4	13.4		ug/Kg		81	40 - 120	6	20
Methoxychlor	ND	F1 F2	16.4	14.0	F2	ug/Kg		85	40 - 120	92	20
trans-Chlordane	ND	F2	16.4	12.0	F2	ug/Kg		73	40 - 120	28	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*83*		*21 - 136*
Tetrachloro-m-xylene	*79*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-513573/1-A
Matrix: Solid
Analysis Batch: 513656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 513573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		11/28/18 05:52	11/28/18 13:18	1
Aroclor 1221	ND		50	17	ug/Kg		11/28/18 05:52	11/28/18 13:18	1
Aroclor 1232	ND		50	17	ug/Kg		11/28/18 05:52	11/28/18 13:18	1
Aroclor 1242	ND		50	17	ug/Kg		11/28/18 05:52	11/28/18 13:18	1
Aroclor 1248	ND		50	17	ug/Kg		11/28/18 05:52	11/28/18 13:18	1
Aroclor 1254	ND		50	17	ug/Kg		11/28/18 05:52	11/28/18 13:18	1
Aroclor 1260	ND		50	17	ug/Kg		11/28/18 05:52	11/28/18 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*	*11/28/18 05:52*	*11/28/18 13:18*	*1*

Lab Sample ID: LCS 440-513573/2-A
Matrix: Solid
Analysis Batch: 513656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	221		ug/Kg		83	65 - 115
Aroclor 1260	267	236		ug/Kg		89	65 - 115

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-513573/2-A
Matrix: Solid
Analysis Batch: 513656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513573

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	94		45 - 120

Lab Sample ID: 440-225141-A-1-F MS
Matrix: Solid
Analysis Batch: 513656

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 513573

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	158		ug/Kg		59	50 - 120
Aroclor 1260	ND		266	146		ug/Kg		55	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	55		45 - 120

Lab Sample ID: 440-225141-A-1-G MSD
Matrix: Solid
Analysis Batch: 513656

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 513573

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		267	152		ug/Kg		57	50 - 120	4	30
Aroclor 1260	ND		267	138		ug/Kg		52	50 - 125	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	52		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-255883/1-A
Matrix: Solid
Analysis Batch: 255992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Arsenic	ND		1.0	0.085	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Barium	ND		0.50	0.071	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Beryllium	ND		0.10	0.033	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Cadmium	ND		0.13	0.012	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Chromium	ND		0.50	0.053	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Cobalt	ND		0.20	0.020	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Copper	ND		1.5	0.71	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Lead	ND		0.50	0.11	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Molybdenum	ND		0.50	0.064	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Nickel	ND		0.50	0.051	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Selenium	ND		1.0	0.15	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Silver	0.0781	J	0.25	0.051	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Thallium	ND		0.50	0.15	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Vanadium	ND		0.50	0.068	mg/Kg		11/24/18 09:35	11/26/18 15:20	1
Zinc	ND		1.5	0.64	mg/Kg		11/24/18 09:35	11/26/18 15:20	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-255883/2-A
Matrix: Solid
Analysis Batch: 255992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.0		mg/Kg		96	80 - 120
Arsenic	50.0	48.8		mg/Kg		98	80 - 120
Barium	50.0	46.0		mg/Kg		92	80 - 120
Beryllium	50.0	48.2		mg/Kg		96	80 - 120
Cadmium	50.0	48.7		mg/Kg		97	80 - 120
Chromium	50.0	48.3		mg/Kg		97	80 - 120
Cobalt	50.0	47.1		mg/Kg		94	80 - 120
Copper	50.0	48.1		mg/Kg		96	80 - 120
Lead	50.0	49.6		mg/Kg		99	80 - 120
Molybdenum	50.0	50.1		mg/Kg		100	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Selenium	50.0	47.6		mg/Kg		95	80 - 120
Silver	25.0	23.3		mg/Kg		93	80 - 120
Thallium	50.0	49.2		mg/Kg		98	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	46.0		mg/Kg		92	80 - 120

Lab Sample ID: 720-89864-1 MS
Matrix: Solid
Analysis Batch: 255992

Client Sample ID: DG-P9S-0.5-1
Prep Type: Total/NA
Prep Batch: 255883

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.56	J F1	48.1	18.3	F1	mg/Kg		37	75 - 125
Arsenic	0.79	J	48.1	47.7		mg/Kg		98	75 - 125
Barium	26		48.1	74.2		mg/Kg		100	75 - 125
Beryllium	ND		48.1	45.9		mg/Kg		95	75 - 125
Cadmium	0.12	J	48.1	46.4		mg/Kg		96	75 - 125
Chromium	11		48.1	56.1		mg/Kg		94	75 - 125
Cobalt	13		48.1	55.4		mg/Kg		89	75 - 125
Copper	94		48.1	136		mg/Kg		88	75 - 125
Lead	6.4		48.1	51.9		mg/Kg		95	75 - 125
Molybdenum	ND		48.1	46.8		mg/Kg		97	75 - 125
Nickel	5.5		48.1	49.9		mg/Kg		92	75 - 125
Selenium	0.69	J	48.1	46.7		mg/Kg		96	75 - 125
Silver	0.76	J B	24.0	23.7		mg/Kg		96	75 - 125
Thallium	ND		48.1	43.9		mg/Kg		91	75 - 125
Vanadium	110		48.1	161		mg/Kg		103	75 - 125
Zinc	45		48.1	81.8		mg/Kg		77	75 - 125

Lab Sample ID: 720-89864-1 MSD
Matrix: Solid
Analysis Batch: 255992

Client Sample ID: DG-P9S-0.5-1
Prep Type: Total/NA
Prep Batch: 255883

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.56	J F1	47.2	16.4	F1	mg/Kg		34	75 - 125	11	20
Arsenic	0.79	J	47.2	47.4		mg/Kg		99	75 - 125	1	20
Barium	26		47.2	67.0		mg/Kg		87	75 - 125	10	20
Beryllium	ND		47.2	44.8		mg/Kg		95	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-89864-1 MSD
Matrix: Solid
Analysis Batch: 255992

Client Sample ID: DG-P9S-0.5-1
Prep Type: Total/NA
Prep Batch: 255883

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.12	J	47.2	45.9		mg/Kg		97	75 - 125	1	20
Chromium	11		47.2	55.4		mg/Kg		95	75 - 125	1	20
Cobalt	13		47.2	56.5		mg/Kg		93	75 - 125	2	20
Copper	94		47.2	151		mg/Kg		121	75 - 125	10	20
Lead	6.4		47.2	51.5		mg/Kg		95	75 - 125	1	20
Molybdenum	ND		47.2	45.9		mg/Kg		97	75 - 125	2	20
Nickel	5.5		47.2	49.9		mg/Kg		94	75 - 125	0	20
Selenium	0.69	J	47.2	45.9		mg/Kg		96	75 - 125	2	20
Silver	0.76	J B	23.6	23.2		mg/Kg		95	75 - 125	2	20
Thallium	ND		47.2	43.8		mg/Kg		93	75 - 125	0	20
Vanadium	110		47.2	165		mg/Kg		113	75 - 125	2	20
Zinc	45		47.2	87.3		mg/Kg		90	75 - 125	7	20

Lab Sample ID: MB 720-255961/1-A
Matrix: Solid
Analysis Batch: 256063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Arsenic	ND		1.0	0.085	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Barium	ND		0.50	0.071	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Beryllium	ND		0.10	0.033	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Cadmium	ND		0.13	0.012	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Chromium	ND		0.50	0.053	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Cobalt	ND		0.20	0.020	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Copper	ND		1.5	0.71	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Lead	0.141	J	0.50	0.11	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Molybdenum	ND		0.50	0.064	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Nickel	ND		0.50	0.051	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Selenium	ND		1.0	0.15	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Silver	0.0886	J	0.25	0.051	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Thallium	ND		0.50	0.15	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Vanadium	ND		0.50	0.068	mg/Kg		11/27/18 08:37	11/27/18 16:04	1
Zinc	ND		1.5	0.64	mg/Kg		11/27/18 08:37	11/27/18 16:04	1

Lab Sample ID: LCS 720-255961/2-A
Matrix: Solid
Analysis Batch: 256063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.9		mg/Kg		96	80 - 120
Arsenic	50.0	49.4		mg/Kg		99	80 - 120
Barium	50.0	44.9		mg/Kg		90	80 - 120
Beryllium	50.0	49.3		mg/Kg		99	80 - 120
Cadmium	50.0	49.1		mg/Kg		98	80 - 120
Chromium	50.0	48.9		mg/Kg		98	80 - 120
Cobalt	50.0	51.7		mg/Kg		103	80 - 120
Copper	50.0	47.9		mg/Kg		96	80 - 120
Lead	50.0	50.2		mg/Kg		100	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-255961/2-A
Matrix: Solid
Analysis Batch: 256063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	50.0	50.3		mg/Kg		101	80 - 120
Nickel	50.0	48.6		mg/Kg		97	80 - 120
Selenium	50.0	47.9		mg/Kg		96	80 - 120
Silver	25.0	23.2		mg/Kg		93	80 - 120
Thallium	50.0	49.4		mg/Kg		99	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	44.9		mg/Kg		90	80 - 120

Lab Sample ID: 720-89864-18 MS
Matrix: Solid
Analysis Batch: 256549

Client Sample ID: DG-AW7S-3.5-4
Prep Type: Total/NA
Prep Batch: 255961

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	37	F1	49.5	58.9	F1	mg/Kg		45	75 - 125
Arsenic	22		49.5	70.6		mg/Kg		97	75 - 125
Barium	2300	F2	49.5	2660	4	mg/Kg		677	75 - 125
Beryllium	1.1		49.5	48.6		mg/Kg		96	75 - 125
Cadmium	8.3		49.5	53.9		mg/Kg		92	75 - 125
Chromium	75	F1	49.5	123		mg/Kg		98	75 - 125
Cobalt	10		49.5	58.1		mg/Kg		96	75 - 125
Copper	2000	F2	49.5	2760	4	mg/Kg		1605	75 - 125
Lead	7900	B ^	49.5	6900	4	mg/Kg		-2112	75 - 125
Molybdenum	1.4	J	49.5	45.2		mg/Kg		88	75 - 125
Nickel	66		49.5	112		mg/Kg		92	75 - 125
Selenium	ND	F1	49.5	42.6		mg/Kg		86	75 - 125
Silver	13	B	24.8	38.0		mg/Kg		100	75 - 125
Thallium	ND		49.5	42.7		mg/Kg		86	75 - 125
Vanadium	42	F1	49.5	89.3		mg/Kg		96	75 - 125
Zinc	5400	F2	49.5	5380	4	mg/Kg		13	75 - 125

Lab Sample ID: 720-89864-18 MSD
Matrix: Solid
Analysis Batch: 256549

Client Sample ID: DG-AW7S-3.5-4
Prep Type: Total/NA
Prep Batch: 255961

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	37	F1	50.0	55.2	F1	mg/Kg		37	75 - 125	6	20
Arsenic	22		50.0	63.2		mg/Kg		81	75 - 125	11	20
Barium	2300	F2	50.0	1930	4 F2	mg/Kg		-773	75 - 125	31	20
Beryllium	1.1		50.0	49.4		mg/Kg		96	75 - 125	2	20
Cadmium	8.3		50.0	54.0		mg/Kg		91	75 - 125	0	20
Chromium	75	F1	50.0	108	F1	mg/Kg		67	75 - 125	13	20
Cobalt	10		50.0	59.6		mg/Kg		98	75 - 125	3	20
Copper	2000	F2	50.0	1730	4 F2	mg/Kg		-479	75 - 125	46	20
Lead	7900	B ^	50.0	6210	4	mg/Kg		-3475	75 - 125	11	20
Molybdenum	1.4	J	50.0	44.8		mg/Kg		87	75 - 125	1	20
Nickel	66		50.0	104		mg/Kg		75	75 - 125	7	20
Selenium	ND	F1	50.0	34.7	F1	mg/Kg		69	75 - 125	20	20
Silver	13	B	25.0	33.2		mg/Kg		79	75 - 125	13	20
Thallium	ND		50.0	43.3		mg/Kg		87	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-89864-18 MSD
Matrix: Solid
Analysis Batch: 256549

Client Sample ID: DG-AW7S-3.5-4
Prep Type: Total/NA
Prep Batch: 255961

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	42	F1	50.0	78.6	F1	mg/Kg		74	75 - 125	13	20
Zinc	5400	F2	50.0	3660	4 F2	mg/Kg		-3426	75 - 125	38	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-255765/1-A
Matrix: Solid
Analysis Batch: 256018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		11/27/18 09:40	11/27/18 11:15	1

Lab Sample ID: LCS 720-255765/2-A
Matrix: Solid
Analysis Batch: 256018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.779		mg/Kg		93	80 - 120

Lab Sample ID: 720-89814-A-4-B MS
Matrix: Solid
Analysis Batch: 256018

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 255765

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.045		0.725	0.725		mg/Kg		94	75 - 125

Lab Sample ID: 720-89814-A-4-C MSD
Matrix: Solid
Analysis Batch: 256018

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 255765

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.045		0.714	0.726		mg/Kg		95	75 - 125	0	20

Lab Sample ID: MB 720-255887/1-A
Matrix: Solid
Analysis Batch: 256092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		11/28/18 09:07	11/28/18 11:11	1

Lab Sample ID: LCS 720-255887/2-A
Matrix: Solid
Analysis Batch: 256092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.774		mg/Kg		93	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-89864-1 MS
Matrix: Solid
Analysis Batch: 256092

Client Sample ID: DG-P9S-0.5-1
Prep Type: Total/NA
Prep Batch: 255887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.038	F1	0.833	0.635	F1	mg/Kg		72	75 - 125		

Lab Sample ID: 720-89864-1 MSD
Matrix: Solid
Analysis Batch: 256092

Client Sample ID: DG-P9S-0.5-1
Prep Type: Total/NA
Prep Batch: 255887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.038	F1	0.833	0.718		mg/Kg		82	75 - 125	12	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-89864-1 DU
Matrix: Solid
Analysis Batch: 256271

Client Sample ID: DG-P9S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	17.2			17.6		%				2	20

Lab Sample ID: 720-90026-A-1 DU
Matrix: Solid
Analysis Batch: 256355

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	22.2			21.2		%				5	20

GC/MS Semi VOA

Prep Batch: 255965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	3546	
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	3546	
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	3546	
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	3546	
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	3546	
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	3546	
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	3546	
720-89864-16	DUP-02	Total/NA	Solid	3546	
MB 720-255965/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-255965/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-89864-12 MS	DG-P1S-0.5-1	Total/NA	Solid	3546	
720-89864-12 MSD	DG-P1S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 256029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	8270C SIM	255965
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	8270C SIM	255965
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	8270C SIM	255965
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	8270C SIM	255965
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	8270C SIM	255965
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	8270C SIM	255965
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	8270C SIM	255965
720-89864-16	DUP-02	Total/NA	Solid	8270C SIM	255965
MB 720-255965/1-A	Method Blank	Total/NA	Solid	8270C SIM	255965
LCS 720-255965/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	255965
720-89864-12 MS	DG-P1S-0.5-1	Total/NA	Solid	8270C SIM	255965
720-89864-12 MSD	DG-P1S-0.5-1	Total/NA	Solid	8270C SIM	255965

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Analysis Batch: 255921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-16	DUP-02	Total/NA	Solid	8015B	255956
MB 720-255956/1-A	Method Blank	Total/NA	Solid	8015B	255956
LCS 720-255956/2-A	Lab Control Sample	Total/NA	Solid	8015B	255956
720-89864-16 MS	DUP-02	Total/NA	Solid	8015B	255956
720-89864-16 MSD	DUP-02	Total/NA	Solid	8015B	255956

Prep Batch: 255935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	3546	
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	3546	
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	3546	
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	3546	
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	3546	
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	3546	
MB 720-255935/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-255935/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-89864-12 MS	DG-P1S-0.5-1	Total/NA	Solid	3546	
720-89864-12 MSD	DG-P1S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 255956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-16	DUP-02	Total/NA	Solid	3546	
MB 720-255956/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-255956/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-89864-16 MS	DUP-02	Total/NA	Solid	3546	
720-89864-16 MSD	DUP-02	Total/NA	Solid	3546	

Analysis Batch: 255986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	8015B	255935
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	8015B	255935
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	8015B	255935
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	8015B	255935
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	8015B	255935
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	8015B	255935
MB 720-255935/1-A	Method Blank	Total/NA	Solid	8015B	255935
LCS 720-255935/2-A	Lab Control Sample	Total/NA	Solid	8015B	255935
720-89864-12 MS	DG-P1S-0.5-1	Total/NA	Solid	8015B	255935
720-89864-12 MSD	DG-P1S-0.5-1	Total/NA	Solid	8015B	255935

Prep Batch: 256054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	3546	
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	3546	
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	3546	
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	3546	
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	3546	
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	3546	
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	3546	
720-89864-16	DUP-02	Total/NA	Solid	3546	
MB 720-256054/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-256054/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-89914-B-1-E MS	Matrix Spike	Total/NA	Solid	3546	
720-89914-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 256066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	8015B	256070
720-89864-13 MS	DG-P1S-3.5-4	Total/NA	Solid	8015B	256070
720-89864-13 MSD	DG-P1S-3.5-4	Total/NA	Solid	8015B	256070

Analysis Batch: 256067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-256070/1-A	Method Blank	Total/NA	Solid	8015B	256070
LCS 720-256070/2-A	Lab Control Sample	Total/NA	Solid	8015B	256070

Prep Batch: 256070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	3546	
MB 720-256070/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-256070/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-89864-13 MS	DG-P1S-3.5-4	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 256070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-13 MSD	DG-P1S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 256134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	8081A	256054
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	8081A	256054
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	8081A	256054
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	8081A	256054
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	8081A	256054
MB 720-256054/1-A	Method Blank	Total/NA	Solid	8081A	256054
LCS 720-256054/2-A	Lab Control Sample	Total/NA	Solid	8081A	256054
720-89914-B-1-E MS	Matrix Spike	Total/NA	Solid	8081A	256054
720-89914-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	256054

Analysis Batch: 256135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	8081A	256054
720-89864-16	DUP-02	Total/NA	Solid	8081A	256054

Analysis Batch: 256209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	8081A	256054

Prep Batch: 513573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	3546	
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	3546	
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	3546	
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	3546	
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	3546	
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	3546	
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	3546	
720-89864-16	DUP-02	Total/NA	Solid	3546	
MB 440-513573/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-513573/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-225141-A-1-F MS	Matrix Spike	Total/NA	Solid	3546	
440-225141-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 513656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	8082	513573
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	8082	513573
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	8082	513573
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	8082	513573
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	8082	513573
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	8082	513573
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	8082	513573
720-89864-16	DUP-02	Total/NA	Solid	8082	513573
MB 440-513573/1-A	Method Blank	Total/NA	Solid	8082	513573
LCS 440-513573/2-A	Lab Control Sample	Total/NA	Solid	8082	513573
440-225141-A-1-F MS	Matrix Spike	Total/NA	Solid	8082	513573

GC Semi VOA (Continued)

Analysis Batch: 513656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-225141-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	513573

Metals

Prep Batch: 255765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-18	DG-AW7S-3.5-4	Total/NA	Solid	7471A	
720-89864-19	DG-AW7S-0.5-1	Total/NA	Solid	7471A	
MB 720-255765/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-255765/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-89814-A-4-B MS	Matrix Spike	Total/NA	Solid	7471A	
720-89814-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 255883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	3050B	
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	3050B	
720-89864-3	DG-W13S-0.5-1	Total/NA	Solid	3050B	
720-89864-4	DG-W13S-3.5-4	Total/NA	Solid	3050B	
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	3050B	
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	3050B	
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	3050B	
720-89864-10	DG-AL3S-0.5-1	Total/NA	Solid	3050B	
720-89864-11	DG-AL3S-3.5-4	Total/NA	Solid	3050B	
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	3050B	
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	3050B	
720-89864-14	DG-Z7S-0.5-1	Total/NA	Solid	3050B	
720-89864-15	DG-Z7S-3.5-4	Total/NA	Solid	3050B	
720-89864-16	DUP-02	Total/NA	Solid	3050B	
720-89864-17	DUP-01	Total/NA	Solid	3050B	
MB 720-255883/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-255883/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-89864-1 MS	DG-P9S-0.5-1	Total/NA	Solid	3050B	
720-89864-1 MSD	DG-P9S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 255887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	7471A	
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	7471A	
720-89864-3	DG-W13S-0.5-1	Total/NA	Solid	7471A	
720-89864-4	DG-W13S-3.5-4	Total/NA	Solid	7471A	
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	7471A	
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	7471A	
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	7471A	
720-89864-10	DG-AL3S-0.5-1	Total/NA	Solid	7471A	
720-89864-11	DG-AL3S-3.5-4	Total/NA	Solid	7471A	
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	7471A	
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	7471A	
720-89864-14	DG-Z7S-0.5-1	Total/NA	Solid	7471A	
720-89864-15	DG-Z7S-3.5-4	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 255887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-16	DUP-02	Total/NA	Solid	7471A	
720-89864-17	DUP-01	Total/NA	Solid	7471A	
MB 720-255887/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-255887/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-89864-1 MS	DG-P9S-0.5-1	Total/NA	Solid	7471A	
720-89864-1 MSD	DG-P9S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 255961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-18	DG-AW7S-3.5-4	Total/NA	Solid	3050B	
720-89864-19	DG-AW7S-0.5-1	Total/NA	Solid	3050B	
MB 720-255961/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-255961/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-89864-18 MS	DG-AW7S-3.5-4	Total/NA	Solid	3050B	
720-89864-18 MSD	DG-AW7S-3.5-4	Total/NA	Solid	3050B	

Analysis Batch: 255992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	6010B	255883
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	6010B	255883
720-89864-3	DG-W13S-0.5-1	Total/NA	Solid	6010B	255883
720-89864-4	DG-W13S-3.5-4	Total/NA	Solid	6010B	255883
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	6010B	255883
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	6010B	255883
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	6010B	255883
720-89864-10	DG-AL3S-0.5-1	Total/NA	Solid	6010B	255883
720-89864-11	DG-AL3S-3.5-4	Total/NA	Solid	6010B	255883
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	6010B	255883
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	6010B	255883
720-89864-14	DG-Z7S-0.5-1	Total/NA	Solid	6010B	255883
720-89864-15	DG-Z7S-3.5-4	Total/NA	Solid	6010B	255883
720-89864-16	DUP-02	Total/NA	Solid	6010B	255883
720-89864-17	DUP-01	Total/NA	Solid	6010B	255883
MB 720-255883/1-A	Method Blank	Total/NA	Solid	6010B	255883
LCS 720-255883/2-A	Lab Control Sample	Total/NA	Solid	6010B	255883
720-89864-1 MS	DG-P9S-0.5-1	Total/NA	Solid	6010B	255883
720-89864-1 MSD	DG-P9S-0.5-1	Total/NA	Solid	6010B	255883

Analysis Batch: 256018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-18	DG-AW7S-3.5-4	Total/NA	Solid	7471A	255765
720-89864-19	DG-AW7S-0.5-1	Total/NA	Solid	7471A	255765
MB 720-255765/1-A	Method Blank	Total/NA	Solid	7471A	255765
LCS 720-255765/2-A	Lab Control Sample	Total/NA	Solid	7471A	255765
720-89814-A-4-B MS	Matrix Spike	Total/NA	Solid	7471A	255765
720-89814-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	255765

Analysis Batch: 256063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-255961/1-A	Method Blank	Total/NA	Solid	6010B	255961
LCS 720-255961/2-A	Lab Control Sample	Total/NA	Solid	6010B	255961

Metals (Continued)

Analysis Batch: 256063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-18 MS	DG-AW7S-3.5-4	Total/NA	Solid	6010B	255961
720-89864-18 MSD	DG-AW7S-3.5-4	Total/NA	Solid	6010B	255961

Analysis Batch: 256092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	7471A	255887
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	7471A	255887
720-89864-3	DG-W13S-0.5-1	Total/NA	Solid	7471A	255887
720-89864-4	DG-W13S-3.5-4	Total/NA	Solid	7471A	255887
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	7471A	255887
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	7471A	255887
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	7471A	255887
720-89864-10	DG-AL3S-0.5-1	Total/NA	Solid	7471A	255887
720-89864-11	DG-AL3S-3.5-4	Total/NA	Solid	7471A	255887
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	7471A	255887
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	7471A	255887
720-89864-14	DG-Z7S-0.5-1	Total/NA	Solid	7471A	255887
720-89864-15	DG-Z7S-3.5-4	Total/NA	Solid	7471A	255887
720-89864-16	DUP-02	Total/NA	Solid	7471A	255887
720-89864-17	DUP-01	Total/NA	Solid	7471A	255887
MB 720-255887/1-A	Method Blank	Total/NA	Solid	7471A	255887
LCS 720-255887/2-A	Lab Control Sample	Total/NA	Solid	7471A	255887
720-89864-1 MS	DG-P9S-0.5-1	Total/NA	Solid	7471A	255887
720-89864-1 MSD	DG-P9S-0.5-1	Total/NA	Solid	7471A	255887

Analysis Batch: 256549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-18	DG-AW7S-3.5-4	Total/NA	Solid	6010B	255961
720-89864-19	DG-AW7S-0.5-1	Total/NA	Solid	6010B	255961
720-89864-18 MS	DG-AW7S-3.5-4	Total/NA	Solid	6010B	255961
720-89864-18 MSD	DG-AW7S-3.5-4	Total/NA	Solid	6010B	255961

General Chemistry

Analysis Batch: 256271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-1	DG-P9S-0.5-1	Total/NA	Solid	Moisture	
720-89864-2	DG-P9S-3.5-4	Total/NA	Solid	Moisture	
720-89864-3	DG-W13S-0.5-1	Total/NA	Solid	Moisture	
720-89864-4	DG-W13S-3.5-4	Total/NA	Solid	Moisture	
720-89864-5	DG-AF13S-0.5-1	Total/NA	Solid	Moisture	
720-89864-6	DG-AF13S-3.5-4	Total/NA	Solid	Moisture	
720-89864-7	DG-AF13S-7-7.5	Total/NA	Solid	Moisture	
720-89864-10	DG-AL3S-0.5-1	Total/NA	Solid	Moisture	
720-89864-11	DG-AL3S-3.5-4	Total/NA	Solid	Moisture	
720-89864-12	DG-P1S-0.5-1	Total/NA	Solid	Moisture	
720-89864-13	DG-P1S-3.5-4	Total/NA	Solid	Moisture	
720-89864-14	DG-Z7S-0.5-1	Total/NA	Solid	Moisture	
720-89864-15	DG-Z7S-3.5-4	Total/NA	Solid	Moisture	
720-89864-16	DUP-02	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 256271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-17	DUP-01	Total/NA	Solid	Moisture	
720-89864-18	DG-AW7S-3.5-4	Total/NA	Solid	Moisture	
720-89864-1 DU	DG-P9S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 256355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89864-19	DG-AW7S-0.5-1	Total/NA	Solid	Moisture	
720-90026-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Client Sample ID: DG-P9S-0.5-1

Date Collected: 11/21/18 09:00
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			255965	11/26/18 15:29	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		2	256029	11/27/18 21:31	LPL	TAL PLS
Total/NA	Prep	3546			255935	11/26/18 09:23	KLM	TAL PLS
Total/NA	Analysis	8015B		2	255986	11/28/18 03:57	JXL	TAL PLS
Total/NA	Prep	3546			256054	11/28/18 11:56	WGR	TAL PLS
Total/NA	Analysis	8081A		1	256134	11/29/18 12:04	JZT	TAL PLS
Total/NA	Prep	3546			513573	11/28/18 05:52	L1A	TAL IRV
Total/NA	Analysis	8082		1	513656	11/29/18 12:58	JM	TAL IRV
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 15:47	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:21	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-P9S-3.5-4

Date Collected: 11/21/18 09:00
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			255965	11/26/18 15:29	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		1	256029	11/27/18 17:35	LPL	TAL PLS
Total/NA	Prep	3546			255935	11/26/18 09:23	KLM	TAL PLS
Total/NA	Analysis	8015B		1	255986	11/27/18 23:03	JXL	TAL PLS
Total/NA	Prep	3546			256054	11/28/18 11:56	WGR	TAL PLS
Total/NA	Analysis	8081A		1	256134	11/29/18 12:22	JZT	TAL PLS
Total/NA	Prep	3546			513573	11/28/18 05:52	L1A	TAL IRV
Total/NA	Analysis	8082		1	513656	11/29/18 13:12	JM	TAL IRV
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 15:52	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:23	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-W13S-0.5-1

Date Collected: 11/21/18 10:30
Date Received: 11/21/18 18:30

Lab Sample ID: 720-89864-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 15:56	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:26	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-W13S-3.5-4

Lab Sample ID: 720-89864-4

Date Collected: 11/21/18 10:30

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:01	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:28	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-AF13S-0.5-1

Lab Sample ID: 720-89864-5

Date Collected: 11/21/18 12:10

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			255965	11/26/18 15:29	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		20	256029	11/27/18 21:55	LPL	TAL PLS
Total/NA	Prep	3546			255935	11/26/18 09:23	KLM	TAL PLS
Total/NA	Analysis	8015B		100	255986	11/28/18 04:21	JXL	TAL PLS
Total/NA	Prep	3546			256054	11/28/18 11:56	WGR	TAL PLS
Total/NA	Analysis	8081A		20	256134	11/29/18 12:39	JZT	TAL PLS
Total/NA	Prep	3546			513573	11/28/18 05:52	L1A	TAL IRV
Total/NA	Analysis	8082		1	513656	11/29/18 13:25	JM	TAL IRV
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:15	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:30	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-AF13S-3.5-4

Lab Sample ID: 720-89864-6

Date Collected: 11/21/18 12:10

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			255965	11/26/18 15:29	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		50	256029	11/27/18 22:19	LPL	TAL PLS
Total/NA	Prep	3546			255935	11/26/18 09:23	KLM	TAL PLS
Total/NA	Analysis	8015B		100	255986	11/28/18 04:45	JXL	TAL PLS
Total/NA	Prep	3546			256054	11/28/18 11:56	WGR	TAL PLS
Total/NA	Analysis	8081A		50	256134	11/29/18 12:57	JZT	TAL PLS
Total/NA	Prep	3546			513573	11/28/18 05:52	L1A	TAL IRV
Total/NA	Analysis	8082		1	513656	11/29/18 13:39	JM	TAL IRV
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:19	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:33	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-AF13S-7-7.5

Lab Sample ID: 720-89864-7

Date Collected: 11/21/18 12:10

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			255965	11/26/18 15:29	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		1	256029	11/27/18 17:59	LPL	TAL PLS
Total/NA	Prep	3546			255935	11/26/18 09:23	KLM	TAL PLS
Total/NA	Analysis	8015B		1	255986	11/28/18 02:43	JXL	TAL PLS
Total/NA	Prep	3546			256054	11/28/18 11:56	WGR	TAL PLS
Total/NA	Analysis	8081A		10	256209	11/30/18 06:55	JZT	TAL PLS
Total/NA	Prep	3546			513573	11/28/18 05:52	L1A	TAL IRV
Total/NA	Analysis	8082		1	513656	11/29/18 15:30	JM	TAL IRV
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:24	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:40	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-AL3S-0.5-1

Lab Sample ID: 720-89864-10

Date Collected: 11/21/18 14:35

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:28	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:47	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-AL3S-3.5-4

Lab Sample ID: 720-89864-11

Date Collected: 11/21/18 14:35

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:33	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:49	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-P1S-0.5-1

Lab Sample ID: 720-89864-12

Date Collected: 11/21/18 15:10

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			255965	11/26/18 15:29	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		1	256029	11/27/18 17:11	LPL	TAL PLS

Client Sample ID: DG-P1S-0.5-1

Lab Sample ID: 720-89864-12

Date Collected: 11/21/18 15:10

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			255935	11/26/18 09:23	KLM	TAL PLS
Total/NA	Analysis	8015B		1	255986	11/27/18 22:39	JXL	TAL PLS
Total/NA	Prep	3546			256054	11/28/18 11:56	WGR	TAL PLS
Total/NA	Analysis	8081A		1	256134	11/29/18 13:32	JZT	TAL PLS
Total/NA	Prep	3546			513573	11/28/18 05:52	L1A	TAL IRV
Total/NA	Analysis	8082		1	513656	11/29/18 15:17	JM	TAL IRV
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:38	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:52	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-P1S-3.5-4

Lab Sample ID: 720-89864-13

Date Collected: 11/21/18 15:10

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			255965	11/26/18 15:29	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		1	256029	11/27/18 15:36	LPL	TAL PLS
Total/NA	Prep	3546			256070	11/28/18 08:47	MAB	TAL PLS
Total/NA	Analysis	8015B		1	256066	11/28/18 14:35	JXL	TAL PLS
Total/NA	Prep	3546			256054	11/28/18 11:56	WGR	TAL PLS
Total/NA	Analysis	8081A		1	256135	11/29/18 09:13	JZT	TAL PLS
Total/NA	Prep	3546			513573	11/28/18 05:52	L1A	TAL IRV
Total/NA	Analysis	8082		1	513656	11/29/18 14:19	JM	TAL IRV
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:42	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		50	256092	11/28/18 12:18	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-Z7S-0.5-1

Lab Sample ID: 720-89864-14

Date Collected: 11/21/18 16:20

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:47	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:56	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-Z7S-3.5-4

Lab Sample ID: 720-89864-15

Date Collected: 11/21/18 16:20

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:51	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 11:59	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DUP-02

Lab Sample ID: 720-89864-16

Date Collected: 11/21/18 00:00

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			255965	11/26/18 15:29	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		1	256029	11/27/18 16:00	LPL	TAL PLS
Total/NA	Prep	3546			255956	11/26/18 14:16	IAU	TAL PLS
Total/NA	Analysis	8015B		1	255921	11/27/18 01:56	JXL	TAL PLS
Total/NA	Prep	3546			256054	11/28/18 11:56	WGR	TAL PLS
Total/NA	Analysis	8081A		1	256135	11/29/18 09:29	JZT	TAL PLS
Total/NA	Prep	3546			513573	11/28/18 05:52	L1A	TAL IRV
Total/NA	Analysis	8082		1	513656	11/29/18 14:33	JM	TAL IRV
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 16:56	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		50	256092	11/28/18 12:21	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DUP-01

Lab Sample ID: 720-89864-17

Date Collected: 11/21/18 00:00

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			255883	11/24/18 09:35	MAA	TAL PLS
Total/NA	Analysis	6010B		4	255992	11/26/18 17:10	OBI	TAL PLS
Total/NA	Prep	7471A			255887	11/28/18 09:07	MAA	TAL PLS
Total/NA	Analysis	7471A		1	256092	11/28/18 12:09	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-AW7S-3.5-4

Lab Sample ID: 720-89864-18

Date Collected: 11/21/18 13:10

Matrix: Solid

Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			255961	11/27/18 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		10	256549	12/06/18 12:09	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Client Sample ID: DG-AW7S-3.5-4

Lab Sample ID: 720-89864-18

Date Collected: 11/21/18 13:10
Matrix: Solid
Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			255765	11/27/18 09:40	GLL	TAL PLS
Total/NA	Analysis	7471A		1	256018	11/27/18 12:01	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256271	11/30/18 16:28	TNL	TAL PLS

Client Sample ID: DG-AW7S-0.5-1

Lab Sample ID: 720-89864-19

Date Collected: 11/21/18 13:10
Matrix: Solid
Date Received: 11/21/18 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			255961	11/27/18 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		10	256549	12/06/18 12:13	OBI	TAL PLS
Total/NA	Prep	7471A			255765	11/27/18 09:40	GLL	TAL PLS
Total/NA	Analysis	7471A		2	256018	11/27/18 12:22	OBI	TAL PLS
Total/NA	Analysis	Moisture		1	256355	12/03/18 14:36	BKR	TAL PLS

Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Method	Method Description	Protocol	Laboratory
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435	None	
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

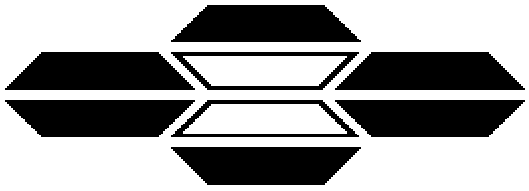
TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-89864-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-89864-1	DG-P9S-0.5-1	Solid	11/21/18 09:00	11/21/18 18:30
720-89864-2	DG-P9S-3.5-4	Solid	11/21/18 09:00	11/21/18 18:30
720-89864-3	DG-W13S-0.5-1	Solid	11/21/18 10:30	11/21/18 18:30
720-89864-4	DG-W13S-3.5-4	Solid	11/21/18 10:30	11/21/18 18:30
720-89864-5	DG-AF13S-0.5-1	Solid	11/21/18 12:10	11/21/18 18:30
720-89864-6	DG-AF13S-3.5-4	Solid	11/21/18 12:10	11/21/18 18:30
720-89864-7	DG-AF13S-7-7.5	Solid	11/21/18 12:10	11/21/18 18:30
720-89864-10	DG-AL3S-0.5-1	Solid	11/21/18 14:35	11/21/18 18:30
720-89864-11	DG-AL3S-3.5-4	Solid	11/21/18 14:35	11/21/18 18:30
720-89864-12	DG-P1S-0.5-1	Solid	11/21/18 15:10	11/21/18 18:30
720-89864-13	DG-P1S-3.5-4	Solid	11/21/18 15:10	11/21/18 18:30
720-89864-14	DG-Z7S-0.5-1	Solid	11/21/18 16:20	11/21/18 18:30
720-89864-15	DG-Z7S-3.5-4	Solid	11/21/18 16:20	11/21/18 18:30
720-89864-16	DUP-02	Solid	11/21/18 00:00	11/21/18 18:30
720-89864-17	DUP-01	Solid	11/21/18 00:00	11/21/18 18:30
720-89864-18	DG-AW7S-3.5-4	Solid	11/21/18 13:10	11/21/18 18:30
720-89864-19	DG-AW7S-0.5-1	Solid	11/21/18 13:10	11/21/18 18:30



ASBESTOS TEM LABORATORIES, INC.

CARB Method 435
Polarized Light Microscopy
Analytical Report

Laboratory Job # 1283-01258

630 Bancroft Way
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429

Dec/05/2018

Urvashi Patel
TestAmerica Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566

RE: LABORATORY JOB # 1283-01258
Polarized light microscopy analytical results for 8 bulk sample(s).
Job Site: 720-89864-1
Job No.: Brisbane OU2

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microsope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting techinique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

POLARIZED LIGHT MICROSCOPY
CARB 435 ANALYTICAL REPORT

Contact: Urvashi Patel

Address: TestAmerica Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566

Samples Submitted: 8

Samples Analyzed: 8

Job Site / No. Brisbane OU2
720-89864-1

Report No. **361644**
Date Submitted: Nov-26-18
Date Reported: Dec-05-18

SAMPLE ID	POINTS COUNTED	ASBESTOS %	ASBESTOS TYPE	LOCATION / DESCRIPTION
(720-89864-1)		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1283-01258-001	**400** - Total Points			
(720-89864-2)		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1283-01258-002	**400** - Total Points			
(720-89864-5)		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1283-01258-003	**400** - Total Points			
(720-89864-6)		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1283-01258-004	**400** - Total Points			
(720-89864-7)		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1283-01258-005	**400** - Total Points			
(720-89864-12)		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1283-01258-006	**400** - Total Points			
(720-89864-13)		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1283-01258-007	**400** - Total Points			
(720-89864-16)		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1283-01258-008	**400** - Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			

QC Reviewer _____ **Analys** _____

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40322.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: Asbestos TEM Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 720-89864-1
Address: 630 BANCROFT WAY,	Due Date Requested: 12/6/2018			Preservation Codes:
City: Berkeley	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:
State, Zip: CA, 94710				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU2	Project #: 72013935			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435)/ Asbestos - CARB 435	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-P9S-0.5-1 (720-89864-1)	11/21/18	09:00 Pacific		Solid			X	1	
DG-P9S-3.5-4 (720-89864-2)	11/21/18	09:00 Pacific		Solid			X	1	
DG-AF13S-0.5-1 (720-89864-5)	11/21/18	12:10 Pacific		Solid			X	1	
DG-AF13S-3.5-4 (720-89864-6)	11/21/18	12:10 Pacific		Solid			X	1	
DG-AF13S-7-7.5 (720-89864-7)	11/21/18	12:10 Pacific		Solid			X	1	
DG-P1S-0.5-1 (720-89864-12)	11/21/18	15:10 Pacific		Solid			X	1	
DG-P1S-3.5-4 (720-89864-13)	11/21/18	15:10 Pacific		Solid			X	1	
DUP-02 (720-89864-16)	11/21/18	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
TA PLS	11-26-18 14:30	TA PLS	MB	NOV26 '18 2:34PM	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

720-89864

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756

Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 72013935

#186837

Date 11/21/18 Page 1 of 2

12/7/2018

Report To

Attn: Miranda Kahrilas, Bill Chen, Tony Smith

Company: Geosyntec Consultants

Address: 2594 Bayshore Blvd

Email: mkahrilas@geosyntec.com

Bill To: Geosyntec Tony Smith

Sampled By: Miranda Kahrilas

Attn:

Phone: 847-530-7602

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ☐ 624	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☒ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☒ EPA 8081A PCBs ☒ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	1,2,3-TCP (8260B-SIM)	Asbestos (CARB 435)	Number of Containers
DG-P9S-0.5-1	11/21	900	S	Y	X			X		X		X	X											X	9
DG-P9S-3.5-4		900		Y	X			X		X		X	X											X	9
DG-W13S-0.5-1		1030		N									X									DO NOT RUN	✓		1
DG-W13S-3.5-4		1030		N									X												1
DG-AF13S-0.5-1		1210		Y	X			X		X		X	X											X	9
DG-AF13S-3.5-4		1210		Y	X			X		X		X	X											X	9
DG-AF13S-7-7.5		1210		Y	X			X		X		X	X									DO NOT RUN	✓	X	9
DG-AW3S-0.5-1		1310		N									X												1
DG-AW3S-3.5-4		1310		N									X												1

Project Info.

Project Name/ #: Brisbane A/2

PO#: 72013935

Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:

Head Space:

Temp: 1.3°C

TAT: (10 Day) 5 Day 4 Day 3 Day 2 Day 1 Day Other:

Urvashi Patel is TA PM

Report: ☐ Routine ☐ Level 3 ☒ Level 4 ☐ EDD ☐ EDF

Special Instructions / Comments: ☐ Global ID

1,2,3-TCP only on shallow (0.5-1) samples

See Terms and Conditions on reverse

1) Relinquished by:

Signature 1640 Time

Miranda Kahrilas 11/21/18

Printed Name Date

Geosyntec

Company

2) Relinquished by:

Signature 18:30 Time

RICH 11-21-18

Printed Name Date

TA PLS

Company

3) Relinquished by:

Signatur Time

Printed Date

Comp

1) Received by:

Signature 16:40 Time

RICH 11-21-18

Printed Name Date

TA PLS

Company

2) Received by:

Signature 11/21/18 Time

Jamar 1830

Printed Name Date

TAPLS

Company

3) Ri

Sig Time

Pr Date

720-89864 Chain of Custody

Rev.10/2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 72013935
#186837

Date 11/21/18 Page 2 of 2

12/7/2018

Report To

Attn: Miranda Kahrilas Bill Chen + Tony Smith
Company: Geosyntec Consultants
Address: 2569 Bayshore Blvd
Email: MKahrilas@geosyntec.com
Bill To: Geosyntec
Sampled By: M. Kahrilas
Attn: Tony Smith
Phone: 347-530-7607

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B* GRO	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☒ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☒ EPA 8081A PCBs ☒ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	1,2,3-TCP (8260B-SIM)	Asbestos (CARB 435)	Number of Containers
1 DG-AL35-0.5-1	11/21	1435	S	N									X												1
DG-AL35-3.5-4		1435	S	N									X												1
2 DG-P15-0.5-1		1510	S	Y	X			X		X		X	X									X	X		2
3 DG-P15-3.5-4		1510	S	Y	X			X		X		X	X								DO NOT RUN (MS)	X	X		2
4 DG-Z75-0.5-1		1620	S	N									X												1
5 DG-Z75-3.5-4		1620	S	N									X												1
6 DUP-01		—	S	N									X												1
7 DUP-02		—	S	Y	X			X		X		X	X										X		2

Page 80 of 86

Project Info.

Project Name/ #: Brisbane OU2
PO#:

Sample Receipt

of Containers:
Head Space:
Temp:

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: (10 Day) 5 Day 4 Day 3 Day 2 Day 1 Day Other:

Report: ☐ Routine ☐ Level 3 ☒ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

Urvashi Patel is TA PM
1,2,3-TCP only on 0.5-1 sump pts

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: 1640 Time	Signature: 18:30 Time	Signature Time
Miranda Kahrilas 11/21/18 Printed Name Date	Printed Name 11-21-18 Date	Printed Name Date
Geosyntec Company	TA PLS Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature: 16:40 Time	Signature: 11/21/18 Time	Signature Time
R. Rich 11-21-18 Printed Name Date	Janae 1830 Printed Name Date	Printed Name Date
TA PLS Company	TAPLS Company	Company

Rev.10/2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

720-89864

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756

Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 72013935

#186837

Date 11/21/18 Page 1 of 2

12/7/2018

Report To

Attn: Miranda Kahelias, Bill Chen, Tony Smith

Company: Geosyntec Consultants

Address: 2594 Bayshore Blvd

Email: mkahelias@geosyntec.com

Bill To: Geosyntec / Tony Smith

Sampled By: Miranda Kahelias

Attn:

Phone: 847-530-7602

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ☐ 624	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☒ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☒ EPA 8081A PCBs ☒ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	1,2,3-TCP (8260B-SIM)	Asbestos (CARB 435)	Number of Containers
DG-P9S-0.5-1	11/21/18	900	S	4	X			X		X		X	X										X	X	9
DG-P9S-3.5-4		900		4	X			X		X		X	X										X	X	9
DG-W13S-0.5-1		1030		N									X								Do Not Run		X	X	1
DG-W13S-3.5-4		1030		N									X												1
DG-AF13S-0.5-1		1210		4	X			X		X		X	X										X	X	9
DG-AF13S-3.5-4		1210		4	X			X		X		X	X										X	X	9
DG-AF13S-7-7.5		1210		4	X			X		X		X	X								Do Not Run		X	X	9
~~DG-AW9S-0.5-1~~		1310		N									X												1
~~DG-AW9S-3.5-4~~		1310		N									X												1
DG-AW7S-0.5-1																									1

DG-AW7S-3.5-4

Project Info.

Project Name/ #: Brisbane A/2

PO#: 72013935

Credit Card Y/N:

Sample Receipt

Head Space:

Temp: 1.3°C

If yes, please call with payment information ASAP

TAT: 10 Day (circled) | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Urvashi Patel is TA PM

Report: ☐ Routine ☐ Level 3 ☒ Level 4 ☐ EDD ☐ EDF

Special Instructions / Comments: ☐ Global ID

1,2,3-TCP only on shallow (0.5-1) samples

See Terms and Conditions on reverse

1) Relinquished by: Signature 1640 Time

Miranda Kahelias 11/21/18 Printed Name Date

Geosyntec Company

1) Received by: Signature 16:40 Time

RR Ico 11-21-18 Printed Name Date

TA PLS Company

2) Relinquished by: Signature 18:30 Time

RR Ico 11-21-18 Printed Name Date

TA PLS Company

2) Received by: Signature 11/21/18 Time

Jamar 1830 Printed Name Date

TAPLS Company

3) Relinquished by: Signature Time

Printed Date

Company

3) Received by: Signature Time

Printed Date

Company

720-89864 Chain of Custody

Rev.10/2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 72013935
#186837
Date 11/21/18 Page 2 of 2

12/7/2018

Report To

Attn: MIRANDA KAHRILAS BILL CHEN & TONY SMITH
Company: GEOSYNTEC CONSULTANTS
Address: 2549 BAYSHORE BLVD
Email: MKahrilas@geosyntec.com
Bill To: GEOSYNTEC
Sampled By: M. KAHRILAS
Attn: TONY SMITH
Phone: 347-530-7607

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GCMS (VOCs) EPA 8260B* GRO	HVOCs by EPA 8260B	EPA 8260B Gas BTEX 5 Oxygenates DCA EDB Ethanol	TEPH EPA 8015B Silica Gel Diesel Motor Oil Other	SemiVolatile Organics GCMS EPA 8270C	PNA/PAH's by 8270C 8270C SIM	Oil and Grease Petroleum (EPA 1664/9071) Total	Pesticides EPA 8081A PCBs EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: 6010B 200.7 Lead LUFT RCRA Other:	Metals: 6020 200.8 (ICP-MS):	WET (STLC) WET (DI) TCLP	Hex Chrom by EPA 7196 or EPA 7199	pH 9040 SM4500	Spec. Cond. Alkalinity TSS SS TDS	Anions . Cl SO4 NO3 F Br NO2 PO4	Perchlorate by EPA 314.0	COD EPA 410.4 SM5220D Turbidity	1,2,3-TCP (8260B-SIM)	Asbestos (CARB 435)	Number of Containers
1 DG-AL3S-0.5-1	11/21/18	1435	S	N									X												1
DG-AL3S-3.5-4		1435	S	N									X												1
2 DG-P1S-0.5-1		1510	S	Y	X			X		X		X	X										X	X	9
3 DG-P1S-3.5-4		1510	S	Y	X			X		X		X	X										X	X	9
4 DG-Z7S-0.5-1		1620	S	N									X								DON'T RUN	(GRO)	X	X	9
5 DG-Z7S-3.5-4		1620	S	N									X												6
6 DUP-01		—	S	N																					
7 DUP-02		—	S	Y	X			X		X		X	X											X	

Project Info.

Project Name/ #: Brisbane DU2
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

TAT: (10 Day) 5 Day 4 Day 3 Day 2 Day 1 Day Other:

Report: ☐ Routine ☐ Level 3 ☒ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
Urvashi Patel is TA PM
1,2,3-TCP only on 0.5-1 samples

See Terms and Conditions on reverse

Sample Receipt

of Containers:
Head Space:
Temp:

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature			
Time	1640	1830	
Printed Name	MIRANDA KAHRILAS	R. RICH	
Date	11/21/18	11-21-18	
Company	GEOSYNTEC	TA LCS	

	1) Received by:	2) Received by:	3) Received by:
Signature			
Time	16:40	11/21/18	
Printed Name	R.RICH	Janae	
Date	11-21-18	1830	
Company	TA PLS	TA PLS	

Rev.10/2012

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40323.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-89864-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/6/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU2	Project #: 72013935			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 8082 (PCBs)	8260B_LL/5035A_FW_7_Calc 8260B-VOCs Default_FW	8260B/CA_LUFTMS/5035A_FW_7_Calc 8260B-GRO (C4-C12)_FW	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-P9S-0.5-1 (720-89864-1)	11/21/18	09:00 Pacific		Solid			X	X	X	7	9 * in seperate cooler
DG-P9S-3.5-4 (720-89864-2)	11/21/18	09:00 Pacific		Solid			X	X	X	7	
DG-AF13S-0.5-1 (720-89864-5)	11/21/18	12:10 Pacific		Solid			X	X	X	7	
DG-AF13S-3 5-4 (720-89864-6)	11/21/18	12:10 Pacific		Solid			X	X	X	7	
DG-AF13S-7-7.5 (720-89864-7)	11/21/18	12:10 Pacific		Solid			X	X	X	7	
DG-P1S-0.5-1 (720-89864-12)	11/21/18	15:10 Pacific		Solid			X	X	X	7	
DG-P1S-3.5-4 (720-89864-13)	11/21/18	15:10 Pacific		Solid			X	X	X	7	
DUP-02 (720-89864-16)	11/21/18	Pacific		Solid			X	X	X	7	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 11/23/18 1612	Company: TAPS	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time: 11/24/18 0945	Company: TAPS
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4030 0270 3384		Cooler Temperature(s) °C and Other Remarks: 14.8/14.6 IR#1	Melting Ice	

Ver 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-89864-1

Login Number: 89864
List Number: 1
Creator: Perry, Janae R

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-89864-1

Login Number: 89864
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 11/26/18 04:37 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Refer to Job Narrative for details.
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-89864-1

Login Number: 89864
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 11/27/18 01:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90301-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
12/28/2018 8:43:13 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90301-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90301-1

Comments
No additional comments.

Receipt
The samples were received on 12/13/2018 7:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4º C and 1.0º C.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-256975 and analytical batch 720-257158 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-257158 was outside control limits Ba-63%, Co-46%, Cr-61%, Cu-53%, Ni-48%, Pb-44%, V-53%: (720-90301-A-1-C SD ^20)

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes Fe, Mn: DG-Y1S-0.5-1 (720-90301-1), DG-Y1S-3.5-4 (720-90301-2), DG-W1S-0.5-1 (720-90301-3), DG-W1S-3.5-4 (720-90301-4), DG-W1S-9-10 (720-90301-5), DG-U1S-0.5-1 (720-90301-6), DG-U1S-3.5-4 (720-90301-7), DG-S1S-0.5-1 (720-90301-8), DG-S1S-3.5-4 (720-90301-9), DG-Q1S-0.5-1 (720-90301-10), DG-Q1S-3.5-4 (720-90301-11), DG-O1S-0.5-1 (720-90301-12), DG-O1S-3.5-4 (720-90301-13), DG-N3S-0.5-1 (720-90301-14), DG-N3S-3.5-4 (720-90301-15), DG-P3S-0.5-1 (720-90301-16), DG-P3S-3.5-4 (720-90301-17), DG-R3S-0.5-1 (720-90301-18) and DG-R3S-3.5-4 (720-90301-19). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The method blank for preparation batch 720-256975 and analytical batch 720-257158 contained Ba & Pb above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-Y1S-0.5-1 — Lab Sample ID: 720-90301-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.9	J	2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	39	B F1	1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.092	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	9.8	F1 F2	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	96	F1	3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	17	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	10		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.65	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	56	F1	1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	44	F1 F2	3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y1S-3.5-4 — Lab Sample ID: 720-90301-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	32		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.32		0.20	0.066	mg/Kg	4		6010B	Total/NA
Cadmium	0.092	J	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	180		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	38		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	6.8	B	1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.16	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	210		1.0	0.10	mg/Kg	4		6010B	Total/NA
Silver	0.27	J	0.51	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	56		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	2.3		0.073	0.011	mg/Kg	5		7471A	Total/NA

Client Sample ID: DG-W1S-0.5-1 — Lab Sample ID: 720-90301-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.4		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	330		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	140	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.45		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	85		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	94		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	110	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	120		1.8	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.29	J	0.91	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	78		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	120		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	3.1		0.081	0.012	mg/Kg	5		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-W1S-3.5-4 — Lab Sample ID: 720-90301-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.7		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	15		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Chromium	95		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	27		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	3.4	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	110		1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	49		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.51		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W1S-9-10 — Lab Sample ID: 720-90301-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	49		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	46	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.78		0.27	0.087	mg/Kg	4		6010B	Total/NA
Chromium	37		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	42		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	9.4	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.17	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	40		1.3	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	92		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.057		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U1S-0.5-1 — Lab Sample ID: 720-90301-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	97		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	98	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.041	J	0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	76		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	48		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	28	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	83		1.6	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.22	J	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	71		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	1.2		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U1S-3.5-4 — Lab Sample ID: 720-90301-7

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U1S-3.5-4 (Continued) — Lab Sample ID: 720-90301-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	34		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	130	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.51		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.037	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	110		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	38		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	6.4	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	130		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	71		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.46		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S1S-0.5-1 — Lab Sample ID: 720-90301-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.59	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	18		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	41	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	11		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	93		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	53	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	15		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	84		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S1S-3.5-4 — Lab Sample ID: 720-90301-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	35		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	91	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.65		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.075	J	0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	76		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	55		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	17	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	64		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	82		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.22		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q1S-0.5-1 — Lab Sample ID: 720-90301-10

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q1S-0.5-1 (Continued) — Lab Sample ID: 720-90301-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	79		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	87	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.61		0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	25		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	100		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	120	B	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	28		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.58	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	210		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.37		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q1S-3.5-4 — Lab Sample ID: 720-90301-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	8.7		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	130	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.24		0.24	0.077	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	130		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	29		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	4.1	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	160		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	0.21	J	0.60	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	52		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.54		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O1S-0.5-1 — Lab Sample ID: 720-90301-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	28		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	48	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	8.2		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	130		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	150	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	8.9		1.6	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.25	J	0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	91		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	100		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-O1S-3.5-4 — Lab Sample ID: 720-90301-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	3.7		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	140	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.25		0.20	0.066	mg/Kg	4		6010B	Total/NA
Cadmium	0.086	J	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	120		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	30		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	4.7	B	1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	160		1.0	0.10	mg/Kg	4		6010B	Total/NA
Silver	0.15	J	0.51	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	49		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.66		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N3S-0.5-1 — Lab Sample ID: 720-90301-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	28		2.6	0.23	mg/Kg	4		6010B	Total/NA
Barium	51	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.63		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	13		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	7.4		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	120		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	160	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	10		1.3	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.24	J	0.66	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	150		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N3S-3.5-4 — Lab Sample ID: 720-90301-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.5		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	17		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	480	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	82		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	220		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	940	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.23	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	110		1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	1.7		0.54	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.1	0.15	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N3S-3.5-4 (Continued) — Lab Sample ID: 720-90301-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	660		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	12		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-P3S-0.5-1 — Lab Sample ID: 720-90301-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.0		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	250		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	160	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	2.3		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	25		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	120		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	380	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	31		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.66	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Silver	0.46	J	0.79	0.16	mg/Kg	4		6010B	Total/NA
Thallium	0.60	J	1.6	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	320		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.51		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P3S-3.5-4 — Lab Sample ID: 720-90301-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	140		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	64	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.32		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.072	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	47		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	36		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	20	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	66		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	61		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.77		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R3S-0.5-1 — Lab Sample ID: 720-90301-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.87	J	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	82		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	40	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	10		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	630		3.5	1.7	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R3S-0.5-1 (Continued)

Lab Sample ID: 720-90301-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	52	B	1.2	0.24	mg/Kg	4		6010B	Total/NA
Nickel	7.5		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	0.44	J	0.58	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	89		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	140		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.069		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R3S-3.5-4

Lab Sample ID: 720-90301-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	3.9		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	38	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.082	J	0.22	0.072	mg/Kg	4		6010B	Total/NA
Chromium	58		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	6.1		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	9.3		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	1.4	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	36		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.34	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Silver	0.16	J	0.56	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	22		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.023		0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y1S-0.5-1

Date Collected: 12/13/18 09:00
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	1.3	0.21	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Arsenic	**1.9**	**J**	2.6	0.22	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Barium	**39**	**B F1**	1.3	0.18	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Beryllium	ND		0.26	0.084	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Cadmium	**0.092**	**J**	0.32	0.032	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Chromium	**9.8**	**F1 F2**	1.3	0.14	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Cobalt	**6.2**		0.52	0.052	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Copper	**96**	**F1**	3.9	1.8	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Lead	**17**	**B**	1.3	0.27	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Molybdenum	ND		1.3	0.17	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Nickel	**10**		1.3	0.13	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Selenium	ND		2.6	0.39	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Silver	**0.13**	**J**	0.65	0.13	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Thallium	ND		1.3	0.37	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Vanadium	**56**	**F1**	1.3	0.18	mg/Kg		12/14/18 17:07	12/17/18 20:47	4
Zinc	**44**	**F1 F2**	3.9	1.6	mg/Kg		12/14/18 17:07	12/17/18 20:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.016	0.0023	mg/Kg		12/14/18 10:06	12/27/18 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.05	%			12/14/18 10:41	1

Client Sample ID: DG-Y1S-3.5-4

Date Collected: 12/13/18 09:05
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8		1.0	0.17	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Arsenic	32		2.0	0.17	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Barium	110	B	1.0	0.14	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Beryllium	0.32		0.20	0.066	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Cadmium	0.092	J	0.25	0.025	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Chromium	180		1.0	0.11	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Cobalt	22		0.41	0.041	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Copper	38		3.0	1.4	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Lead	6.8	B	1.0	0.21	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Molybdenum	0.16	J	1.0	0.13	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Nickel	210		1.0	0.10	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Selenium	ND		2.0	0.30	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Silver	0.27	J	0.51	0.10	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Thallium	ND		1.0	0.29	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Vanadium	66		1.0	0.14	mg/Kg		12/14/18 17:07	12/17/18 20:52	4
Zinc	56		3.0	1.3	mg/Kg		12/14/18 17:07	12/17/18 20:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.3		0.073	0.011	mg/Kg		12/14/18 10:06	12/27/18 15:54	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		0.1	0.05	%			12/14/18 10:41	1

Client Sample ID: DG-W1S-0.5-1

Date Collected: 12/13/18 10:45
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.4		1.8	0.30	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Arsenic	330		3.6	0.31	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Barium	140	B	1.8	0.26	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Beryllium	0.15	J	0.36	0.12	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Cadmium	0.45		0.45	0.045	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Chromium	85		1.8	0.19	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Cobalt	16		0.73	0.073	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Copper	94		5.5	2.6	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Lead	110	B	1.8	0.38	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Molybdenum	ND		1.8	0.23	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Nickel	120		1.8	0.19	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Selenium	ND		3.6	0.55	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Silver	0.29	J	0.91	0.18	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Thallium	ND		1.8	0.53	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Vanadium	78		1.8	0.25	mg/Kg		12/14/18 17:07	12/17/18 20:56	4
Zinc	120		5.5	2.3	mg/Kg		12/14/18 17:07	12/17/18 20:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.1		0.081	0.012	mg/Kg		12/14/18 10:06	12/27/18 15:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		0.1	0.05	%			12/14/18 10:41	1

Client Sample ID: DG-W1S-3.5-4

Date Collected: 12/13/18 10:48
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.7	0.29	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Arsenic	15		3.4	0.29	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Barium	120	B	1.7	0.24	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Beryllium	0.20	J	0.34	0.11	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Cadmium	ND		0.43	0.043	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Chromium	95		1.7	0.18	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Cobalt	14		0.69	0.069	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Copper	27		5.2	2.5	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Lead	3.4	B	1.7	0.36	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Molybdenum	ND		1.7	0.22	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Nickel	110		1.7	0.18	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Selenium	ND		3.4	0.52	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Silver	ND		0.86	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Thallium	ND		1.7	0.50	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Vanadium	62		1.7	0.23	mg/Kg		12/14/18 17:07	12/17/18 21:01	4
Zinc	49		5.2	2.2	mg/Kg		12/14/18 17:07	12/17/18 21:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.51		0.015	0.0021	mg/Kg		12/14/18 10:06	12/27/18 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.9		0.1	0.05	%			12/14/18 10:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-W1S-9-10

Date Collected: 12/13/18 10:53
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5		1.3	0.22	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Arsenic	49		2.7	0.23	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Barium	46	B	1.3	0.19	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Beryllium	0.78		0.27	0.087	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Cadmium	ND		0.33	0.033	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Chromium	37		1.3	0.14	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Cobalt	16		0.53	0.053	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Copper	42		4.0	1.9	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Lead	9.4	B	1.3	0.28	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Molybdenum	0.17	J	1.3	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Nickel	40		1.3	0.14	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Selenium	ND		2.7	0.40	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Silver	ND		0.67	0.13	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Thallium	ND		1.3	0.39	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Vanadium	45		1.3	0.18	mg/Kg		12/14/18 17:07	12/17/18 21:06	4
Zinc	92		4.0	1.7	mg/Kg		12/14/18 17:07	12/17/18 21:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.016	0.0023	mg/Kg		12/14/18 10:06	12/27/18 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1	0.05	%			12/14/18 10:41	1

Client Sample ID: DG-U1S-0.5-1

Date Collected: 12/13/18 11:37
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.6	0.27	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Arsenic	97		3.3	0.28	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Barium	98	B	1.6	0.23	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Beryllium	0.12	J	0.33	0.11	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Cadmium	0.041	J	0.41	0.040	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Chromium	76		1.6	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Cobalt	12		0.65	0.065	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Copper	48		4.9	2.3	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Lead	28	B	1.6	0.34	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Molybdenum	ND		1.6	0.21	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Nickel	83		1.6	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Selenium	ND		3.3	0.49	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Silver	0.22	J	0.81	0.16	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Thallium	ND		1.6	0.47	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Vanadium	41		1.6	0.22	mg/Kg		12/14/18 17:07	12/17/18 21:10	4
Zinc	71		4.9	2.1	mg/Kg		12/14/18 17:07	12/17/18 21:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.016	0.0023	mg/Kg		12/14/18 10:06	12/27/18 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		0.1	0.05	%			12/14/18 10:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-U1S-3.5-4

Date Collected: 12/13/18 11:39
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.4	0.24	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Arsenic	34		2.9	0.24	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Barium	130	B	1.4	0.20	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Beryllium	0.51		0.29	0.094	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Cadmium	0.037	J	0.36	0.036	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Chromium	110		1.4	0.15	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Cobalt	21		0.58	0.058	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Copper	38		4.3	2.0	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Lead	6.4	B	1.4	0.30	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Molybdenum	ND		1.4	0.18	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Nickel	130		1.4	0.15	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Selenium	ND		2.9	0.43	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Silver	ND		0.72	0.15	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Thallium	ND		1.4	0.42	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Vanadium	66		1.4	0.20	mg/Kg		12/14/18 17:07	12/17/18 21:15	4
Zinc	71		4.3	1.8	mg/Kg		12/14/18 17:07	12/17/18 21:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46		0.015	0.0022	mg/Kg		12/14/18 10:06	12/27/18 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.05	%			12/14/18 10:41	1

Client Sample ID: DG-S1S-0.5-1

Date Collected: 12/13/18 13:14
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.6	0.27	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Arsenic	18		3.2	0.27	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Barium	41	B	1.6	0.23	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Beryllium	ND		0.32	0.10	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Cadmium	ND		0.40	0.040	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Chromium	11		1.6	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Cobalt	9.5		0.65	0.065	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Copper	93		4.8	2.3	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Lead	53	B	1.6	0.34	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Molybdenum	ND		1.6	0.21	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Nickel	15		1.6	0.16	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Selenium	ND		3.2	0.48	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Silver	ND		0.81	0.16	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Thallium	ND		1.6	0.47	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Vanadium	72		1.6	0.22	mg/Kg		12/14/18 17:07	12/17/18 21:29	4
Zinc	84		4.8	2.0	mg/Kg		12/14/18 17:07	12/17/18 21:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.015	0.0022	mg/Kg		12/14/18 10:06	12/27/18 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.1		0.1	0.05	%			12/14/18 10:41	1

Client Sample ID: DG-S1S-3.5-4

Date Collected: 12/13/18 13:18
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.7	0.28	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Arsenic	35		3.4	0.29	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Barium	91	B	1.7	0.24	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Beryllium	0.65		0.34	0.11	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Cadmium	0.075	J	0.42	0.042	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Chromium	76		1.7	0.18	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Cobalt	16		0.68	0.068	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Copper	55		5.1	2.4	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Lead	17	B	1.7	0.36	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Molybdenum	0.27	J	1.7	0.22	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Nickel	64		1.7	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Selenium	ND		3.4	0.51	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Silver	ND		0.85	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Thallium	ND		1.7	0.49	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Vanadium	47		1.7	0.23	mg/Kg		12/14/18 17:07	12/17/18 21:34	4
Zinc	82		5.1	2.2	mg/Kg		12/14/18 17:07	12/17/18 21:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.016	0.0023	mg/Kg		12/14/18 10:06	12/27/18 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-Q1S-0.5-1

Date Collected: 12/13/18 13:38
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	J	1.9	0.32	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Arsenic	79		3.8	0.32	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Barium	87	B	1.9	0.27	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Beryllium	ND		0.38	0.12	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Cadmium	0.61		0.48	0.047	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Chromium	25		1.9	0.20	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Cobalt	9.9		0.76	0.076	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Copper	100		5.7	2.7	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Lead	120	B	1.9	0.40	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Molybdenum	1.2	J	1.9	0.24	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Nickel	28		1.9	0.19	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Selenium	0.58	J	3.8	0.57	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Silver	ND		0.95	0.19	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Thallium	ND		1.9	0.55	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Vanadium	79		1.9	0.26	mg/Kg		12/14/18 17:07	12/17/18 21:38	4
Zinc	210		5.7	2.4	mg/Kg		12/14/18 17:07	12/17/18 21:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.015	0.0023	mg/Kg		12/14/18 10:06	12/27/18 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.5		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-Q1S-3.5-4

Date Collected: 12/13/18 13:41
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.2	0.20	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Arsenic	8.7		2.4	0.20	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Barium	130	B	1.2	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Beryllium	0.24		0.24	0.077	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Cadmium	0.11	J	0.30	0.030	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Chromium	130		1.2	0.13	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Cobalt	18		0.48	0.048	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Copper	29		3.6	1.7	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Lead	4.1	B	1.2	0.25	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Molybdenum	ND		1.2	0.15	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Nickel	160		1.2	0.12	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Selenium	ND		2.4	0.36	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Silver	0.21	J	0.60	0.12	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Thallium	ND		1.2	0.35	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Vanadium	67		1.2	0.16	mg/Kg		12/14/18 17:07	12/17/18 21:43	4
Zinc	52		3.6	1.5	mg/Kg		12/14/18 17:07	12/17/18 21:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.54		0.015	0.0021	mg/Kg		12/14/18 10:06	12/27/18 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-O1S-0.5-1

Date Collected: 12/13/18 14:05
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.6	0.26	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Arsenic	28		3.1	0.26	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Barium	48	B	1.6	0.22	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Beryllium	ND		0.31	0.10	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Cadmium	0.20	J	0.39	0.038	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Chromium	8.2		1.6	0.16	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Cobalt	11		0.62	0.062	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Copper	130		4.7	2.2	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Lead	150	B	1.6	0.33	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Nickel	8.9		1.6	0.16	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Selenium	ND		3.1	0.47	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Silver	0.25	J	0.78	0.16	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Thallium	ND		1.6	0.45	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Vanadium	91		1.6	0.21	mg/Kg		12/14/18 17:07	12/17/18 21:47	4
Zinc	100		4.7	2.0	mg/Kg		12/14/18 17:07	12/17/18 21:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.015	0.0022	mg/Kg		12/14/18 10:06	12/27/18 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.6		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-O1S-3.5-4

Date Collected: 12/13/18 14:10
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.0	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Arsenic	3.7		2.0	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Barium	140	B	1.0	0.14	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Beryllium	0.25		0.20	0.066	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Cadmium	0.086	J	0.25	0.025	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Chromium	120		1.0	0.11	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Cobalt	18		0.41	0.041	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Copper	30		3.0	1.4	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Lead	4.7	B	1.0	0.21	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Molybdenum	1.6		1.0	0.13	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Nickel	160		1.0	0.10	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Selenium	ND		2.0	0.30	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Silver	0.15	J	0.51	0.10	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Thallium	ND		1.0	0.29	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Vanadium	57		1.0	0.14	mg/Kg		12/14/18 17:07	12/17/18 21:52	4
Zinc	49		3.0	1.3	mg/Kg		12/14/18 17:07	12/17/18 21:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.66		0.016	0.0023	mg/Kg		12/14/18 10:06	12/27/18 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-N3S-0.5-1

Date Collected: 12/13/18 14:28
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.3	0.22	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Arsenic	28		2.6	0.23	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Barium	51	B	1.3	0.19	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Beryllium	ND		0.26	0.086	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Cadmium	0.63		0.33	0.033	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Chromium	13		1.3	0.14	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Cobalt	7.4		0.53	0.053	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Copper	120		4.0	1.9	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Lead	160	B	1.3	0.28	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Molybdenum	0.25	J	1.3	0.17	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Nickel	10		1.3	0.14	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Selenium	ND		2.6	0.40	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Silver	0.24	J	0.66	0.13	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Thallium	ND		1.3	0.38	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Vanadium	69		1.3	0.18	mg/Kg		12/14/18 17:07	12/17/18 21:57	4
Zinc	150		4.0	1.7	mg/Kg		12/14/18 17:07	12/17/18 21:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.016	0.0024	mg/Kg		12/14/18 10:06	12/27/18 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.0		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-N3S-3.5-4

Date Collected: 12/13/18 14:32
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.5		1.1	0.18	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Arsenic	17		2.2	0.18	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Barium	480	B	1.1	0.15	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Beryllium	0.49		0.22	0.070	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Cadmium	1.5		0.27	0.027	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Chromium	82		1.1	0.11	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Cobalt	11		0.43	0.043	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Copper	220		3.2	1.5	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Lead	940	B	1.1	0.23	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Molybdenum	0.23	J	1.1	0.14	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Nickel	110		1.1	0.11	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Selenium	ND		2.2	0.32	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Silver	1.7		0.54	0.11	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Thallium	ND		1.1	0.31	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Vanadium	38		1.1	0.15	mg/Kg		12/14/18 17:07	12/17/18 22:01	4
Zinc	660		3.2	1.4	mg/Kg		12/14/18 17:07	12/17/18 22:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12		0.15	0.022	mg/Kg		12/14/18 10:06	12/27/18 18:19	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.6		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-P3S-0.5-1

Date Collected: 12/13/18 14:56
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0		1.6	0.26	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Arsenic	250		3.1	0.27	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Barium	160	B	1.6	0.22	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Beryllium	ND		0.31	0.10	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Cadmium	2.3		0.39	0.039	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Chromium	25		1.6	0.17	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Cobalt	7.1		0.63	0.063	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Copper	120		4.7	2.2	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Lead	380	B	1.6	0.33	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Molybdenum	0.35	J	1.6	0.20	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Nickel	31		1.6	0.16	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Selenium	0.66	J	3.1	0.47	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Silver	0.46	J	0.79	0.16	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Thallium	0.60	J	1.6	0.46	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Vanadium	27		1.6	0.21	mg/Kg		12/14/18 17:07	12/17/18 22:06	4
Zinc	320		4.7	2.0	mg/Kg		12/14/18 17:07	12/17/18 22:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.51		0.017	0.0025	mg/Kg		12/14/18 10:06	12/27/18 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-P3S-3.5-4

Date Collected: 12/13/18 14:59
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.4	0.24	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Arsenic	140		2.9	0.24	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Barium	64	B	1.4	0.20	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Beryllium	0.32		0.29	0.094	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Cadmium	0.072	J	0.36	0.036	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Chromium	47		1.4	0.15	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Cobalt	14		0.58	0.058	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Copper	36		4.3	2.0	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Lead	20	B	1.4	0.30	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Molybdenum	ND		1.4	0.18	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Nickel	66		1.4	0.15	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Selenium	ND		2.9	0.43	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Silver	ND		0.72	0.15	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Thallium	ND		1.4	0.42	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Vanadium	52		1.4	0.20	mg/Kg		12/14/18 17:07	12/17/18 22:11	4
Zinc	61		4.3	1.8	mg/Kg		12/14/18 17:07	12/17/18 22:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.77		0.015	0.0022	mg/Kg		12/14/18 10:06	12/27/18 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-R3S-0.5-1

Date Collected: 12/13/18 15:27
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.87	J	1.2	0.19	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Arsenic	82		2.3	0.20	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Barium	40	B	1.2	0.17	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Beryllium	ND		0.23	0.076	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Cadmium	0.26	J	0.29	0.029	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Chromium	10		1.2	0.12	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Cobalt	11		0.47	0.047	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Copper	630		3.5	1.7	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Lead	52	B	1.2	0.24	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Molybdenum	ND		1.2	0.15	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Nickel	7.5		1.2	0.12	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Selenium	ND		2.3	0.35	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Silver	0.44	J	0.58	0.12	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Thallium	ND		1.2	0.34	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Vanadium	89		1.2	0.16	mg/Kg		12/14/18 17:07	12/17/18 22:24	4
Zinc	140		3.5	1.5	mg/Kg		12/14/18 17:07	12/17/18 22:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.016	0.0024	mg/Kg		12/14/18 10:06	12/27/18 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.9		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-R3S-3.5-4

Date Collected: 12/13/18 15:30
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90301-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.1	0.18	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Arsenic	3.9		2.2	0.19	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Barium	38	B	1.1	0.16	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Beryllium	0.082	J	0.22	0.072	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Cadmium	ND		0.28	0.028	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Chromium	58		1.1	0.12	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Cobalt	6.1		0.44	0.044	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Copper	9.3		3.3	1.6	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Lead	1.4	B	1.1	0.23	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Molybdenum	ND		1.1	0.14	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Nickel	36		1.1	0.11	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Selenium	0.34	J	2.2	0.33	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Silver	0.16	J	0.56	0.11	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Thallium	ND		1.1	0.32	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Vanadium	44		1.1	0.15	mg/Kg		12/14/18 17:07	12/17/18 22:29	4
Zinc	22		3.3	1.4	mg/Kg		12/14/18 17:07	12/17/18 22:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.015	0.0023	mg/Kg		12/14/18 10:06	12/27/18 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			12/14/18 11:39	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-256975/1-A
Matrix: Solid
Analysis Batch: 257158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Arsenic	ND		1.0	0.085	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Barium	0.0820	J	0.50	0.071	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Beryllium	ND		0.10	0.033	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Cadmium	ND		0.13	0.012	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Chromium	ND		0.50	0.053	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Cobalt	ND		0.20	0.020	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Copper	ND		1.5	0.71	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Lead	0.125	J	0.50	0.11	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Nickel	ND		0.50	0.051	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Selenium	ND		1.0	0.15	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Silver	ND		0.25	0.051	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Thallium	ND		0.50	0.15	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Vanadium	ND		0.50	0.068	mg/Kg		12/14/18 17:07	12/17/18 19:55	1
Zinc	ND		1.5	0.64	mg/Kg		12/14/18 17:07	12/17/18 19:55	1

Lab Sample ID: LCS 720-256975/2-A
Matrix: Solid
Analysis Batch: 257158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.3		mg/Kg		91	80 - 120
Arsenic	50.0	45.0		mg/Kg		90	80 - 120
Barium	50.0	46.9		mg/Kg		94	80 - 120
Beryllium	50.0	46.9		mg/Kg		94	80 - 120
Cadmium	50.0	45.5		mg/Kg		91	80 - 120
Chromium	50.0	46.1		mg/Kg		92	80 - 120
Cobalt	50.0	46.2		mg/Kg		92	80 - 120
Copper	50.0	45.9		mg/Kg		92	80 - 120
Lead	50.0	46.1		mg/Kg		92	80 - 120
Molybdenum	50.0	46.2		mg/Kg		92	80 - 120
Nickel	50.0	46.0		mg/Kg		92	80 - 120
Selenium	50.0	43.6		mg/Kg		87	80 - 120
Silver	25.0	22.6		mg/Kg		90	80 - 120
Thallium	50.0	45.9		mg/Kg		92	80 - 120
Vanadium	50.0	46.2		mg/Kg		92	80 - 120
Zinc	50.0	45.6		mg/Kg		91	80 - 120

Lab Sample ID: 720-90301-1 MS
Matrix: Solid
Analysis Batch: 257158

Client Sample ID: DG-Y1S-0.5-1
Prep Type: Total/NA
Prep Batch: 256975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	32.1	6.84	F1	mg/Kg		21	75 - 125
Arsenic	1.9	J	32.1	34.6		mg/Kg		102	75 - 125
Barium	39	B F1	32.1	84.8	F1	mg/Kg		142	75 - 125
Beryllium	ND		32.1	33.4		mg/Kg		104	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90301-1 MS
Matrix: Solid
Analysis Batch: 257158

Client Sample ID: DG-Y1S-0.5-1
Prep Type: Total/NA
Prep Batch: 256975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.092	J	32.1	31.3		mg/Kg		97	75 - 125
Chromium	9.8	F1 F2	32.1	76.4	F1	mg/Kg		208	75 - 125
Cobalt	6.2		32.1	38.1		mg/Kg		100	75 - 125
Copper	96	F1	32.1	147	F1	mg/Kg		160	75 - 125
Lead	17	B	32.1	51.0		mg/Kg		106	75 - 125
Molybdenum	ND		32.1	29.8		mg/Kg		93	75 - 125
Nickel	10		32.1	46.3		mg/Kg		113	75 - 125
Selenium	ND		32.1	29.9		mg/Kg		93	75 - 125
Silver	0.13	J	16.0	16.9		mg/Kg		105	75 - 125
Thallium	ND		32.1	29.6		mg/Kg		92	75 - 125
Vanadium	56	F1	32.1	96.6	F1	mg/Kg		128	75 - 125
Zinc	44	F1 F2	32.1	79.1		mg/Kg		109	75 - 125

Lab Sample ID: 720-90301-1 MSD
Matrix: Solid
Analysis Batch: 257158

Client Sample ID: DG-Y1S-0.5-1
Prep Type: Total/NA
Prep Batch: 256975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	31.8	5.97	F1	mg/Kg		19	75 - 125	14	20
Arsenic	1.9	J	31.8	34.2		mg/Kg		101	75 - 125	1	20
Barium	39	B F1	31.8	79.6	F1	mg/Kg		127	75 - 125	6	20
Beryllium	ND		31.8	33.8		mg/Kg		106	75 - 125	1	20
Cadmium	0.092	J	31.8	31.3		mg/Kg		98	75 - 125	0	20
Chromium	9.8	F1 F2	31.8	42.9	F2	mg/Kg		104	75 - 125	56	20
Cobalt	6.2		31.8	37.9		mg/Kg		100	75 - 125	1	20
Copper	96	F1	31.8	140	F1	mg/Kg		139	75 - 125	5	20
Lead	17	B	31.8	51.4		mg/Kg		108	75 - 125	1	20
Molybdenum	ND		31.8	29.6		mg/Kg		93	75 - 125	0	20
Nickel	10		31.8	39.1		mg/Kg		91	75 - 125	17	20
Selenium	ND		31.8	30.4		mg/Kg		96	75 - 125	2	20
Silver	0.13	J	15.9	17.0		mg/Kg		106	75 - 125	0	20
Thallium	ND		31.8	29.4		mg/Kg		92	75 - 125	0	20
Vanadium	56	F1	31.8	93.7		mg/Kg		120	75 - 125	3	20
Zinc	44	F1 F2	31.8	199	F1 F2	mg/Kg		486	75 - 125	86	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-256982/1-A
Matrix: Solid
Analysis Batch: 257753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/14/18 10:06	12/27/18 14:47	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-256982/2-A
Matrix: Solid
Analysis Batch: 257753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.846		mg/Kg		102	80 - 120

Lab Sample ID: 720-90301-1 MS
Matrix: Solid
Analysis Batch: 257753

Client Sample ID: DG-Y1S-0.5-1
Prep Type: Total/NA
Prep Batch: 256982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.10		0.806	0.874		mg/Kg		96	75 - 125

Lab Sample ID: 720-90301-1 MSD
Matrix: Solid
Analysis Batch: 257753

Client Sample ID: DG-Y1S-0.5-1
Prep Type: Total/NA
Prep Batch: 256982

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.10		0.833	0.944		mg/Kg		101	75 - 125	8	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90281-D-1 DU
Matrix: Solid
Analysis Batch: 256987

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	20.1		19.3		%		4	20

Lab Sample ID: 720-90301-9 DU
Matrix: Solid
Analysis Batch: 256992

Client Sample ID: DG-S1S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.5		10.2		%		3	20

Metals

Prep Batch: 256975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90301-1	DG-Y1S-0.5-1	Total/NA	Solid	3050B	
720-90301-2	DG-Y1S-3.5-4	Total/NA	Solid	3050B	
720-90301-3	DG-W1S-0.5-1	Total/NA	Solid	3050B	
720-90301-4	DG-W1S-3.5-4	Total/NA	Solid	3050B	
720-90301-5	DG-W1S-9-10	Total/NA	Solid	3050B	
720-90301-6	DG-U1S-0.5-1	Total/NA	Solid	3050B	
720-90301-7	DG-U1S-3.5-4	Total/NA	Solid	3050B	
720-90301-8	DG-S1S-0.5-1	Total/NA	Solid	3050B	
720-90301-9	DG-S1S-3.5-4	Total/NA	Solid	3050B	
720-90301-10	DG-Q1S-0.5-1	Total/NA	Solid	3050B	
720-90301-11	DG-Q1S-3.5-4	Total/NA	Solid	3050B	
720-90301-12	DG-O1S-0.5-1	Total/NA	Solid	3050B	
720-90301-13	DG-O1S-3.5-4	Total/NA	Solid	3050B	
720-90301-14	DG-N3S-0.5-1	Total/NA	Solid	3050B	
720-90301-15	DG-N3S-3.5-4	Total/NA	Solid	3050B	
720-90301-16	DG-P3S-0.5-1	Total/NA	Solid	3050B	
720-90301-17	DG-P3S-3.5-4	Total/NA	Solid	3050B	
720-90301-18	DG-R3S-0.5-1	Total/NA	Solid	3050B	
720-90301-19	DG-R3S-3.5-4	Total/NA	Solid	3050B	
MB 720-256975/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-256975/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90301-1 MS	DG-Y1S-0.5-1	Total/NA	Solid	3050B	
720-90301-1 MSD	DG-Y1S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 256982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90301-1	DG-Y1S-0.5-1	Total/NA	Solid	7471A	
720-90301-2	DG-Y1S-3.5-4	Total/NA	Solid	7471A	
720-90301-3	DG-W1S-0.5-1	Total/NA	Solid	7471A	
720-90301-4	DG-W1S-3.5-4	Total/NA	Solid	7471A	
720-90301-5	DG-W1S-9-10	Total/NA	Solid	7471A	
720-90301-6	DG-U1S-0.5-1	Total/NA	Solid	7471A	
720-90301-7	DG-U1S-3.5-4	Total/NA	Solid	7471A	
720-90301-8	DG-S1S-0.5-1	Total/NA	Solid	7471A	
720-90301-9	DG-S1S-3.5-4	Total/NA	Solid	7471A	
720-90301-10	DG-Q1S-0.5-1	Total/NA	Solid	7471A	
720-90301-11	DG-Q1S-3.5-4	Total/NA	Solid	7471A	
720-90301-12	DG-O1S-0.5-1	Total/NA	Solid	7471A	
720-90301-13	DG-O1S-3.5-4	Total/NA	Solid	7471A	
720-90301-14	DG-N3S-0.5-1	Total/NA	Solid	7471A	
720-90301-15	DG-N3S-3.5-4	Total/NA	Solid	7471A	
720-90301-16	DG-P3S-0.5-1	Total/NA	Solid	7471A	
720-90301-17	DG-P3S-3.5-4	Total/NA	Solid	7471A	
720-90301-18	DG-R3S-0.5-1	Total/NA	Solid	7471A	
720-90301-19	DG-R3S-3.5-4	Total/NA	Solid	7471A	
MB 720-256982/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-256982/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90301-1 MS	DG-Y1S-0.5-1	Total/NA	Solid	7471A	
720-90301-1 MSD	DG-Y1S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Analysis Batch: 257158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90301-1	DG-Y1S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-2	DG-Y1S-3.5-4	Total/NA	Solid	6010B	256975
720-90301-3	DG-W1S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-4	DG-W1S-3.5-4	Total/NA	Solid	6010B	256975
720-90301-5	DG-W1S-9-10	Total/NA	Solid	6010B	256975
720-90301-6	DG-U1S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-7	DG-U1S-3.5-4	Total/NA	Solid	6010B	256975
720-90301-8	DG-S1S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-9	DG-S1S-3.5-4	Total/NA	Solid	6010B	256975
720-90301-10	DG-Q1S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-11	DG-Q1S-3.5-4	Total/NA	Solid	6010B	256975
720-90301-12	DG-O1S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-13	DG-O1S-3.5-4	Total/NA	Solid	6010B	256975
720-90301-14	DG-N3S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-15	DG-N3S-3.5-4	Total/NA	Solid	6010B	256975
720-90301-16	DG-P3S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-17	DG-P3S-3.5-4	Total/NA	Solid	6010B	256975
720-90301-18	DG-R3S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-19	DG-R3S-3.5-4	Total/NA	Solid	6010B	256975
MB 720-256975/1-A	Method Blank	Total/NA	Solid	6010B	256975
LCS 720-256975/2-A	Lab Control Sample	Total/NA	Solid	6010B	256975
720-90301-1 MS	DG-Y1S-0.5-1	Total/NA	Solid	6010B	256975
720-90301-1 MSD	DG-Y1S-0.5-1	Total/NA	Solid	6010B	256975

Analysis Batch: 257753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90301-1	DG-Y1S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-2	DG-Y1S-3.5-4	Total/NA	Solid	7471A	256982
720-90301-3	DG-W1S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-4	DG-W1S-3.5-4	Total/NA	Solid	7471A	256982
720-90301-5	DG-W1S-9-10	Total/NA	Solid	7471A	256982
720-90301-6	DG-U1S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-7	DG-U1S-3.5-4	Total/NA	Solid	7471A	256982
720-90301-8	DG-S1S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-9	DG-S1S-3.5-4	Total/NA	Solid	7471A	256982
720-90301-10	DG-Q1S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-11	DG-Q1S-3.5-4	Total/NA	Solid	7471A	256982
720-90301-12	DG-O1S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-13	DG-O1S-3.5-4	Total/NA	Solid	7471A	256982
720-90301-14	DG-N3S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-15	DG-N3S-3.5-4	Total/NA	Solid	7471A	256982
720-90301-16	DG-P3S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-17	DG-P3S-3.5-4	Total/NA	Solid	7471A	256982
720-90301-18	DG-R3S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-19	DG-R3S-3.5-4	Total/NA	Solid	7471A	256982
MB 720-256982/1-A	Method Blank	Total/NA	Solid	7471A	256982
LCS 720-256982/2-A	Lab Control Sample	Total/NA	Solid	7471A	256982
720-90301-1 MS	DG-Y1S-0.5-1	Total/NA	Solid	7471A	256982
720-90301-1 MSD	DG-Y1S-0.5-1	Total/NA	Solid	7471A	256982

General Chemistry

Analysis Batch: 256987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90301-1	DG-Y1S-0.5-1	Total/NA	Solid	Moisture	
720-90301-2	DG-Y1S-3.5-4	Total/NA	Solid	Moisture	
720-90301-3	DG-W1S-0.5-1	Total/NA	Solid	Moisture	
720-90301-4	DG-W1S-3.5-4	Total/NA	Solid	Moisture	
720-90301-5	DG-W1S-9-10	Total/NA	Solid	Moisture	
720-90301-6	DG-U1S-0.5-1	Total/NA	Solid	Moisture	
720-90301-7	DG-U1S-3.5-4	Total/NA	Solid	Moisture	
720-90301-8	DG-S1S-0.5-1	Total/NA	Solid	Moisture	
720-90281-D-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 256992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90301-9	DG-S1S-3.5-4	Total/NA	Solid	Moisture	
720-90301-10	DG-Q1S-0.5-1	Total/NA	Solid	Moisture	
720-90301-11	DG-Q1S-3.5-4	Total/NA	Solid	Moisture	
720-90301-12	DG-O1S-0.5-1	Total/NA	Solid	Moisture	
720-90301-13	DG-O1S-3.5-4	Total/NA	Solid	Moisture	
720-90301-14	DG-N3S-0.5-1	Total/NA	Solid	Moisture	
720-90301-15	DG-N3S-3.5-4	Total/NA	Solid	Moisture	
720-90301-16	DG-P3S-0.5-1	Total/NA	Solid	Moisture	
720-90301-17	DG-P3S-3.5-4	Total/NA	Solid	Moisture	
720-90301-18	DG-R3S-0.5-1	Total/NA	Solid	Moisture	
720-90301-19	DG-R3S-3.5-4	Total/NA	Solid	Moisture	
720-90301-9 DU	DG-S1S-3.5-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-Y1S-0.5-1

Lab Sample ID: 720-90301-1

Date Collected: 12/13/18 09:00

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 20:47	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 14:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256987	12/14/18 10:41	TNL	TAL PLS

Client Sample ID: DG-Y1S-3.5-4

Lab Sample ID: 720-90301-2

Date Collected: 12/13/18 09:05

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 20:52	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		5	257753	12/27/18 15:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256987	12/14/18 10:41	TNL	TAL PLS

Client Sample ID: DG-W1S-0.5-1

Lab Sample ID: 720-90301-3

Date Collected: 12/13/18 10:45

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 20:56	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		5	257753	12/27/18 15:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256987	12/14/18 10:41	TNL	TAL PLS

Client Sample ID: DG-W1S-3.5-4

Lab Sample ID: 720-90301-4

Date Collected: 12/13/18 10:48

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:01	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256987	12/14/18 10:41	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-W1S-9-10

Lab Sample ID: 720-90301-5

Date Collected: 12/13/18 10:53
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:06	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256987	12/14/18 10:41	TNL	TAL PLS

Client Sample ID: DG-U1S-0.5-1

Lab Sample ID: 720-90301-6

Date Collected: 12/13/18 11:37
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:10	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256987	12/14/18 10:41	TNL	TAL PLS

Client Sample ID: DG-U1S-3.5-4

Lab Sample ID: 720-90301-7

Date Collected: 12/13/18 11:39
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:15	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256987	12/14/18 10:41	TNL	TAL PLS

Client Sample ID: DG-S1S-0.5-1

Lab Sample ID: 720-90301-8

Date Collected: 12/13/18 13:14
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:29	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256987	12/14/18 10:41	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-S1S-3.5-4

Lab Sample ID: 720-90301-9

Date Collected: 12/13/18 13:18
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:34	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-Q1S-0.5-1

Lab Sample ID: 720-90301-10

Date Collected: 12/13/18 13:38
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:38	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-Q1S-3.5-4

Lab Sample ID: 720-90301-11

Date Collected: 12/13/18 13:41
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:43	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-O1S-0.5-1

Lab Sample ID: 720-90301-12

Date Collected: 12/13/18 14:05
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:47	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-O1S-3.5-4

Lab Sample ID: 720-90301-13

Date Collected: 12/13/18 14:10
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:52	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-N3S-0.5-1

Lab Sample ID: 720-90301-14

Date Collected: 12/13/18 14:28
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 21:57	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-N3S-3.5-4

Lab Sample ID: 720-90301-15

Date Collected: 12/13/18 14:32
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 22:01	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		10	257753	12/27/18 18:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-P3S-0.5-1

Lab Sample ID: 720-90301-16

Date Collected: 12/13/18 14:56
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 22:06	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Client Sample ID: DG-P3S-3.5-4

Lab Sample ID: 720-90301-17

Date Collected: 12/13/18 14:59
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 22:11	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-R3S-0.5-1

Lab Sample ID: 720-90301-18

Date Collected: 12/13/18 15:27
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 22:24	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-R3S-3.5-4

Lab Sample ID: 720-90301-19

Date Collected: 12/13/18 15:30
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256975	12/14/18 17:07	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257158	12/17/18 22:29	BKR	TAL PLS
Total/NA	Prep	7471A			256982	12/14/18 10:06	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257753	12/27/18 15:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90301-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90301-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90301-1	DG-Y1S-0.5-1	Solid	12/13/18 09:00	12/13/18 19:15
720-90301-2	DG-Y1S-3.5-4	Solid	12/13/18 09:05	12/13/18 19:15
720-90301-3	DG-W1S-0.5-1	Solid	12/13/18 10:45	12/13/18 19:15
720-90301-4	DG-W1S-3.5-4	Solid	12/13/18 10:48	12/13/18 19:15
720-90301-5	DG-W1S-9-10	Solid	12/13/18 10:53	12/13/18 19:15
720-90301-6	DG-U1S-0.5-1	Solid	12/13/18 11:37	12/13/18 19:15
720-90301-7	DG-U1S-3.5-4	Solid	12/13/18 11:39	12/13/18 19:15
720-90301-8	DG-S1S-0.5-1	Solid	12/13/18 13:14	12/13/18 19:15
720-90301-9	DG-S1S-3.5-4	Solid	12/13/18 13:18	12/13/18 19:15
720-90301-10	DG-Q1S-0.5-1	Solid	12/13/18 13:38	12/13/18 19:15
720-90301-11	DG-Q1S-3.5-4	Solid	12/13/18 13:41	12/13/18 19:15
720-90301-12	DG-O1S-0.5-1	Solid	12/13/18 14:05	12/13/18 19:15
720-90301-13	DG-O1S-3.5-4	Solid	12/13/18 14:10	12/13/18 19:15
720-90301-14	DG-N3S-0.5-1	Solid	12/13/18 14:28	12/13/18 19:15
720-90301-15	DG-N3S-3.5-4	Solid	12/13/18 14:32	12/13/18 19:15
720-90301-16	DG-P3S-0.5-1	Solid	12/13/18 14:56	12/13/18 19:15
720-90301-17	DG-P3S-3.5-4	Solid	12/13/18 14:59	12/13/18 19:15
720-90301-18	DG-R3S-0.5-1	Solid	12/13/18 15:27	12/13/18 19:15
720-90301-19	DG-R3S-3.5-4	Solid	12/13/18 15:30	12/13/18 19:15

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Monday, December 24, 2018 9:03 AM
To: Patel, Urvashi; Bill Chen; Bondoc, Christian M.
Cc: Anthony Smith
Subject: RE: TestAmerica sample confirmation files from 720-90301-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Urvashi,

Sorry for the back and forth, but **we do not need to analyze this sample.**

Thanks and sorry for the confusion,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Monday, December 24, 2018 8:44 AM
To: Bill Chen <BChen@Geosyntec.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Cc: Anthony Smith <TSmith@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>
Subject: RE: TestAmerica sample confirmation files from 720-90301-1 Brisbane OU-2 Data Gap Investigation

Thanks Bill. I've added the analysis.

Happy Holidays!

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bill Chen [mailto:BChen@Geosyntec.com]
Sent: Monday, December 24, 2018 8:37 AM
To: Patel, Urvashi; Bondoc, Christian M.
Cc: Anthony Smith; Miranda Kahrilas
Subject: RE: TestAmerica sample confirmation files from 720-90301-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Please analyze for Metals + Mercury.

Many thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Saturday, December 22, 2018 6:18 PM
To: Bill Chen <BChen@Geosyntec.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Cc: Anthony Smith <TSmith@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>
Subject: RE: TestAmerica sample confirmation files from 720-90301-1 Brisbane OU-2 Data Gap Investigation

Hi Bill
On the DG-R3S-5-6" did you want us to analyze for metals+Mercury or keep sample on hold?

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bill Chen [mailto:BChen@Geosyntec.com]
Sent: Monday, December 17, 2018 6:35 PM
To: Patel, Urvashi
Cc: Anthony Smith; Miranda Kahrilas
Subject: RE: TestAmerica sample confirmation files from 720-90301-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Urvashi,

I'll be reviewing these sample login summaries as they come in. Please do the following for me:

- Add me to the distribution list for all lab reports on this project.
- For lab sample # 720-90301-20, please change the client sample ID from "DG-R3S-5.0-6" to "DG-R3S-5-6".

Many thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

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===

From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Friday, December 14, 2018 11:16 AM
To: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: TestAmerica sample confirmation files from 720-90301-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90301-1; Brisbane OU-2 Data Gap Investigation

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [488740]
Attachments: 3

TestAmerica Pleasanton
1220 Quarry Lane
720-90301

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600 3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

157327

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12.13.18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90301 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1.	DG-Y1S-0.5-1	12.13	0900	G	S	1	N		X	
2.	DG-Y1S-3.5-4	12.13	0905	G	S	1	N		X	
3.	DG-W1S-0.5-1	12.13	1045	G	S	1	N		X	
4.	DG-W1S-3.5-4	12.13	1048	G	S	1	N		X	
5.	DG-W1S-9-10	12.13	1053	G	S	1	N		X	
6.	DG-U1S-0.5-1	12.13	1137	G	S	1	N		X	
7.	DG-U1S-3.5-4	12.13	1139	G	S	1	N		X	
8.	DG-S1S-0.5-1	12.13	1314	G	S	1	N		X	
9.	DG-S1S-3.5-4	12.13	1318	G	S	1	N		X	
10.	DG-Q1S-0.5-1	12.13	1338	G	S	1	N		X	
11.	DG-Q1S-3.5-4	12.13	1341	G	S	1	N		X	

Page 49 of 51

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.0°C, 0.4°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company: Geosyntec	Date/Time: 12/13/18 1600	Received by	Company: TA PLS	Date/Time: 12/13/18 16:03
Relinquished by	Company: TA PLS	Date/Time: 12-13-18 1915	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 12/13/18 1915

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

12/28/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90301

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187327
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-13-18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
12	DG-01S-0.5-1	12/13	1405	G	S	1	N		X	
13	DG-01S-3.5-4	12/13	1410	G	S	1	N		X	
14	DG-N3S-0.5-1	12/13	1428	G	S	1	N		X	
15	DG-N3S-3.5-4	12/13	1432	G	S	1	N		X	
16	DG-P3S-0.5-1	12/13	1456	G	S	1	N		X	
17	DG-P3S-3.5-4	12/13	1459	G	S	1	N		X	
18	DG-R3S-0.5-1	12/13	1527	G	S	1	N		X	
19	DG-R3S-3.5-4	12/13	1530	G	S	1	N		X	
20	DG-R3S-5.0-6	12/13	1535	G	S	1	N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd. _____ Therm ID No. _____		
Relinquished by	Company: GEOSYNTEC	Date/Time: 12/13/1605	Received by	Company: TA PLS	Date/Time: 12-13-18 16:03
Relinquished by	Company: TA PLS	Date/Time: 12-13-18 19:15	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 12/13/18 19:15

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

12/28/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90301-1

Login Number: 90301
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90302-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
12/27/2018 2:49:49 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90302-1

Job ID: 720-90302-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90302-1

Comments
Client will re-sample for sites in-which labels fell off the containers (see list below).

Receipt
The samples were received on 12/13/2018 7:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4° C and 1.0° C.

Receipt Exceptions

Sample labels popped off or slid off wet glass sample jars and one jar did not have a sample label:
#10) DG-R2S-3.5-4
#11) DG-R2S-4.5-5
#14) DUP-6
#17) DG-T2S-0.5-1
#20) DG-U2S-3.5-4
#21) DG-V2S-0.5-1

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC):(#9) DG-R2S-0.5-4. The container labels list DG-R2S-0.5-1 time 11:45 while the COC lists DG-R2S-0.5-4 time 11:45. Client was contacted and instructed to follow container label- DG-R2S-0.5-1.

Metals
Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 720-257180 contained Beryllium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-N2S-0.5-1 (720-90302-1), DG-N2S-3.5-4 (720-90302-2), DG-O2S-0.5-1 (720-90302-3), DG-O2S-3.5-4 (720-90302-4), DG-P2S-0.5-1 (720-90302-5), DG-P2S-3.5-4 (720-90302-6), DG-Q2S-0.5-1 (720-90302-7), DG-Q2S-3.5-4 (720-90302-8), DG-R2S-0.5-1 (720-90302-9), DG-S2S-0.5-1 (720-90302-12), DUP-5 (720-90302-13), DUP-7 (720-90302-15), DG-S2S-3.5-4 (720-90302-16), DG-T2S-3.5-4 (720-90302-18), DG-U2S-0.5-1 (720-90302-19) and DG-V2S-3.5-4 (720-90302-22). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90302-1

Client Sample ID: DG-N2S-0.5-1 — Lab Sample ID: 720-90302-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J B	1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	180		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	130		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.062	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	130		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	23		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	42		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	12		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.98	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	160		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	96		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.38		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N2S-3.5-4 — Lab Sample ID: 720-90302-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.7	B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	180		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	68		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.67		0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	23		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	130		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	170		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	25		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	86		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	140		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O2S-0.5-1 — Lab Sample ID: 720-90302-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6	B	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	28		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	51		1.4	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.44		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	19		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	160		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	72		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4		1.4	0.19	mg/Kg	4		6010B	Total/NA
Nickel	12		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	140		1.4	0.20	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O2S-0.5-1 (Continued) — Lab Sample ID: 720-90302-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	130		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.077		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O2S-3.5-4 — Lab Sample ID: 720-90302-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.90	J B	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	100		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	110		1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.080	J	0.20	0.066	mg/Kg	4		6010B	Total/NA
Chromium	130		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	27		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	5.9		1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.52	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	130		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	0.72	J	2.0	0.30	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	50		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	1.4		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P2S-0.5-1 — Lab Sample ID: 720-90302-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0	B	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	170		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	37		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	8.3		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	130		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	46		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.65	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	6.7		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.56	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	140		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	90		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.088		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P2S-3.5-4 — Lab Sample ID: 720-90302-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J B	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	78		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	350		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.91		0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.098	J	0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	42		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	50		5.9	2.8	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P2S-3.5-4 (Continued) — Lab Sample ID: 720-90302-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	24		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.83	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	56		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.98	J	3.9	0.59	mg/Kg	4		6010B	Total/NA
Vanadium	37		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	110		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.074		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q2S-0.5-1 — Lab Sample ID: 720-90302-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.3	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	46		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	79		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.56		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	18		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	150		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	2200		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.90	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	33		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	140		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q2S-3.5-4 — Lab Sample ID: 720-90302-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	140		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	59		1.9	0.27	mg/Kg	4		6010B	Total/NA
Chromium	68		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	16		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	22		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	53		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.70	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	34		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.33		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R2S-0.5-1 — Lab Sample ID: 720-90302-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.7	B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	210		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	110		1.6	0.22	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R2S-0.5-1 (Continued) — Lab Sample ID: 720-90302-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.43		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	86		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	130		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	150		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.85	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	98		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	80		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	160		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.98		0.032	0.0047	mg/Kg	2		7471A	Total/NA

Client Sample ID: DG-S2S-0.5-1 — Lab Sample ID: 720-90302-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.5	B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	290		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	74		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.50		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	18		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	260		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	390		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	20		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Silver	0.51	J	0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	150		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-5 — Lab Sample ID: 720-90302-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	260		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	45		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	10		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	130		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	120		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.60	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	12		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.7	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	180		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.074		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-7 — Lab Sample ID: 720-90302-15

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-7 (Continued) — Lab Sample ID: 720-90302-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.0	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	70		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.61		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	23		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	120		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	180		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	33		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	150		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S2S-3.5-4 — Lab Sample ID: 720-90302-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	66		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.45		0.24	0.079	mg/Kg	4		6010B	Total/NA
Chromium	65		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	10		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	4.2		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.37	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	44		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	24		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.037		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T2S-3.5-4 — Lab Sample ID: 720-90302-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.53	J B	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	3.5		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	130		1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.21	0.067	mg/Kg	4		6010B	Total/NA
Cadmium	0.030	J	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	100		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	35		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	11		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	4.4		1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.60	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	83		1.0	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.1	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	28		3.1	1.3	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T2S-3.5-4 (Continued) — Lab Sample ID: 720-90302-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.031		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U2S-0.5-1 — Lab Sample ID: 720-90302-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	28	B	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	17		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	110		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	35		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	190		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	2200		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	3.7		2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	51		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.9	0.59	mg/Kg	4		6010B	Total/NA
Vanadium	58		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	240		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.56		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V2S-3.5-4 — Lab Sample ID: 720-90302-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9	B F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	58	F1 F2	3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	41	F1	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.67		0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.16	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	32	F1	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	39	F1	5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	17		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.77	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	40	F1	1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	39	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	87	F1 F2	5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.21	F1	0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N2S-0.5-1

Date Collected: 12/13/18 09:25
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J B	1.5	0.26	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Arsenic	180		3.1	0.26	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Barium	130		1.5	0.22	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Beryllium	0.16	J	0.31	0.10	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Cadmium	0.062	J	0.38	0.038	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Chromium	130		1.5	0.16	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Cobalt	23		0.62	0.062	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Copper	42		4.6	2.2	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Lead	12		1.5	0.32	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Molybdenum	0.98	J	1.5	0.20	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Nickel	160		1.5	0.16	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Selenium	1.5	J	3.1	0.46	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Silver	ND		0.77	0.16	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Thallium	ND		1.5	0.45	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Vanadium	87		1.5	0.21	mg/Kg		12/14/18 09:28	12/18/18 10:27	4
Zinc	96		4.6	2.0	mg/Kg		12/14/18 09:28	12/18/18 10:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.015	0.0021	mg/Kg		12/14/18 10:43	12/17/18 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-N2S-3.5-4

Date Collected: 12/13/18 09:25
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	B	1.7	0.28	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Arsenic	180		3.3	0.28	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Barium	68		1.7	0.24	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Beryllium	0.13	J	0.33	0.11	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Cadmium	0.67		0.42	0.041	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Chromium	23		1.7	0.18	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Cobalt	12		0.67	0.067	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Copper	130		5.0	2.4	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Lead	170		1.7	0.35	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Molybdenum	1.3	J	1.7	0.21	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Nickel	25		1.7	0.17	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Selenium	1.5	J	3.3	0.50	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Silver	ND		0.83	0.17	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Thallium	ND		1.7	0.48	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Vanadium	86		1.7	0.23	mg/Kg		12/14/18 09:28	12/18/18 10:32	4
Zinc	140		5.0	2.1	mg/Kg		12/14/18 09:28	12/18/18 10:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.015	0.0023	mg/Kg		12/14/18 10:43	12/17/18 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.9		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-O2S-0.5-1

Date Collected: 12/13/18 10:00
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	B	1.4	0.24	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Arsenic	28		2.9	0.25	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Barium	51		1.4	0.21	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Beryllium	ND		0.29	0.094	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Cadmium	0.44		0.36	0.036	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Chromium	19		1.4	0.15	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Cobalt	13		0.58	0.058	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Copper	160		4.3	2.1	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Lead	72		1.4	0.30	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Molybdenum	1.4		1.4	0.19	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Nickel	12		1.4	0.15	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Selenium	2.0	J	2.9	0.43	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Silver	ND		0.72	0.15	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Thallium	ND		1.4	0.42	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Vanadium	140		1.4	0.20	mg/Kg		12/14/18 09:28	12/18/18 10:36	4
Zinc	130		4.3	1.8	mg/Kg		12/14/18 09:28	12/18/18 10:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.077		0.017	0.0025	mg/Kg		12/14/18 10:43	12/17/18 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-O2S-3.5-4

Date Collected: 12/13/18 10:00
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.90	J B	1.0	0.17	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Arsenic	100		2.0	0.17	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Barium	110		1.0	0.14	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Beryllium	0.080	J	0.20	0.066	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Cadmium	ND		0.25	0.025	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Chromium	130		1.0	0.11	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Cobalt	17		0.41	0.041	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Copper	27		3.0	1.4	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Lead	5.9		1.0	0.21	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Molybdenum	0.52	J	1.0	0.13	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Nickel	130		1.0	0.10	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Selenium	0.72	J	2.0	0.30	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Silver	ND		0.51	0.10	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Thallium	ND		1.0	0.29	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Vanadium	66		1.0	0.14	mg/Kg		12/14/18 09:28	12/18/18 10:50	4
Zinc	50		3.0	1.3	mg/Kg		12/14/18 09:28	12/18/18 10:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.016	0.0024	mg/Kg		12/14/18 10:43	12/17/18 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-P2S-0.5-1

Date Collected: 12/13/18 10:15
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	B	1.4	0.24	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Arsenic	170		2.9	0.24	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Barium	37		1.4	0.20	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Beryllium	ND		0.29	0.093	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Cadmium	0.13	J	0.36	0.035	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Chromium	8.3		1.4	0.15	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Cobalt	13		0.57	0.057	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Copper	130		4.3	2.0	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Lead	46		1.4	0.30	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Molybdenum	0.65	J	1.4	0.18	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Nickel	6.7		1.4	0.15	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Selenium	0.56	J	2.9	0.43	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Silver	ND		0.71	0.14	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Thallium	ND		1.4	0.41	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Vanadium	140		1.4	0.19	mg/Kg		12/14/18 09:28	12/18/18 10:55	4
Zinc	90		4.3	1.8	mg/Kg		12/14/18 09:28	12/18/18 10:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088		0.015	0.0022	mg/Kg		12/14/18 10:43	12/17/18 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-P2S-3.5-4

Date Collected: 12/13/18 10:15
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J B	2.0	0.33	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Arsenic	78		3.9	0.33	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Barium	350		2.0	0.28	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Beryllium	0.91		0.39	0.13	mg/Kg		12/14/18 09:28	12/21/18 14:17	4
Cadmium	0.098	J	0.49	0.049	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Chromium	42		2.0	0.21	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Cobalt	18		0.78	0.078	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Copper	50		5.9	2.8	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Lead	24		2.0	0.41	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Molybdenum	0.83	J	2.0	0.25	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Nickel	56		2.0	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Selenium	0.98	J	3.9	0.59	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Silver	ND		0.98	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Thallium	ND		2.0	0.57	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Vanadium	37		2.0	0.27	mg/Kg		12/14/18 09:28	12/18/18 11:00	4
Zinc	110		5.9	2.5	mg/Kg		12/14/18 09:28	12/18/18 11:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.017	0.0025	mg/Kg		12/14/18 10:43	12/17/18 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-Q2S-0.5-1

Date Collected: 12/13/18 11:15
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.3	B	1.9	0.31	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Arsenic	46		3.8	0.32	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Barium	79		1.9	0.27	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Beryllium	0.15	J	0.38	0.12	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Cadmium	0.56		0.47	0.047	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Chromium	18		1.9	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Cobalt	9.4		0.75	0.075	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Copper	150		5.7	2.7	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Lead	2200		1.9	0.40	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Molybdenum	0.90	J	1.9	0.24	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Nickel	33		1.9	0.19	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Selenium	1.5	J	3.8	0.57	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Silver	ND		0.94	0.19	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Thallium	ND		1.9	0.55	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Vanadium	43		1.9	0.26	mg/Kg		12/14/18 09:28	12/18/18 11:05	4
Zinc	140		5.7	2.4	mg/Kg		12/14/18 09:28	12/18/18 11:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.015	0.0022	mg/Kg		12/14/18 10:43	12/17/18 19:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1	0.05	%			12/14/18 11:39	1

Client Sample ID: DG-Q2S-3.5-4

Date Collected: 12/13/18 11:15
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5	B	1.9	0.31	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Arsenic	140		3.8	0.32	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Barium	59		1.9	0.27	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Beryllium	ND		0.38	0.12	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Cadmium	ND		0.47	0.047	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Chromium	68		1.9	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Cobalt	9.5		0.75	0.075	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Copper	16		5.7	2.7	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Lead	22		1.9	0.40	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Molybdenum	0.26	J	1.9	0.24	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Nickel	53		1.9	0.19	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Selenium	0.70	J	3.8	0.57	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Silver	ND		0.94	0.19	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Thallium	ND		1.9	0.55	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Vanadium	58		1.9	0.26	mg/Kg		12/14/18 09:28	12/18/18 11:09	4
Zinc	34		5.7	2.4	mg/Kg		12/14/18 09:28	12/18/18 11:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.33		0.015	0.0022	mg/Kg		12/14/18 10:43	12/17/18 19:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.05	%			12/14/18 12:32	1

Client Sample ID: DG-R2S-0.5-1

Date Collected: 12/13/18 11:45
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.7	B	1.6	0.26	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Arsenic	210		3.1	0.27	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Barium	110		1.6	0.22	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Beryllium	ND		0.31	0.10	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Cadmium	0.43		0.39	0.039	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Chromium	86		1.6	0.17	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Cobalt	16		0.63	0.063	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Copper	130		4.7	2.2	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Lead	150		1.6	0.33	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Molybdenum	0.85	J	1.6	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Nickel	98		1.6	0.16	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Selenium	1.4	J	3.1	0.47	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Silver	ND		0.78	0.16	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Thallium	ND		1.6	0.45	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Vanadium	80		1.6	0.21	mg/Kg		12/14/18 09:28	12/18/18 11:14	4
Zinc	160		4.7	2.0	mg/Kg		12/14/18 09:28	12/18/18 11:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.98		0.032	0.0047	mg/Kg		12/14/18 10:43	12/17/18 19:51	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.05	%			12/14/18 12:32	1

Client Sample ID: DG-S2S-0.5-1

Date Collected: 12/13/18 13:25
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.5	B	1.6	0.26	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Arsenic	290		3.1	0.26	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Barium	74		1.6	0.22	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Beryllium	ND		0.31	0.10	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Cadmium	0.50		0.39	0.038	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Chromium	18		1.6	0.16	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Cobalt	9.2		0.62	0.062	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Copper	260		4.7	2.2	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Lead	390		1.6	0.33	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Molybdenum	1.1	J	1.6	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Nickel	20		1.6	0.16	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Selenium	1.4	J	3.1	0.47	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Silver	0.51	J	0.78	0.16	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Thallium	ND		1.6	0.45	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Vanadium	53		1.6	0.21	mg/Kg		12/14/18 09:28	12/18/18 11:19	4
Zinc	150		4.7	2.0	mg/Kg		12/14/18 09:28	12/18/18 11:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.017	0.0025	mg/Kg		12/14/18 10:43	12/17/18 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.8		0.1	0.05	%			12/14/18 12:32	1

Client Sample ID: DUP-5

Date Collected: 12/13/18 00:00
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8	B	1.8	0.30	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Arsenic	260		3.7	0.31	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Barium	45		1.8	0.26	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Beryllium	ND		0.37	0.12	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Cadmium	0.26	J	0.46	0.046	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Chromium	10		1.8	0.19	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Cobalt	12		0.73	0.073	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Copper	130		5.5	2.6	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Lead	120		1.8	0.39	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Molybdenum	0.60	J	1.8	0.23	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Nickel	12		1.8	0.19	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Selenium	1.1	J	3.7	0.55	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Silver	ND		0.92	0.19	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Thallium	ND		1.8	0.53	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Vanadium	120		1.8	0.25	mg/Kg		12/14/18 09:28	12/18/18 11:24	4
Zinc	180		5.5	2.3	mg/Kg		12/14/18 09:28	12/18/18 11:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.015	0.0022	mg/Kg		12/14/18 10:43	12/17/18 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1	0.05	%			12/14/18 12:32	1

Client Sample ID: DUP-7

Date Collected: 12/13/18 00:00
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0	B	1.9	0.31	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Arsenic	16		3.8	0.32	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Barium	70		1.9	0.27	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Beryllium	0.15	J	0.38	0.12	mg/Kg		12/14/18 09:28	12/21/18 14:22	4
Cadmium	0.61		0.47	0.047	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Chromium	23		1.9	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Cobalt	11		0.75	0.075	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Copper	120		5.7	2.7	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Lead	180		1.9	0.40	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Molybdenum	1.5	J	1.9	0.24	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Nickel	33		1.9	0.19	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Selenium	1.3	J	3.8	0.57	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Silver	ND		0.94	0.19	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Thallium	ND		1.9	0.55	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Vanadium	72		1.9	0.26	mg/Kg		12/14/18 09:28	12/18/18 11:28	4
Zinc	150		5.7	2.4	mg/Kg		12/14/18 09:28	12/18/18 11:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.014	0.0021	mg/Kg		12/14/18 10:43	12/17/18 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		0.1	0.05	%			12/14/18 12:32	1

Client Sample ID: DG-S2S-3.5-4

Date Collected: 12/13/18 13:25
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.2	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Arsenic	**2.7**		2.4	0.21	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Barium	**66**		1.2	0.17	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Beryllium	**0.45**		0.24	0.079	mg/Kg		12/14/18 09:28	12/21/18 14:26	4
Cadmium	ND		0.30	0.030	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Chromium	**65**		1.2	0.13	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Cobalt	**8.9**		0.48	0.048	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Copper	**10**		3.6	1.7	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Lead	**4.2**		1.2	0.25	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Molybdenum	**0.37**	**J**	1.2	0.16	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Nickel	**44**		1.2	0.12	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Selenium	**1.1**	**J**	2.4	0.36	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Silver	ND		0.61	0.12	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Thallium	ND		1.2	0.35	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Vanadium	**49**		1.2	0.16	mg/Kg		12/14/18 09:28	12/18/18 11:33	4
Zinc	**24**		3.6	1.5	mg/Kg		12/14/18 09:28	12/18/18 11:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.037**		0.015	0.0023	mg/Kg		12/14/18 10:43	12/17/18 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.05	%			12/14/18 12:32	1

Client Sample ID: DG-T2S-3.5-4

Date Collected: 12/13/18 13:40
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J B	1.0	0.17	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Arsenic	3.5		2.1	0.18	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Barium	130		1.0	0.15	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Beryllium	0.12	J	0.21	0.067	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Cadmium	0.030	J	0.26	0.026	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Chromium	100		1.0	0.11	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Cobalt	35		0.41	0.041	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Copper	11		3.1	1.5	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Lead	4.4		1.0	0.22	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Molybdenum	0.60	J	1.0	0.13	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Nickel	83		1.0	0.11	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Selenium	1.2	J	2.1	0.31	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Silver	ND		0.52	0.10	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Thallium	ND		1.0	0.30	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Vanadium	70		1.0	0.14	mg/Kg		12/14/18 09:28	12/18/18 11:47	4
Zinc	28		3.1	1.3	mg/Kg		12/14/18 09:28	12/18/18 11:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.016	0.0024	mg/Kg		12/14/18 10:43	12/17/18 20:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			12/14/18 12:32	1

Client Sample ID: DG-U2S-0.5-1

Date Collected: 12/13/18 13:55
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	28	B	2.0	0.33	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Arsenic	17		3.9	0.33	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Barium	110		2.0	0.28	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Beryllium	ND		0.39	0.13	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Cadmium	1.2		0.49	0.049	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Chromium	35		2.0	0.21	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Cobalt	11		0.78	0.078	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Copper	190		5.9	2.8	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Lead	2200		2.0	0.41	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Molybdenum	3.7		2.0	0.25	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Nickel	51		2.0	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Selenium	1.3	J	3.9	0.59	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Silver	ND		0.98	0.20	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Thallium	ND		2.0	0.57	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Vanadium	58		2.0	0.27	mg/Kg		12/14/18 09:28	12/18/18 11:52	4
Zinc	240		5.9	2.5	mg/Kg		12/14/18 09:28	12/18/18 11:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.56		0.017	0.0025	mg/Kg		12/14/18 10:43	12/17/18 20:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.1	0.05	%			12/14/18 12:32	1

Client Sample ID: DG-V2S-3.5-4

Date Collected: 12/13/18 14:10
Date Received: 12/13/18 19:15

Lab Sample ID: 720-90302-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9	B F1	1.9	0.32	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Arsenic	58	F1 F2	3.8	0.33	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Barium	41	F1	1.9	0.27	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Beryllium	0.67		0.38	0.13	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Cadmium	0.16	J	0.48	0.048	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Chromium	32	F1	1.9	0.20	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Cobalt	19		0.77	0.077	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Copper	39	F1	5.8	2.7	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Lead	17		1.9	0.40	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Molybdenum	0.77	J	1.9	0.25	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Nickel	40	F1	1.9	0.20	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Selenium	1.2	J	3.8	0.58	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Silver	ND		0.96	0.19	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Thallium	ND		1.9	0.56	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Vanadium	39	F1	1.9	0.26	mg/Kg		12/14/18 09:28	12/18/18 10:22	4
Zinc	87	F1 F2	5.8	2.4	mg/Kg		12/14/18 09:28	12/18/18 10:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21	F1	0.014	0.0021	mg/Kg		12/14/18 10:43	12/17/18 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.1		0.1	0.05	%			12/14/18 12:32	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-256979/1-A
Matrix: Solid
Analysis Batch: 257180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.110	J	0.50	0.083	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Arsenic	ND		1.0	0.085	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Barium	ND		0.50	0.071	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Beryllium	ND		0.10	0.033	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Cadmium	ND		0.13	0.012	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Chromium	ND		0.50	0.053	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Cobalt	ND		0.20	0.020	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Copper	ND		1.5	0.71	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Lead	ND		0.50	0.11	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Nickel	ND		0.50	0.051	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Selenium	ND		1.0	0.15	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Silver	ND		0.25	0.051	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Thallium	ND		0.50	0.15	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Vanadium	ND		0.50	0.068	mg/Kg		12/14/18 09:28	12/18/18 09:54	1
Zinc	ND		1.5	0.64	mg/Kg		12/14/18 09:28	12/18/18 09:54	1

Lab Sample ID: LCS 720-256979/2-A
Matrix: Solid
Analysis Batch: 257180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.8		mg/Kg		100	80 - 120
Arsenic	50.0	49.7		mg/Kg		99	80 - 120
Barium	50.0	50.7		mg/Kg		101	80 - 120
Beryllium	50.0	50.0		mg/Kg		100	80 - 120
Cadmium	50.0	50.2		mg/Kg		100	80 - 120
Chromium	50.0	50.7		mg/Kg		101	80 - 120
Cobalt	50.0	50.9		mg/Kg		102	80 - 120
Copper	50.0	50.3		mg/Kg		101	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Molybdenum	50.0	50.7		mg/Kg		101	80 - 120
Nickel	50.0	50.6		mg/Kg		101	80 - 120
Selenium	50.0	48.7		mg/Kg		97	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	50.8		mg/Kg		102	80 - 120
Vanadium	50.0	50.9		mg/Kg		102	80 - 120
Zinc	50.0	49.8		mg/Kg		100	80 - 120

Lab Sample ID: 720-90302-22 MS
Matrix: Solid
Analysis Batch: 257180

Client Sample ID: DG-V2S-3.5-4
Prep Type: Total/NA
Prep Batch: 256979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.9	B F1	47.6	17.4	F1	mg/Kg		33	75 - 125
Arsenic	58	F1 F2	47.6	112		mg/Kg		112	75 - 125
Barium	41	F1	47.6	110	F1	mg/Kg		144	75 - 125
Beryllium	0.67		47.6	59.4		mg/Kg		123	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90302-22 MS
Matrix: Solid
Analysis Batch: 257180

Client Sample ID: DG-V2S-3.5-4
Prep Type: Total/NA
Prep Batch: 256979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.16	J	47.6	53.9		mg/Kg		113	75 - 125
Chromium	32	F1	47.6	98.5	F1	mg/Kg		139	75 - 125
Cobalt	19		47.6	77.0		mg/Kg		122	75 - 125
Copper	39	F1	47.6	118	F1	mg/Kg		166	75 - 125
Lead	17		47.6	68.8		mg/Kg		108	75 - 125
Molybdenum	0.77	J	47.6	51.7		mg/Kg		107	75 - 125
Nickel	40	F1	47.6	100	F1	mg/Kg		126	75 - 125
Selenium	1.2	J	47.6	52.1		mg/Kg		107	75 - 125
Silver	ND		23.8	27.1		mg/Kg		114	75 - 125
Thallium	ND		47.6	50.6		mg/Kg		106	75 - 125
Vanadium	39	F1	47.6	108	F1	mg/Kg		145	75 - 125
Zinc	87	F1 F2	47.6	169	F1	mg/Kg		172	75 - 125

Lab Sample ID: 720-90302-22 MSD
Matrix: Solid
Analysis Batch: 257180

Client Sample ID: DG-V2S-3.5-4
Prep Type: Total/NA
Prep Batch: 256979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.9	B F1	48.1	17.5	F1	mg/Kg		32	75 - 125	0	20
Arsenic	58	F1 F2	48.1	86.4	F1 F2	mg/Kg		59	75 - 125	25	20
Barium	41	F1	48.1	96.7		mg/Kg		115	75 - 125	13	20
Beryllium	0.67		48.1	59.0		mg/Kg		121	75 - 125	1	20
Cadmium	0.16	J	48.1	53.3		mg/Kg		111	75 - 125	1	20
Chromium	32	F1	48.1	94.0	F1	mg/Kg		128	75 - 125	5	20
Cobalt	19		48.1	71.6		mg/Kg		110	75 - 125	7	20
Copper	39	F1	48.1	99.1		mg/Kg		125	75 - 125	18	20
Lead	17		48.1	64.4		mg/Kg		98	75 - 125	7	20
Molybdenum	0.77	J	48.1	51.7		mg/Kg		106	75 - 125	0	20
Nickel	40	F1	48.1	93.7		mg/Kg		112	75 - 125	6	20
Selenium	1.2	J	48.1	52.6		mg/Kg		107	75 - 125	1	20
Silver	ND		24.0	27.5		mg/Kg		114	75 - 125	2	20
Thallium	ND		48.1	49.8		mg/Kg		104	75 - 125	2	20
Vanadium	39	F1	48.1	102	F1	mg/Kg		132	75 - 125	6	20
Zinc	87	F1 F2	48.1	134	F2	mg/Kg		99	75 - 125	23	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-256988/1-A
Matrix: Solid
Analysis Batch: 257239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/14/18 10:43	12/17/18 17:27	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-256988/2-A
Matrix: Solid
Analysis Batch: 257239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256988

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.716		mg/Kg		86	80 - 120		

Lab Sample ID: 720-90302-22 MS
Matrix: Solid
Analysis Batch: 257239

Client Sample ID: DG-V2S-3.5-4
Prep Type: Total/NA
Prep Batch: 256988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.21	F1	0.714	0.705	F1	mg/Kg		69	75 - 125		

Lab Sample ID: 720-90302-22 MSD
Matrix: Solid
Analysis Batch: 257239

Client Sample ID: DG-V2S-3.5-4
Prep Type: Total/NA
Prep Batch: 256988

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.21	F1	0.714	0.690	F1	mg/Kg		67	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90301-A-9 DU
Matrix: Solid
Analysis Batch: 256992

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.5			10.2		%				3	20

Lab Sample ID: 720-90302-8 DU
Matrix: Solid
Analysis Batch: 257001

Client Sample ID: DG-Q2S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.5			9.7		%				2	20

Lab Sample ID: 720-90302-22 DU
Matrix: Solid
Analysis Batch: 257001

Client Sample ID: DG-V2S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	6.1			6.8		%				11	20

Metals

Prep Batch: 256979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90302-1	DG-N2S-0.5-1	Total/NA	Solid	3050B	
720-90302-2	DG-N2S-3.5-4	Total/NA	Solid	3050B	
720-90302-3	DG-O2S-0.5-1	Total/NA	Solid	3050B	
720-90302-4	DG-O2S-3.5-4	Total/NA	Solid	3050B	
720-90302-5	DG-P2S-0.5-1	Total/NA	Solid	3050B	
720-90302-6	DG-P2S-3.5-4	Total/NA	Solid	3050B	
720-90302-7	DG-Q2S-0.5-1	Total/NA	Solid	3050B	
720-90302-8	DG-Q2S-3.5-4	Total/NA	Solid	3050B	
720-90302-9	DG-R2S-0.5-1	Total/NA	Solid	3050B	
720-90302-12	DG-S2S-0.5-1	Total/NA	Solid	3050B	
720-90302-13	DUP-5	Total/NA	Solid	3050B	
720-90302-15	DUP-7	Total/NA	Solid	3050B	
720-90302-16	DG-S2S-3.5-4	Total/NA	Solid	3050B	
720-90302-18	DG-T2S-3.5-4	Total/NA	Solid	3050B	
720-90302-19	DG-U2S-0.5-1	Total/NA	Solid	3050B	
720-90302-22	DG-V2S-3.5-4	Total/NA	Solid	3050B	
MB 720-256979/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-256979/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90302-22 MS	DG-V2S-3.5-4	Total/NA	Solid	3050B	
720-90302-22 MSD	DG-V2S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 256988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90302-1	DG-N2S-0.5-1	Total/NA	Solid	7471A	
720-90302-2	DG-N2S-3.5-4	Total/NA	Solid	7471A	
720-90302-3	DG-O2S-0.5-1	Total/NA	Solid	7471A	
720-90302-4	DG-O2S-3.5-4	Total/NA	Solid	7471A	
720-90302-5	DG-P2S-0.5-1	Total/NA	Solid	7471A	
720-90302-6	DG-P2S-3.5-4	Total/NA	Solid	7471A	
720-90302-7	DG-Q2S-0.5-1	Total/NA	Solid	7471A	
720-90302-8	DG-Q2S-3.5-4	Total/NA	Solid	7471A	
720-90302-9	DG-R2S-0.5-1	Total/NA	Solid	7471A	
720-90302-12	DG-S2S-0.5-1	Total/NA	Solid	7471A	
720-90302-13	DUP-5	Total/NA	Solid	7471A	
720-90302-15	DUP-7	Total/NA	Solid	7471A	
720-90302-16	DG-S2S-3.5-4	Total/NA	Solid	7471A	
720-90302-18	DG-T2S-3.5-4	Total/NA	Solid	7471A	
720-90302-19	DG-U2S-0.5-1	Total/NA	Solid	7471A	
720-90302-22	DG-V2S-3.5-4	Total/NA	Solid	7471A	
MB 720-256988/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-256988/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90302-22 MS	DG-V2S-3.5-4	Total/NA	Solid	7471A	
720-90302-22 MSD	DG-V2S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 257180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90302-1	DG-N2S-0.5-1	Total/NA	Solid	6010B	256979
720-90302-2	DG-N2S-3.5-4	Total/NA	Solid	6010B	256979
720-90302-3	DG-O2S-0.5-1	Total/NA	Solid	6010B	256979
720-90302-4	DG-O2S-3.5-4	Total/NA	Solid	6010B	256979
720-90302-5	DG-P2S-0.5-1	Total/NA	Solid	6010B	256979

Metals (Continued)

Analysis Batch: 257180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90302-6	DG-P2S-3.5-4	Total/NA	Solid	6010B	256979
720-90302-7	DG-Q2S-0.5-1	Total/NA	Solid	6010B	256979
720-90302-8	DG-Q2S-3.5-4	Total/NA	Solid	6010B	256979
720-90302-9	DG-R2S-0.5-1	Total/NA	Solid	6010B	256979
720-90302-12	DG-S2S-0.5-1	Total/NA	Solid	6010B	256979
720-90302-13	DUP-5	Total/NA	Solid	6010B	256979
720-90302-15	DUP-7	Total/NA	Solid	6010B	256979
720-90302-16	DG-S2S-3.5-4	Total/NA	Solid	6010B	256979
720-90302-18	DG-T2S-3.5-4	Total/NA	Solid	6010B	256979
720-90302-19	DG-U2S-0.5-1	Total/NA	Solid	6010B	256979
720-90302-22	DG-V2S-3.5-4	Total/NA	Solid	6010B	256979
MB 720-256979/1-A	Method Blank	Total/NA	Solid	6010B	256979
LCS 720-256979/2-A	Lab Control Sample	Total/NA	Solid	6010B	256979
720-90302-22 MS	DG-V2S-3.5-4	Total/NA	Solid	6010B	256979
720-90302-22 MSD	DG-V2S-3.5-4	Total/NA	Solid	6010B	256979

Analysis Batch: 257239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90302-1	DG-N2S-0.5-1	Total/NA	Solid	7471A	256988
720-90302-2	DG-N2S-3.5-4	Total/NA	Solid	7471A	256988
720-90302-3	DG-O2S-0.5-1	Total/NA	Solid	7471A	256988
720-90302-4	DG-O2S-3.5-4	Total/NA	Solid	7471A	256988
720-90302-5	DG-P2S-0.5-1	Total/NA	Solid	7471A	256988
720-90302-22	DG-V2S-3.5-4	Total/NA	Solid	7471A	256988
MB 720-256988/1-A	Method Blank	Total/NA	Solid	7471A	256988
LCS 720-256988/2-A	Lab Control Sample	Total/NA	Solid	7471A	256988
720-90302-22 MS	DG-V2S-3.5-4	Total/NA	Solid	7471A	256988
720-90302-22 MSD	DG-V2S-3.5-4	Total/NA	Solid	7471A	256988

Analysis Batch: 257240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90302-6	DG-P2S-3.5-4	Total/NA	Solid	7471A	256988
720-90302-7	DG-Q2S-0.5-1	Total/NA	Solid	7471A	256988
720-90302-8	DG-Q2S-3.5-4	Total/NA	Solid	7471A	256988
720-90302-9	DG-R2S-0.5-1	Total/NA	Solid	7471A	256988
720-90302-12	DG-S2S-0.5-1	Total/NA	Solid	7471A	256988
720-90302-13	DUP-5	Total/NA	Solid	7471A	256988
720-90302-15	DUP-7	Total/NA	Solid	7471A	256988
720-90302-16	DG-S2S-3.5-4	Total/NA	Solid	7471A	256988
720-90302-18	DG-T2S-3.5-4	Total/NA	Solid	7471A	256988
720-90302-19	DG-U2S-0.5-1	Total/NA	Solid	7471A	256988

Analysis Batch: 257465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90302-6	DG-P2S-3.5-4	Total/NA	Solid	6010B	256979
720-90302-15	DUP-7	Total/NA	Solid	6010B	256979
720-90302-16	DG-S2S-3.5-4	Total/NA	Solid	6010B	256979

General Chemistry

Analysis Batch: 256992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90302-1	DG-N2S-0.5-1	Total/NA	Solid	Moisture	
720-90302-2	DG-N2S-3.5-4	Total/NA	Solid	Moisture	
720-90302-3	DG-O2S-0.5-1	Total/NA	Solid	Moisture	
720-90302-4	DG-O2S-3.5-4	Total/NA	Solid	Moisture	
720-90302-5	DG-P2S-0.5-1	Total/NA	Solid	Moisture	
720-90302-6	DG-P2S-3.5-4	Total/NA	Solid	Moisture	
720-90302-7	DG-Q2S-0.5-1	Total/NA	Solid	Moisture	
720-90301-A-9 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90302-8	DG-Q2S-3.5-4	Total/NA	Solid	Moisture	
720-90302-9	DG-R2S-0.5-1	Total/NA	Solid	Moisture	
720-90302-12	DG-S2S-0.5-1	Total/NA	Solid	Moisture	
720-90302-13	DUP-5	Total/NA	Solid	Moisture	
720-90302-15	DUP-7	Total/NA	Solid	Moisture	
720-90302-16	DG-S2S-3.5-4	Total/NA	Solid	Moisture	
720-90302-18	DG-T2S-3.5-4	Total/NA	Solid	Moisture	
720-90302-19	DG-U2S-0.5-1	Total/NA	Solid	Moisture	
720-90302-22	DG-V2S-3.5-4	Total/NA	Solid	Moisture	
720-90302-8 DU	DG-Q2S-3.5-4	Total/NA	Solid	Moisture	
720-90302-22 DU	DG-V2S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-N2S-0.5-1

Lab Sample ID: 720-90302-1

Date Collected: 12/13/18 09:25

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 10:27	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257239	12/17/18 17:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-N2S-3.5-4

Lab Sample ID: 720-90302-2

Date Collected: 12/13/18 09:25

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 10:32	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257239	12/17/18 17:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-O2S-0.5-1

Lab Sample ID: 720-90302-3

Date Collected: 12/13/18 10:00

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 10:36	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257239	12/17/18 17:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-O2S-3.5-4

Lab Sample ID: 720-90302-4

Date Collected: 12/13/18 10:00

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 10:50	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257239	12/17/18 17:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90302-1

Client Sample ID: DG-P2S-0.5-1

Lab Sample ID: 720-90302-5

Date Collected: 12/13/18 10:15
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 10:55	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257239	12/17/18 17:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-P2S-3.5-4

Lab Sample ID: 720-90302-6

Date Collected: 12/13/18 10:15
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:00	BKR	TAL PLS
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257465	12/21/18 14:17	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257240	12/17/18 19:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-Q2S-0.5-1

Lab Sample ID: 720-90302-7

Date Collected: 12/13/18 11:15
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:05	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257240	12/17/18 19:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	256992	12/14/18 11:39	TNL	TAL PLS

Client Sample ID: DG-Q2S-3.5-4

Lab Sample ID: 720-90302-8

Date Collected: 12/13/18 11:15
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:09	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257240	12/17/18 19:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257001	12/14/18 12:32	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90302-1

Client Sample ID: DG-R2S-0.5-1

Lab Sample ID: 720-90302-9

Date Collected: 12/13/18 11:45
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:14	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		2	257240	12/17/18 19:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257001	12/14/18 12:32	TNL	TAL PLS

Client Sample ID: DG-S2S-0.5-1

Lab Sample ID: 720-90302-12

Date Collected: 12/13/18 13:25
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:19	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257240	12/17/18 19:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257001	12/14/18 12:32	TNL	TAL PLS

Client Sample ID: DUP-5

Lab Sample ID: 720-90302-13

Date Collected: 12/13/18 00:00
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:24	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257240	12/17/18 19:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257001	12/14/18 12:32	TNL	TAL PLS

Client Sample ID: DUP-7

Lab Sample ID: 720-90302-15

Date Collected: 12/13/18 00:00
Matrix: Solid
Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:28	BKR	TAL PLS
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257465	12/21/18 14:22	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257240	12/17/18 19:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257001	12/14/18 12:32	TNL	TAL PLS

Client Sample ID: DG-S2S-3.5-4

Lab Sample ID: 720-90302-16

Date Collected: 12/13/18 13:25

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:33	BKR	TAL PLS
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257465	12/21/18 14:26	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257240	12/17/18 20:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257001	12/14/18 12:32	TNL	TAL PLS

Client Sample ID: DG-T2S-3.5-4

Lab Sample ID: 720-90302-18

Date Collected: 12/13/18 13:40

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:47	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257240	12/17/18 20:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257001	12/14/18 12:32	TNL	TAL PLS

Client Sample ID: DG-U2S-0.5-1

Lab Sample ID: 720-90302-19

Date Collected: 12/13/18 13:55

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 11:52	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257240	12/17/18 20:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257001	12/14/18 12:32	TNL	TAL PLS

Client Sample ID: DG-V2S-3.5-4

Lab Sample ID: 720-90302-22

Date Collected: 12/13/18 14:10

Matrix: Solid

Date Received: 12/13/18 19:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			256979	12/14/18 09:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257180	12/18/18 10:22	BKR	TAL PLS
Total/NA	Prep	7471A			256988	12/14/18 10:43	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257239	12/17/18 17:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257001	12/14/18 12:32	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90302-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90302-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90302-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90302-1	DG-N2S-0.5-1	Solid	12/13/18 09:25	12/13/18 19:15
720-90302-2	DG-N2S-3.5-4	Solid	12/13/18 09:25	12/13/18 19:15
720-90302-3	DG-O2S-0.5-1	Solid	12/13/18 10:00	12/13/18 19:15
720-90302-4	DG-O2S-3.5-4	Solid	12/13/18 10:00	12/13/18 19:15
720-90302-5	DG-P2S-0.5-1	Solid	12/13/18 10:15	12/13/18 19:15
720-90302-6	DG-P2S-3.5-4	Solid	12/13/18 10:15	12/13/18 19:15
720-90302-7	DG-Q2S-0.5-1	Solid	12/13/18 11:15	12/13/18 19:15
720-90302-8	DG-Q2S-3.5-4	Solid	12/13/18 11:15	12/13/18 19:15
720-90302-9	DG-R2S-0.5-1	Solid	12/13/18 11:45	12/13/18 19:15
720-90302-12	DG-S2S-0.5-1	Solid	12/13/18 13:25	12/13/18 19:15
720-90302-13	DUP-5	Solid	12/13/18 00:00	12/13/18 19:15
720-90302-15	DUP-7	Solid	12/13/18 00:00	12/13/18 19:15
720-90302-16	DG-S2S-3.5-4	Solid	12/13/18 13:25	12/13/18 19:15
720-90302-18	DG-T2S-3.5-4	Solid	12/13/18 13:40	12/13/18 19:15
720-90302-19	DG-U2S-0.5-1	Solid	12/13/18 13:55	12/13/18 19:15
720-90302-22	DG-V2S-3.5-4	Solid	12/13/18 14:10	12/13/18 19:15

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925 600 3002

720-90302

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
187328
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/13/18	COC No 1 of 3 COCs
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	Sampler K. Bell / Casey Gibson
1111 Broadway 6th Floor	Analysis Turnaround Time			For Lab Use Only: Walk-in Client:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90302 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1.	DG-N2S-0.5-1	12/13	0925	G	S	1	N		X	
2.	DG-N2S-3.5-4	"	0925	"	"	1	N		X	
3.	DG-O2S-0.5-1		1000			1	N		X	
4.	DG-O2S-3.5-4		1000			1	N		X	
5.	DG-P2S-0.5-1		1015			1	N		X	
6.	DG-P2S-3.5-4		1015			1	N		X	
7.	DG-Q2S-0.5-1		1115			1	N		X	
8.	DG-Q2S-3.5-4		1115			1	N		X	
9.	DG-R2S-0.5-4		1145			1	N		X	
10.	DG-R2S-3.5-4		1145			1	N		X	
11.	DG-R2S-4.5-5		1145			1	N		X	
12.	DG-S2S-0.5-1		1325			1	N		X	

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.0, 0.4°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____			
Relinquished by	Company GEOSYNTEC	Date/Time 12/13/18 1600	Received by	Company TA PLS	Date/Time 12-13-18 1610
Relinquished by	Company TA PLS	Date/Time 12-13-18 1915	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/13/18 1915

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

12/27/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90302

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
167328
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/13/18	COC No 2
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: C. Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13 DUP-5	12/13	—	G	S	1	N		X	
14 DUP-6	↓	—	↓	↓	↓	N		X	
15 DUP-7	↓	—	↓	↓	↓	N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
1.0°C, 0.4°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	GEOSYNTEC	12/13 1601		TA PLS	12-13-18 16:01
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	TA PLS	12-13-18 1915			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	12/13/18 1915

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

TA-70302

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187328
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/13/18	COC No 3
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler C. Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
16	DG-S2S-3.5-4	12/13	1325	G	S	1	N		X	
17	DG-T2S-0.5-1		1340				N		X	
18	DG-T2S-3.5-4		1340				N		X	
19	DG-U2S-0.5-1		1355				N		X	
20	DG-U2S-3.5-4		1355				N		X	
21	DG-V2S-0.5-1		1410				N		X	
22	DG-V2S-3.5-4		1410			3	N	X	X	
	~~DG-W2S-0.5-1~~		~~1430~~						X	
	~~DG-W2S-3.5-4~~		~~1430~~						X	
	~~DG-W2S~~		~~1430~~						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company GEOSYNTEC	Date/Time 12/13/18 1600	Received by	Company TA PLS	Date/Time 12-13-18 1600
Relinquished by	Company TA PLS	Date/Time 12/13/18 1915	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/13/18 1915

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

12/27/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90302-1

Login Number: 90302
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	False	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Bondoc, Christian M.
Sent: Friday, December 14, 2018 3:32 PM
To: Patel, Urvashi; 'Miranda Kahrilas'
Cc: Anthony Smith
Subject: RE: Brisbane - issues from Thursday sampling

Hello Miranda,

Pleasanton sample control has confirmed that the following is the list of samples that need to be resampled:

#10) DG-R2S-3.5-4
#11) DG-R2S-4.5-5
#14) DUP-6
#17) DG-T2S-0.5-1
#20) DG-U2S-3.5-4
#21) DG-V2S-0.5-1

Please let me know if you have any further questions.

Thank You,

SHIPPING ALERT: Christmas Holiday, Tuesday December 25th 2018 & New Year's Day, Tuesday January 1st 2019

For the upcoming Christmas holiday (observed Tuesday, December 25th) FedEx and UPS will not have scheduled service on Tuesday December 25th.

For the upcoming New Year's holiday (observed Tuesday, January 1st) FedEx and UPS will not have scheduled service on Tuesday January 1st.

If you have BODs sampled on December 19th , 20th , 27th or 28th or short hold samples arriving Monday December 24th , 31st or the weekend, we ask that you contact your Project Manager in advance to ensure your samples meet all holding time criteria.

We are thankful for your business and hope that you have a wonderful and safe holiday!

Christian Bondoc
Project Management Assistant

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3271

www.testamericainc.com

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback

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this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation.

From: Patel, Urvashi
Sent: Friday, December 14, 2018 11:08 AM
To: 'Miranda Kahrilas'
Cc: Anthony Smith; Bondoc, Christian M.
Subject: RE: Brisbane - issues from Thursday sampling

Hi Miranda
We are confirming the sample ID for #21) DG-V2S-3.5-4. S/R noted sample #21 but sample ID is for sample 22. I'll get back to you shortly with a confirmation.

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Friday, December 14, 2018 11:05 AM
To: Patel, Urvashi
Cc: Anthony Smith; Bondoc, Christian M.
Subject: RE: Brisbane - issues from Thursday sampling

-External Email-

Hi Urvashi,

Yes we can resample. The sample ID should be DG-R2S-0.5-1 time 11:45.

Please put the sample 11 (DG-R2S-4.5-5) on hold.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Friday, December 14, 2018 10:34 AM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Cc: Anthony Smith <TSmith@Geosyntec.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Subject: Brisbane - issues from Thursday sampling
Importance: High

Hi Miranda
Thanks for the update. We have the samples from yesterday logged in but had an issue with one of the jobs. Here are the issues (COC attached):
Samples listed below- Labels slid off the jar and we can't match them up. Not sure if the labels were affixed in the field on wet jars or if labels were handled with wet hands. Jars were not in bubble bags.
#10) DG-R2S-3.5-4
#11) DG-R2S-4.5-5
#14) DUP-6
#17) DG-T2S-0.5-1
#20) DG-U2S-3.5-4
#21) DG-V2S-3.5-4

For sample #9
The container labels list DG-R2S-0.5-1 time 11:45 while the COC lists DG-R2S-0.5-4 time 11:45

Can you re-sample for the samples that didn't have the labels on them? And please confirm sample ID for sample #9.

The other COC had no issues and all labels were attached.

Thanks,
Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Friday, December 14, 2018 7:49 AM
To: Patel, Urvashi
Cc: Anthony Smith
Subject: RE: Brisbane - No courier for the site tomorrow

-External Email-

Hi Urvashi,

The samples that were picked up yesterday and the ones being picked up today will just be for metals analysis. Next week will be sampling everything, but we are not expecting any water samples with free product in them. We have not yet scheduled the make up days for the delayed start but will be discussing that with the drillers during the middle of next week. I want to hold off on delivery the last 1/3 of the bottles until we know that information also.

I'll keep you in the loop ,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Wednesday, December 12, 2018 8:28 AM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Cc: Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: Brisbane - No courier for the site tomorrow

Hi Miranda
You're all set for a pick up Thursday and Friday of this week, and till the 21st. You'll have a bottle order dropped off on Monday the 17th which leaves one more order pending for you. Let me know when you'd like the last 3rd dropped off. Question for you :
Since the start of this project was delayed, does this change your sampling schedule on number of samples collected on a daily basis? I've only scheduled pick ups till the 21st so please let me know the sampling schedule if this will go into the last week of December. We are closed on the 25th but open all other days. I'd like to inform the lab if this sampling event will go into the last week of December so they are prepared. I'm working out of the Phoenix off this week so please call me on my cell if you need to reach me.

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

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CELL 949-333-9055

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From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Wednesday, December 12, 2018 8:21 AM
To: Patel, Urvashi
Cc: Anthony Smith
Subject: RE: Brisbane - No courier for the site tomorrow

-External Email-

Hi Urvashi,

We are on for tomorrow and Friday this week. Next week we will need a courier Monday through Friday and please do have the next third of the sample jars dropped off at the site on Monday.

I will give you a call this afternoon if I have not gotten a confirmation from you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Friday, December 7, 2018 2:02 PM

To: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Cc: Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: Brisbane - No courier for the site tomorrow

Hi Miranda
No worries. I'll cancel the pick ups for Monday-Wednesday next week. Call me on my cell number next week as I'll be working out of the Phoenix lab M-F next week, then back in Irvine from the 17th till next year.

Have a great weekend.

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

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From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Friday, December 07, 2018 1:29 PM
To: Patel, Urvashi
Cc: Anthony Smith
Subject: RE: Brisbane - No courier for the site tomorrow

-External Email-

Hi Urvashi,

The client is still working on authorization. In the interest of allowing everyone to properly plan, we are now delaying the start of field work until **Thursday, December 13th**. I will let you know on Monday if we need to delay it further or have officially received authorization.

This means lets skip the shipment to the site that we had scheduled for **Monday, December 10th.** But we can still plan for the shipment to the site on **Monday, December 17th,** but we can discuss that more next week.

Thanks and apologies for all the back and forth,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Thursday, December 6, 2018 4:29 PM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Cc: Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: Brisbane - No courier for the site tomorrow

No worries, I'll inform the labs. What's causing the delay in the sampling?

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

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From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Thursday, December 06, 2018 4:27 PM
To: Patel, Urvashi
Cc: Anthony Smith
Subject: RE: Brisbane - No courier for the site tomorrow

-External Email-

Hi Urvashi,

Unfortunately we are not sampling tomorrow either. I will let you know by tomorrow afternoon what is going on for Monday. Thanks for your flexibility.

Thanks!

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Tuesday, December 4, 2018 10:15 PM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Cc: Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: Brisbane - No courier for the site tomorrow

Got it- I'll inform the lab.

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

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From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Tuesday, December 04, 2018 10:09 PM
To: Patel, Urvashi
Cc: Anthony Smith
Subject: Brisbane - No courier for the site tomorrow

-External Email-

Hi Urvashi,

Just FYI we do not need a courier to cone to the site tomorrow, 12/05 but want one to come on Thursday (12/06) at around 4pm.

Thank you!

Get Outlook for Android

From: Patel, Urvashi <urvashi.patel@testamericainc.com>
Sent: Tuesday, December 4, 2018 9:45:36 PM
To: Krzysztof Jesionek; Miranda Kahrilas; Anthony Smith
Subject: TestAmerica report files from 720-89864-1 Brisbane OU2

Hello,

Attached please find the Prelim report files for job 720-89864-1; Brisbane OU2

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

URVASHI PATEL
Manager of Project Management

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [486191]
Attachments: 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90329-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/15/2019 5:22:34 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90329-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90329-1

Comments
Revision created to change sample ID for sample #28 and #29, see client email in correspondences.
Revision created to remove caret (^) from sample #28 (DG-AV3S-0.5-1 now DG AW5S-0.5-1.0) because incorrect CCB had been linked to the sample.

Receipt
The samples were received on 12/14/2018 6:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9º C and 2.0º C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC:
(#28) DG-AW5S-0.5-1.0. The container labels list sample time: 1515, while the COC lists sample time: 1510.
(#29) DG-AW5S-3.5-4.0. The container labels list sample time: 1510, while the COC lists sample time: 1515.
The client was contacted, and the lab was instructed to follow container labels for sample ID and time of collection.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257069 and analytical batch 720-257197 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Cu-127% associated with batch 720-257197 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch As-16%, Ba-25%, Co-21%, Cr-22%, Cu-18%, Ni-19%, Pb-20%, V-20%, Zn-20% was outside control limits: (720-90329-A-1-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analyte : DG-T3S-0.5-1 (720-90329-1), DG-T3S-3.5-4 (720-90329-2), DG-V3S-0.5-1 (720-90329-3), DG-V3S-3.5-4 (720-90329-4), DG-X3S-0.5-1 (720-90329-5), DG-X3S-3.5-4 (720-90329-6), DG-Z3S-0.5-1 (720-90329-7), DG-Z3S-3.5-4 (720-90329-8), DG-AB3S-0.5-1 (720-90329-9), DG-AB3S-3.5-4 (720-90329-10), DG-AB3S-6.5-7 (720-90329-11), DG-AD3S-0.5-1 (720-90329-12), DG-AD3S-3.5-4 (720-90329-13), DG-AF3S-0.5-1 (720-90329-14), DG-AF3S-3.5-4 (720-90329-15), DG-AH3S-0.5-1 (720-90329-16), DG-AH3S-3.5-4 (720-90329-17), DG-AJ3S-0.5-1 (720-90329-18), DG-AJ3S-3.5-4 (720-90329-19) and DG-AN3S-0.5-1 (720-90329-20). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-257069 and analytical batch 720-257197 contained Arsenic, Beryllium, and Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257080 and analytical batch 720-257220 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Ag -127%, As-265%, Ba-179%, Pb-43%, Sb-37%, V-161%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257220 was outside control limits: As-19%, Ba-12%, Co-29%, Cr-27%, Ni-24%, Pb-24%, V-11%, Zn-24%(720-90329-A-21-D SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analyte : DG-AN3S-3.5-4 (720-90329-21), DG-AP3S-0.5-1 (720-90329-22), DG-AP3S-3.5-4 (720-90329-23), DG-AR3S-0.5-1 (720-90329-24), DG-AR3S-3.5-4 (720-90329-25), DG-AT3S-0.5-1 (720-90329-26), DG-AT3S-3.5-4 (720-90329-27), DG-AV3S-0.5-1 (720-90329-28) and DG-AV3S-3.5-4 (720-90329-29). Elevated reporting limits (RLs) are provided.

Method 6010B: The following sample was diluted due to the abundance of non-target analyte Fe: DG-AV3S-0.5-1 (720-90329-28). Elevated reporting limits (RLs) are provided.

Job ID: 720-90329-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Client Sample ID: DG-T3S-0.5-1 — Lab Sample ID: 720-90329-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.6	B F1 F2	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	120	B F1	3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	71	F1	1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.85		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	30	F1 F2	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.9	F1	0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	110	F1	4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	190		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6	F1	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	29	F1	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.47	J	3.0	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	54	F1	1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	210		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T3S-3.5-4 — Lab Sample ID: 720-90329-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	120	B	2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	150		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	B	0.25	0.083	mg/Kg	4		6010B	Total/NA
Chromium	86		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	99		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	44		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	130		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	71		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	73		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	1.8		0.064	0.0094	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-V3S-0.5-1 — Lab Sample ID: 720-90329-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.8	B	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	330	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	79		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.32	J B	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.70		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	29		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	210		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	280		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.97	J	1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	25		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.9	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	91		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	240		5.3	2.2	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V3S-0.5-1 (Continued) — Lab Sample ID: 720-90329-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V3S-3.5-4 — Lab Sample ID: 720-90329-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3	B	1.2	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	140	B	2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	49		1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.88	B	0.25	0.081	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	34		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	47		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	18		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	41		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	42		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	92		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.091		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X3S-0.5-1 — Lab Sample ID: 720-90329-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.8	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	180	B	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	75		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.29	J B	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	30		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	180		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	420		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	2.8		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	37		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.6	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	1200		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X3S-3.5-4 — Lab Sample ID: 720-90329-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.88	J B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	9.3	B	2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	52		1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.61	B	0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.078	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	26		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	28		0.43	0.043	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Client Sample ID: DG-X3S-3.5-4 (Continued) — Lab Sample ID: 720-90329-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	38		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	14		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.69	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	33		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.58	J	2.2	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	66		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.034		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z3S-0.5-1 — Lab Sample ID: 720-90329-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.0	B	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	290	B	3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	100		1.5	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.31	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	22		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	210		4.5	2.2	mg/Kg	4		6010B	Total/NA
Lead	370		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.83	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	29		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	130		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z3S-3.5-4 — Lab Sample ID: 720-90329-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	B	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	43	B	2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	120		1.0	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.092	J	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	120		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	39		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	20		1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.70	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	160		1.0	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.80	J	2.1	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	75		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	79		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	3.0		0.061	0.0090	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AB3S-0.5-1 — Lab Sample ID: 720-90329-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.9	B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	36	B	3.1	0.26	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB3S-0.5-1 (Continued) — Lab Sample ID: 720-90329-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	71		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	3.5		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	15		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	200		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	200		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	37		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	180		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.49		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB3S-3.5-4 — Lab Sample ID: 720-90329-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.5	B	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	20	B	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	180		1.9	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	140		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	23		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	200		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	250		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	200		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.78	J	3.9	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	85		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	180		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	2.6		0.064	0.0094	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AB3S-6.5-7 — Lab Sample ID: 720-90329-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7	B	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	29	B	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	50		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.66	B	0.28	0.092	mg/Kg	4		6010B	Total/NA
Chromium	34		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	41		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	8.8		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.95	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	32		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	2.8	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	67		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.041		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD3S-0.5-1 — Lab Sample ID: 720-90329-12

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD3S-0.5-1 (Continued) — Lab Sample ID: 720-90329-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	33	B	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	470	B	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	200		1.9	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	1.9		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	27		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	420		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	1400		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	20		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	3.9	0.58	mg/Kg	4		6010B	Total/NA
Silver	1.2		0.97	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	94		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	480		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.41		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD3S-3.5-4 — Lab Sample ID: 720-90329-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3	B	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	25	B	2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	110		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J B	0.23	0.074	mg/Kg	4		6010B	Total/NA
Cadmium	0.16	J	0.29	0.028	mg/Kg	4		6010B	Total/NA
Chromium	170		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	49		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	48		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.77	J	1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	170		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	73		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	3.7		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-AF3S-0.5-1 — Lab Sample ID: 720-90329-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J B	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	8.5	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	27		1.8	0.25	mg/Kg	4		6010B	Total/NA
Chromium	8.5		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	120		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	18		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.52	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	6.0		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	60		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.052		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Client Sample ID: DG-AF3S-3.5-4 — Lab Sample ID: 720-90329-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	13	B	2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	140		1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.38	B	0.21	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	34		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	60		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	32		1.1	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.91	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	51		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.83	J	2.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	120		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH3S-0.5-1 — Lab Sample ID: 720-90329-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.49	J B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	6.7	B	2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	68		1.2	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.10	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	16		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	150		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	52		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.75	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	8.0		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	84		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH3S-3.5-4 — Lab Sample ID: 720-90329-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	170	B	2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	62		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J B	0.26	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.42		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	11		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	260		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	160		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.69	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	23		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.84	J	2.6	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.3	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH3S-3.5-4 (Continued) — Lab Sample ID: 720-90329-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	140		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ3S-0.5-1 — Lab Sample ID: 720-90329-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.59	J B	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	16	B	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	56		1.7	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	12		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	140		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	26		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.38	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	4.9		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	68		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.072		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ3S-3.5-4 — Lab Sample ID: 720-90329-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.33	J B	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	66	B	3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	73		1.5	0.21	mg/Kg	4		6010B	Total/NA
Chromium	14		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	110		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	11		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.74	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	7.5		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.84	J	3.0	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	90		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	60		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.060		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN3S-0.5-1 — Lab Sample ID: 720-90329-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9	B	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	23	B	3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	45		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.61		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	16		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	190		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	240		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.5	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AN3S-0.5-1 (Continued) — Lab Sample ID: 720-90329-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	12		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.93	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Vanadium	96		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	180		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN3S-3.5-4 — Lab Sample ID: 720-90329-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8	B F1 F2	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	270	F2	2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	79	F1 F2	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	0.40		0.32	0.031	mg/Kg	4		6010B	Total/NA
Chromium	24	F1 F2	1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	94	F1	3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	100	F1	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	2.4		1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	34	B F1 F2	1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.57	J B F1	0.63	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	67	F1	1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	110	F1 F2	3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP3S-0.5-1 — Lab Sample ID: 720-90329-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.41	J	2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	38		1.3	0.18	mg/Kg	4		6010B	Total/NA
Chromium	5.5		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	95		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	9.6		1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	3.2	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.37	J B	0.65	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	82		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	39		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.054		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP3S-3.5-4 — Lab Sample ID: 720-90329-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.92	J B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	180		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	31		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	6.5		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.6		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	110		3.3	1.6	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP3S-3.5-4 (Continued) — Lab Sample ID: 720-90329-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	520		1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	6.7	B	1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	2.7	B	0.55	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	130		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.067		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR3S-0.5-1 — Lab Sample ID: 720-90329-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.29	J B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	7.4		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	49		1.4	0.19	mg/Kg	4		6010B	Total/NA
Chromium	13		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	170		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	23		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	6.0	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.49	J B	0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	57		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.077		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR3S-3.5-4 — Lab Sample ID: 720-90329-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	B	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	41		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	27		1.0	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	12		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	130		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	36		1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.56	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	6.4	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.39	J B	0.52	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	53		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.073		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT3S-0.5-1 — Lab Sample ID: 720-90329-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.39	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	3.3		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	37		1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	11		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	120		4.9	2.3	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT3S-0.5-1 (Continued) — Lab Sample ID: 720-90329-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.48	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	5.8	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.49	J B	0.82	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	94		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	49		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT3S-3.5-4 — Lab Sample ID: 720-90329-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9	B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	440		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	63		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.75		0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	18		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	140		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	130		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	14	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.52	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Silver	0.66	J B	0.85	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	180		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW5S-0.5-1 — Lab Sample ID: 720-90329-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	27	B	4.4	0.73	mg/Kg	10		6010B	Total/NA
Arsenic	34		8.8	0.75	mg/Kg	10		6010B	Total/NA
Barium	1400		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.56		0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	3.7		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	44		4.4	0.47	mg/Kg	10		6010B	Total/NA
Cobalt	10		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	790		13	6.3	mg/Kg	10		6010B	Total/NA
Lead	4800		4.4	0.93	mg/Kg	10		6010B	Total/NA
Molybdenum	0.71	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	62	B	4.4	0.45	mg/Kg	10		6010B	Total/NA
Silver	8.1	B	2.2	0.45	mg/Kg	10		6010B	Total/NA
Thallium	2.0	J	4.4	1.3	mg/Kg	10		6010B	Total/NA
Vanadium	32		4.4	0.60	mg/Kg	10		6010B	Total/NA
Zinc	2800		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.89		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW5S-3.5-4 — Lab Sample ID: 720-90329-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6	B	1.6	0.26	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AW5S-3.5-4 (Continued)

Lab Sample ID: 720-90329-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.4		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	150		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	29		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	140		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	270		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	37	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.78	B	0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	310		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.37		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T3S-0.5-1

Date Collected: 12/14/18 08:05
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.6	B F1 F2	1.5	0.25	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Arsenic	120	B F1	3.0	0.25	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Barium	71	F1	1.5	0.21	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Beryllium	ND	F1	0.30	0.096	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Cadmium	0.85		0.37	0.037	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Chromium	30	F1 F2	1.5	0.16	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Cobalt	9.9	F1	0.59	0.059	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Copper	110	F1	4.4	2.1	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Lead	190		1.5	0.31	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Molybdenum	1.6	F1	1.5	0.19	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Nickel	29	F1	1.5	0.15	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Selenium	0.47	J	3.0	0.44	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Silver	ND	F1	0.74	0.15	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Thallium	ND		1.5	0.43	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Vanadium	54	F1	1.5	0.20	mg/Kg		12/17/18 10:28	12/18/18 12:58	4
Zinc	210		4.4	1.9	mg/Kg		12/17/18 10:28	12/18/18 12:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.016	0.0023	mg/Kg		12/28/18 11:26	12/28/18 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-T3S-3.5-4

Date Collected: 12/14/18 08:09
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	B	1.3	0.21	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Arsenic	120	B	2.5	0.22	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Barium	150		1.3	0.18	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Beryllium	0.26	B	0.25	0.083	mg/Kg		12/17/18 10:28	12/19/18 12:44	4
Cadmium	ND		0.32	0.032	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Chromium	86		1.3	0.14	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Cobalt	22		0.51	0.051	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Copper	99		3.8	1.8	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Lead	44		1.3	0.27	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Molybdenum	1.2	J	1.3	0.16	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Nickel	130		1.3	0.13	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Selenium	1.2	J	2.5	0.38	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Silver	ND		0.64	0.13	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Thallium	ND		1.3	0.37	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Vanadium	71		1.3	0.17	mg/Kg		12/17/18 10:28	12/18/18 13:12	4
Zinc	73		3.8	1.6	mg/Kg		12/17/18 10:28	12/18/18 13:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8		0.064	0.0094	mg/Kg		12/28/18 11:26	12/28/18 17:35	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-V3S-0.5-1

Date Collected: 12/14/18 08:25
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.8	B	1.8	0.29	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Arsenic	330	B	3.5	0.30	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Barium	79		1.8	0.25	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Beryllium	0.32	J B	0.35	0.11	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Cadmium	0.70		0.44	0.044	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Chromium	29		1.8	0.19	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Cobalt	13		0.70	0.070	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Copper	210		5.3	2.5	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Lead	280		1.8	0.37	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Molybdenum	0.97	J	1.8	0.22	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Nickel	25		1.8	0.18	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Selenium	1.9	J	3.5	0.53	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Silver	ND		0.88	0.18	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Thallium	ND		1.8	0.51	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Vanadium	91		1.8	0.24	mg/Kg		12/17/18 10:28	12/18/18 13:27	4
Zinc	240		5.3	2.2	mg/Kg		12/17/18 10:28	12/18/18 13:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		12/28/18 11:26	12/28/18 17:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-V3S-3.5-4

Date Collected: 12/14/18 08:29
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	B	1.2	0.21	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Arsenic	140	B	2.5	0.21	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Barium	49		1.2	0.18	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Beryllium	0.88	B	0.25	0.081	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Cadmium	0.14	J	0.31	0.031	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Chromium	34		1.2	0.13	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Cobalt	22		0.50	0.050	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Copper	47		3.7	1.8	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Lead	18		1.2	0.26	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Molybdenum	1.1	J	1.2	0.16	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Nickel	41		1.2	0.13	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Selenium	1.3	J	2.5	0.37	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Silver	ND		0.62	0.13	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Thallium	ND		1.2	0.36	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Vanadium	42		1.2	0.17	mg/Kg		12/17/18 10:28	12/18/18 13:31	4
Zinc	92		3.7	1.6	mg/Kg		12/17/18 10:28	12/18/18 13:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.015	0.0022	mg/Kg		12/28/18 11:26	12/28/18 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-X3S-0.5-1

Date Collected: 12/14/18 08:47
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.8	B	1.8	0.30	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Arsenic	180	B	3.6	0.31	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Barium	75		1.8	0.26	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Beryllium	0.29	J B	0.36	0.12	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Cadmium	1.5		0.45	0.045	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Chromium	30		1.8	0.19	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Cobalt	9.8		0.73	0.073	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Copper	180		5.5	2.6	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Lead	420		1.8	0.38	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Molybdenum	2.8		1.8	0.23	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Nickel	37		1.8	0.19	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Selenium	1.3	J	3.6	0.55	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Silver	ND		0.91	0.18	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Thallium	ND		1.8	0.53	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Vanadium	50		1.8	0.25	mg/Kg		12/17/18 10:28	12/18/18 13:36	4
Zinc	1200		5.5	2.3	mg/Kg		12/17/18 10:28	12/18/18 13:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.015	0.0022	mg/Kg		12/28/18 11:26	12/28/18 16:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-X3S-3.5-4

Date Collected: 12/14/18 08:52
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.88	J B	1.1	0.18	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Arsenic	9.3	B	2.2	0.18	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Barium	52		1.1	0.15	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Beryllium	0.61	B	0.22	0.070	mg/Kg		12/17/18 10:28	12/19/18 12:49	4
Cadmium	0.078	J	0.27	0.027	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Chromium	26		1.1	0.11	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Cobalt	28		0.43	0.043	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Copper	38		3.2	1.5	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Lead	14		1.1	0.23	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Molybdenum	0.69	J	1.1	0.14	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Nickel	33		1.1	0.11	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Selenium	0.58	J	2.2	0.32	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Silver	ND		0.54	0.11	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Thallium	ND		1.1	0.31	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Vanadium	33		1.1	0.15	mg/Kg		12/17/18 10:28	12/18/18 13:41	4
Zinc	66		3.2	1.4	mg/Kg		12/17/18 10:28	12/18/18 13:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.015	0.0022	mg/Kg		12/28/18 11:26	12/28/18 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.2		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-Z3S-0.5-1

Date Collected: 12/14/18 09:03
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0	B	1.5	0.25	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Arsenic	290	B	3.0	0.26	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Barium	100		1.5	0.22	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Beryllium	ND		0.30	0.098	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Cadmium	0.31	J	0.38	0.038	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Chromium	22		1.5	0.16	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Cobalt	11		0.61	0.061	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Copper	210		4.5	2.2	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Lead	370		1.5	0.32	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Molybdenum	0.83	J	1.5	0.19	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Nickel	29		1.5	0.15	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Selenium	1.6	J	3.0	0.45	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Silver	ND		0.76	0.15	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Thallium	ND		1.5	0.44	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Vanadium	76		1.5	0.21	mg/Kg		12/17/18 10:28	12/18/18 13:46	4
Zinc	130		4.5	1.9	mg/Kg		12/17/18 10:28	12/18/18 13:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.016	0.0024	mg/Kg		12/28/18 11:26	12/28/18 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-Z3S-3.5-4

Date Collected: 12/14/18 09:07
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	B	1.0	0.17	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Arsenic	43	B	2.1	0.18	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Barium	120		1.0	0.15	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Beryllium	ND		0.21	0.068	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Cadmium	0.092	J	0.26	0.026	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Chromium	120		1.0	0.11	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Cobalt	20		0.42	0.042	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Copper	39		3.1	1.5	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Lead	20		1.0	0.22	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Molybdenum	0.70	J	1.0	0.13	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Nickel	160		1.0	0.11	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Selenium	0.80	J	2.1	0.31	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Silver	ND		0.52	0.11	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Thallium	ND		1.0	0.30	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Vanadium	75		1.0	0.14	mg/Kg		12/17/18 10:28	12/18/18 13:51	4
Zinc	79		3.1	1.3	mg/Kg		12/17/18 10:28	12/18/18 13:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.0		0.061	0.0090	mg/Kg		12/28/18 11:26	12/28/18 17:37	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.9		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AB3S-0.5-1

Date Collected: 12/14/18 09:27
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.9	B	1.6	0.26	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Arsenic	36	B	3.1	0.26	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Barium	71		1.6	0.22	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Beryllium	ND		0.31	0.10	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Cadmium	3.5		0.39	0.038	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Chromium	15		1.6	0.16	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Cobalt	10		0.62	0.062	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Copper	200		4.7	2.2	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Lead	200		1.6	0.33	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Molybdenum	1.1	J	1.6	0.20	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Nickel	37		1.6	0.16	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Selenium	1.1	J	3.1	0.47	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Silver	ND		0.78	0.16	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Thallium	ND		1.6	0.45	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Vanadium	66		1.6	0.21	mg/Kg		12/17/18 10:28	12/18/18 13:56	4
Zinc	180		4.7	2.0	mg/Kg		12/17/18 10:28	12/18/18 13:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.017	0.0025	mg/Kg		12/28/18 11:26	12/28/18 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AB3S-3.5-4

Date Collected: 12/14/18 09:32
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.5	B	1.9	0.32	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Arsenic	20	B	3.9	0.33	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Barium	180		1.9	0.28	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Beryllium	ND		0.39	0.13	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Cadmium	0.36	J	0.49	0.048	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Chromium	140		1.9	0.21	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Cobalt	23		0.78	0.078	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Copper	200		5.8	2.8	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Lead	250		1.9	0.41	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Molybdenum	1.3	J	1.9	0.25	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Nickel	200		1.9	0.20	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Selenium	0.78	J	3.9	0.58	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Silver	ND		0.97	0.20	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Thallium	ND		1.9	0.56	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Vanadium	85		1.9	0.26	mg/Kg		12/17/18 10:28	12/18/18 14:00	4
Zinc	180		5.8	2.5	mg/Kg		12/17/18 10:28	12/18/18 14:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.6		0.064	0.0094	mg/Kg		12/28/18 11:26	12/28/18 17:42	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AB3S-6.5-7

Date Collected: 12/14/18 09:45
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	B	1.4	0.24	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Arsenic	29	B	2.8	0.24	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Barium	50		1.4	0.20	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Beryllium	0.66	B	0.28	0.092	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Cadmium	ND		0.35	0.035	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Chromium	34		1.4	0.15	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Cobalt	10		0.57	0.057	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Copper	41		4.3	2.0	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Lead	8.8		1.4	0.30	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Molybdenum	0.95	J	1.4	0.18	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Nickel	32		1.4	0.14	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Selenium	1.6	J	2.8	0.43	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Silver	ND		0.71	0.14	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Thallium	ND		1.4	0.41	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Vanadium	41		1.4	0.19	mg/Kg		12/17/18 10:28	12/18/18 14:05	4
Zinc	67		4.3	1.8	mg/Kg		12/17/18 10:28	12/18/18 14:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.016	0.0024	mg/Kg		12/28/18 11:26	12/28/18 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.1		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AD3S-0.5-1

Date Collected: 12/14/18 10:15
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	33	B	1.9	0.32	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Arsenic	470	B	3.9	0.33	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Barium	200		1.9	0.28	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Beryllium	ND		0.39	0.13	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Cadmium	1.9		0.49	0.048	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Chromium	27		1.9	0.21	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Cobalt	13		0.78	0.078	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Copper	420		5.8	2.8	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Lead	1400		1.9	0.41	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Molybdenum	1.0	J	1.9	0.25	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Nickel	20		1.9	0.20	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Selenium	2.1	J	3.9	0.58	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Silver	1.2		0.97	0.20	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Thallium	ND		1.9	0.56	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Vanadium	94		1.9	0.26	mg/Kg		12/17/18 10:28	12/18/18 14:10	4
Zinc	480		5.8	2.5	mg/Kg		12/17/18 10:28	12/18/18 14:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.015	0.0023	mg/Kg		12/28/18 11:26	12/28/18 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			12/17/18 17:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Client Sample ID: DG-AD3S-3.5-4
Date Collected: 12/14/18 10:18
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-13
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	B	1.1	0.19	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Arsenic	25	B	2.3	0.19	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Barium	110		1.1	0.16	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Beryllium	0.21	J B	0.23	0.074	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Cadmium	0.16	J	0.29	0.028	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Chromium	170		1.1	0.12	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Cobalt	20		0.46	0.046	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Copper	49		3.4	1.6	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Lead	48		1.1	0.24	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Molybdenum	0.77	J	1.1	0.15	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Nickel	170		1.1	0.12	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Selenium	1.2	J	2.3	0.34	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Silver	ND		0.57	0.12	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Thallium	ND		1.1	0.33	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Vanadium	68		1.1	0.16	mg/Kg		12/17/18 10:28	12/18/18 14:24	4
Zinc	73		3.4	1.5	mg/Kg		12/17/18 10:28	12/18/18 14:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.7		0.16	0.024	mg/Kg		12/28/18 11:26	12/28/18 17:52	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.4		0.1	0.05	%			12/17/18 17:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Client Sample ID: DG-AF3S-0.5-1
Date Collected: 12/14/18 11:08
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-14
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	1.8	0.29	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Arsenic	8.5	B	3.5	0.30	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Barium	27		1.8	0.25	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Beryllium	ND		0.35	0.12	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Cadmium	ND		0.44	0.044	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Chromium	8.5		1.8	0.19	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Cobalt	14		0.71	0.071	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Copper	120		5.3	2.5	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Lead	18		1.8	0.37	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Molybdenum	0.52	J	1.8	0.23	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Nickel	6.0		1.8	0.18	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Selenium	ND		3.5	0.53	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Silver	ND		0.88	0.18	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Thallium	ND		1.8	0.51	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Vanadium	120		1.8	0.24	mg/Kg		12/17/18 10:28	12/18/18 14:29	4
Zinc	60		5.3	2.2	mg/Kg		12/17/18 10:28	12/18/18 14:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.016	0.0023	mg/Kg		12/28/18 11:26	12/28/18 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AF3S-3.5-4

Date Collected: 12/14/18 11:12
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	B	1.1	0.18	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Arsenic	13	B	2.1	0.18	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Barium	140		1.1	0.15	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Beryllium	0.38	B	0.21	0.070	mg/Kg		12/17/18 10:28	12/19/18 12:53	4
Cadmium	0.15	J	0.27	0.027	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Chromium	34		1.1	0.11	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Cobalt	16		0.43	0.043	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Copper	60		3.2	1.5	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Lead	32		1.1	0.22	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Molybdenum	0.91	J	1.1	0.14	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Nickel	51		1.1	0.11	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Selenium	0.83	J	2.1	0.32	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Silver	ND		0.53	0.11	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Thallium	ND		1.1	0.31	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Vanadium	37		1.1	0.15	mg/Kg		12/17/18 10:28	12/18/18 14:34	4
Zinc	120		3.2	1.4	mg/Kg		12/17/18 10:28	12/18/18 14:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.015	0.0022	mg/Kg		12/28/18 11:26	12/28/18 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.7		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AH3S-0.5-1

Date Collected: 12/14/18 11:22
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J B	1.2	0.20	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Arsenic	6.7	B	2.5	0.21	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Barium	68		1.2	0.18	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Beryllium	ND		0.25	0.080	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Cadmium	0.10	J	0.31	0.031	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Chromium	16		1.2	0.13	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Cobalt	11		0.49	0.049	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Copper	150		3.7	1.8	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Lead	52		1.2	0.26	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Molybdenum	0.75	J	1.2	0.16	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Nickel	8.0		1.2	0.13	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Selenium	1.3	J	2.5	0.37	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Silver	ND		0.62	0.12	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Thallium	ND		1.2	0.36	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Vanadium	120		1.2	0.17	mg/Kg		12/17/18 10:28	12/18/18 14:39	4
Zinc	84		3.7	1.6	mg/Kg		12/17/18 10:28	12/18/18 14:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.016	0.0023	mg/Kg		12/28/18 11:26	12/28/18 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AH3S-3.5-4

Date Collected: 12/14/18 11:25
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1	B	1.3	0.21	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Arsenic	170	B	2.6	0.22	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Barium	62		1.3	0.18	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Beryllium	0.12	J B	0.26	0.083	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Cadmium	0.42		0.32	0.032	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Chromium	11		1.3	0.14	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Cobalt	11		0.51	0.051	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Copper	260		3.8	1.8	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Lead	160		1.3	0.27	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Molybdenum	0.69	J	1.3	0.16	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Nickel	23		1.3	0.13	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Selenium	0.84	J	2.6	0.38	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Silver	ND		0.64	0.13	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Thallium	ND		1.3	0.37	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Vanadium	77		1.3	0.17	mg/Kg		12/17/18 10:28	12/18/18 14:43	4
Zinc	140		3.8	1.6	mg/Kg		12/17/18 10:28	12/18/18 14:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.015	0.0022	mg/Kg		12/28/18 11:26	12/28/18 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AJ3S-0.5-1

Date Collected: 12/14/18 13:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J B	1.7	0.27	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Arsenic	16	B	3.3	0.28	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Barium	56		1.7	0.23	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Beryllium	ND		0.33	0.11	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Cadmium	0.18	J	0.41	0.041	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Chromium	12		1.7	0.18	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Cobalt	9.2		0.66	0.066	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Copper	140		5.0	2.4	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Lead	26		1.7	0.35	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Molybdenum	0.38	J	1.7	0.21	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Nickel	4.9		1.7	0.17	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Selenium	1.7	J	3.3	0.50	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Silver	ND		0.83	0.17	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Thallium	ND		1.7	0.48	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Vanadium	110		1.7	0.22	mg/Kg		12/17/18 10:28	12/18/18 14:48	4
Zinc	68		5.0	2.1	mg/Kg		12/17/18 10:28	12/18/18 14:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.014	0.0021	mg/Kg		12/28/18 11:26	12/28/18 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AJ3S-3.5-4

Date Collected: 12/14/18 13:05
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J B	1.5	0.25	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Arsenic	66	B	3.0	0.25	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Barium	73		1.5	0.21	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Beryllium	ND		0.30	0.096	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Cadmium	ND		0.37	0.037	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Chromium	14		1.5	0.16	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Cobalt	14		0.59	0.059	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Copper	110		4.4	2.1	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Lead	11		1.5	0.31	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Molybdenum	0.74	J	1.5	0.19	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Nickel	7.5		1.5	0.15	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Selenium	0.84	J	3.0	0.44	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Silver	ND		0.74	0.15	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Thallium	ND		1.5	0.43	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Vanadium	90		1.5	0.20	mg/Kg		12/17/18 10:28	12/18/18 13:03	4
Zinc	60		4.4	1.9	mg/Kg		12/17/18 10:28	12/18/18 13:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.015	0.0022	mg/Kg		12/28/18 11:26	12/28/18 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.05	%			12/17/18 17:56	1

Client Sample ID: DG-AN3S-0.5-1

Date Collected: 12/14/18 13:57
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	B	1.5	0.25	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Arsenic	23	B	3.0	0.25	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Barium	45		1.5	0.21	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Beryllium	ND		0.30	0.097	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Cadmium	0.61		0.37	0.037	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Chromium	16		1.5	0.16	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Cobalt	11		0.60	0.060	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Copper	190		4.5	2.1	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Lead	240		1.5	0.31	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Molybdenum	1.2	J	1.5	0.19	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Nickel	12		1.5	0.15	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Selenium	0.93	J	3.0	0.45	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Silver	ND		0.75	0.15	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Thallium	ND		1.5	0.43	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Vanadium	96		1.5	0.20	mg/Kg		12/17/18 10:28	12/18/18 13:08	4
Zinc	180		4.5	1.9	mg/Kg		12/17/18 10:28	12/18/18 13:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.014	0.0021	mg/Kg		12/28/18 11:26	12/28/18 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.05	%			12/17/18 17:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Client Sample ID: DG-AN3S-3.5-4

Date Collected: 12/14/18 14:01
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8	B F1 F2	1.3	0.21	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Arsenic	270	F2	2.5	0.22	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Barium	79	F1 F2	1.3	0.18	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Beryllium	0.13	J	0.25	0.082	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Cadmium	0.40		0.32	0.031	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Chromium	24	F1 F2	1.3	0.13	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Cobalt	12		0.51	0.051	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Copper	94	F1	3.8	1.8	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Lead	100	F1	1.3	0.27	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Molybdenum	2.4		1.3	0.16	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Nickel	34	B F1 F2	1.3	0.13	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Selenium	ND		2.5	0.38	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Silver	0.57	J B F1	0.63	0.13	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Thallium	ND		1.3	0.37	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Vanadium	67	F1	1.3	0.17	mg/Kg		12/18/18 08:53	12/18/18 16:07	4
Zinc	110	F1 F2	3.8	1.6	mg/Kg		12/18/18 08:53	12/18/18 16:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.014	0.0021	mg/Kg		12/31/18 09:37	12/31/18 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			12/17/18 19:03	1

Client Sample ID: DG-AP3S-0.5-1

Date Collected: 12/14/18 14:20
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.22	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Arsenic	**0.41**	**J**	2.6	0.22	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Barium	**38**		1.3	0.18	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Beryllium	ND		0.26	0.084	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Cadmium	ND		0.32	0.032	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Chromium	**5.5**		1.3	0.14	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Cobalt	**9.4**		0.52	0.052	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Copper	**95**		3.9	1.8	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Lead	**9.6**		1.3	0.27	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Molybdenum	ND		1.3	0.17	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Nickel	**3.2**	**B**	1.3	0.13	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Selenium	ND		2.6	0.39	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Silver	**0.37**	**J B**	0.65	0.13	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Thallium	ND		1.3	0.38	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Vanadium	**82**		1.3	0.18	mg/Kg		12/18/18 08:53	12/18/18 16:35	4
Zinc	**39**		3.9	1.6	mg/Kg		12/18/18 08:53	12/18/18 16:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.054**		0.015	0.0022	mg/Kg		12/31/18 09:37	12/31/18 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.6**		0.1	0.05	%			12/17/18 19:03	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Client Sample ID: DG-AP3S-3.5-4

Date Collected: 12/14/18 14:24
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.92	J B	1.1	0.18	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Arsenic	180		2.2	0.19	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Barium	31		1.1	0.16	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Beryllium	ND		0.22	0.071	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Cadmium	0.18	J	0.27	0.027	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Chromium	6.5		1.1	0.12	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Cobalt	7.6		0.44	0.044	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Copper	110		3.3	1.6	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Lead	520		1.1	0.23	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Molybdenum	ND		1.1	0.14	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Nickel	6.7	B	1.1	0.11	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Selenium	ND		2.2	0.33	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Silver	2.7	B	0.55	0.11	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Thallium	ND		1.1	0.32	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Vanadium	67		1.1	0.15	mg/Kg		12/18/18 08:53	12/18/18 16:40	4
Zinc	130		3.3	1.4	mg/Kg		12/18/18 08:53	12/18/18 16:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.014	0.0021	mg/Kg		12/31/18 09:37	12/31/18 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.9		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-AR3S-0.5-1

Date Collected: 12/14/18 14:36
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J B	1.4	0.23	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Arsenic	7.4		2.7	0.23	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Barium	49		1.4	0.19	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Beryllium	ND		0.27	0.089	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Cadmium	ND		0.34	0.034	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Chromium	13		1.4	0.15	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Cobalt	12		0.55	0.055	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Copper	170		4.1	2.0	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Lead	23		1.4	0.29	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Molybdenum	ND		1.4	0.18	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Nickel	6.0	B	1.4	0.14	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Selenium	ND		2.7	0.41	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Silver	0.49	J B	0.68	0.14	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Thallium	ND		1.4	0.40	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Vanadium	110		1.4	0.19	mg/Kg		12/18/18 08:53	12/18/18 16:44	4
Zinc	57		4.1	1.7	mg/Kg		12/18/18 08:53	12/18/18 16:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.077		0.015	0.0022	mg/Kg		12/31/18 09:37	12/31/18 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-AR3S-3.5-4

Date Collected: 12/14/18 14:40
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	B	1.0	0.17	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Arsenic	41		2.1	0.18	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Barium	27		1.0	0.15	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Beryllium	ND		0.21	0.067	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Cadmium	0.13	J	0.26	0.026	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Chromium	12		1.0	0.11	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Cobalt	9.6		0.41	0.041	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Copper	130		3.1	1.5	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Lead	36		1.0	0.22	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Molybdenum	0.56	J	1.0	0.13	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Nickel	6.4	B	1.0	0.11	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Selenium	ND		2.1	0.31	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Silver	0.39	J B	0.52	0.10	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Thallium	ND		1.0	0.30	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Vanadium	76		1.0	0.14	mg/Kg		12/18/18 08:53	12/18/18 16:49	4
Zinc	53		3.1	1.3	mg/Kg		12/18/18 08:53	12/18/18 16:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.015	0.0022	mg/Kg		12/31/18 09:37	12/31/18 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-AT3S-0.5-1

Date Collected: 12/14/18 14:53
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J B	1.6	0.27	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Arsenic	3.3		3.3	0.28	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Barium	37		1.6	0.23	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Beryllium	ND		0.33	0.11	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Cadmium	ND		0.41	0.041	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Chromium	11		1.6	0.17	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Cobalt	9.4		0.66	0.066	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Copper	120		4.9	2.3	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Lead	18		1.6	0.34	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Molybdenum	0.48	J	1.6	0.21	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Nickel	5.8	B	1.6	0.17	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Selenium	ND		3.3	0.49	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Silver	0.49	J B	0.82	0.17	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Thallium	ND		1.6	0.48	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Vanadium	94		1.6	0.22	mg/Kg		12/18/18 08:53	12/18/18 16:53	4
Zinc	49		4.9	2.1	mg/Kg		12/18/18 08:53	12/18/18 16:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.016	0.0023	mg/Kg		12/31/18 09:37	12/31/18 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-AT3S-3.5-4

Date Collected: 12/14/18 14:57
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	B	1.7	0.28	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Arsenic	440		3.4	0.29	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Barium	63		1.7	0.24	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Beryllium	ND		0.34	0.11	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Cadmium	0.75		0.43	0.042	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Chromium	18		1.7	0.18	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Cobalt	10		0.68	0.068	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Copper	140		5.1	2.4	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Lead	130		1.7	0.36	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Molybdenum	ND		1.7	0.22	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Nickel	14	B	1.7	0.17	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Selenium	0.52	J	3.4	0.51	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Silver	0.66	J B	0.85	0.17	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Thallium	ND		1.7	0.50	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Vanadium	73		1.7	0.23	mg/Kg		12/18/18 08:53	12/18/18 16:58	4
Zinc	180		5.1	2.2	mg/Kg		12/18/18 08:53	12/18/18 16:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.014	0.0021	mg/Kg		12/31/18 09:37	12/31/18 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-AW5S-0.5-1

Date Collected: 12/14/18 15:10
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	27	B	4.4	0.73	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Arsenic	34		8.8	0.75	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Barium	1400		1.8	0.25	mg/Kg		12/18/18 08:53	12/18/18 17:03	4
Beryllium	0.56		0.35	0.12	mg/Kg		12/18/18 08:53	12/18/18 17:03	4
Cadmium	3.7		1.1	0.11	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Chromium	44		4.4	0.47	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Cobalt	10		1.8	0.18	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Copper	790		13	6.3	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Lead	4800		4.4	0.93	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Molybdenum	0.71	J	1.8	0.23	mg/Kg		12/18/18 08:53	12/18/18 17:03	4
Nickel	62	B	4.4	0.45	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Selenium	ND		8.8	1.3	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Silver	8.1	B	2.2	0.45	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Thallium	2.0	J	4.4	1.3	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Vanadium	32		4.4	0.60	mg/Kg		12/18/18 08:53	12/19/18 12:35	10
Zinc	2800		5.3	2.2	mg/Kg		12/18/18 08:53	12/18/18 17:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.89		0.016	0.0023	mg/Kg		12/31/18 09:37	12/31/18 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.4		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-AW5S-3.5-4

Date Collected: 12/14/18 15:15
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6	B	1.6	0.26	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Arsenic	7.4		3.1	0.26	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Barium	150		1.6	0.22	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Beryllium	ND		0.31	0.10	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Cadmium	1.2		0.39	0.038	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Chromium	29		1.6	0.16	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Cobalt	7.1		0.62	0.062	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Copper	140		4.7	2.2	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Lead	270		1.6	0.33	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Molybdenum	1.6		1.6	0.20	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Nickel	37	B	1.6	0.16	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Selenium	ND		3.1	0.47	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Silver	0.78	B	0.78	0.16	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Thallium	ND		1.6	0.45	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Vanadium	35		1.6	0.21	mg/Kg		12/18/18 08:53	12/18/18 17:07	4
Zinc	310		4.7	2.0	mg/Kg		12/18/18 08:53	12/18/18 17:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.016	0.0023	mg/Kg		12/31/18 09:37	12/31/18 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			12/18/18 23:41	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257069/1-A
Matrix: Solid
Analysis Batch: 257197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.103	J	0.50	0.083	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Arsenic	0.137	J	1.0	0.085	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Barium	ND		0.50	0.071	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Beryllium	0.0509	J	0.10	0.033	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Cadmium	ND		0.13	0.012	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Chromium	ND		0.50	0.053	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Cobalt	ND		0.20	0.020	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Copper	ND		1.5	0.71	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Lead	ND		0.50	0.11	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Nickel	ND		0.50	0.051	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Selenium	ND		1.0	0.15	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Silver	ND		0.25	0.051	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Thallium	ND		0.50	0.15	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Vanadium	ND		0.50	0.068	mg/Kg		12/17/18 10:28	12/18/18 12:30	1
Zinc	ND		1.5	0.64	mg/Kg		12/17/18 10:28	12/18/18 12:30	1

Lab Sample ID: LCS 720-257069/2-A
Matrix: Solid
Analysis Batch: 257197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.0		mg/Kg		96	80 - 120
Arsenic	50.0	50.5		mg/Kg		101	80 - 120
Barium	50.0	49.2		mg/Kg		98	80 - 120
Beryllium	50.0	49.1		mg/Kg		98	80 - 120
Cadmium	50.0	50.5		mg/Kg		101	80 - 120
Chromium	50.0	49.6		mg/Kg		99	80 - 120
Cobalt	50.0	51.5		mg/Kg		103	80 - 120
Copper	50.0	50.8		mg/Kg		102	80 - 120
Lead	50.0	50.4		mg/Kg		101	80 - 120
Molybdenum	50.0	51.3		mg/Kg		103	80 - 120
Nickel	50.0	49.8		mg/Kg		100	80 - 120
Selenium	50.0	48.0		mg/Kg		96	80 - 120
Silver	25.0	23.9		mg/Kg		95	80 - 120
Thallium	50.0	50.2		mg/Kg		100	80 - 120
Vanadium	50.0	50.4		mg/Kg		101	80 - 120
Zinc	50.0	49.3		mg/Kg		99	80 - 120

Lab Sample ID: 720-90329-1 MS
Matrix: Solid
Analysis Batch: 257197

Client Sample ID: DG-T3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.6	B F1 F2	37.3	12.7	F1	mg/Kg		24	75 - 125
Arsenic	120	B F1	37.3	174	F1	mg/Kg		143	75 - 125
Barium	71	F1	37.3	148	F1	mg/Kg		204	75 - 125
Beryllium	ND	F1	37.3	46.0		mg/Kg		123	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90329-1 MS
Matrix: Solid
Analysis Batch: 257197

Client Sample ID: DG-T3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.85		37.3	42.5		mg/Kg		112	75 - 125
Chromium	30	F1 F2	37.3	105	F1	mg/Kg		203	75 - 125
Cobalt	9.9	F1	37.3	55.6		mg/Kg		122	75 - 125
Copper	110	F1	37.3	189	F1	mg/Kg		206	75 - 125
Lead	190		37.3	247	4	mg/Kg		142	75 - 125
Molybdenum	1.6	F1	37.3	43.8		mg/Kg		113	75 - 125
Nickel	29	F1	37.3	90.4	F1	mg/Kg		165	75 - 125
Selenium	0.47	J	37.3	41.2		mg/Kg		109	75 - 125
Silver	ND	F1	18.7	21.5		mg/Kg		115	75 - 125
Thallium	ND		37.3	39.0		mg/Kg		105	75 - 125
Vanadium	54	F1	37.3	119	F1	mg/Kg		173	75 - 125
Zinc	210		37.3	269	4	mg/Kg		160	75 - 125

Lab Sample ID: 720-90329-1 MSD
Matrix: Solid
Analysis Batch: 257197

Client Sample ID: DG-T3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257069

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.6	B F1 F2	37.9	19.8	F1 F2	mg/Kg		43	75 - 125	44	20
Arsenic	120	B F1	37.9	202	F1	mg/Kg		216	75 - 125	15	20
Barium	71	F1	37.9	150	F1	mg/Kg		207	75 - 125	2	20
Beryllium	ND	F1	37.9	51.8	F1	mg/Kg		137	75 - 125	12	20
Cadmium	0.85		37.9	47.7		mg/Kg		124	75 - 125	12	20
Chromium	30	F1 F2	37.9	80.3	F1 F2	mg/Kg		134	75 - 125	27	20
Cobalt	9.9	F1	37.9	60.5	F1	mg/Kg		133	75 - 125	8	20
Copper	110	F1	37.9	214	F1	mg/Kg		268	75 - 125	12	20
Lead	190		37.9	289	4	mg/Kg		253	75 - 125	16	20
Molybdenum	1.6	F1	37.9	49.1	F1	mg/Kg		126	75 - 125	11	20
Nickel	29	F1	37.9	79.4	F1	mg/Kg		133	75 - 125	13	20
Selenium	0.47	J	37.9	46.5		mg/Kg		121	75 - 125	12	20
Silver	ND	F1	18.9	24.2	F1	mg/Kg		128	75 - 125	12	20
Thallium	ND		37.9	44.5		mg/Kg		117	75 - 125	13	20
Vanadium	54	F1	37.9	124	F1	mg/Kg		185	75 - 125	5	20
Zinc	210		37.9	304	4	mg/Kg		250	75 - 125	12	20

Lab Sample ID: MB 720-257080/1-A
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.137	J	0.50	0.083	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Arsenic	ND		1.0	0.085	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Barium	ND		0.50	0.071	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Beryllium	ND		0.10	0.033	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Cadmium	ND		0.13	0.012	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Chromium	ND		0.50	0.053	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Cobalt	ND		0.20	0.020	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Copper	ND		1.5	0.71	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Lead	ND		0.50	0.11	mg/Kg		12/18/18 08:53	12/18/18 15:40	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257080/1-A
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Nickel	0.118	J	0.50	0.051	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Selenium	ND		1.0	0.15	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Silver	0.0766	J	0.25	0.051	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Thallium	ND		0.50	0.15	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Vanadium	ND		0.50	0.068	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Zinc	ND		1.5	0.64	mg/Kg		12/18/18 08:53	12/18/18 15:40	1

Lab Sample ID: LCS 720-257080/2-A
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.5		mg/Kg		93	80 - 120
Arsenic	50.0	46.7		mg/Kg		93	80 - 120
Barium	50.0	46.9		mg/Kg		94	80 - 120
Beryllium	50.0	47.6		mg/Kg		95	80 - 120
Cadmium	50.0	47.0		mg/Kg		94	80 - 120
Chromium	50.0	47.8		mg/Kg		96	80 - 120
Cobalt	50.0	47.3		mg/Kg		95	80 - 120
Copper	50.0	47.2		mg/Kg		94	80 - 120
Lead	50.0	47.6		mg/Kg		95	80 - 120
Molybdenum	50.0	47.7		mg/Kg		95	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Selenium	50.0	45.5		mg/Kg		91	80 - 120
Silver	25.0	23.0		mg/Kg		92	80 - 120
Thallium	50.0	47.4		mg/Kg		95	80 - 120
Vanadium	50.0	47.4		mg/Kg		95	80 - 120
Zinc	50.0	46.3		mg/Kg		93	80 - 120

Lab Sample ID: 720-90329-21 MS
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: DG-AN3S-3.5-4
Prep Type: Total/NA
Prep Batch: 257080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.8	B F1 F2	31.3	14.5	F1	mg/Kg		37	75 - 125
Arsenic	270	F2	31.3	191	4	mg/Kg		-265	75 - 125
Barium	79	F1 F2	31.3	135	F1	mg/Kg		179	75 - 125
Beryllium	0.13	J	31.3	39.3		mg/Kg		125	75 - 125
Cadmium	0.40		31.3	37.4		mg/Kg		118	75 - 125
Chromium	24	F1 F2	31.3	56.3		mg/Kg		103	75 - 125
Cobalt	12		31.3	50.6		mg/Kg		123	75 - 125
Copper	94	F1	31.3	131		mg/Kg		119	75 - 125
Lead	100	F1	31.3	115	F1	mg/Kg		43	75 - 125
Molybdenum	2.4		31.3	37.8		mg/Kg		113	75 - 125
Nickel	34	B F1 F2	31.3	63.1		mg/Kg		94	75 - 125
Selenium	ND		31.3	37.1		mg/Kg		119	75 - 125
Silver	0.57	J B F1	15.6	20.5	F1	mg/Kg		127	75 - 125
Thallium	ND		31.3	35.8		mg/Kg		114	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90329-21 MS
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: DG-AN3S-3.5-4
Prep Type: Total/NA
Prep Batch: 257080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	67	F1	31.3	117	F1	mg/Kg		161	75 - 125
Zinc	110	F1 F2	31.3	139		mg/Kg		98	75 - 125

Lab Sample ID: 720-90329-21 MSD
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: DG-AN3S-3.5-4
Prep Type: Total/NA
Prep Batch: 257080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.8	B F1 F2	31.6	11.5	F1 F2	mg/Kg		27	75 - 125	24	20
Arsenic	270	F2	31.6	136	4 F2	mg/Kg		-437	75 - 125	34	20
Barium	79	F1 F2	31.6	89.0	F1 F2	mg/Kg		31	75 - 125	41	20
Beryllium	0.13	J	31.6	32.6		mg/Kg		103	75 - 125	19	20
Cadmium	0.40		31.6	32.3		mg/Kg		101	75 - 125	14	20
Chromium	24	F1 F2	31.6	43.3	F1 F2	mg/Kg		61	75 - 125	26	20
Cobalt	12		31.6	43.7		mg/Kg		99	75 - 125	15	20
Copper	94	F1	31.6	111	F1	mg/Kg		53	75 - 125	17	20
Lead	100	F1	31.6	95.8	F1	mg/Kg		-17	75 - 125	18	20
Molybdenum	2.4		31.6	31.3		mg/Kg		91	75 - 125	19	20
Nickel	34	B F1 F2	31.6	43.1	F1 F2	mg/Kg		30	75 - 125	38	20
Selenium	ND		31.6	31.9		mg/Kg		101	75 - 125	15	20
Silver	0.57	J B F1	15.8	17.9		mg/Kg		109	75 - 125	14	20
Thallium	ND		31.6	30.6		mg/Kg		97	75 - 125	15	20
Vanadium	67	F1	31.6	109	F1	mg/Kg		134	75 - 125	7	20
Zinc	110	F1 F2	31.6	93.6	F1 F2	mg/Kg		-47	75 - 125	39	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257074/1-A
Matrix: Solid
Analysis Batch: 257796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/28/18 11:26	12/28/18 16:26	1

Lab Sample ID: LCS 720-257074/2-A
Matrix: Solid
Analysis Batch: 257796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.775		mg/Kg		93	80 - 120

Lab Sample ID: 720-90329-1 MS
Matrix: Solid
Analysis Batch: 257796

Client Sample ID: DG-T3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.14		0.781	0.916		mg/Kg		100	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90329-1 MSD — **Client Sample ID: DG-T3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257796 — **Prep Batch: 257074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.14		0.735	0.852		mg/Kg		98	75 - 125	7	20

Lab Sample ID: MB 720-257082/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257814 — **Prep Batch: 257082**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/31/18 09:37	12/31/18 12:38	1

Lab Sample ID: LCS 720-257082/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257814 — **Prep Batch: 257082**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.890		mg/Kg		107	80 - 120

Lab Sample ID: 720-90329-22 MS — **Client Sample ID: DG-AP3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257814 — **Prep Batch: 257082**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.054		0.694	0.783		mg/Kg		105	75 - 125

Lab Sample ID: 720-90329-22 MSD — **Client Sample ID: DG-AP3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257814 — **Prep Batch: 257082**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.054		0.704	0.827		mg/Kg		110	75 - 125	5	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90329-1 DU — **Client Sample ID: DG-T3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257120

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	7.3		6.8		%		8	20

Lab Sample ID: 720-90329-22 DU — **Client Sample ID: DG-AP3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257125

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.6		8.7		%		1	20

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 720-90329-24 DU
Matrix: Solid
Analysis Batch: 257215

Client Sample ID: DG-AR3S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.8			9.0		%				8	20

Metals

Prep Batch: 257069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-1	DG-T3S-0.5-1	Total/NA	Solid	3050B	
720-90329-2	DG-T3S-3.5-4	Total/NA	Solid	3050B	
720-90329-3	DG-V3S-0.5-1	Total/NA	Solid	3050B	
720-90329-4	DG-V3S-3.5-4	Total/NA	Solid	3050B	
720-90329-5	DG-X3S-0.5-1	Total/NA	Solid	3050B	
720-90329-6	DG-X3S-3.5-4	Total/NA	Solid	3050B	
720-90329-7	DG-Z3S-0.5-1	Total/NA	Solid	3050B	
720-90329-8	DG-Z3S-3.5-4	Total/NA	Solid	3050B	
720-90329-9	DG-AB3S-0.5-1	Total/NA	Solid	3050B	
720-90329-10	DG-AB3S-3.5-4	Total/NA	Solid	3050B	
720-90329-11	DG-AB3S-6.5-7	Total/NA	Solid	3050B	
720-90329-12	DG-AD3S-0.5-1	Total/NA	Solid	3050B	
720-90329-13	DG-AD3S-3.5-4	Total/NA	Solid	3050B	
720-90329-14	DG-AF3S-0.5-1	Total/NA	Solid	3050B	
720-90329-15	DG-AF3S-3.5-4	Total/NA	Solid	3050B	
720-90329-16	DG-AH3S-0.5-1	Total/NA	Solid	3050B	
720-90329-17	DG-AH3S-3.5-4	Total/NA	Solid	3050B	
720-90329-18	DG-AJ3S-0.5-1	Total/NA	Solid	3050B	
720-90329-19	DG-AJ3S-3.5-4	Total/NA	Solid	3050B	
720-90329-20	DG-AN3S-0.5-1	Total/NA	Solid	3050B	
MB 720-257069/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257069/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90329-1 MS	DG-T3S-0.5-1	Total/NA	Solid	3050B	
720-90329-1 MSD	DG-T3S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 257074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-1	DG-T3S-0.5-1	Total/NA	Solid	7471A	
720-90329-2	DG-T3S-3.5-4	Total/NA	Solid	7471A	
720-90329-3	DG-V3S-0.5-1	Total/NA	Solid	7471A	
720-90329-4	DG-V3S-3.5-4	Total/NA	Solid	7471A	
720-90329-5	DG-X3S-0.5-1	Total/NA	Solid	7471A	
720-90329-6	DG-X3S-3.5-4	Total/NA	Solid	7471A	
720-90329-7	DG-Z3S-0.5-1	Total/NA	Solid	7471A	
720-90329-8	DG-Z3S-3.5-4	Total/NA	Solid	7471A	
720-90329-9	DG-AB3S-0.5-1	Total/NA	Solid	7471A	
720-90329-10	DG-AB3S-3.5-4	Total/NA	Solid	7471A	
720-90329-11	DG-AB3S-6.5-7	Total/NA	Solid	7471A	
720-90329-12	DG-AD3S-0.5-1	Total/NA	Solid	7471A	
720-90329-13	DG-AD3S-3.5-4	Total/NA	Solid	7471A	
720-90329-14	DG-AF3S-0.5-1	Total/NA	Solid	7471A	
720-90329-15	DG-AF3S-3.5-4	Total/NA	Solid	7471A	
720-90329-16	DG-AH3S-0.5-1	Total/NA	Solid	7471A	
720-90329-17	DG-AH3S-3.5-4	Total/NA	Solid	7471A	
720-90329-18	DG-AJ3S-0.5-1	Total/NA	Solid	7471A	
720-90329-19	DG-AJ3S-3.5-4	Total/NA	Solid	7471A	
720-90329-20	DG-AN3S-0.5-1	Total/NA	Solid	7471A	
MB 720-257074/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257074/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90329-1 MS	DG-T3S-0.5-1	Total/NA	Solid	7471A	
720-90329-1 MSD	DG-T3S-0.5-1	Total/NA	Solid	7471A	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Prep Batch: 257080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-21	DG-AN3S-3.5-4	Total/NA	Solid	3050B	
720-90329-22	DG-AP3S-0.5-1	Total/NA	Solid	3050B	
720-90329-23	DG-AP3S-3.5-4	Total/NA	Solid	3050B	
720-90329-24	DG-AR3S-0.5-1	Total/NA	Solid	3050B	
720-90329-25	DG-AR3S-3.5-4	Total/NA	Solid	3050B	
720-90329-26	DG-AT3S-0.5-1	Total/NA	Solid	3050B	
720-90329-27	DG-AT3S-3.5-4	Total/NA	Solid	3050B	
720-90329-28	DG-AW5S-0.5-1	Total/NA	Solid	3050B	
720-90329-29	DG-AW5S-3.5-4	Total/NA	Solid	3050B	
MB 720-257080/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257080/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90329-21 MS	DG-AN3S-3.5-4	Total/NA	Solid	3050B	
720-90329-21 MSD	DG-AN3S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-21	DG-AN3S-3.5-4	Total/NA	Solid	7471A	
720-90329-22	DG-AP3S-0.5-1	Total/NA	Solid	7471A	
720-90329-23	DG-AP3S-3.5-4	Total/NA	Solid	7471A	
720-90329-24	DG-AR3S-0.5-1	Total/NA	Solid	7471A	
720-90329-25	DG-AR3S-3.5-4	Total/NA	Solid	7471A	
720-90329-26	DG-AT3S-0.5-1	Total/NA	Solid	7471A	
720-90329-27	DG-AT3S-3.5-4	Total/NA	Solid	7471A	
720-90329-28	DG-AW5S-0.5-1	Total/NA	Solid	7471A	
720-90329-29	DG-AW5S-3.5-4	Total/NA	Solid	7471A	
MB 720-257082/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257082/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90329-22 MS	DG-AP3S-0.5-1	Total/NA	Solid	7471A	
720-90329-22 MSD	DG-AP3S-0.5-1	Total/NA	Solid	7471A	

Analysis Batch: 257197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-1	DG-T3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-2	DG-T3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-3	DG-V3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-4	DG-V3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-5	DG-X3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-6	DG-X3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-7	DG-Z3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-8	DG-Z3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-9	DG-AB3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-10	DG-AB3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-11	DG-AB3S-6.5-7	Total/NA	Solid	6010B	257069
720-90329-12	DG-AD3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-13	DG-AD3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-14	DG-AF3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-15	DG-AF3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-16	DG-AH3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-17	DG-AH3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-18	DG-AJ3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-19	DG-AJ3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-20	DG-AN3S-0.5-1	Total/NA	Solid	6010B	257069
MB 720-257069/1-A	Method Blank	Total/NA	Solid	6010B	257069

Metals (Continued)

Analysis Batch: 257197 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-257069/2-A	Lab Control Sample	Total/NA	Solid	6010B	257069
720-90329-1 MS	DG-T3S-0.5-1	Total/NA	Solid	6010B	257069
720-90329-1 MSD	DG-T3S-0.5-1	Total/NA	Solid	6010B	257069

Analysis Batch: 257220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-21	DG-AN3S-3.5-4	Total/NA	Solid	6010B	257080
720-90329-22	DG-AP3S-0.5-1	Total/NA	Solid	6010B	257080
720-90329-23	DG-AP3S-3.5-4	Total/NA	Solid	6010B	257080
720-90329-24	DG-AR3S-0.5-1	Total/NA	Solid	6010B	257080
720-90329-25	DG-AR3S-3.5-4	Total/NA	Solid	6010B	257080
720-90329-26	DG-AT3S-0.5-1	Total/NA	Solid	6010B	257080
720-90329-27	DG-AT3S-3.5-4	Total/NA	Solid	6010B	257080
720-90329-28	DG-AW5S-0.5-1	Total/NA	Solid	6010B	257080
720-90329-29	DG-AW5S-3.5-4	Total/NA	Solid	6010B	257080
MB 720-257080/1-A	Method Blank	Total/NA	Solid	6010B	257080
LCS 720-257080/2-A	Lab Control Sample	Total/NA	Solid	6010B	257080
720-90329-21 MS	DG-AN3S-3.5-4	Total/NA	Solid	6010B	257080
720-90329-21 MSD	DG-AN3S-3.5-4	Total/NA	Solid	6010B	257080

Analysis Batch: 257279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-28	DG-AW5S-0.5-1	Total/NA	Solid	6010B	257080

Analysis Batch: 257280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-2	DG-T3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-6	DG-X3S-3.5-4	Total/NA	Solid	6010B	257069
720-90329-15	DG-AF3S-3.5-4	Total/NA	Solid	6010B	257069

Analysis Batch: 257796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-1	DG-T3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-2	DG-T3S-3.5-4	Total/NA	Solid	7471A	257074
720-90329-3	DG-V3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-4	DG-V3S-3.5-4	Total/NA	Solid	7471A	257074
720-90329-5	DG-X3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-6	DG-X3S-3.5-4	Total/NA	Solid	7471A	257074
720-90329-7	DG-Z3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-8	DG-Z3S-3.5-4	Total/NA	Solid	7471A	257074
720-90329-9	DG-AB3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-10	DG-AB3S-3.5-4	Total/NA	Solid	7471A	257074
720-90329-11	DG-AB3S-6.5-7	Total/NA	Solid	7471A	257074
720-90329-12	DG-AD3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-13	DG-AD3S-3.5-4	Total/NA	Solid	7471A	257074
720-90329-14	DG-AF3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-15	DG-AF3S-3.5-4	Total/NA	Solid	7471A	257074
720-90329-16	DG-AH3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-17	DG-AH3S-3.5-4	Total/NA	Solid	7471A	257074
720-90329-18	DG-AJ3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-19	DG-AJ3S-3.5-4	Total/NA	Solid	7471A	257074

Metals (Continued)

Analysis Batch: 257796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-20	DG-AN3S-0.5-1	Total/NA	Solid	7471A	257074
MB 720-257074/1-A	Method Blank	Total/NA	Solid	7471A	257074
LCS 720-257074/2-A	Lab Control Sample	Total/NA	Solid	7471A	257074
720-90329-1 MS	DG-T3S-0.5-1	Total/NA	Solid	7471A	257074
720-90329-1 MSD	DG-T3S-0.5-1	Total/NA	Solid	7471A	257074

Analysis Batch: 257814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-21	DG-AN3S-3.5-4	Total/NA	Solid	7471A	257082
720-90329-22	DG-AP3S-0.5-1	Total/NA	Solid	7471A	257082
720-90329-23	DG-AP3S-3.5-4	Total/NA	Solid	7471A	257082
720-90329-24	DG-AR3S-0.5-1	Total/NA	Solid	7471A	257082
720-90329-25	DG-AR3S-3.5-4	Total/NA	Solid	7471A	257082
720-90329-26	DG-AT3S-0.5-1	Total/NA	Solid	7471A	257082
720-90329-27	DG-AT3S-3.5-4	Total/NA	Solid	7471A	257082
720-90329-28	DG-AW5S-0.5-1	Total/NA	Solid	7471A	257082
720-90329-29	DG-AW5S-3.5-4	Total/NA	Solid	7471A	257082
MB 720-257082/1-A	Method Blank	Total/NA	Solid	7471A	257082
LCS 720-257082/2-A	Lab Control Sample	Total/NA	Solid	7471A	257082
720-90329-22 MS	DG-AP3S-0.5-1	Total/NA	Solid	7471A	257082
720-90329-22 MSD	DG-AP3S-0.5-1	Total/NA	Solid	7471A	257082

General Chemistry

Analysis Batch: 257120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-1	DG-T3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-2	DG-T3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-3	DG-V3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-4	DG-V3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-5	DG-X3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-6	DG-X3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-7	DG-Z3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-8	DG-Z3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-9	DG-AB3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-10	DG-AB3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-11	DG-AB3S-6.5-7	Total/NA	Solid	Moisture	
720-90329-12	DG-AD3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-13	DG-AD3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-14	DG-AF3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-15	DG-AF3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-16	DG-AH3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-17	DG-AH3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-18	DG-AJ3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-19	DG-AJ3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-20	DG-AN3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-1 DU	DG-T3S-0.5-1	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-21	DG-AN3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-22	DG-AP3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-22 DU	DG-AP3S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 257215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90329-23	DG-AP3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-24	DG-AR3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-25	DG-AR3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-26	DG-AT3S-0.5-1	Total/NA	Solid	Moisture	
720-90329-27	DG-AT3S-3.5-4	Total/NA	Solid	Moisture	
720-90329-28	DG-AW5S-0.5-1	Total/NA	Solid	Moisture	
720-90329-29	DG-AW5S-3.5-4	Total/NA	Solid	Moisture	
720-90329-24 DU	DG-AR3S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Client Sample ID: DG-T3S-0.5-1

Date Collected: 12/14/18 08:05
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 12:58	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 16:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-T3S-3.5-4

Date Collected: 12/14/18 08:09
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:12	BKR	TAL PLS
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257280	12/19/18 12:44	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		4	257796	12/28/18 17:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-V3S-0.5-1

Date Collected: 12/14/18 08:25
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:27	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-V3S-3.5-4

Date Collected: 12/14/18 08:29
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:31	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 16:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-X3S-0.5-1

Lab Sample ID: 720-90329-5

Date Collected: 12/14/18 08:47

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:36	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 16:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-X3S-3.5-4

Lab Sample ID: 720-90329-6

Date Collected: 12/14/18 08:52

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:41	BKR	TAL PLS
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257280	12/19/18 12:49	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 16:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-Z3S-0.5-1

Lab Sample ID: 720-90329-7

Date Collected: 12/14/18 09:03

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:46	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 16:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-Z3S-3.5-4

Lab Sample ID: 720-90329-8

Date Collected: 12/14/18 09:07

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:51	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		4	257796	12/28/18 17:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AB3S-0.5-1

Lab Sample ID: 720-90329-9

Date Collected: 12/14/18 09:27

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:56	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AB3S-3.5-4

Lab Sample ID: 720-90329-10

Date Collected: 12/14/18 09:32

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 14:00	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		4	257796	12/28/18 17:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AB3S-6.5-7

Lab Sample ID: 720-90329-11

Date Collected: 12/14/18 09:45

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 14:05	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AD3S-0.5-1

Lab Sample ID: 720-90329-12

Date Collected: 12/14/18 10:15

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 14:10	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AD3S-3.5-4

Lab Sample ID: 720-90329-13

Date Collected: 12/14/18 10:18

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 14:24	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		10	257796	12/28/18 17:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AF3S-0.5-1

Lab Sample ID: 720-90329-14

Date Collected: 12/14/18 11:08

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 14:29	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AF3S-3.5-4

Lab Sample ID: 720-90329-15

Date Collected: 12/14/18 11:12

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 14:34	BKR	TAL PLS
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257280	12/19/18 12:53	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AH3S-0.5-1

Lab Sample ID: 720-90329-16

Date Collected: 12/14/18 11:22

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 14:39	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AH3S-3.5-4

Lab Sample ID: 720-90329-17

Date Collected: 12/14/18 11:25

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 14:43	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AJ3S-0.5-1

Lab Sample ID: 720-90329-18

Date Collected: 12/14/18 13:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 14:48	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AJ3S-3.5-4

Lab Sample ID: 720-90329-19

Date Collected: 12/14/18 13:05

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:03	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AN3S-0.5-1

Lab Sample ID: 720-90329-20

Date Collected: 12/14/18 13:57

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257069	12/17/18 10:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257197	12/18/18 13:08	BKR	TAL PLS
Total/NA	Prep	7471A			257074	12/28/18 11:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257796	12/28/18 17:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257120	12/17/18 17:56	ECB	TAL PLS

Client Sample ID: DG-AN3S-3.5-4

Lab Sample ID: 720-90329-21

Date Collected: 12/14/18 14:01

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 16:07	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 12:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257125	12/17/18 19:03	ECB	TAL PLS

Client Sample ID: DG-AP3S-0.5-1

Lab Sample ID: 720-90329-22

Date Collected: 12/14/18 14:20

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 16:35	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 12:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257125	12/17/18 19:03	ECB	TAL PLS

Client Sample ID: DG-AP3S-3.5-4

Lab Sample ID: 720-90329-23

Date Collected: 12/14/18 14:24

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 16:40	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 12:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-AR3S-0.5-1

Lab Sample ID: 720-90329-24

Date Collected: 12/14/18 14:36

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 16:44	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 12:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-AR3S-3.5-4

Lab Sample ID: 720-90329-25

Date Collected: 12/14/18 14:40

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 16:49	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 12:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-AT3S-0.5-1

Lab Sample ID: 720-90329-26

Date Collected: 12/14/18 14:53

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 16:53	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 12:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-AT3S-3.5-4

Lab Sample ID: 720-90329-27

Date Collected: 12/14/18 14:57

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 16:58	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-AW5S-0.5-1

Lab Sample ID: 720-90329-28

Date Collected: 12/14/18 15:10

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:03	BKR	TAL PLS
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		10	257279	12/19/18 12:35	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Client Sample ID: DG-AW5S-3.5-4
Date Collected: 12/14/18 15:15
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90329-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:07	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90329-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90329-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90329-1	DG-T3S-0.5-1	Solid	12/14/18 08:05	12/14/18 18:00
720-90329-2	DG-T3S-3.5-4	Solid	12/14/18 08:09	12/14/18 18:00
720-90329-3	DG-V3S-0.5-1	Solid	12/14/18 08:25	12/14/18 18:00
720-90329-4	DG-V3S-3.5-4	Solid	12/14/18 08:29	12/14/18 18:00
720-90329-5	DG-X3S-0.5-1	Solid	12/14/18 08:47	12/14/18 18:00
720-90329-6	DG-X3S-3.5-4	Solid	12/14/18 08:52	12/14/18 18:00
720-90329-7	DG-Z3S-0.5-1	Solid	12/14/18 09:03	12/14/18 18:00
720-90329-8	DG-Z3S-3.5-4	Solid	12/14/18 09:07	12/14/18 18:00
720-90329-9	DG-AB3S-0.5-1	Solid	12/14/18 09:27	12/14/18 18:00
720-90329-10	DG-AB3S-3.5-4	Solid	12/14/18 09:32	12/14/18 18:00
720-90329-11	DG-AB3S-6.5-7	Solid	12/14/18 09:45	12/14/18 18:00
720-90329-12	DG-AD3S-0.5-1	Solid	12/14/18 10:15	12/14/18 18:00
720-90329-13	DG-AD3S-3.5-4	Solid	12/14/18 10:18	12/14/18 18:00
720-90329-14	DG-AF3S-0.5-1	Solid	12/14/18 11:08	12/14/18 18:00
720-90329-15	DG-AF3S-3.5-4	Solid	12/14/18 11:12	12/14/18 18:00
720-90329-16	DG-AH3S-0.5-1	Solid	12/14/18 11:22	12/14/18 18:00
720-90329-17	DG-AH3S-3.5-4	Solid	12/14/18 11:25	12/14/18 18:00
720-90329-18	DG-AJ3S-0.5-1	Solid	12/14/18 13:00	12/14/18 18:00
720-90329-19	DG-AJ3S-3.5-4	Solid	12/14/18 13:05	12/14/18 18:00
720-90329-20	DG-AN3S-0.5-1	Solid	12/14/18 13:57	12/14/18 18:00
720-90329-21	DG-AN3S-3.5-4	Solid	12/14/18 14:01	12/14/18 18:00
720-90329-22	DG-AP3S-0.5-1	Solid	12/14/18 14:20	12/14/18 18:00
720-90329-23	DG-AP3S-3.5-4	Solid	12/14/18 14:24	12/14/18 18:00
720-90329-24	DG-AR3S-0.5-1	Solid	12/14/18 14:36	12/14/18 18:00
720-90329-25	DG-AR3S-3.5-4	Solid	12/14/18 14:40	12/14/18 18:00
720-90329-26	DG-AT3S-0.5-1	Solid	12/14/18 14:53	12/14/18 18:00
720-90329-27	DG-AT3S-3.5-4	Solid	12/14/18 14:57	12/14/18 18:00
720-90329-28	DG-AW5S-0.5-1	Solid	12/14/18 15:10	12/14/18 18:00
720-90329-29	DG-AW5S-3.5-4	Solid	12/14/18 15:15	12/14/18 18:00

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

720-90329

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187361
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-14-18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnles@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			720-90329 Chain of Custody
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-T3S-0.5-1	12/14/18 CB	0805	G	S	1	N		X	
2	DG-T3S-3.5-4		0809				N		X	
3	DG-V3S-0.5-1		0825				N		X	
4	DG-V3S-3.5-4		0829				N		X	
5	DG-X3S-0.5-1		0847				N		X	
6	DG-X3S-3.5-4		0852				N		X	
7	DG-Z3S-0.5-1		0903				N		X	
8	DG-Z3S-3.5-4		0907				N		X	
9	DG-AB3S-0.5-1		0927				N		X	
10	DG-AB3S-3.5-4		0932				N		X	
11	DG-AB3S-6.5-7		0945				N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

2.0°C, 0.9°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C): Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company: Geosyntec	Date/Time: 12.14.18 1547	Received by	Company: TA PLS	Date/Time: 12-14-18 1554
Relinquished by	Company: TA PLS	Date/Time: 12-14-18 1815	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 12/14/18 1820

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-91329

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
167361
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/14/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George W. Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnias@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
12	DG-AD3S 0.5-1.0	~~12-14-18~~ CH 12/14/18	1015	G	S	1	N		X	
13	DG-AD3S 3.5-4.0		1018				N		X	
14	DG-AF3S 0.5-1.0		1108				N		X	
15	DG-AF3S 3.5-4.0		1112				N		X	
16	DG-AH3S 0.5-1.0		1122				N		X	
17	DG-AH3S 3.5-4.0		1125				N		X	
18	DG-AJ3S 0.5-1.0		1300				N		X	
19	DG-AJ3S 3.5-4.0		1305				N		X	
20	DG-AN3S 0.5-1.0		1357				N		X	
21	DG-AN3S 3.5-4.0		1401				N		X	
22	DG-AP3S 0.5-1.0		1420				N		X	
23	DG-AP3S 3.5-4.0		1424				N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company GEOSYNTEC	Date/Time 12-14-18 1554	Received by	Company TA PLS	Date/Time 12-14-18 15:54
Relinquished by	Company TA PLS	Date/Time 12-14-18 1800	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/14/18 1800

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600.3002

720-90329

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18361
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12.14.18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahntas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification (12/14/18)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
24	DG-AR3S-0.5-1	12/14	1436	G	S	1	N		X	
25	DG-AR3S-3.5-4		1440				N		X	
26	DG-AT3S-0.5-1		1453				N		X	
27	DG-AT3S-3.5-4		1457				N		X	
28	DG AW3S-0.5-1		1510				N		X	
29	DG AW5S-3.5-4	↓	1515	↓	↓	↓	N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company GEOSYNTEC	Date/Time 12.14.18 1500	Received by	Company TA PLS	Date/Time 12-14-18 1535
Relinquished by	Company TA PLS	Date/Time 12-14-18 1600	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/14/18 1800

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90329-1

Login Number: 90329
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Bill Chen <BChen@Geosyntec.com>
Sent: Tuesday, December 18, 2018 3:35 PM
To: Patel, Urvashi
Cc: Miranda Kahrilas; Anthony Smith; Krzysztof Jesionek; Bondoc, Christian M.
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90329-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Urvashi,

Please also revise samples:

- 720-90329-28 from "DG-A**W**3S-0.5-1" to "DG-A**V**3S-0.5-1"
- 720-90329-29 from "DG-A**W**3S-3.5-4" to "DG-A**V**3S-3.5-4"

Apologies for not catching on the first round. Many thanks!

Best,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Monday, December 17, 2018 10:22 PM
To: Bill Chen <BChen@Geosyntec.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Cc: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90329-1 Brisbane OU-2 Data Gap Investigation

Hi Bill
We'll correct sample ID as indicated below.

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bill Chen [mailto:BChen@Geosyntec.com]
Sent: Monday, December 17, 2018 7:02 PM
To: Patel, Urvashi
Cc: Miranda Kahrilas; Anthony Smith; Krzysztof Jesionek
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90329-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Urvashi,

For samples 720-90329-12 through -22, please revise the client ID so that there is no ".0" at the end of the sample name. E.g. "DG-AD3S-0.5-1.0" would change to "DG-AD3S-0.5-1".

Many thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Monday, December 17, 2018 10:25 AM
To: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90329-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90329-1; Brisbane OU-2 Data Gap Investigation

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):

(#28) DG-AW5S-0.5-1.0. The container labels list sample time: 1515, while the COC lists sample time: 1510.
(#29) DG-AW5S-3.5-4.0. The container labels list sample time: 1510, while the COC lists sample time: 1515.
Please confirm the correct sampling time.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [489117]
Attachments: 3

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Monday, December 17, 2018 11:23 AM
To: Bondoc, Christian M.; Krzysztof Jesionek; Anthony Smith
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90329-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hello,

Please use the times presented on the COC, not the ones on the sample jars.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Monday, December 17, 2018 10:25 AM
To: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90329-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90329-1; Brisbane OU-2 Data Gap Investigation

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#28) DG-AW5S-0.5-1.0. The container labels list sample time: 1515, while the COC lists sample time: 1510.
(#29) DG-AW5S-3.5-4.0. The container labels list sample time: 1510, while the COC lists sample time: 1515.
Please confirm the correct sampling time.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [489117]
Attachments: 3

Patel, Urvashi

From: Todd Olsen <TOlsen@Geosyntec.com>
Sent: Friday, January 11, 2019 1:57 PM
To: Patel, Urvashi
Subject: RE: TestAmerica Job ID: 720-90329-1 question

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

-External Email-

Hi Urvashi,

I have another request for Job 720-90329-1. After reviewing the sampling information we need to change the sample IDs for DG-AV3S-0.5-1 and DG-AV3S-3.5-4 to DG-AW5S-0.5-1 and DG-AW5S-3.5-4, respectively. The email asking you to use DG-AV3S-0.5-1 and DG-AV3S-3.5-4 was an error. Could you remove that email in the revised report? Also, could you give an estimate on when you will be able to send to revised report?

Let me know if you have any questions.

Thanks,
Todd

From: Todd Olsen
Sent: Friday, January 11, 2019 9:00 AM
To: 'urvashi.patel@testamericainc.com' <urvashi.patel@testamericainc.com>
Subject: TestAmerica Job ID: 720-90329-1 question

Hi Urvashi,

The copper, silver and vanadium results for sample DG-AV3S-0.5-1 were ^ flagged: ^ ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Please provide additional information about which QC sample had the issue and whether it had high or low recoveries, if applicable.

Thanks,

Todd Olsen
Senior Staff Scientist
Geosyntec Consultants, Inc.
3043 Gold Canal Drive Suite 100
Rancho Cordova, CA 95670
Phone: 916.637.8343 Mobile: 406.461.8628

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90330-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/2/2019 5:48:29 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90330-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90330-1

Comments
No additional comments.

Receipt
The samples were received on 12/14/2018 6:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9º C and 2.0º C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#10) DG-AA2-0.5-1. The container labels list DG-AA2S-0.5-1, while the COC lists DG-AA2-0.5-1.
(#11) DG-AA2-3.5-4. The container labels list DG-AA2S-3.5-4, while the COC lists DG-AA2-0.5-1.

The client was contacted, and the lab was instructed to follow container labels.

Field sampler name is not listed on the COC.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257080 and analytical batch 720-257220 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-W2S-0.5-1 (720-90330-1), DG-W2S-3.5-4 (720-90330-2), DG-W2S-8.5-9 (720-90330-3), DG-X2S-0.5-1 (720-90330-4), DG-X2S-3.5-4 (720-90330-5), DG-Y2S-0.5-1 (720-90330-6), DG-Y2S-3.5-4 (720-90330-7), DG-Z2S-0.5-1 (720-90330-8), DG-Z2S-3.5-4 (720-90330-9), DG-AA2S-0.5-1 (720-90330-10), DG-AA2S-3.5-4 (720-90330-11), DG-AB2S-0.5-1 (720-90330-12), DG-AB2S-3.5-4 (720-90330-13), DG-AB2S-7-7.5 (720-90330-14), DG-AC2S-3.5-4 (720-90330-16), DG-AD2S-3.5-4 (720-90330-18), DUP-08 (720-90330-19),DG-AE2S-0.5-1 (720-90330-20), DG-AE2S-3.5-4 (720-90330-21), DG-AF2S-0.5-1 (720-90330-22), DG-AF2S-3.5-4 (720-90330-23), DUP-09 (720-90330-24), DG-AG2S-0.5-1 (720-90330-25), DG-AG2S-3.5-4 (720-90330-26), DG-AG2S-10-10.5 (720-90330-27), DG-AH2S-0.5-1 (720-90330-28), DUP-10 (720-90330-30), DG-AI2S-0.5-1 (720-90330-31), DG-AI2S-3.5-4 (720-90330-32), DG-AJ2S-0.5-1 (720-90330-33), DG-AK2S-0.5-1 (720-90330-35), DG-AK2S-3.5-4 (720-90330-36), (720-90311-A-2-D) and (720-90329-A-21-D). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257203 and analytical batch 720-257260 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The method blank for preparation batch 720-257080 and analytical batch 720-257220 contained Antimony, Nickel, and Silver above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-257203 and analytical batch 720-257260 contained Silver above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257190 and analytical batch 720-257357 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257230 and analytical batch 720-257418 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Job ID: 720-90330-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257418 was outside control limits Ba-46%: (720-90330-A-17-F SD)

Method(s) 6010B: The method blank for preparation batch 720-257230 and analytical batch 720-257418 contained Arsenic and Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-W2S-0.5-1 — Lab Sample ID: 720-90330-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.6	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	33		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	96		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	2.7		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	48		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	310		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	360		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	4.6		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	57	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Silver	0.80	J B	0.94	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	400		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.49		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W2S-3.5-4 — Lab Sample ID: 720-90330-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3	B	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	29		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	120		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.34		0.31	0.099	mg/Kg	4		6010B	Total/NA
Chromium	97		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	48		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	17		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	140	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.43	J B	0.76	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	65		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.49		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W2S-8.5-9 — Lab Sample ID: 720-90330-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.1	B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	41		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	51		1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.71		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	31		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	44		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	8.9		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.47	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	41	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.55	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Silver	0.29	J B	0.87	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.7	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W2S-8.5-9 (Continued) — Lab Sample ID: 720-90330-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	74		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.049		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X2S-0.5-1 — Lab Sample ID: 720-90330-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.0	B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	560		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	100		1.4	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.31	J	0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	27		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	160		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	220		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	31	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.42	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Silver	1.0	B	0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	220		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	3.1		0.062	0.0091	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-X2S-3.5-4 — Lab Sample ID: 720-90330-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7	B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	8.8		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	35		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.63		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.40		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	30		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	44		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	25		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.29	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	32	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.88	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.33	J B	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	110		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.036		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y2S-0.5-1 — Lab Sample ID: 720-90330-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	92		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	69		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.32	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	24		1.8	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y2S-0.5-1 (Continued) — Lab Sample ID: 720-90330-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	7.5		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	110		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	110		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.48	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.35	J B	0.89	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	110		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.46		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y2S-3.5-4 — Lab Sample ID: 720-90330-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4	B	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	130		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	72		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.35		0.23	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.036	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	65		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	43		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	25		1.2	0.24	mg/Kg	4		6010B	Total/NA
Nickel	86	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	0.44	J B	0.58	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	73		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z2S-0.5-1 — Lab Sample ID: 720-90330-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	74		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	95		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.47		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	27		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	120		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	190		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.79	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	27	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.68	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Silver	0.56	J B	0.90	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	180		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z2S-3.5-4 — Lab Sample ID: 720-90330-9

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z2S-3.5-4 (Continued) — Lab Sample ID: 720-90330-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9	B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	99		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	90		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Chromium	92		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	29		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	7.1		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	170	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.42	J B	0.86	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	46		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	7.6		0.15	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-AA2S-0.5-1 — Lab Sample ID: 720-90330-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	130		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	70		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	16		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	220		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	230		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	14		1.7	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.66	J B	0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	96		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	150		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA2S-3.5-4 — Lab Sample ID: 720-90330-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	37		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	81		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Chromium	81		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	30		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	4.3		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	120		1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.30	J B	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	46		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.46		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB2S-0.5-1 — Lab Sample ID: 720-90330-12

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB2S-0.5-1 (Continued) — Lab Sample ID: 720-90330-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.50	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	2.1	J	2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	58		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.082	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	10		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	140		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	49		1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	9.3		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.37	J B	0.65	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	91		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	80		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.094		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB2S-3.5-4 — Lab Sample ID: 720-90330-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.7		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	95		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	98		1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.22	0.070	mg/Kg	4		6010B	Total/NA
Chromium	120		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	32		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	5.8		1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	150		1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.26	J B	0.54	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	52		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	1.5		0.031	0.0046	mg/Kg	2		7471A	Total/NA

Client Sample ID: DG-AB2S-7-7.5 — Lab Sample ID: 720-90330-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	48	B	2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	57	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.60		0.21	0.069	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.27	0.026	mg/Kg	4		6010B	Total/NA
Chromium	49		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	46		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	15		1.1	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.70	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	62		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.1	0.14	mg/Kg	4		6010B	Total/NA
Zinc	110		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC2S-0.5-1 — Lab Sample ID: 720-90330-15

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC2S-0.5-1 (Continued) — Lab Sample ID: 720-90330-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.1	J B	3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	31	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	8.3		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.1		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	120		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	20		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.30	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	3.6		1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	85		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	54		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC2S-3.5-4 — Lab Sample ID: 720-90330-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	62	B	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	97	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.30	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	160		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	24		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	5.0		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	210		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	49		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	1.6		0.057	0.0083	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AD2S-0.5-1 — Lab Sample ID: 720-90330-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.97	J F1	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	21	B F1	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	46	B F1 F2	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.61		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	36	F1 F2	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	240	F2	5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	110	F1 F2	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	9.2		1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.22	J	0.94	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	69	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	160	F1 F2	5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AD2S-3.5-4 — Lab Sample ID: 720-90330-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15	B	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	72	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.30	0.029	mg/Kg	4		6010B	Total/NA
Chromium	100		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	22		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	3.6		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.43	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	120		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	37		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.45		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-08 — Lab Sample ID: 720-90330-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.45	J	1.2	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	17	B	2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	95	B	1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.25	0.081	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	92		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	24		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	4.8		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.55	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	120		1.2	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	45		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.77		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE2S-0.5-1 — Lab Sample ID: 720-90330-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.7		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	18		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	130		1.9	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	20		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	260		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	330		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	48		1.9	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.20	J	0.97	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	250		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.27		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE2S-3.5-4 — Lab Sample ID: 720-90330-21

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE2S-3.5-4 (Continued) — Lab Sample ID: 720-90330-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	7.4		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	70		1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.21	0.067	mg/Kg	4		6010B	Total/NA
Chromium	92		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	30		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	3.2		1.0	0.22	mg/Kg	4		6010B	Total/NA
Nickel	110		1.0	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.37	J	2.1	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	39		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	2.2		0.065	0.0095	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AF2S-0.5-1 — Lab Sample ID: 720-90330-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.8		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	16		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	190		1.3	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	23		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	8.4		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	170		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	520		1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	2.6		1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	29		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.83	J	2.7	0.40	mg/Kg	4		6010B	Total/NA
Silver	0.28	J	0.67	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	46		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	290		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.27		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF2S-3.5-4 — Lab Sample ID: 720-90330-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	8.3		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	79		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.35		0.32	0.10	mg/Kg	4		6010B	Total/NA
Chromium	24		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	41		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	16		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	41		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.57	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.20	J	0.79	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	85		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	1.2		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DUP-09 — Lab Sample ID: 720-90330-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	110		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.45		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	17		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.1		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	140		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	220		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	20		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	160		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG2S-0.5-1 — Lab Sample ID: 720-90330-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.8		1.4	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	160		1.4	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	2.4		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	31		1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	270		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	350		1.4	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	1.9		1.4	0.17	mg/Kg	4		6010B	Total/NA
Nickel	33		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.99	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Silver	0.86		0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.4	0.18	mg/Kg	4		6010B	Total/NA
Zinc	490		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.52		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG2S-3.5-4 — Lab Sample ID: 720-90330-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.52	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	38		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	78		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	21		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	4.8		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	18		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	130		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	2.0		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	47		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	53		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.36		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AG2S-10-10.5 — Lab Sample ID: 720-90330-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	14	B	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	25	B	1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	29		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	21		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	17		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.64	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	25		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	79		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.037		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH2S-0.5-1 — Lab Sample ID: 720-90330-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.9		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	8.0	B	3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	84	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	2.2		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	30		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	230		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	190		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	2.3		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	23		1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	420		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH2S-3.5-4 — Lab Sample ID: 720-90330-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.41	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	21	B	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	86	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	30		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	13		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	14		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.32	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	40		1.5	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	48		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DUP-10 — Lab Sample ID: 720-90330-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	30	B	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	96	B	1.9	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.16	J	0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	81		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	22		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	16		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	91		1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	62		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.56		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI2S-0.5-1 — Lab Sample ID: 720-90330-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	55	B	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	92	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.74		0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	41		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	110		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	150		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	43		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	170		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	2.0		0.064	0.0094	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AI2S-3.5-4 — Lab Sample ID: 720-90330-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.49	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	69	B	2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	33	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.30	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	9.6		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	110		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	370		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	5.4		1.4	0.15	mg/Kg	4		6010B	Total/NA
Silver	0.22	J	0.72	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	83		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.064		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ2S-0.5-1 — Lab Sample ID: 720-90330-33

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ2S-0.5-1 (Continued) — Lab Sample ID: 720-90330-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13	B	3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	44	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.33	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	9.1		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	93		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	41		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.46	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	5.9		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	110		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.89		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ2S-3.5-4 — Lab Sample ID: 720-90330-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.2		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	180	B	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.34	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	32		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	110		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	960		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.47	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	40		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	110		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	1.3		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK2S-0.5-1 — Lab Sample ID: 720-90330-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.4	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	7.7	B	2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	86	B	1.4	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.80		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	14		1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	130		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	130		1.4	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.91	J	1.4	0.17	mg/Kg	4		6010B	Total/NA
Nickel	11		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	89		1.4	0.18	mg/Kg	4		6010B	Total/NA
Zinc	190		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK2S-3.5-4 — Lab Sample ID: 720-90330-36

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AK2S-3.5-4 (Continued)

Lab Sample ID: 720-90330-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.70	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	45	B	2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	32	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	7.9		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	84		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	15		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.55	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	4.7		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	73		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.071		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W2S-0.5-1

Date Collected: 12/14/18 08:10
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.6	B	1.9	0.31	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Arsenic	33		3.8	0.32	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Barium	96		1.9	0.27	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Beryllium	ND		0.38	0.12	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Cadmium	2.7		0.47	0.047	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Chromium	48		1.9	0.20	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Cobalt	12		0.75	0.075	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Copper	310		5.7	2.7	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Lead	360		1.9	0.40	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Molybdenum	4.6		1.9	0.24	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Nickel	57	B	1.9	0.19	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Selenium	1.2	J	3.8	0.57	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Silver	0.80	J B	0.94	0.19	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Thallium	ND		1.9	0.55	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Vanadium	38		1.9	0.26	mg/Kg		12/18/18 08:53	12/18/18 17:12	4
Zinc	400		5.7	2.4	mg/Kg		12/18/18 08:53	12/18/18 17:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.016	0.0023	mg/Kg		12/31/18 09:37	12/31/18 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.5		0.1	0.05	%			12/18/18 23:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-W2S-3.5-4

Date Collected: 12/14/18 08:10
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	B	1.5	0.25	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Arsenic	29		3.1	0.26	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Barium	120		1.5	0.22	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Beryllium	0.34		0.31	0.099	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Cadmium	ND		0.38	0.038	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Chromium	97		1.5	0.16	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Cobalt	20		0.61	0.061	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Copper	48		4.6	2.2	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Lead	17		1.5	0.32	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Molybdenum	ND		1.5	0.20	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Nickel	140	B	1.5	0.16	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Selenium	ND		3.1	0.46	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Silver	0.43	J B	0.76	0.15	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Thallium	ND		1.5	0.44	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Vanadium	51		1.5	0.21	mg/Kg		12/18/18 08:53	12/18/18 17:16	4
Zinc	65		4.6	1.9	mg/Kg		12/18/18 08:53	12/18/18 17:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.016	0.0024	mg/Kg		12/31/18 09:37	12/31/18 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.9		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-W2S-8.5-9

Date Collected: 12/14/18 08:10
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.1	B	1.7	0.29	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Arsenic	41		3.5	0.30	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Barium	51		1.7	0.25	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Beryllium	0.71		0.35	0.11	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Cadmium	0.12	J	0.43	0.043	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Chromium	31		1.7	0.18	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Cobalt	19		0.70	0.070	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Copper	44		5.2	2.5	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Lead	8.9		1.7	0.37	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Molybdenum	0.47	J	1.7	0.22	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Nickel	41	B	1.7	0.18	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Selenium	0.55	J	3.5	0.52	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Silver	0.29	J B	0.87	0.18	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Thallium	ND		1.7	0.50	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Vanadium	35		1.7	0.24	mg/Kg		12/18/18 08:53	12/18/18 17:30	4
Zinc	74		5.2	2.2	mg/Kg		12/18/18 08:53	12/18/18 17:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.016	0.0023	mg/Kg		12/31/18 09:37	12/31/18 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.0		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-X2S-0.5-1

Date Collected: 12/14/18 08:35
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0	B	1.4	0.23	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Arsenic	560		2.7	0.23	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Barium	100		1.4	0.19	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Beryllium	ND		0.27	0.089	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Cadmium	0.31	J	0.34	0.034	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Chromium	27		1.4	0.15	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Cobalt	9.4		0.55	0.055	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Copper	160		4.1	2.0	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Lead	220		1.4	0.29	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Molybdenum	0.20	J	1.4	0.18	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Nickel	31	B	1.4	0.14	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Selenium	0.42	J	2.7	0.41	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Silver	1.0	B	0.68	0.14	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Thallium	ND		1.4	0.40	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Vanadium	69		1.4	0.19	mg/Kg		12/18/18 08:53	12/18/18 17:35	4
Zinc	220		4.1	1.7	mg/Kg		12/18/18 08:53	12/18/18 17:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.1		0.062	0.0091	mg/Kg		12/31/18 09:37	12/31/18 13:43	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-X2S-3.5-4

Date Collected: 12/14/18 08:35
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	B	1.6	0.27	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Arsenic	8.8		3.2	0.27	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Barium	35		1.6	0.23	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Beryllium	0.63		0.32	0.10	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Cadmium	0.40		0.40	0.040	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Chromium	30		1.6	0.17	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Cobalt	16		0.65	0.065	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Copper	44		4.8	2.3	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Lead	25		1.6	0.34	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Molybdenum	0.29	J	1.6	0.21	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Nickel	32	B	1.6	0.16	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Selenium	0.88	J	3.2	0.48	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Silver	0.33	J B	0.81	0.16	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Thallium	ND		1.6	0.47	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Vanadium	39		1.6	0.22	mg/Kg		12/18/18 08:53	12/18/18 17:39	4
Zinc	110		4.8	2.0	mg/Kg		12/18/18 08:53	12/18/18 17:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.015	0.0021	mg/Kg		12/31/18 09:37	12/31/18 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-Y2S-0.5-1

Date Collected: 12/14/18 09:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2	B	1.8	0.30	mg/Kg		12/18/18 08:53	12/19/18 12:39	4
Arsenic	92		3.6	0.30	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Barium	69		1.8	0.25	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Beryllium	ND		0.36	0.12	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Cadmium	0.32	J	0.45	0.044	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Chromium	24		1.8	0.19	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Cobalt	7.5		0.71	0.071	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Copper	110		5.4	2.5	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Lead	110		1.8	0.38	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Molybdenum	0.48	J	1.8	0.23	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Nickel	24	B	1.8	0.18	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Selenium	ND		3.6	0.54	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Silver	0.35	J B	0.89	0.18	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Thallium	ND		1.8	0.52	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Vanadium	36		1.8	0.24	mg/Kg		12/18/18 08:53	12/18/18 17:44	4
Zinc	110		5.4	2.3	mg/Kg		12/18/18 08:53	12/18/18 17:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46		0.015	0.0021	mg/Kg		12/31/18 09:37	12/31/18 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.05	%			12/18/18 23:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-Y2S-3.5-4

Date Collected: 12/14/18 09:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4	B	1.2	0.19	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Arsenic	130		2.3	0.20	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Barium	72		1.2	0.17	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Beryllium	0.35		0.23	0.076	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Cadmium	0.036	J	0.29	0.029	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Chromium	65		1.2	0.12	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Cobalt	17		0.47	0.047	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Copper	43		3.5	1.7	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Lead	25		1.2	0.24	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Molybdenum	ND		1.2	0.15	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Nickel	86	B	1.2	0.12	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Selenium	ND		2.3	0.35	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Silver	0.44	J B	0.58	0.12	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Thallium	ND		1.2	0.34	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Vanadium	52		1.2	0.16	mg/Kg		12/18/18 08:53	12/18/18 17:49	4
Zinc	73		3.5	1.5	mg/Kg		12/18/18 08:53	12/18/18 17:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.014	0.0021	mg/Kg		12/31/18 09:37	12/31/18 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.3		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-Z2S-0.5-1

Date Collected: 12/14/18 09:25
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1	B	1.8	0.30	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Arsenic	74		3.6	0.31	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Barium	95		1.8	0.26	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Beryllium	ND		0.36	0.12	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Cadmium	0.47		0.45	0.045	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Chromium	27		1.8	0.19	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Cobalt	10		0.72	0.072	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Copper	120		5.4	2.6	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Lead	190		1.8	0.38	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Molybdenum	0.79	J	1.8	0.23	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Nickel	27	B	1.8	0.18	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Selenium	0.68	J	3.6	0.54	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Silver	0.56	J B	0.90	0.18	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Thallium	ND		1.8	0.52	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Vanadium	67		1.8	0.25	mg/Kg		12/18/18 08:53	12/18/18 17:53	4
Zinc	180		5.4	2.3	mg/Kg		12/18/18 08:53	12/18/18 17:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.016	0.0024	mg/Kg		12/31/18 09:37	12/31/18 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.3		0.1	0.05	%			12/18/18 23:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-Z2S-3.5-4
Date Collected: 12/14/18 09:25
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-9
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	B	1.7	0.29	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Arsenic	99		3.4	0.29	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Barium	90		1.7	0.24	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Beryllium	0.13	J	0.34	0.11	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Cadmium	ND		0.43	0.043	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Chromium	92		1.7	0.18	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Cobalt	17		0.69	0.069	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Copper	29		5.2	2.5	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Lead	7.1		1.7	0.36	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Molybdenum	ND		1.7	0.22	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Nickel	170	B	1.7	0.18	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Selenium	ND		3.4	0.52	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Silver	0.42	J B	0.86	0.17	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Thallium	ND		1.7	0.50	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Vanadium	64		1.7	0.23	mg/Kg		12/18/18 08:53	12/18/18 16:12	4
Zinc	46		5.2	2.2	mg/Kg		12/18/18 08:53	12/18/18 16:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.6		0.15	0.023	mg/Kg		12/31/18 09:37	12/31/18 13:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-AA2S-0.5-1

Date Collected: 12/14/18 09:40
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9		1.7	0.28	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Arsenic	130		3.3	0.28	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Barium	70		1.7	0.24	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Beryllium	ND		0.33	0.11	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Cadmium	0.36	J	0.42	0.041	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Chromium	16		1.7	0.18	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Cobalt	11		0.67	0.067	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Copper	220		5.0	2.4	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Lead	230		1.7	0.35	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Molybdenum	ND		1.7	0.21	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Nickel	14		1.7	0.17	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Selenium	ND		3.3	0.50	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Silver	0.66	J B	0.83	0.17	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Thallium	ND		1.7	0.48	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Vanadium	96		1.7	0.23	mg/Kg		12/18/18 19:09	12/19/18 11:40	4
Zinc	150		5.0	2.1	mg/Kg		12/18/18 19:09	12/19/18 11:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.016	0.0023	mg/Kg		12/31/18 09:37	12/31/18 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-AA2S-3.5-4

Date Collected: 12/14/18 09:40
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1		1.4	0.23	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Arsenic	37		2.8	0.23	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Barium	81		1.4	0.20	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Beryllium	0.19	J	0.28	0.090	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Cadmium	ND		0.34	0.034	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Chromium	81		1.4	0.15	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Cobalt	13		0.55	0.055	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Copper	30		4.1	2.0	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Lead	4.3		1.4	0.29	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Molybdenum	ND		1.4	0.18	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Nickel	120		1.4	0.14	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Selenium	ND		2.8	0.41	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Silver	0.30	J B	0.69	0.14	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Thallium	ND		1.4	0.40	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Vanadium	63		1.4	0.19	mg/Kg		12/18/18 19:09	12/19/18 11:44	4
Zinc	46		4.1	1.8	mg/Kg		12/18/18 19:09	12/19/18 11:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46		0.015	0.0021	mg/Kg		12/31/18 09:37	12/31/18 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.2		0.1	0.05	%			12/18/18 23:41	1

Client Sample ID: DG-AB2S-0.5-1

Date Collected: 12/14/18 11:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.3	0.21	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Arsenic	2.1	J	2.6	0.22	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Barium	58		1.3	0.18	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Beryllium	ND		0.26	0.084	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Cadmium	0.082	J	0.32	0.032	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Chromium	10		1.3	0.14	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Cobalt	9.8		0.52	0.052	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Copper	140		3.9	1.8	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Lead	49		1.3	0.27	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Molybdenum	ND		1.3	0.17	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Nickel	9.3		1.3	0.13	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Selenium	ND		2.6	0.39	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Silver	0.37	J B	0.65	0.13	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Thallium	ND		1.3	0.37	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Vanadium	91		1.3	0.18	mg/Kg		12/18/18 19:09	12/19/18 11:49	4
Zinc	80		3.9	1.6	mg/Kg		12/18/18 19:09	12/19/18 11:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.094		0.016	0.0023	mg/Kg		12/31/18 10:10	12/31/18 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/17/18 21:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AB2S-3.5-4
Date Collected: 12/14/18 11:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-13
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.1	0.18	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Arsenic	95		2.2	0.18	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Barium	98		1.1	0.15	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Beryllium	0.15	J	0.22	0.070	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Cadmium	ND		0.27	0.027	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Chromium	120		1.1	0.11	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Cobalt	17		0.43	0.043	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Copper	32		3.2	1.5	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Lead	5.8		1.1	0.23	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Molybdenum	ND		1.1	0.14	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Nickel	150		1.1	0.11	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Selenium	ND		2.2	0.32	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Silver	0.26	J B	0.54	0.11	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Thallium	ND		1.1	0.31	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Vanadium	64		1.1	0.15	mg/Kg		12/18/18 19:09	12/19/18 11:54	4
Zinc	52		3.2	1.4	mg/Kg		12/18/18 19:09	12/19/18 11:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.5		0.031	0.0046	mg/Kg		12/31/18 10:10	12/31/18 15:24	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DG-AB2S-7-7.5

Date Collected: 12/14/18 11:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.1	0.18	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Arsenic	48	B	2.1	0.18	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Barium	57	B	1.1	0.15	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Beryllium	0.60		0.21	0.069	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Cadmium	0.18	J	0.27	0.026	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Chromium	49		1.1	0.11	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Cobalt	16		0.43	0.043	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Copper	46		3.2	1.5	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Lead	15		1.1	0.22	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Molybdenum	0.70	J	1.1	0.14	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Nickel	62		1.1	0.11	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Selenium	ND		2.1	0.32	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Silver	ND		0.53	0.11	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Thallium	ND		1.1	0.31	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Vanadium	39		1.1	0.14	mg/Kg		12/19/18 08:52	12/20/18 14:48	4
Zinc	110		3.2	1.4	mg/Kg		12/19/18 08:52	12/20/18 14:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.015	0.0022	mg/Kg		12/31/18 10:10	12/31/18 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			12/17/18 21:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AC2S-0.5-1
Date Collected: 12/14/18 11:20
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-15
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.32	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Arsenic	**1.1**	**J B**	3.8	0.33	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Barium	**31**	**B**	1.9	0.27	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Beryllium	ND		0.38	0.13	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Cadmium	**0.27**	**J**	0.48	0.048	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Chromium	**8.3**		1.9	0.20	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Cobalt	**9.1**		0.77	0.077	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Copper	**120**		5.8	2.7	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Lead	**20**		1.9	0.40	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Molybdenum	**0.30**	**J**	1.9	0.25	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Nickel	**3.6**		1.9	0.20	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Selenium	ND		3.8	0.58	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Silver	ND		0.96	0.19	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Thallium	ND		1.9	0.56	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Vanadium	**85**		1.9	0.26	mg/Kg		12/19/18 08:52	12/20/18 14:53	4
Zinc	**54**		5.8	2.4	mg/Kg		12/19/18 08:52	12/20/18 14:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.014	0.0021	mg/Kg		12/31/18 10:10	12/31/18 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.05	%			12/17/18 21:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AC2S-3.5-4

Date Collected: 12/14/18 11:20
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.8	0.30	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Arsenic	62	B	3.6	0.30	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Barium	97	B	1.8	0.25	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Beryllium	0.30	J	0.36	0.12	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Cadmium	0.15	J	0.45	0.044	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Chromium	160		1.8	0.19	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Cobalt	18		0.71	0.071	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Copper	24		5.4	2.5	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Lead	5.0		1.8	0.38	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Molybdenum	1.4	J	1.8	0.23	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Nickel	210		1.8	0.18	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Selenium	ND		3.6	0.54	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Silver	ND		0.89	0.18	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Thallium	ND		1.8	0.52	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Vanadium	57		1.8	0.24	mg/Kg		12/19/18 08:52	12/20/18 14:57	4
Zinc	49		5.4	2.3	mg/Kg		12/19/18 08:52	12/20/18 14:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		0.057	0.0083	mg/Kg		12/31/18 10:10	12/31/18 15:26	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DG-AD2S-0.5-1

Date Collected: 12/14/18 11:35
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.97	J F1	1.9	0.31	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Arsenic	21	B F1	3.8	0.32	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Barium	46	B F1 F2	1.9	0.27	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Beryllium	0.22	J	0.38	0.12	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Cadmium	0.61		0.47	0.047	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Chromium	36	F1 F2	1.9	0.20	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Cobalt	9.2		0.75	0.075	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Copper	240	F2	5.7	2.7	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Lead	110	F1 F2	1.9	0.40	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Molybdenum	1.1	J	1.9	0.24	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Nickel	9.2		1.9	0.19	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Selenium	ND		3.8	0.57	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Silver	0.22	J	0.94	0.19	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Thallium	ND		1.9	0.55	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Vanadium	69	F1	1.9	0.26	mg/Kg		12/19/18 08:52	12/20/18 14:43	4
Zinc	160	F1 F2	5.7	2.4	mg/Kg		12/19/18 08:52	12/20/18 14:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.016	0.0023	mg/Kg		12/31/18 10:10	12/31/18 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.3		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DG-AD2S-3.5-4

Date Collected: 12/14/18 11:35
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.2	0.20	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Arsenic	**15**	**B**	2.4	0.20	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Barium	**72**	**B**	1.2	0.17	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Beryllium	ND		0.24	0.077	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Cadmium	**0.11**	**J**	0.30	0.029	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Chromium	**100**		1.2	0.13	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Cobalt	**14**		0.47	0.047	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Copper	**22**		3.6	1.7	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Lead	**3.6**		1.2	0.25	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Molybdenum	**0.43**	**J**	1.2	0.15	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Nickel	**120**		1.2	0.12	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Selenium	ND		2.4	0.36	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Silver	ND		0.59	0.12	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Thallium	ND		1.2	0.34	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Vanadium	**47**		1.2	0.16	mg/Kg		12/19/18 08:52	12/20/18 15:12	4
Zinc	**37**		3.6	1.5	mg/Kg		12/19/18 08:52	12/20/18 15:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**		0.016	0.0024	mg/Kg		12/31/18 10:10	12/31/18 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DUP-08

Date Collected: 12/14/18 00:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.2	0.21	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Arsenic	17	B	2.5	0.21	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Barium	95	B	1.2	0.18	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Beryllium	0.22	J	0.25	0.081	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Cadmium	0.12	J	0.31	0.031	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Chromium	92		1.2	0.13	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Cobalt	14		0.50	0.050	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Copper	24		3.7	1.8	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Lead	4.8		1.2	0.26	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Molybdenum	0.55	J	1.2	0.16	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Nickel	120		1.2	0.13	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Selenium	ND		2.5	0.37	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Silver	ND		0.62	0.13	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Thallium	ND		1.2	0.36	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Vanadium	51		1.2	0.17	mg/Kg		12/19/18 08:52	12/20/18 15:17	4
Zinc	45		3.7	1.6	mg/Kg		12/19/18 08:52	12/20/18 15:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.77		0.015	0.0022	mg/Kg		12/31/18 10:10	12/31/18 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.0		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DG-AE2S-0.5-1

Date Collected: 12/14/18 11:50
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.7		1.9	0.32	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Arsenic	18		3.9	0.33	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Barium	130		1.9	0.28	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Beryllium	ND		0.39	0.13	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Cadmium	1.1		0.49	0.048	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Chromium	20		1.9	0.21	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Cobalt	9.2		0.78	0.078	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Copper	260		5.8	2.8	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Lead	330		1.9	0.41	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Molybdenum	1.5	J	1.9	0.25	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Nickel	48		1.9	0.20	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Selenium	ND		3.9	0.58	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Silver	0.20	J	0.97	0.20	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Thallium	ND		1.9	0.56	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Vanadium	64		1.9	0.26	mg/Kg		12/19/18 09:43	12/20/18 10:49	4
Zinc	250		5.8	2.5	mg/Kg		12/19/18 09:43	12/20/18 10:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.015	0.0022	mg/Kg		12/31/18 10:10	12/31/18 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DG-AE2S-3.5-4

Date Collected: 12/14/18 11:50
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.0	0.17	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Arsenic	7.4		2.1	0.18	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Barium	70		1.0	0.15	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Beryllium	0.14	J	0.21	0.067	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Cadmium	ND		0.26	0.026	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Chromium	92		1.0	0.11	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Cobalt	12		0.41	0.041	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Copper	30		3.1	1.5	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Lead	3.2		1.0	0.22	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Molybdenum	ND		1.0	0.13	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Nickel	110		1.0	0.11	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Selenium	0.37	J	2.1	0.31	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Silver	ND		0.52	0.10	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Thallium	ND		1.0	0.30	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Vanadium	45		1.0	0.14	mg/Kg		12/19/18 09:43	12/20/18 10:54	4
Zinc	39		3.1	1.3	mg/Kg		12/19/18 09:43	12/20/18 10:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.2		0.065	0.0095	mg/Kg		12/31/18 10:10	12/31/18 15:29	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DG-AF2S-0.5-1

Date Collected: 12/14/18 13:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.8		1.3	0.22	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Arsenic	16		2.7	0.23	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Barium	190		1.3	0.19	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Beryllium	ND		0.27	0.087	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Cadmium	1.0		0.33	0.033	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Chromium	23		1.3	0.14	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Cobalt	8.4		0.53	0.053	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Copper	170		4.0	1.9	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Lead	520		1.3	0.28	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Molybdenum	2.6		1.3	0.17	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Nickel	29		1.3	0.14	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Selenium	0.83	J	2.7	0.40	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Silver	0.28	J	0.67	0.13	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Thallium	ND		1.3	0.39	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Vanadium	46		1.3	0.18	mg/Kg		12/19/18 09:43	12/20/18 11:08	4
Zinc	290		4.0	1.7	mg/Kg		12/19/18 09:43	12/20/18 11:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.015	0.0021	mg/Kg		12/31/18 10:10	12/31/18 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			12/17/18 21:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AF2S-3.5-4
Date Collected: 12/14/18 13:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-23
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.6	0.26	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Arsenic	8.3		3.2	0.27	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Barium	79		1.6	0.23	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Beryllium	0.35		0.32	0.10	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Cadmium	ND		0.40	0.039	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Chromium	24		1.6	0.17	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Cobalt	12		0.63	0.063	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Copper	41		4.8	2.3	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Lead	16		1.6	0.33	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Nickel	41		1.6	0.16	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Selenium	0.57	J	3.2	0.48	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Silver	0.20	J	0.79	0.16	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Thallium	ND		1.6	0.46	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Vanadium	26		1.6	0.22	mg/Kg		12/19/18 09:43	12/20/18 11:12	4
Zinc	85		4.8	2.0	mg/Kg		12/19/18 09:43	12/20/18 11:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.014	0.0021	mg/Kg		12/31/18 10:10	12/31/18 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DUP-09

Date Collected: 12/14/18 00:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.5	0.25	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Arsenic	12		3.0	0.26	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Barium	110		1.5	0.21	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Beryllium	ND		0.30	0.098	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Cadmium	0.45		0.38	0.037	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Chromium	17		1.5	0.16	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Cobalt	9.1		0.60	0.060	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Copper	140		4.5	2.1	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Lead	220		1.5	0.32	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Molybdenum	1.4	J	1.5	0.19	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Nickel	20		1.5	0.15	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Selenium	ND		3.0	0.45	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Silver	ND		0.75	0.15	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Thallium	ND		1.5	0.44	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Vanadium	66		1.5	0.20	mg/Kg		12/19/18 09:43	12/20/18 11:17	4
Zinc	160		4.5	1.9	mg/Kg		12/19/18 09:43	12/20/18 11:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.015	0.0022	mg/Kg		12/31/18 10:10	12/31/18 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DG-AG2S-0.5-1

Date Collected: 12/14/18 13:30
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.8		1.4	0.22	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Arsenic	11		2.7	0.23	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Barium	160		1.4	0.19	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Beryllium	ND		0.27	0.088	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Cadmium	2.4		0.34	0.034	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Chromium	31		1.4	0.14	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Cobalt	8.9		0.54	0.054	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Copper	270		4.1	1.9	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Lead	350		1.4	0.28	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Molybdenum	1.9		1.4	0.17	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Nickel	33		1.4	0.14	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Selenium	0.99	J	2.7	0.41	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Silver	0.86		0.68	0.14	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Thallium	ND		1.4	0.39	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Vanadium	41		1.4	0.18	mg/Kg		12/19/18 09:43	12/20/18 11:22	4
Zinc	490		4.1	1.7	mg/Kg		12/19/18 09:43	12/20/18 11:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.52		0.017	0.0025	mg/Kg		12/31/18 10:10	12/31/18 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.6		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DG-AG2S-3.5-4

Date Collected: 12/14/18 13:30
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.8	0.30	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Arsenic	38		3.6	0.30	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Barium	78		1.8	0.25	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Beryllium	0.17	J	0.36	0.12	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Cadmium	0.26	J	0.45	0.044	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Chromium	21		1.8	0.19	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Cobalt	4.8		0.71	0.071	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Copper	18		5.4	2.5	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Lead	130		1.8	0.38	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Molybdenum	2.0		1.8	0.23	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Nickel	47		1.8	0.18	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Selenium	ND		3.6	0.54	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Silver	ND		0.89	0.18	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Thallium	ND		1.8	0.52	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Vanadium	49		1.8	0.24	mg/Kg		12/19/18 09:43	12/20/18 11:26	4
Zinc	53		5.4	2.3	mg/Kg		12/19/18 09:43	12/20/18 11:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.014	0.0021	mg/Kg		12/31/18 10:10	12/31/18 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.5		0.1	0.05	%			12/17/18 21:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AG2S-10-10.5
Date Collected: 12/14/18 13:30
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-27
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.7	0.27	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Arsenic	14	B	3.3	0.28	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Barium	25	B	1.7	0.23	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Beryllium	0.40		0.33	0.11	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Cadmium	0.21	J	0.41	0.041	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Chromium	29		1.7	0.18	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Cobalt	14		0.66	0.066	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Copper	21		5.0	2.4	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Lead	17		1.7	0.35	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Molybdenum	0.64	J	1.7	0.21	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Nickel	25		1.7	0.17	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Selenium	ND		3.3	0.50	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Silver	ND		0.83	0.17	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Thallium	ND		1.7	0.48	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Vanadium	37		1.7	0.22	mg/Kg		12/19/18 08:52	12/20/18 15:21	4
Zinc	79		5.0	2.1	mg/Kg		12/19/18 08:52	12/20/18 15:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.017	0.0025	mg/Kg		12/31/18 10:10	12/31/18 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.05	%			12/17/18 21:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AH2S-0.5-1
Date Collected: 12/14/18 14:05
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-28
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.9		1.8	0.30	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Arsenic	8.0	B	3.7	0.31	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Barium	84	B	1.8	0.26	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Beryllium	ND		0.37	0.12	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Cadmium	2.2		0.46	0.046	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Chromium	30		1.8	0.19	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Cobalt	12		0.73	0.073	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Copper	230		5.5	2.6	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Lead	190		1.8	0.39	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Molybdenum	2.3		1.8	0.23	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Nickel	23		1.8	0.19	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Selenium	ND		3.7	0.55	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Silver	ND		0.92	0.19	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Thallium	ND		1.8	0.53	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Vanadium	110		1.8	0.25	mg/Kg		12/19/18 08:52	12/20/18 15:26	4
Zinc	420		5.5	2.3	mg/Kg		12/19/18 08:52	12/20/18 15:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.015	0.0022	mg/Kg		12/31/18 10:10	12/31/18 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.05	%			12/17/18 21:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AH2S-3.5-4
Date Collected: 12/14/18 14:05
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-29
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.5	0.25	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Arsenic	21	B	3.1	0.26	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Barium	86	B	1.5	0.22	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Beryllium	0.24	J	0.31	0.099	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Cadmium	0.13	J	0.38	0.038	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Chromium	30		1.5	0.16	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Cobalt	8.6		0.61	0.061	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Copper	13		4.6	2.2	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Lead	14		1.5	0.32	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Molybdenum	0.32	J	1.5	0.20	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Nickel	40		1.5	0.16	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Selenium	ND		3.1	0.46	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Silver	ND		0.76	0.15	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Thallium	ND		1.5	0.44	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Vanadium	22		1.5	0.21	mg/Kg		12/19/18 08:52	12/20/18 15:31	4
Zinc	48		4.6	1.9	mg/Kg		12/19/18 08:52	12/20/18 15:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.014	0.0021	mg/Kg		12/31/18 10:10	12/31/18 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.3		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DUP-10

Date Collected: 12/14/18 00:00
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.32	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Arsenic	**30**	**B**	3.9	0.33	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Barium	**96**	**B**	1.9	0.28	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Beryllium	ND		0.39	0.13	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Cadmium	**0.16**	**J**	0.49	0.048	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Chromium	**81**		1.9	0.21	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Cobalt	**15**		0.78	0.078	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Copper	**22**		5.8	2.8	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Lead	**16**		1.9	0.41	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Molybdenum	**0.40**	**J**	1.9	0.25	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Nickel	**91**		1.9	0.20	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Selenium	ND		3.9	0.58	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Silver	ND		0.97	0.20	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Thallium	ND		1.9	0.56	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Vanadium	**53**		1.9	0.26	mg/Kg		12/19/18 08:52	12/20/18 15:36	4
Zinc	**62**		5.8	2.5	mg/Kg		12/19/18 08:52	12/20/18 15:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.56**		0.014	0.0021	mg/Kg		12/31/18 10:10	12/31/18 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.5**		0.1	0.05	%			12/17/18 21:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AI2S-0.5-1

Date Collected: 12/14/18 14:45
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.7	0.28	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Arsenic	55	B	3.4	0.29	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Barium	92	B	1.7	0.24	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Beryllium	ND		0.34	0.11	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Cadmium	0.74		0.43	0.042	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Chromium	41		1.7	0.18	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Cobalt	11		0.68	0.068	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Copper	110		5.1	2.4	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Lead	150		1.7	0.36	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Molybdenum	1.3	J	1.7	0.22	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Nickel	43		1.7	0.17	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Selenium	ND		3.4	0.51	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Silver	ND		0.85	0.17	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Thallium	ND		1.7	0.50	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Vanadium	70		1.7	0.23	mg/Kg		12/19/18 08:52	12/20/18 15:40	4
Zinc	170		5.1	2.2	mg/Kg		12/19/18 08:52	12/20/18 15:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.0		0.064	0.0094	mg/Kg		12/31/18 10:10	12/31/18 15:34	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.05	%			12/17/18 21:29	1

Client Sample ID: DG-AI2S-3.5-4

Date Collected: 12/14/18 14:45
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.4	0.24	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Arsenic	69	B	2.9	0.24	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Barium	33	B	1.4	0.20	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Beryllium	ND		0.29	0.094	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Cadmium	0.30	J	0.36	0.036	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Chromium	9.6		1.4	0.15	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Cobalt	12		0.58	0.058	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Copper	110		4.3	2.0	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Lead	370		1.4	0.30	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Molybdenum	0.35	J	1.4	0.18	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Nickel	5.4		1.4	0.15	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Selenium	ND		2.9	0.43	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Silver	0.22	J	0.72	0.15	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Thallium	ND		1.4	0.42	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Vanadium	81		1.4	0.20	mg/Kg		12/19/18 08:52	12/20/18 15:45	4
Zinc	83		4.3	1.8	mg/Kg		12/19/18 08:52	12/20/18 15:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.015	0.0023	mg/Kg		01/02/19 10:37	01/02/19 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			12/17/18 22:11	1

Client Sample ID: DG-AJ2S-0.5-1

Date Collected: 12/14/18 14:55
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.31	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Arsenic	**13**	**B**	3.7	0.32	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Barium	**44**	**B**	1.9	0.27	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Beryllium	ND		0.37	0.12	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Cadmium	**0.33**	**J**	0.47	0.046	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Chromium	**9.1**		1.9	0.20	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Cobalt	**8.1**		0.75	0.075	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Copper	**93**		5.6	2.7	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Lead	**41**		1.9	0.39	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Molybdenum	**0.46**	**J**	1.9	0.24	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Nickel	**5.9**		1.9	0.19	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Selenium	ND		3.7	0.56	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Silver	ND		0.93	0.19	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Thallium	ND		1.9	0.54	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Vanadium	**66**		1.9	0.25	mg/Kg		12/19/18 08:52	12/20/18 15:50	4
Zinc	**110**		5.6	2.4	mg/Kg		12/19/18 08:52	12/20/18 15:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.89**		0.016	0.0023	mg/Kg		01/02/19 10:37	01/02/19 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.4**		0.1	0.05	%			12/17/18 22:11	1

Client Sample ID: DG-AJ2S-3.5-4

Date Collected: 12/14/18 14:55
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.2		1.8	0.30	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Arsenic	180	B	3.6	0.30	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Barium	120	B	1.8	0.25	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Beryllium	0.34	J	0.36	0.12	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Cadmium	0.20	J	0.45	0.044	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Chromium	32		1.8	0.19	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Cobalt	10		0.71	0.071	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Copper	110		5.4	2.5	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Lead	960		1.8	0.38	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Molybdenum	0.47	J	1.8	0.23	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Nickel	40		1.8	0.18	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Selenium	ND		3.6	0.54	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Silver	ND		0.89	0.18	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Thallium	ND		1.8	0.52	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Vanadium	49		1.8	0.24	mg/Kg		12/19/18 08:52	12/20/18 15:54	4
Zinc	110		5.4	2.3	mg/Kg		12/19/18 08:52	12/20/18 15:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.015	0.0022	mg/Kg		01/02/19 10:37	01/02/19 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.1	0.05	%			12/17/18 22:11	1

Client Sample ID: DG-AK2S-0.5-1

Date Collected: 12/14/18 15:15
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.4	0.22	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Arsenic	7.7	B	2.7	0.23	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Barium	86	B	1.4	0.19	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Beryllium	ND		0.27	0.088	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Cadmium	0.80		0.34	0.034	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Chromium	14		1.4	0.14	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Cobalt	10		0.54	0.054	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Copper	130		4.1	1.9	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Lead	130		1.4	0.28	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Molybdenum	0.91	J	1.4	0.17	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Nickel	11		1.4	0.14	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Selenium	0.54	J	2.7	0.41	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Silver	ND		0.68	0.14	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Thallium	ND		1.4	0.39	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Vanadium	89		1.4	0.18	mg/Kg		12/19/18 08:52	12/20/18 16:09	4
Zinc	190		4.1	1.7	mg/Kg		12/19/18 08:52	12/20/18 16:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.015	0.0021	mg/Kg		01/02/19 10:37	01/02/19 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.1		0.1	0.05	%			12/17/18 22:11	1

Client Sample ID: DG-AK2S-3.5-4

Date Collected: 12/14/18 15:15
Date Received: 12/14/18 18:00

Lab Sample ID: 720-90330-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J	1.1	0.18	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Arsenic	45	B	2.2	0.18	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Barium	32	B	1.1	0.15	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Beryllium	ND		0.22	0.070	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Cadmium	0.20	J	0.27	0.027	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Chromium	7.9		1.1	0.11	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Cobalt	11		0.43	0.043	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Copper	84		3.2	1.5	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Lead	15		1.1	0.23	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Molybdenum	0.55	J	1.1	0.14	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Nickel	4.7		1.1	0.11	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Selenium	ND		2.2	0.32	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Silver	ND		0.54	0.11	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Thallium	ND		1.1	0.31	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Vanadium	79		1.1	0.15	mg/Kg		12/19/18 08:52	12/20/18 16:14	4
Zinc	73		3.2	1.4	mg/Kg		12/19/18 08:52	12/20/18 16:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.016	0.0024	mg/Kg		01/02/19 10:37	01/02/19 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1	0.05	%			12/17/18 22:11	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257080/1-A
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.137	J	0.50	0.083	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Arsenic	ND		1.0	0.085	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Barium	ND		0.50	0.071	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Beryllium	ND		0.10	0.033	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Cadmium	ND		0.13	0.012	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Chromium	ND		0.50	0.053	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Cobalt	ND		0.20	0.020	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Copper	ND		1.5	0.71	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Lead	ND		0.50	0.11	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Nickel	0.118	J	0.50	0.051	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Selenium	ND		1.0	0.15	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Silver	0.0766	J	0.25	0.051	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Thallium	ND		0.50	0.15	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Vanadium	ND		0.50	0.068	mg/Kg		12/18/18 08:53	12/18/18 15:40	1
Zinc	ND		1.5	0.64	mg/Kg		12/18/18 08:53	12/18/18 15:40	1

Lab Sample ID: LCS 720-257080/2-A
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.5		mg/Kg		93	80 - 120
Arsenic	50.0	46.7		mg/Kg		93	80 - 120
Barium	50.0	46.9		mg/Kg		94	80 - 120
Beryllium	50.0	47.6		mg/Kg		95	80 - 120
Cadmium	50.0	47.0		mg/Kg		94	80 - 120
Chromium	50.0	47.8		mg/Kg		96	80 - 120
Cobalt	50.0	47.3		mg/Kg		95	80 - 120
Copper	50.0	47.2		mg/Kg		94	80 - 120
Lead	50.0	47.6		mg/Kg		95	80 - 120
Molybdenum	50.0	47.7		mg/Kg		95	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Selenium	50.0	45.5		mg/Kg		91	80 - 120
Silver	25.0	23.0		mg/Kg		92	80 - 120
Thallium	50.0	47.4		mg/Kg		95	80 - 120
Vanadium	50.0	47.4		mg/Kg		95	80 - 120
Zinc	50.0	46.3		mg/Kg		93	80 - 120

Lab Sample ID: 720-90329-A-21-B MS
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.8	B F1 F2	31.3	14.5	F1	mg/Kg		37	75 - 125
Arsenic	270	F2	31.3	191	4	mg/Kg		-265	75 - 125
Barium	79	F1 F2	31.3	135	F1	mg/Kg		179	75 - 125
Beryllium	0.13	J	31.3	39.3		mg/Kg		125	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90329-A-21-B MS
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.40		31.3	37.4		mg/Kg		118	75 - 125
Chromium	24	F1 F2	31.3	56.3		mg/Kg		103	75 - 125
Cobalt	12		31.3	50.6		mg/Kg		123	75 - 125
Copper	94	F1	31.3	131		mg/Kg		119	75 - 125
Lead	100	F1	31.3	115	F1	mg/Kg		43	75 - 125
Molybdenum	2.4		31.3	37.8		mg/Kg		113	75 - 125
Nickel	34	B F1 F2	31.3	63.1		mg/Kg		94	75 - 125
Selenium	ND		31.3	37.1		mg/Kg		119	75 - 125
Silver	0.57	J B F1	15.6	20.5	F1	mg/Kg		127	75 - 125
Thallium	ND		31.3	35.8		mg/Kg		114	75 - 125
Vanadium	67	F1	31.3	117	F1	mg/Kg		161	75 - 125
Zinc	110	F1 F2	31.3	139		mg/Kg		98	75 - 125

Lab Sample ID: 720-90329-A-21-C MSD
Matrix: Solid
Analysis Batch: 257220

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.8	B F1 F2	31.6	11.5	F1 F2	mg/Kg		27	75 - 125	24	20
Arsenic	270	F2	31.6	136	4 F2	mg/Kg		-437	75 - 125	34	20
Barium	79	F1 F2	31.6	89.0	F1 F2	mg/Kg		31	75 - 125	41	20
Beryllium	0.13	J	31.6	32.6		mg/Kg		103	75 - 125	19	20
Cadmium	0.40		31.6	32.3		mg/Kg		101	75 - 125	14	20
Chromium	24	F1 F2	31.6	43.3	F1 F2	mg/Kg		61	75 - 125	26	20
Cobalt	12		31.6	43.7		mg/Kg		99	75 - 125	15	20
Copper	94	F1	31.6	111	F1	mg/Kg		53	75 - 125	17	20
Lead	100	F1	31.6	95.8	F1	mg/Kg		-17	75 - 125	18	20
Molybdenum	2.4		31.6	31.3		mg/Kg		91	75 - 125	19	20
Nickel	34	B F1 F2	31.6	43.1	F1 F2	mg/Kg		30	75 - 125	38	20
Selenium	ND		31.6	31.9		mg/Kg		101	75 - 125	15	20
Silver	0.57	J B F1	15.8	17.9		mg/Kg		109	75 - 125	14	20
Thallium	ND		31.6	30.6		mg/Kg		97	75 - 125	15	20
Vanadium	67	F1	31.6	109	F1	mg/Kg		134	75 - 125	7	20
Zinc	110	F1 F2	31.6	93.6	F1 F2	mg/Kg		-47	75 - 125	39	20

Lab Sample ID: MB 720-257190/1-A
Matrix: Solid
Analysis Batch: 257357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Arsenic	ND		1.0	0.085	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Barium	ND		0.50	0.071	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Beryllium	ND		0.10	0.033	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Chromium	ND		0.50	0.053	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 09:43	12/20/18 09:18	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257190/1-A
Matrix: Solid
Analysis Batch: 257357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Silver	ND		0.25	0.051	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 09:43	12/20/18 09:18	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 09:43	12/20/18 09:18	1

Lab Sample ID: LCS 720-257190/2-A
Matrix: Solid
Analysis Batch: 257357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.1		mg/Kg		90	80 - 120
Arsenic	50.0	45.1		mg/Kg		90	80 - 120
Barium	50.0	46.0		mg/Kg		92	80 - 120
Beryllium	50.0	45.3		mg/Kg		91	80 - 120
Cadmium	50.0	45.6		mg/Kg		91	80 - 120
Chromium	50.0	46.0		mg/Kg		92	80 - 120
Cobalt	50.0	46.1		mg/Kg		92	80 - 120
Copper	50.0	47.1		mg/Kg		94	80 - 120
Lead	50.0	46.0		mg/Kg		92	80 - 120
Molybdenum	50.0	46.1		mg/Kg		92	80 - 120
Nickel	50.0	46.2		mg/Kg		92	80 - 120
Selenium	50.0	44.2		mg/Kg		88	80 - 120
Silver	25.0	22.5		mg/Kg		90	80 - 120
Thallium	50.0	46.0		mg/Kg		92	80 - 120
Vanadium	50.0	45.1		mg/Kg		90	80 - 120
Zinc	50.0	45.5		mg/Kg		91	80 - 120

Lab Sample ID: 720-90385-A-1-A MS
Matrix: Solid
Analysis Batch: 257357

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.87	J F1	45.0	13.4	F1	mg/Kg		28	75 - 125
Arsenic	1.5	J	45.0	44.4		mg/Kg		95	75 - 125
Barium	26	F1	45.0	91.0	F1	mg/Kg		144	75 - 125
Beryllium	ND		45.0	43.5		mg/Kg		97	75 - 125
Cadmium	0.075	J	45.0	42.6		mg/Kg		94	75 - 125
Chromium	21		45.0	68.2		mg/Kg		105	75 - 125
Cobalt	11		45.0	56.3		mg/Kg		101	75 - 125
Copper	31		45.0	81.7		mg/Kg		112	75 - 125
Lead	7.4		45.0	63.3		mg/Kg		124	75 - 125
Molybdenum	0.27	J	45.0	40.6		mg/Kg		90	75 - 125
Nickel	17		45.0	67.9		mg/Kg		113	75 - 125
Selenium	ND		45.0	42.3		mg/Kg		94	75 - 125
Silver	ND		22.5	22.8		mg/Kg		101	75 - 125
Thallium	ND		45.0	41.3		mg/Kg		92	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90385-A-1-A MS
Matrix: Solid
Analysis Batch: 257357

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	45	F1	45.0	106	F1	mg/Kg		135	75 - 125
Zinc	26	F1	45.0	89.2	F1	mg/Kg		140	75 - 125

Lab Sample ID: 720-90385-A-1-B MSD
Matrix: Solid
Analysis Batch: 257357

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.87	J F1	44.2	13.0	F1	mg/Kg		27	75 - 125	3	20
Arsenic	1.5	J	44.2	42.0		mg/Kg		92	75 - 125	5	20
Barium	26	F1	44.2	90.2	F1	mg/Kg		145	75 - 125	1	20
Beryllium	ND		44.2	42.0		mg/Kg		95	75 - 125	4	20
Cadmium	0.075	J	44.2	39.9		mg/Kg		90	75 - 125	7	20
Chromium	21		44.2	66.1		mg/Kg		103	75 - 125	3	20
Cobalt	11		44.2	51.5		mg/Kg		92	75 - 125	9	20
Copper	31		44.2	71.2		mg/Kg		90	75 - 125	14	20
Lead	7.4		44.2	57.9		mg/Kg		114	75 - 125	9	20
Molybdenum	0.27	J	44.2	37.7		mg/Kg		85	75 - 125	7	20
Nickel	17		44.2	64.7		mg/Kg		108	75 - 125	5	20
Selenium	ND		44.2	39.7		mg/Kg		90	75 - 125	6	20
Silver	ND		22.1	21.0		mg/Kg		95	75 - 125	8	20
Thallium	ND		44.2	38.9		mg/Kg		88	75 - 125	6	20
Vanadium	45	F1	44.2	96.0		mg/Kg		116	75 - 125	9	20
Zinc	26	F1	44.2	95.7	F1	mg/Kg		157	75 - 125	7	20

Lab Sample ID: MB 720-257203/1-A
Matrix: Solid
Analysis Batch: 257260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Arsenic	ND		1.0	0.085	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Barium	ND		0.50	0.071	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Beryllium	ND		0.10	0.033	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Cadmium	ND		0.13	0.012	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Chromium	ND		0.50	0.053	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Cobalt	ND		0.20	0.020	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Copper	ND		1.5	0.71	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Lead	ND		0.50	0.11	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Nickel	ND		0.50	0.051	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Selenium	ND		1.0	0.15	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Silver	0.0580	J	0.25	0.051	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Thallium	ND		0.50	0.15	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Vanadium	ND		0.50	0.068	mg/Kg		12/18/18 19:09	12/19/18 09:40	1
Zinc	ND		1.5	0.64	mg/Kg		12/18/18 19:09	12/19/18 09:40	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257203/2-A
Matrix: Solid
Analysis Batch: 257260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.8		mg/Kg		94	80 - 120
Arsenic	50.0	47.1		mg/Kg		94	80 - 120
Barium	50.0	46.1		mg/Kg		92	80 - 120
Beryllium	50.0	47.8		mg/Kg		96	80 - 120
Cadmium	50.0	47.1		mg/Kg		94	80 - 120
Chromium	50.0	47.8		mg/Kg		96	80 - 120
Cobalt	50.0	46.9		mg/Kg		94	80 - 120
Copper	50.0	47.8		mg/Kg		96	80 - 120
Lead	50.0	48.1		mg/Kg		96	80 - 120
Molybdenum	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	47.6		mg/Kg		95	80 - 120
Selenium	50.0	45.7		mg/Kg		91	80 - 120
Silver	25.0	22.8		mg/Kg		91	80 - 120
Thallium	50.0	48.0		mg/Kg		96	80 - 120
Vanadium	50.0	48.3		mg/Kg		97	80 - 120
Zinc	50.0	45.7		mg/Kg		91	80 - 120

Lab Sample ID: 720-90311-A-2-B MS
Matrix: Solid
Analysis Batch: 257260

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257203

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.3	F1	36.8	12.2	F1	mg/Kg		27	75 - 125
Arsenic	55	F1 F2	36.8	80.2	F1	mg/Kg		69	75 - 125
Barium	170		36.8	269	4	mg/Kg		259	75 - 125
Beryllium	0.28	J F1 F2	36.8	42.3		mg/Kg		114	75 - 125
Cadmium	0.68		36.8	38.7		mg/Kg		103	75 - 125
Chromium	20	F1	36.8	72.0	F1	mg/Kg		142	75 - 125
Cobalt	6.4		36.8	44.9		mg/Kg		105	75 - 125
Copper	40	F1 F2	36.8	76.4		mg/Kg		100	75 - 125
Lead	370	F2	36.8	434	4	mg/Kg		165	75 - 125
Molybdenum	0.37	J F2	36.8	35.4		mg/Kg		95	75 - 125
Nickel	22	F1	36.8	64.8		mg/Kg		115	75 - 125
Selenium	0.48	J	36.8	36.5		mg/Kg		98	75 - 125
Silver	0.32	J B F1	18.4	20.5		mg/Kg		110	75 - 125
Thallium	ND		36.8	38.0		mg/Kg		103	75 - 125
Vanadium	28	F1 F2	36.8	70.7		mg/Kg		115	75 - 125
Zinc	260	F2	36.8	208	4	mg/Kg		-134	75 - 125

Lab Sample ID: 720-90311-A-2-C MSD
Matrix: Solid
Analysis Batch: 257260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.3	F1	37.9	14.4	F1	mg/Kg		32	75 - 125	17	20
Arsenic	55	F1 F2	37.9	103	F1 F2	mg/Kg		127	75 - 125	25	20
Barium	170		37.9	270	4	mg/Kg		254	75 - 125	0	20
Beryllium	0.28	J F1 F2	37.9	52.1	F1 F2	mg/Kg		137	75 - 125	21	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90311-A-2-C MSD
Matrix: Solid
Analysis Batch: 257260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.68		37.9	45.9		mg/Kg		119	75 - 125	17	20
Chromium	20	F1	37.9	79.7	F1	mg/Kg		158	75 - 125	10	20
Cobalt	6.4		37.9	52.5		mg/Kg		122	75 - 125	16	20
Copper	40	F1 F2	37.9	97.0	F1 F2	mg/Kg		151	75 - 125	24	20
Lead	370	F2	37.9	626	4 F2	mg/Kg		667	75 - 125	36	20
Molybdenum	0.37	J F2	37.9	43.7	F2	mg/Kg		114	75 - 125	21	20
Nickel	22	F1	37.9	75.2	F1	mg/Kg		140	75 - 125	15	20
Selenium	0.48	J	37.9	44.1		mg/Kg		115	75 - 125	19	20
Silver	0.32	J B F1	18.9	24.6	F1	mg/Kg		128	75 - 125	18	20
Thallium	ND		37.9	44.9		mg/Kg		119	75 - 125	17	20
Vanadium	28	F1 F2	37.9	88.0	F1 F2	mg/Kg		157	75 - 125	22	20
Zinc	260	F2	37.9	257	4 F2	mg/Kg		-0.2	75 - 125	21	20

Lab Sample ID: MB 720-257230/1-A
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Arsenic	0.0883	J	1.0	0.085	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Barium	0.194	J	0.50	0.071	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Beryllium	ND		0.10	0.033	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Chromium	ND		0.50	0.053	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Silver	ND		0.25	0.051	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 08:52	12/20/18 14:15	1

Lab Sample ID: LCS 720-257230/2-A
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.7		mg/Kg		97	80 - 120
Arsenic	50.0	49.7		mg/Kg		99	80 - 120
Barium	50.0	49.8		mg/Kg		100	80 - 120
Beryllium	50.0	48.9		mg/Kg		98	80 - 120
Cadmium	50.0	49.8		mg/Kg		100	80 - 120
Chromium	50.0	52.1		mg/Kg		104	80 - 120
Cobalt	50.0	50.6		mg/Kg		101	80 - 120
Copper	50.0	51.1		mg/Kg		102	80 - 120
Lead	50.0	50.1		mg/Kg		100	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257230/2-A
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	50.0	50.8		mg/Kg		102	80 - 120
Nickel	50.0	50.9		mg/Kg		102	80 - 120
Selenium	50.0	47.7		mg/Kg		95	80 - 120
Silver	25.0	24.5		mg/Kg		98	80 - 120
Thallium	50.0	49.6		mg/Kg		99	80 - 120
Vanadium	50.0	51.3		mg/Kg		103	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: 720-90330-17 MS
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: DG-AD2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.97	J F1	46.7	12.8	F1	mg/Kg		25	75 - 125
Arsenic	21	B F1	46.7	59.7		mg/Kg		84	75 - 125
Barium	46	B F1 F2	46.7	117	F1	mg/Kg		152	75 - 125
Beryllium	0.22	J	46.7	47.0		mg/Kg		100	75 - 125
Cadmium	0.61		46.7	48.6		mg/Kg		103	75 - 125
Chromium	36	F1 F2	46.7	84.6		mg/Kg		104	75 - 125
Cobalt	9.2		46.7	56.8		mg/Kg		102	75 - 125
Copper	240	F2	46.7	316	4	mg/Kg		155	75 - 125
Lead	110	F1 F2	46.7	208	F1	mg/Kg		200	75 - 125
Molybdenum	1.1	J	46.7	47.6		mg/Kg		100	75 - 125
Nickel	9.2		46.7	58.3		mg/Kg		105	75 - 125
Selenium	ND		46.7	46.7		mg/Kg		100	75 - 125
Silver	0.22	J	23.4	23.7		mg/Kg		100	75 - 125
Thallium	ND		46.7	45.4		mg/Kg		97	75 - 125
Vanadium	69	F1	46.7	113		mg/Kg		95	75 - 125
Zinc	160	F1 F2	46.7	197		mg/Kg		84	75 - 125

Lab Sample ID: 720-90330-17 MSD
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: DG-AD2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.97	J F1	46.3	11.9	F1	mg/Kg		24	75 - 125	8	20
Arsenic	21	B F1	46.3	53.2	F1	mg/Kg		71	75 - 125	11	20
Barium	46	B F1 F2	46.3	78.8	F1 F2	mg/Kg		71	75 - 125	39	20
Beryllium	0.22	J	46.3	44.7		mg/Kg		96	75 - 125	5	20
Cadmium	0.61		46.3	47.6		mg/Kg		102	75 - 125	2	20
Chromium	36	F1 F2	46.3	68.5	F1 F2	mg/Kg		70	75 - 125	21	20
Cobalt	9.2		46.3	56.9		mg/Kg		103	75 - 125	0	20
Copper	240	F2	46.3	186	4 F2	mg/Kg		-124	75 - 125	52	20
Lead	110	F1 F2	46.3	69.5	F1 F2	mg/Kg		-97	75 - 125	100	20
Molybdenum	1.1	J	46.3	46.4		mg/Kg		98	75 - 125	3	20
Nickel	9.2		46.3	51.4		mg/Kg		91	75 - 125	13	20
Selenium	ND		46.3	45.0		mg/Kg		97	75 - 125	4	20
Silver	0.22	J	23.1	22.8		mg/Kg		98	75 - 125	4	20
Thallium	ND		46.3	44.4		mg/Kg		96	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90330-17 MSD
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: DG-AD2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	69	F1	46.3	127	F1	mg/Kg		126	75 - 125	12	20
Zinc	160	F1 F2	46.3	282	F1 F2	mg/Kg		270	75 - 125	36	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257082/1-A
Matrix: Solid
Analysis Batch: 257814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/31/18 09:37	12/31/18 12:38	1

Lab Sample ID: LCS 720-257082/2-A
Matrix: Solid
Analysis Batch: 257814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.890		mg/Kg		107	80 - 120

Lab Sample ID: 720-90329-A-22-A MS
Matrix: Solid
Analysis Batch: 257814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.054		0.694	0.783		mg/Kg		105	75 - 125

Lab Sample ID: 720-90329-A-22-B MSD
Matrix: Solid
Analysis Batch: 257814

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.054		0.704	0.827		mg/Kg		110	75 - 125	5	20

Lab Sample ID: MB 720-257087/1-A
Matrix: Solid
Analysis Batch: 257823

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/31/18 10:10	12/31/18 14:03	1

Lab Sample ID: LCS 720-257087/2-A
Matrix: Solid
Analysis Batch: 257823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.880		mg/Kg		106	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90330-17 MS
Matrix: Solid
Analysis Batch: 257823

Client Sample ID: DG-AD2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.16		0.769	0.959		mg/Kg		104	75 - 125

Lab Sample ID: 720-90330-17 MSD
Matrix: Solid
Analysis Batch: 257823

Client Sample ID: DG-AD2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.16		0.806	0.997		mg/Kg		104	75 - 125	4	20

Lab Sample ID: MB 720-257234/1-A
Matrix: Solid
Analysis Batch: 257867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/02/19 10:37	01/02/19 11:54	1

Lab Sample ID: LCS 720-257234/2-A
Matrix: Solid
Analysis Batch: 257867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.770		mg/Kg		92	80 - 120

Lab Sample ID: 720-90386-A-5-A MS
Matrix: Solid
Analysis Batch: 257867

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.077		0.769	0.725		mg/Kg		84	75 - 125

Lab Sample ID: 720-90386-A-5-B MSD
Matrix: Solid
Analysis Batch: 257867

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.077		0.735	0.701		mg/Kg		85	75 - 125	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90330-17 DU
Matrix: Solid
Analysis Batch: 257131

Client Sample ID: DG-AD2S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	6.3		6.6		%		5	20

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 720-90330-33 DU
Matrix: Solid
Analysis Batch: 257134

Client Sample ID: DG-AJ2S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.4			6.2		%				18	20

Lab Sample ID: 720-90329-A-24 DU
Matrix: Solid
Analysis Batch: 257215

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.8			9.0		%				8	20

Metals

Prep Batch: 257080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-1	DG-W2S-0.5-1	Total/NA	Solid	3050B	
720-90330-2	DG-W2S-3.5-4	Total/NA	Solid	3050B	
720-90330-3	DG-W2S-8.5-9	Total/NA	Solid	3050B	
720-90330-4	DG-X2S-0.5-1	Total/NA	Solid	3050B	
720-90330-5	DG-X2S-3.5-4	Total/NA	Solid	3050B	
720-90330-6	DG-Y2S-0.5-1	Total/NA	Solid	3050B	
720-90330-7	DG-Y2S-3.5-4	Total/NA	Solid	3050B	
720-90330-8	DG-Z2S-0.5-1	Total/NA	Solid	3050B	
720-90330-9	DG-Z2S-3.5-4	Total/NA	Solid	3050B	
MB 720-257080/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257080/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90329-A-21-B MS	Matrix Spike	Total/NA	Solid	3050B	
720-90329-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-1	DG-W2S-0.5-1	Total/NA	Solid	7471A	
720-90330-2	DG-W2S-3.5-4	Total/NA	Solid	7471A	
720-90330-3	DG-W2S-8.5-9	Total/NA	Solid	7471A	
720-90330-4	DG-X2S-0.5-1	Total/NA	Solid	7471A	
720-90330-5	DG-X2S-3.5-4	Total/NA	Solid	7471A	
720-90330-6	DG-Y2S-0.5-1	Total/NA	Solid	7471A	
720-90330-7	DG-Y2S-3.5-4	Total/NA	Solid	7471A	
720-90330-8	DG-Z2S-0.5-1	Total/NA	Solid	7471A	
720-90330-9	DG-Z2S-3.5-4	Total/NA	Solid	7471A	
720-90330-10	DG-AA2S-0.5-1	Total/NA	Solid	7471A	
720-90330-11	DG-AA2S-3.5-4	Total/NA	Solid	7471A	
MB 720-257082/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257082/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90329-A-22-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90329-A-22-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-12	DG-AB2S-0.5-1	Total/NA	Solid	7471A	
720-90330-13	DG-AB2S-3.5-4	Total/NA	Solid	7471A	
720-90330-14	DG-AB2S-7-7.5	Total/NA	Solid	7471A	
720-90330-15	DG-AC2S-0.5-1	Total/NA	Solid	7471A	
720-90330-16	DG-AC2S-3.5-4	Total/NA	Solid	7471A	
720-90330-17	DG-AD2S-0.5-1	Total/NA	Solid	7471A	
720-90330-18	DG-AD2S-3.5-4	Total/NA	Solid	7471A	
720-90330-19	DUP-08	Total/NA	Solid	7471A	
720-90330-20	DG-AE2S-0.5-1	Total/NA	Solid	7471A	
720-90330-21	DG-AE2S-3.5-4	Total/NA	Solid	7471A	
720-90330-22	DG-AF2S-0.5-1	Total/NA	Solid	7471A	
720-90330-23	DG-AF2S-3.5-4	Total/NA	Solid	7471A	
720-90330-24	DUP-09	Total/NA	Solid	7471A	
720-90330-25	DG-AG2S-0.5-1	Total/NA	Solid	7471A	
720-90330-26	DG-AG2S-3.5-4	Total/NA	Solid	7471A	
720-90330-27	DG-AG2S-10-10.5	Total/NA	Solid	7471A	
720-90330-28	DG-AH2S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-29	DG-AH2S-3.5-4	Total/NA	Solid	7471A	
720-90330-30	DUP-10	Total/NA	Solid	7471A	
720-90330-31	DG-AI2S-0.5-1	Total/NA	Solid	7471A	
MB 720-257087/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257087/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90330-17 MS	DG-AD2S-0.5-1	Total/NA	Solid	7471A	
720-90330-17 MSD	DG-AD2S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-20	DG-AE2S-0.5-1	Total/NA	Solid	3050B	
720-90330-21	DG-AE2S-3.5-4	Total/NA	Solid	3050B	
720-90330-22	DG-AF2S-0.5-1	Total/NA	Solid	3050B	
720-90330-23	DG-AF2S-3.5-4	Total/NA	Solid	3050B	
720-90330-24	DUP-09	Total/NA	Solid	3050B	
720-90330-25	DG-AG2S-0.5-1	Total/NA	Solid	3050B	
720-90330-26	DG-AG2S-3.5-4	Total/NA	Solid	3050B	
MB 720-257190/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257190/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90385-A-1-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90385-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-10	DG-AA2S-0.5-1	Total/NA	Solid	3050B	
720-90330-11	DG-AA2S-3.5-4	Total/NA	Solid	3050B	
720-90330-12	DG-AB2S-0.5-1	Total/NA	Solid	3050B	
720-90330-13	DG-AB2S-3.5-4	Total/NA	Solid	3050B	
MB 720-257203/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257203/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90311-A-2-B MS	Matrix Spike	Total/NA	Solid	3050B	
720-90311-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 257220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-1	DG-W2S-0.5-1	Total/NA	Solid	6010B	257080
720-90330-2	DG-W2S-3.5-4	Total/NA	Solid	6010B	257080
720-90330-3	DG-W2S-8.5-9	Total/NA	Solid	6010B	257080
720-90330-4	DG-X2S-0.5-1	Total/NA	Solid	6010B	257080
720-90330-5	DG-X2S-3.5-4	Total/NA	Solid	6010B	257080
720-90330-6	DG-Y2S-0.5-1	Total/NA	Solid	6010B	257080
720-90330-7	DG-Y2S-3.5-4	Total/NA	Solid	6010B	257080
720-90330-8	DG-Z2S-0.5-1	Total/NA	Solid	6010B	257080
720-90330-9	DG-Z2S-3.5-4	Total/NA	Solid	6010B	257080
MB 720-257080/1-A	Method Blank	Total/NA	Solid	6010B	257080
LCS 720-257080/2-A	Lab Control Sample	Total/NA	Solid	6010B	257080
720-90329-A-21-B MS	Matrix Spike	Total/NA	Solid	6010B	257080
720-90329-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257080

Metals (Continued)

Prep Batch: 257230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-14	DG-AB2S-7-7.5	Total/NA	Solid	3050B	
720-90330-15	DG-AC2S-0.5-1	Total/NA	Solid	3050B	
720-90330-16	DG-AC2S-3.5-4	Total/NA	Solid	3050B	
720-90330-17	DG-AD2S-0.5-1	Total/NA	Solid	3050B	
720-90330-18	DG-AD2S-3.5-4	Total/NA	Solid	3050B	
720-90330-19	DUP-08	Total/NA	Solid	3050B	
720-90330-27	DG-AG2S-10-10.5	Total/NA	Solid	3050B	
720-90330-28	DG-AH2S-0.5-1	Total/NA	Solid	3050B	
720-90330-29	DG-AH2S-3.5-4	Total/NA	Solid	3050B	
720-90330-30	DUP-10	Total/NA	Solid	3050B	
720-90330-31	DG-AI2S-0.5-1	Total/NA	Solid	3050B	
720-90330-32	DG-AI2S-3.5-4	Total/NA	Solid	3050B	
720-90330-33	DG-AJ2S-0.5-1	Total/NA	Solid	3050B	
720-90330-34	DG-AJ2S-3.5-4	Total/NA	Solid	3050B	
720-90330-35	DG-AK2S-0.5-1	Total/NA	Solid	3050B	
720-90330-36	DG-AK2S-3.5-4	Total/NA	Solid	3050B	
MB 720-257230/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257230/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90330-17 MS	DG-AD2S-0.5-1	Total/NA	Solid	3050B	
720-90330-17 MSD	DG-AD2S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 257234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-32	DG-AI2S-3.5-4	Total/NA	Solid	7471A	
720-90330-33	DG-AJ2S-0.5-1	Total/NA	Solid	7471A	
720-90330-34	DG-AJ2S-3.5-4	Total/NA	Solid	7471A	
720-90330-35	DG-AK2S-0.5-1	Total/NA	Solid	7471A	
720-90330-36	DG-AK2S-3.5-4	Total/NA	Solid	7471A	
MB 720-257234/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257234/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90386-A-5-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90386-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 257260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-10	DG-AA2S-0.5-1	Total/NA	Solid	6010B	257203
720-90330-11	DG-AA2S-3.5-4	Total/NA	Solid	6010B	257203
720-90330-12	DG-AB2S-0.5-1	Total/NA	Solid	6010B	257203
720-90330-13	DG-AB2S-3.5-4	Total/NA	Solid	6010B	257203
MB 720-257203/1-A	Method Blank	Total/NA	Solid	6010B	257203
LCS 720-257203/2-A	Lab Control Sample	Total/NA	Solid	6010B	257203
720-90311-A-2-B MS	Matrix Spike	Total/NA	Solid	6010B	257203
720-90311-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257203

Analysis Batch: 257279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-6	DG-Y2S-0.5-1	Total/NA	Solid	6010B	257080

Analysis Batch: 257357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-20	DG-AE2S-0.5-1	Total/NA	Solid	6010B	257190

Metals (Continued)

Analysis Batch: 257357 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-21	DG-AE2S-3.5-4	Total/NA	Solid	6010B	257190
720-90330-22	DG-AF2S-0.5-1	Total/NA	Solid	6010B	257190
720-90330-23	DG-AF2S-3.5-4	Total/NA	Solid	6010B	257190
720-90330-24	DUP-09	Total/NA	Solid	6010B	257190
720-90330-25	DG-AG2S-0.5-1	Total/NA	Solid	6010B	257190
720-90330-26	DG-AG2S-3.5-4	Total/NA	Solid	6010B	257190
MB 720-257190/1-A	Method Blank	Total/NA	Solid	6010B	257190
LCS 720-257190/2-A	Lab Control Sample	Total/NA	Solid	6010B	257190
720-90385-A-1-A MS	Matrix Spike	Total/NA	Solid	6010B	257190
720-90385-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257190

Analysis Batch: 257418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-14	DG-AB2S-7-7.5	Total/NA	Solid	6010B	257230
720-90330-15	DG-AC2S-0.5-1	Total/NA	Solid	6010B	257230
720-90330-16	DG-AC2S-3.5-4	Total/NA	Solid	6010B	257230
720-90330-17	DG-AD2S-0.5-1	Total/NA	Solid	6010B	257230
720-90330-18	DG-AD2S-3.5-4	Total/NA	Solid	6010B	257230
720-90330-19	DUP-08	Total/NA	Solid	6010B	257230
720-90330-27	DG-AG2S-10-10.5	Total/NA	Solid	6010B	257230
720-90330-28	DG-AH2S-0.5-1	Total/NA	Solid	6010B	257230
720-90330-29	DG-AH2S-3.5-4	Total/NA	Solid	6010B	257230
720-90330-30	DUP-10	Total/NA	Solid	6010B	257230
720-90330-31	DG-AI2S-0.5-1	Total/NA	Solid	6010B	257230
720-90330-32	DG-AI2S-3.5-4	Total/NA	Solid	6010B	257230
720-90330-33	DG-AJ2S-0.5-1	Total/NA	Solid	6010B	257230
720-90330-34	DG-AJ2S-3.5-4	Total/NA	Solid	6010B	257230
720-90330-35	DG-AK2S-0.5-1	Total/NA	Solid	6010B	257230
720-90330-36	DG-AK2S-3.5-4	Total/NA	Solid	6010B	257230
MB 720-257230/1-A	Method Blank	Total/NA	Solid	6010B	257230
LCS 720-257230/2-A	Lab Control Sample	Total/NA	Solid	6010B	257230
720-90330-17 MS	DG-AD2S-0.5-1	Total/NA	Solid	6010B	257230
720-90330-17 MSD	DG-AD2S-0.5-1	Total/NA	Solid	6010B	257230

Analysis Batch: 257814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-1	DG-W2S-0.5-1	Total/NA	Solid	7471A	257082
720-90330-2	DG-W2S-3.5-4	Total/NA	Solid	7471A	257082
720-90330-3	DG-W2S-8.5-9	Total/NA	Solid	7471A	257082
720-90330-4	DG-X2S-0.5-1	Total/NA	Solid	7471A	257082
720-90330-5	DG-X2S-3.5-4	Total/NA	Solid	7471A	257082
720-90330-6	DG-Y2S-0.5-1	Total/NA	Solid	7471A	257082
720-90330-7	DG-Y2S-3.5-4	Total/NA	Solid	7471A	257082
720-90330-8	DG-Z2S-0.5-1	Total/NA	Solid	7471A	257082
720-90330-9	DG-Z2S-3.5-4	Total/NA	Solid	7471A	257082
720-90330-10	DG-AA2S-0.5-1	Total/NA	Solid	7471A	257082
720-90330-11	DG-AA2S-3.5-4	Total/NA	Solid	7471A	257082
MB 720-257082/1-A	Method Blank	Total/NA	Solid	7471A	257082
LCS 720-257082/2-A	Lab Control Sample	Total/NA	Solid	7471A	257082
720-90329-A-22-A MS	Matrix Spike	Total/NA	Solid	7471A	257082
720-90329-A-22-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257082

Analysis Batch: 257823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-12	DG-AB2S-0.5-1	Total/NA	Solid	7471A	257087
720-90330-13	DG-AB2S-3.5-4	Total/NA	Solid	7471A	257087
720-90330-14	DG-AB2S-7-7.5	Total/NA	Solid	7471A	257087
720-90330-15	DG-AC2S-0.5-1	Total/NA	Solid	7471A	257087
720-90330-16	DG-AC2S-3.5-4	Total/NA	Solid	7471A	257087
720-90330-17	DG-AD2S-0.5-1	Total/NA	Solid	7471A	257087
720-90330-18	DG-AD2S-3.5-4	Total/NA	Solid	7471A	257087
720-90330-19	DUP-08	Total/NA	Solid	7471A	257087
720-90330-20	DG-AE2S-0.5-1	Total/NA	Solid	7471A	257087
720-90330-21	DG-AE2S-3.5-4	Total/NA	Solid	7471A	257087
720-90330-22	DG-AF2S-0.5-1	Total/NA	Solid	7471A	257087
720-90330-23	DG-AF2S-3.5-4	Total/NA	Solid	7471A	257087
720-90330-24	DUP-09	Total/NA	Solid	7471A	257087
720-90330-25	DG-AG2S-0.5-1	Total/NA	Solid	7471A	257087
720-90330-26	DG-AG2S-3.5-4	Total/NA	Solid	7471A	257087
720-90330-27	DG-AG2S-10-10.5	Total/NA	Solid	7471A	257087
720-90330-28	DG-AH2S-0.5-1	Total/NA	Solid	7471A	257087
720-90330-29	DG-AH2S-3.5-4	Total/NA	Solid	7471A	257087
720-90330-30	DUP-10	Total/NA	Solid	7471A	257087
720-90330-31	DG-AI2S-0.5-1	Total/NA	Solid	7471A	257087
MB 720-257087/1-A	Method Blank	Total/NA	Solid	7471A	257087
LCS 720-257087/2-A	Lab Control Sample	Total/NA	Solid	7471A	257087
720-90330-17 MS	DG-AD2S-0.5-1	Total/NA	Solid	7471A	257087
720-90330-17 MSD	DG-AD2S-0.5-1	Total/NA	Solid	7471A	257087

Analysis Batch: 257867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-32	DG-AI2S-3.5-4	Total/NA	Solid	7471A	257234
720-90330-33	DG-AJ2S-0.5-1	Total/NA	Solid	7471A	257234
720-90330-34	DG-AJ2S-3.5-4	Total/NA	Solid	7471A	257234
720-90330-35	DG-AK2S-0.5-1	Total/NA	Solid	7471A	257234
720-90330-36	DG-AK2S-3.5-4	Total/NA	Solid	7471A	257234
MB 720-257234/1-A	Method Blank	Total/NA	Solid	7471A	257234
LCS 720-257234/2-A	Lab Control Sample	Total/NA	Solid	7471A	257234
720-90386-A-5-A MS	Matrix Spike	Total/NA	Solid	7471A	257234
720-90386-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257234

General Chemistry

Analysis Batch: 257131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-12	DG-AB2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-13	DG-AB2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-14	DG-AB2S-7-7.5	Total/NA	Solid	Moisture	
720-90330-15	DG-AC2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-16	DG-AC2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-17	DG-AD2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-18	DG-AD2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-19	DUP-08	Total/NA	Solid	Moisture	
720-90330-20	DG-AE2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-21	DG-AE2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-22	DG-AF2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-23	DG-AF2S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257131 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-24	DUP-09	Total/NA	Solid	Moisture	
720-90330-25	DG-AG2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-26	DG-AG2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-27	DG-AG2S-10-10.5	Total/NA	Solid	Moisture	
720-90330-28	DG-AH2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-29	DG-AH2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-30	DUP-10	Total/NA	Solid	Moisture	
720-90330-31	DG-AI2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-17 DU	DG-AD2S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 257134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-32	DG-AI2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-33	DG-AJ2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-34	DG-AJ2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-35	DG-AK2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-36	DG-AK2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-33 DU	DG-AJ2S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 257215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90330-1	DG-W2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-2	DG-W2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-3	DG-W2S-8.5-9	Total/NA	Solid	Moisture	
720-90330-4	DG-X2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-5	DG-X2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-6	DG-Y2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-7	DG-Y2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-8	DG-Z2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-9	DG-Z2S-3.5-4	Total/NA	Solid	Moisture	
720-90330-10	DG-AA2S-0.5-1	Total/NA	Solid	Moisture	
720-90330-11	DG-AA2S-3.5-4	Total/NA	Solid	Moisture	
720-90329-A-24 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-W2S-0.5-1

Lab Sample ID: 720-90330-1

Date Collected: 12/14/18 08:10

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:12	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-W2S-3.5-4

Lab Sample ID: 720-90330-2

Date Collected: 12/14/18 08:10

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:16	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-W2S-8.5-9

Lab Sample ID: 720-90330-3

Date Collected: 12/14/18 08:10

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:30	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-X2S-0.5-1

Lab Sample ID: 720-90330-4

Date Collected: 12/14/18 08:35

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:35	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		4	257814	12/31/18 13:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-X2S-3.5-4

Lab Sample ID: 720-90330-5

Date Collected: 12/14/18 08:35

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:39	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-Y2S-0.5-1

Lab Sample ID: 720-90330-6

Date Collected: 12/14/18 09:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:44	BKR	TAL PLS
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257279	12/19/18 12:39	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-Y2S-3.5-4

Lab Sample ID: 720-90330-7

Date Collected: 12/14/18 09:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:49	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-Z2S-0.5-1

Lab Sample ID: 720-90330-8

Date Collected: 12/14/18 09:25

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 17:53	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-Z2S-3.5-4

Lab Sample ID: 720-90330-9

Date Collected: 12/14/18 09:25

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257080	12/18/18 08:53	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257220	12/18/18 16:12	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		10	257814	12/31/18 13:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-AA2S-0.5-1

Lab Sample ID: 720-90330-10

Date Collected: 12/14/18 09:40

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257203	12/18/18 19:09	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257260	12/19/18 11:40	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-AA2S-3.5-4

Lab Sample ID: 720-90330-11

Date Collected: 12/14/18 09:40

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257203	12/18/18 19:09	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257260	12/19/18 11:44	BKR	TAL PLS
Total/NA	Prep	7471A			257082	12/31/18 09:37	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257814	12/31/18 13:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257215	12/18/18 23:41	ECB	TAL PLS

Client Sample ID: DG-AB2S-0.5-1

Lab Sample ID: 720-90330-12

Date Collected: 12/14/18 11:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257203	12/18/18 19:09	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257260	12/19/18 11:49	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AB2S-3.5-4

Lab Sample ID: 720-90330-13

Date Collected: 12/14/18 11:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257203	12/18/18 19:09	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257260	12/19/18 11:54	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		2	257823	12/31/18 15:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AB2S-7-7.5

Lab Sample ID: 720-90330-14

Date Collected: 12/14/18 11:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 14:48	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AC2S-0.5-1

Lab Sample ID: 720-90330-15

Date Collected: 12/14/18 11:20

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 14:53	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AC2S-3.5-4

Lab Sample ID: 720-90330-16

Date Collected: 12/14/18 11:20

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 14:57	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		4	257823	12/31/18 15:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AD2S-0.5-1

Lab Sample ID: 720-90330-17

Date Collected: 12/14/18 11:35

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 14:43	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AD2S-3.5-4

Lab Sample ID: 720-90330-18

Date Collected: 12/14/18 11:35

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:12	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DUP-08

Lab Sample ID: 720-90330-19

Date Collected: 12/14/18 00:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:17	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AE2S-0.5-1

Lab Sample ID: 720-90330-20

Date Collected: 12/14/18 11:50

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257190	12/19/18 09:43	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257357	12/20/18 10:49	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AE2S-3.5-4

Lab Sample ID: 720-90330-21

Date Collected: 12/14/18 11:50

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257190	12/19/18 09:43	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257357	12/20/18 10:54	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		4	257823	12/31/18 15:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AF2S-0.5-1

Lab Sample ID: 720-90330-22

Date Collected: 12/14/18 13:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257190	12/19/18 09:43	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257357	12/20/18 11:08	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 15:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AF2S-3.5-4

Lab Sample ID: 720-90330-23

Date Collected: 12/14/18 13:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257190	12/19/18 09:43	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257357	12/20/18 11:12	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DUP-09

Lab Sample ID: 720-90330-24

Date Collected: 12/14/18 00:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257190	12/19/18 09:43	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257357	12/20/18 11:17	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AG2S-0.5-1

Lab Sample ID: 720-90330-25

Date Collected: 12/14/18 13:30
Matrix: Solid
Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257190	12/19/18 09:43	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257357	12/20/18 11:22	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AG2S-3.5-4

Lab Sample ID: 720-90330-26

Date Collected: 12/14/18 13:30
Matrix: Solid
Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257190	12/19/18 09:43	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257357	12/20/18 11:26	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AG2S-10-10.5

Lab Sample ID: 720-90330-27

Date Collected: 12/14/18 13:30
Matrix: Solid
Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:21	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 14:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AH2S-0.5-1

Lab Sample ID: 720-90330-28

Date Collected: 12/14/18 14:05
Matrix: Solid
Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:26	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 15:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AH2S-3.5-4

Lab Sample ID: 720-90330-29

Date Collected: 12/14/18 14:05

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:31	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 15:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DUP-10

Lab Sample ID: 720-90330-30

Date Collected: 12/14/18 00:00

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:36	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257823	12/31/18 15:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AI2S-0.5-1

Lab Sample ID: 720-90330-31

Date Collected: 12/14/18 14:45

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:40	BKR	TAL PLS
Total/NA	Prep	7471A			257087	12/31/18 10:10	GLL	TAL PLS
Total/NA	Analysis	7471A		4	257823	12/31/18 15:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257131	12/17/18 21:29	ECB	TAL PLS

Client Sample ID: DG-AI2S-3.5-4

Lab Sample ID: 720-90330-32

Date Collected: 12/14/18 14:45

Matrix: Solid

Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:45	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257134	12/17/18 22:11	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Client Sample ID: DG-AJ2S-0.5-1

Lab Sample ID: 720-90330-33

Date Collected: 12/14/18 14:55
Matrix: Solid
Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:50	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257134	12/17/18 22:11	ECB	TAL PLS

Client Sample ID: DG-AJ2S-3.5-4

Lab Sample ID: 720-90330-34

Date Collected: 12/14/18 14:55
Matrix: Solid
Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 15:54	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257134	12/17/18 22:11	ECB	TAL PLS

Client Sample ID: DG-AK2S-0.5-1

Lab Sample ID: 720-90330-35

Date Collected: 12/14/18 15:15
Matrix: Solid
Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 16:09	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257134	12/17/18 22:11	ECB	TAL PLS

Client Sample ID: DG-AK2S-3.5-4

Lab Sample ID: 720-90330-36

Date Collected: 12/14/18 15:15
Matrix: Solid
Date Received: 12/14/18 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 16:14	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257134	12/17/18 22:11	ECB	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90330-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90330-1	DG-W2S-0.5-1	Solid	12/14/18 08:10	12/14/18 18:00
720-90330-2	DG-W2S-3.5-4	Solid	12/14/18 08:10	12/14/18 18:00
720-90330-3	DG-W2S-8.5-9	Solid	12/14/18 08:10	12/14/18 18:00
720-90330-4	DG-X2S-0.5-1	Solid	12/14/18 08:35	12/14/18 18:00
720-90330-5	DG-X2S-3.5-4	Solid	12/14/18 08:35	12/14/18 18:00
720-90330-6	DG-Y2S-0.5-1	Solid	12/14/18 09:00	12/14/18 18:00
720-90330-7	DG-Y2S-3.5-4	Solid	12/14/18 09:00	12/14/18 18:00
720-90330-8	DG-Z2S-0.5-1	Solid	12/14/18 09:25	12/14/18 18:00
720-90330-9	DG-Z2S-3.5-4	Solid	12/14/18 09:25	12/14/18 18:00
720-90330-10	DG-AA2S-0.5-1	Solid	12/14/18 09:40	12/14/18 18:00
720-90330-11	DG-AA2S-3.5-4	Solid	12/14/18 09:40	12/14/18 18:00
720-90330-12	DG-AB2S-0.5-1	Solid	12/14/18 11:00	12/14/18 18:00
720-90330-13	DG-AB2S-3.5-4	Solid	12/14/18 11:00	12/14/18 18:00
720-90330-14	DG-AB2S-7-7.5	Solid	12/14/18 11:00	12/14/18 18:00
720-90330-15	DG-AC2S-0.5-1	Solid	12/14/18 11:20	12/14/18 18:00
720-90330-16	DG-AC2S-3.5-4	Solid	12/14/18 11:20	12/14/18 18:00
720-90330-17	DG-AD2S-0.5-1	Solid	12/14/18 11:35	12/14/18 18:00
720-90330-18	DG-AD2S-3.5-4	Solid	12/14/18 11:35	12/14/18 18:00
720-90330-19	DUP-08	Solid	12/14/18 00:00	12/14/18 18:00
720-90330-20	DG-AE2S-0.5-1	Solid	12/14/18 11:50	12/14/18 18:00
720-90330-21	DG-AE2S-3.5-4	Solid	12/14/18 11:50	12/14/18 18:00
720-90330-22	DG-AF2S-0.5-1	Solid	12/14/18 13:00	12/14/18 18:00
720-90330-23	DG-AF2S-3.5-4	Solid	12/14/18 13:00	12/14/18 18:00
720-90330-24	DUP-09	Solid	12/14/18 00:00	12/14/18 18:00
720-90330-25	DG-AG2S-0.5-1	Solid	12/14/18 13:30	12/14/18 18:00
720-90330-26	DG-AG2S-3.5-4	Solid	12/14/18 13:30	12/14/18 18:00
720-90330-27	DG-AG2S-10-10.5	Solid	12/14/18 13:30	12/14/18 18:00
720-90330-28	DG-AH2S-0.5-1	Solid	12/14/18 14:05	12/14/18 18:00
720-90330-29	DG-AH2S-3.5-4	Solid	12/14/18 14:05	12/14/18 18:00
720-90330-30	DUP-10	Solid	12/14/18 00:00	12/14/18 18:00
720-90330-31	DG-AI2S-0.5-1	Solid	12/14/18 14:45	12/14/18 18:00
720-90330-32	DG-AI2S-3.5-4	Solid	12/14/18 14:45	12/14/18 18:00
720-90330-33	DG-AJ2S-0.5-1	Solid	12/14/18 14:55	12/14/18 18:00
720-90330-34	DG-AJ2S-3.5-4	Solid	12/14/18 14:55	12/14/18 18:00
720-90330-35	DG-AK2S-0.5-1	Solid	12/14/18 15:15	12/14/18 18:00
720-90330-36	DG-AK2S-3.5-4	Solid	12/14/18 15:15	12/14/18 18:00

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-90330

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
181360
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 14 DEC 2018	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name. Brisbane OU2 Investigation	☐ 1 week			720-90330 Chain of Custody
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1. DG-W2S-0.5-1	12/14/18	0810	G	S	1	N	N	X	
2. DG-W2S-3.5-4		0810			1			X	
3. DG-W2S-8.5-9		0810			1			X	
4. DG-X2S-0.5-1		0835			1			X	
5. DG-X2S-3.5-4		0835			1			X	
6. DG-Y2S-0.5-1		0900			1			X	
DG-Y2S-3.5-4		0900			1			X	
DG-Z2S-0.5-1		~~0920~~ 0925			1			X	
DG-Z2S-3.5-4		~~0940~~ 0925			1			X	
DG-AA2-0.5-1		0940			1			X	
DG-AA2-3.5-4		0940			1			X	
DG-					1			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

2.0°C, 0.9°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____		
Relinquished by: Chelsea Bokman	Company: Geosyntec	Date/Time: 12/14/18 1600	Received by:	Company: TA PLS	Date/Time: 12-14-18 1600
Relinquished by:	Company: TA PLS	Date/Time: 12-14-18 1800	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12-14-18 1800

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-91330

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
~~TA-PLS~~ 418736
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 14 Dec. 2018	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client.
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
12	DG-AB2s-0.5-1	12/14/18	1100	G	S	1	N	N	X	
13	DG-AB2s-3.5-4		1100			1		N	X	
14	DG-AB2s-7-7.5		1100			1		N	X	
15	~~DG-AF2s~~ DG-AC2s-0.5-1		~~1135~~ 1120	1120		1		N	X	
16	DG-AC2s-3.5-4		~~1135~~ 1120			1		N	X	
17	DG-AD2s-0.5-1		1135			3		X	X	X = yes For MS/MSD
18	DG-AD2s-3.5-4		1135			1		N	X	
19	~~DG~~ DUP-08		—			1		N	X	
20	DG-AE2s-0.5-1		1150			1		N	X	
21	DG-AE2s-3.5-4		1150			1		N	X	
22	~~DG-AF2s-0.5~~ DG-AF2s-0.5-1		1300			1		N	X	
23	DG-AF2s-3.5-4		1300			1		N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by Chekea Bokman	Company Geosyntec	Date/Time 12/14/18 1600	Received by	Company TA PLS	Date/Time 12-14-18 16:00
Relinquished by	Company TA PLS	Date/Time ~~1800~~ 12-14-18	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/14/18 1800

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/2/2019

TestAmerica Pleasanton 720-90330
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18736
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 14 Dec 2018	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
~~DG-AF2S-0.5~~ (A) DUP-09	12/14/18	[redacted] (B)	G	S	1	N	N	X	
DG-AG2S-0.5-1		1330			1		N	X	
DG-AG2S-3.5-4		1330			1		N	X	
DG-AG2S-10-10.5		1330			1		N	X	
DG-AH2S-0.5-1		1405			1		N	X	
DG-AH2S-3.5-4		1405			1		N	X	
DUP-10		[redacted] (B)			1		N	X	
~~DG-AI2S-0.5~~ (A) DG-AI2S-0.5-1		1445			1		N	X	
DG-AI2S-3.5-4		1445			1		N	X	
DG-AJ2S-0.5-1		1455			1		N	X	
DG-AJ2S-3.5-4		1455			1		N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No. ____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Chuwen Bo'man	Geosyntec 1600	12/14/18		TA PLS	12-14-18 16:00
Relinquished by	Company	Date/Time 1810 12-14-18	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/2/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600 3002

720-90330

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
~~184366~~ 187360
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes:
33 DG-AK25-0.5-1	12/14/18	1515	G	S	1	N	N	X	
34 DG-AK25-3.5-4	12/14/18	1515	G	S	1	N	N	X	
37 DG-AG2-3-3.5	12/14/18	1330	G	S	1	N	N	X	HOLD

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by Chelsea Bokman	Company Geosyntec	Date/Time 12/14/18 1600	Received by	Company TA PLS	Date/Time 12-14-18 16:00
Relinquished by	Company TA PLS	Date/Time 16:20 12-14-18	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA	Date/Time 1800 12/14/18

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/2/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90330-1

Login Number: 90330
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Monday, December 17, 2018 11:25 AM
To: Bondoc, Christian M.; Krzysztof Jesionek; Anthony Smith
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90330-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi there,

Yes, please log per the container labels.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Monday, December 17, 2018 10:51 AM
To: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90330-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90330-1; Brisbane OU-2 Data Gap Investigation

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#10) DG-AA2S-0.5-1. The container labels list DG-AA2S-0.5-1, while the COC lists DG-AA2-0.5-1.
(#11) DG-AA2S-3.5-4. The container labels list DG-AA2S-3.5-4, while the COC lists DG-AA2-0.5-1.
These were logged in per the container labels, however please confirm if this is correct.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [489131]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90382-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
12/31/2018 4:08:32 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90382-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90382-1

Comments
No additional comments.

Receipt
The samples were received on 12/17/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.3º C, 0.5º C, 1.5º C, 2.7º C and 4.0º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C SIM: Internal standard response of Perylene-d12 (%REC=46.98%) was below acceptance limits (50-200%) for the following sample: DG-V1W (720-90382-2). The sample shows evidence of matrix interference. The affected analytes are qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-518314 and analytical batch 440-518364. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-518314/2-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257456 and analytical batch 720-257686 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume: DG-V1W (720-90382-2). The reporting limits (RLs) are elevated proportionately.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 3520C_8270C-SIM-PAHpreparation batch 440-518455.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518452.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Client Sample ID: DG-X1W — Lab Sample ID: 720-90382-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.3		0.50	0.25	ug/L	1		8260B	Total/NA
Phenanthrene	0.23		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.12	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Chrysene	0.19	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.51		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.47		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.14	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.88		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.64		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.32		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	0.69		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	290	J	480	95	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160	J	480	95	ug/L	1		8015B	Total/NA
Arsenic	11		10	2.9	ug/L	1		6010B	Dissolved
Barium	59		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.59	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	0.72	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.7	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	8.9		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.5	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	7.4		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	5.3	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	9.2	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.5	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-V1W — Lab Sample ID: 720-90382-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.11	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.13	J *	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.13	J *	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.11	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	0.51		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3200		950	190	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	3300		950	190	ug/L	1		8015B	Total/NA
Arsenic	12		10	2.9	ug/L	1		6010B	Dissolved
Barium	49	J	50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.61	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	0.41	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.4	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	6.7		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	7.4		5.0	2.2	ug/L	1		6010B	Dissolved
Nickel	6.4	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	3.7	J	10	3.5	ug/L	1		6010B	Dissolved

Client Sample ID: DG-T1W — Lab Sample ID: 720-90382-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.15	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	0.23		0.20	0.099	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample ID: DG-T1W (Continued) — Lab Sample ID: 720-90382-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	270	J	480	95	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160	J	480	95	ug/L	1		8015B	Total/NA
Arsenic	9.5	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	48	J	50	1.6	ug/L	1		6010B	Dissolved
Beryllium	1.1	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	0.90	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	2.0	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	7.5		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.8	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	6.7		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.1	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	7.1	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.6	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: FB-12.17.18 — Lab Sample ID: 720-90382-4

No Detections.

Client Sample ID: DG-R1W — Lab Sample ID: 720-90382-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.14	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	200	J	480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	26		10	2.9	ug/L	1		6010B	Dissolved
Barium	56		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.23	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	0.81	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	4.6		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.5	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	6.5		5.0	2.2	ug/L	1		6010B	Dissolved
Nickel	4.1	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.0	J	10	0.87	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Client Sample ID: DG-X1W
Date Collected: 12/17/18 10:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/27/18 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*12/27/18 13:52*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*12/27/18 13:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/27/18 13:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.3**		0.50	0.25	ug/L			12/27/18 13:52	1
Acetone	ND		20	10	ug/L			12/27/18 13:52	1
Benzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Bromobenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Bromoform	ND		1.0	0.40	ug/L			12/27/18 13:52	1
Bromomethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/27/18 13:52	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/27/18 13:52	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/27/18 13:52	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Chloroethane	ND		1.0	0.40	ug/L			12/27/18 13:52	1
Chloroform	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Chloromethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/27/18 13:52	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Dibromomethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/27/18 13:52	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/27/18 13:52	1

Client Sample ID: DG-X1W
Date Collected: 12/17/18 10:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/27/18 13:52	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/27/18 13:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/27/18 13:52	1
Naphthalene	ND		1.0	0.40	ug/L			12/27/18 13:52	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Styrene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Toluene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 13:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 13:52	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Trichloroethene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/27/18 13:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/27/18 13:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/27/18 13:52	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/27/18 13:52	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/27/18 13:52	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/27/18 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*12/27/18 13:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/27/18 13:52*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Acenaphthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Fluorene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Phenanthrene	**0.23**		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Benzo[a]anthracene	**0.12**	**J**	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Chrysene	**0.19**	**J**	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Benzo[a]pyrene	**0.51**		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Benzo[b]fluoranthene	**0.47**		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Benzo[k]fluoranthene	**0.14**	**J**	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Benzo[g,h,i]perylene	**0.88**		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Indeno[1,2,3-cd]pyrene	**0.64**		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Fluoranthene	**0.32**		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Pyrene	**0.69**		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:06	1

Client Sample ID: DG-X1W

Date Collected: 12/17/18 10:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*58*		*21 - 120*	*12/20/18 11:59*	*12/24/18 14:06*	*1*
Nitrobenzene-d5	*97*		*10 - 120*	*12/20/18 11:59*	*12/24/18 14:06*	*1*
2-Fluorobiphenyl (Surr)	*97*		*38 - 120*	*12/20/18 11:59*	*12/24/18 14:06*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**290**	**J**	480	95	ug/L		12/20/18 05:47	12/20/18 15:09	1
Motor Oil Range Organics [C24-C36]	**160**	**J**	480	95	ug/L		12/20/18 05:47	12/20/18 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*73*		*45 - 120*	*12/20/18 05:47*	*12/20/18 15:09*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 13:17	1
Arsenic	**11**		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:17	1
Barium	**59**		50	1.6	ug/L		12/21/18 14:27	12/27/18 13:17	1
Beryllium	**0.59**	**J**	2.0	0.59	ug/L		12/21/18 14:27	12/27/18 13:17	1
Cadmium	**0.72**	**J**	2.0	0.21	ug/L		12/21/18 14:27	12/27/18 13:17	1
Chromium	**1.7**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 13:17	1
Cobalt	**8.9**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 13:17	1
Copper	**4.5**	**J**	20	3.7	ug/L		12/21/18 14:27	12/27/18 13:17	1
Lead	**7.4**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 13:17	1
Molybdenum	**5.3**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 13:17	1
Nickel	**9.2**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 13:17	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 13:17	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 13:17	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 13:17	1
Vanadium	**1.5**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 13:17	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 13:17	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/20/18 19:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/17/18 20:26	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Client Sample ID: DG-V1W
Date Collected: 12/17/18 11:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/27/18 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*12/27/18 14:16*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*12/27/18 14:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/27/18 14:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Acetone	ND		20	10	ug/L			12/27/18 14:16	1
Benzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Bromobenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Bromoform	ND		1.0	0.40	ug/L			12/27/18 14:16	1
Bromomethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/27/18 14:16	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/27/18 14:16	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/27/18 14:16	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Chloroethane	ND		1.0	0.40	ug/L			12/27/18 14:16	1
Chloroform	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Chloromethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/27/18 14:16	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Dibromomethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/27/18 14:16	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/27/18 14:16	1

Client Sample ID: DG-V1W

Date Collected: 12/17/18 11:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/27/18 14:16	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/27/18 14:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/27/18 14:16	1
Naphthalene	ND		1.0	0.40	ug/L			12/27/18 14:16	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Styrene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Toluene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 14:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 14:16	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Trichloroethene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/27/18 14:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/27/18 14:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/27/18 14:16	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/27/18 14:16	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/27/18 14:16	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/27/18 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*12/27/18 14:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/27/18 14:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Acenaphthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Fluorene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Phenanthrene	**0.11**	**J**	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Chrysene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Benzo[a]pyrene	ND	*	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Benzo[b]fluoranthene	**0.13**	**J ***	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Benzo[k]fluoranthene	ND	*	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Benzo[g,h,i]perylene	**0.13**	**J ***	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Indeno[1,2,3-cd]pyrene	ND	*	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Fluoranthene	**0.11**	**J**	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Pyrene	**0.51**		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1
Dibenz(a,h)anthracene	ND	*	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 15:19	1

Client Sample ID: DG-V1W

Date Collected: 12/17/18 11:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*40*		*21 - 120*	*12/20/18 11:59*	*12/24/18 15:19*	*1*
Nitrobenzene-d5	*68*		*10 - 120*	*12/20/18 11:59*	*12/24/18 15:19*	*1*
2-Fluorobiphenyl (Surr)	*68*		*38 - 120*	*12/20/18 11:59*	*12/24/18 15:19*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3200**		950	190	ug/L		12/20/18 05:47	12/20/18 14:25	1
Motor Oil Range Organics [C24-C36]	**3300**		950	190	ug/L		12/20/18 05:47	12/20/18 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*45 - 120*	*12/20/18 05:47*	*12/20/18 14:25*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 13:22	1
Arsenic	**12**		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:22	1
Barium	**49**	**J**	50	1.6	ug/L		12/21/18 14:27	12/27/18 13:22	1
Beryllium	**0.61**	**J**	2.0	0.59	ug/L		12/21/18 14:27	12/27/18 13:22	1
Cadmium	**0.41**	**J**	2.0	0.21	ug/L		12/21/18 14:27	12/27/18 13:22	1
Chromium	**1.4**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 13:22	1
Cobalt	**6.7**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 13:22	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 13:22	1
Lead	**7.4**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 13:22	1
Molybdenum	ND		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:22	1
Nickel	**6.4**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 13:22	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 13:22	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 13:22	1
Thallium	**3.7**	**J**	10	3.5	ug/L		12/21/18 14:27	12/27/18 13:22	1
Vanadium	ND		10	0.87	ug/L		12/21/18 14:27	12/27/18 13:22	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 13:22	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/20/18 19:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/17/18 20:26	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Client Sample ID: DG-T1W
Date Collected: 12/17/18 13:08
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/27/18 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*12/27/18 14:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/27/18 14:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/27/18 14:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Acetone	ND		20	10	ug/L			12/27/18 14:40	1
Benzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Bromobenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Bromoform	ND		1.0	0.40	ug/L			12/27/18 14:40	1
Bromomethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/27/18 14:40	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/27/18 14:40	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/27/18 14:40	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Chloroethane	ND		1.0	0.40	ug/L			12/27/18 14:40	1
Chloroform	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Chloromethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/27/18 14:40	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Dibromomethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/27/18 14:40	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/27/18 14:40	1

Client Sample ID: DG-T1W

Date Collected: 12/17/18 13:08
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/27/18 14:40	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/27/18 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/27/18 14:40	1
Naphthalene	ND		1.0	0.40	ug/L			12/27/18 14:40	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Styrene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Toluene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 14:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 14:40	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Trichloroethene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/27/18 14:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/27/18 14:40	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/27/18 14:40	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/27/18 14:40	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/27/18 14:40	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/27/18 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*12/27/18 14:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/27/18 14:40*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Acenaphthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Fluorene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Phenanthrene	**0.15**	**J**	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Chrysene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Fluoranthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Pyrene	**0.23**		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:30	1

Client Sample ID: DG-T1W

Date Collected: 12/17/18 13:08
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*41*		*21 - 120*	*12/20/18 11:59*	*12/24/18 14:30*	*1*
Nitrobenzene-d5	*78*		*10 - 120*	*12/20/18 11:59*	*12/24/18 14:30*	*1*
2-Fluorobiphenyl (Surr)	*86*		*38 - 120*	*12/20/18 11:59*	*12/24/18 14:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**270**	**J**	480	95	ug/L		12/20/18 05:47	12/20/18 15:30	1
Motor Oil Range Organics [C24-C36]	**160**	**J**	480	95	ug/L		12/20/18 05:47	12/20/18 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*45 - 120*	*12/20/18 05:47*	*12/20/18 15:30*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 13:12	1
Arsenic	**9.5**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 13:12	1
Barium	**48**	**J**	50	1.6	ug/L		12/21/18 14:27	12/27/18 13:12	1
Beryllium	**1.1**	**J**	2.0	0.59	ug/L		12/21/18 14:27	12/27/18 13:12	1
Cadmium	**0.90**	**J**	2.0	0.21	ug/L		12/21/18 14:27	12/27/18 13:12	1
Chromium	**2.0**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 13:12	1
Cobalt	**7.5**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 13:12	1
Copper	**4.8**	**J**	20	3.7	ug/L		12/21/18 14:27	12/27/18 13:12	1
Lead	**6.7**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 13:12	1
Molybdenum	**4.1**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 13:12	1
Nickel	**7.1**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 13:12	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 13:12	1
Silver	ND	F1 F2	5.0	2.0	ug/L		12/21/18 14:27	12/27/18 13:12	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 13:12	1
Vanadium	**1.6**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 13:12	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 13:12	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/20/18 19:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/17/18 20:26	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Client Sample ID: FB-12.17.18
Date Collected: 12/17/18 13:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/27/18 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*12/27/18 15:05*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/27/18 15:05*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/27/18 15:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Acetone	ND		20	10	ug/L			12/27/18 15:05	1
Benzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Bromobenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Bromoform	ND		1.0	0.40	ug/L			12/27/18 15:05	1
Bromomethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/27/18 15:05	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/27/18 15:05	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/27/18 15:05	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Chloroethane	ND		1.0	0.40	ug/L			12/27/18 15:05	1
Chloroform	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Chloromethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/27/18 15:05	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Dibromomethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/27/18 15:05	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/27/18 15:05	1

Client Sample ID: FB-12.17.18
Date Collected: 12/17/18 13:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/27/18 15:05	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/27/18 15:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/27/18 15:05	1
Naphthalene	ND		1.0	0.40	ug/L			12/27/18 15:05	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Styrene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Toluene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 15:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 15:05	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Trichloroethene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/27/18 15:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/27/18 15:05	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/27/18 15:05	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/27/18 15:05	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/27/18 15:05	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/27/18 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*12/27/18 15:05*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/27/18 15:05*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Client Sample ID: DG-R1W
Date Collected: 12/17/18 15:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/27/18 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*12/27/18 15:30*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/27/18 15:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/27/18 15:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Acetone	ND		20	10	ug/L			12/27/18 15:30	1
Benzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Bromobenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Bromoform	ND		1.0	0.40	ug/L			12/27/18 15:30	1
Bromomethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/27/18 15:30	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/27/18 15:30	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/27/18 15:30	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Chloroethane	ND		1.0	0.40	ug/L			12/27/18 15:30	1
Chloroform	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Chloromethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/27/18 15:30	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Dibromomethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/27/18 15:30	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/27/18 15:30	1

Client Sample ID: DG-R1W
Date Collected: 12/17/18 15:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/27/18 15:30	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/27/18 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/27/18 15:30	1
Naphthalene	ND		1.0	0.40	ug/L			12/27/18 15:30	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Styrene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Toluene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 15:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 15:30	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Trichloroethene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/27/18 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/27/18 15:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/27/18 15:30	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/27/18 15:30	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/27/18 15:30	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/27/18 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*12/27/18 15:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/27/18 15:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Acenaphthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Fluorene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Phenanthrene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Chrysene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Fluoranthene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Pyrene	**0.14**	**J**	0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		12/20/18 11:59	12/24/18 14:55	1

Client Sample ID: DG-R1W

Date Collected: 12/17/18 15:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*72*		*21 - 120*	*12/20/18 11:59*	*12/24/18 14:55*	*1*
Nitrobenzene-d5	*78*		*10 - 120*	*12/20/18 11:59*	*12/24/18 14:55*	*1*
2-Fluorobiphenyl (Surr)	*92*		*38 - 120*	*12/20/18 11:59*	*12/24/18 14:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**200**	**J**	480	96	ug/L		12/20/18 05:47	12/20/18 16:13	1
Motor Oil Range Organics [C24-C36]	**130**	**J**	480	96	ug/L		12/20/18 05:47	12/20/18 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*78*		*45 - 120*	*12/20/18 05:47*	*12/20/18 16:13*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 13:26	1
Arsenic	**26**		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:26	1
Barium	**56**		50	1.6	ug/L		12/21/18 14:27	12/27/18 13:26	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 13:26	1
Cadmium	**0.23**	**J**	2.0	0.21	ug/L		12/21/18 14:27	12/27/18 13:26	1
Chromium	**0.81**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 13:26	1
Cobalt	**4.6**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 13:26	1
Copper	**6.5**	**J**	20	3.7	ug/L		12/21/18 14:27	12/27/18 13:26	1
Lead	**6.5**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 13:26	1
Molybdenum	ND		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:26	1
Nickel	**4.1**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 13:26	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 13:26	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 13:26	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 13:26	1
Vanadium	**1.0**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 13:26	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 13:26	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/20/18 19:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/17/18 20:26	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	
Lab Sample ID	Client Sample ID	(70-130)	(80-128)	
440-227766-B-1 MS	Matrix Spike	98	96	
440-227766-B-1 MSD	Matrix Spike Duplicate	97	98	
720-90382-1	DG-X1W	107	100	
720-90382-2	DG-V1W	108	100	
720-90382-3	DG-T1W	110	100	
720-90382-4	FB-12.17.18	115	99	
720-90382-5	DG-R1W	114	99	
LCS 440-519467/5	Lab Control Sample	95	97	
MB 440-519467/4	Method Blank	98	101	

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	BFB	TOL	
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)	
440-227766-B-1 MS	Matrix Spike	101	101	96	
440-227766-B-1 MSD	Matrix Spike Duplicate	100	104	98	
720-90382-1	DG-X1W	107	102	100	
720-90382-2	DG-V1W	104	104	100	
720-90382-3	DG-T1W	106	100	100	
720-90382-4	FB-12.17.18	109	100	99	
720-90382-5	DG-R1W	108	99	99	
LCS 440-519468/6	Lab Control Sample	99	99	102	
MB 440-519468/4	Method Blank	100	100	101	

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TPHL	NBZ	FBP	
Lab Sample ID	Client Sample ID	(21-120)	(10-120)	(38-120)	
720-90382-1	DG-X1W	58	97	97	
720-90382-2	DG-V1W	40	68	68	
720-90382-3	DG-T1W	41	78	86	
720-90382-5	DG-R1W	72	78	92	
LCS 440-518455/2-A	Lab Control Sample	91	76	89	
LCSD 440-518455/3-A	Lab Control Sample Dup	104	88	97	
MB 440-518455/1-A	Method Blank	97	79	90	

Surrogate Legend

TPHL = Terphenyl-d14
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
720-90382-1	DG-X1W	73
720-90382-2	DG-V1W	77
720-90382-3	DG-T1W	75
720-90382-5	DG-R1W	78
LCS 440-518314/2-A	Lab Control Sample	76
LCSD 440-518314/3-A	Lab Control Sample Dup	73
MB 440-518314/1-A	Method Blank	82

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-519467/4
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Acetone	ND		20	10	ug/L			12/27/18 08:34	1
Benzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Bromobenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Bromoform	ND		1.0	0.40	ug/L			12/27/18 08:34	1
Bromomethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/27/18 08:34	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/27/18 08:34	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/27/18 08:34	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Chloroethane	ND		1.0	0.40	ug/L			12/27/18 08:34	1
Chloroform	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Chloromethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/27/18 08:34	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Dibromomethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/27/18 08:34	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
2-Hexanone	ND		5.0	2.5	ug/L			12/27/18 08:34	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/27/18 08:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/27/18 08:34	1
Naphthalene	ND		1.0	0.40	ug/L			12/27/18 08:34	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Styrene	ND		0.50	0.25	ug/L			12/27/18 08:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519467/4
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Toluene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 08:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/18 08:34	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Trichloroethene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/27/18 08:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/27/18 08:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/27/18 08:34	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/27/18 08:34	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/27/18 08:34	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/27/18 08:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*12/27/18 08:34*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*12/27/18 08:34*	*1*

Lab Sample ID: LCS 440-519467/5
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	21.9		ug/L		88	63 - 131
Acetone	25.0	21.0		ug/L		84	10 - 150
Benzene	25.0	22.4		ug/L		90	68 - 130
Dichlorobromomethane	25.0	25.8		ug/L		103	70 - 132
Bromobenzene	25.0	27.4		ug/L		110	70 - 130
Chlorobromomethane	25.0	23.6		ug/L		94	70 - 130
Bromoform	25.0	29.4		ug/L		118	60 - 148
Bromomethane	25.0	19.4		ug/L		78	64 - 139
2-Butanone (MEK)	25.0	25.6		ug/L		102	44 - 150
n-Butylbenzene	25.0	29.1		ug/L		117	65 - 150
sec-Butylbenzene	25.0	28.3		ug/L		113	70 - 138
tert-Butylbenzene	25.0	28.1		ug/L		113	70 - 130
Carbon disulfide	25.0	20.8		ug/L		83	52 - 136
Carbon tetrachloride	25.0	23.1		ug/L		93	60 - 150
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130
Chloroethane	25.0	17.8		ug/L		71	64 - 135
Chloroform	25.0	22.3		ug/L		89	70 - 130
Chloromethane	25.0	17.6		ug/L		71	47 - 140
2-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130
4-Chlorotoluene	25.0	27.1		ug/L		108	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519467/5
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	27.9		ug/L		112	69 - 145
1,2-Dichlorobenzene	25.0	27.7		ug/L		111	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	24.5		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	22.4		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	52 - 140
Ethylene Dibromide	25.0	26.8		ug/L		107	70 - 130
Dibromomethane	25.0	24.6		ug/L		99	70 - 130
Dichlorodifluoromethane	25.0	16.8		ug/L		67	29 - 150
1,1-Dichloroethane	25.0	21.6		ug/L		86	64 - 130
1,2-Dichloroethane	25.0	21.1		ug/L		84	57 - 138
1,1-Dichloroethene	25.0	22.4		ug/L		90	70 - 130
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	70 - 133
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	70 - 130
1,2-Dichloropropane	25.0	23.3		ug/L		93	67 - 130
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 133
trans-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 132
Ethylbenzene	25.0	23.9		ug/L		96	70 - 130
Hexachlorobutadiene	25.0	28.1		ug/L		112	10 - 150
2-Hexanone	25.0	22.8		ug/L		91	10 - 150
Isopropylbenzene	25.0	24.6		ug/L		98	70 - 136
4-Isopropyltoluene	25.0	27.6		ug/L		110	70 - 132
Methylene Chloride	25.0	20.9		ug/L		84	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	23.9		ug/L		96	59 - 149
Naphthalene	25.0	29.0		ug/L		116	60 - 140
N-Propylbenzene	25.0	28.0		ug/L		112	67 - 139
Styrene	25.0	26.0		ug/L		104	70 - 134
1,1,1,2-Tetrachloroethane	25.0	25.8		ug/L		103	60 - 141
1,1,2,2-Tetrachloroethane	25.0	28.0		ug/L		112	63 - 130
Tetrachloroethene	25.0	24.2		ug/L		97	70 - 130
Toluene	25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	25.0	28.5		ug/L		114	60 - 140
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	60 - 140
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
Trichloroethene	25.0	22.9		ug/L		92	70 - 130
Trichlorofluoromethane	25.0	21.6		ug/L		86	60 - 150
1,2,3-Trichloropropane	25.0	26.4		ug/L		106	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.4		ug/L		86	60 - 140
1,2,4-Trimethylbenzene	25.0	28.1		ug/L		112	70 - 135
1,3,5-Trimethylbenzene	25.0	28.1		ug/L		112	70 - 136
Vinyl acetate	25.0	23.5		ug/L		94	48 - 140
Vinyl chloride	25.0	19.6		ug/L		79	59 - 133
m-Xylene & p-Xylene	25.0	25.3		ug/L		101	70 - 130
o-Xylene	25.0	25.0		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	23.4		ug/L		94	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519467/5
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 440-227766-B-1 MS
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	0.86		25.0	23.2		ug/L		89	70 - 130
Acetone	ND		25.0	18.8	J	ug/L		75	10 - 150
Benzene	ND		25.0	23.0		ug/L		92	66 - 130
Dichlorobromomethane	ND		25.0	26.5		ug/L		106	70 - 138
Bromobenzene	ND		25.0	26.8		ug/L		107	70 - 130
Chlorobromomethane	ND		25.0	24.7		ug/L		99	70 - 130
Bromoform	ND		25.0	29.3		ug/L		117	59 - 150
Bromomethane	ND		25.0	20.5		ug/L		82	62 - 131
2-Butanone (MEK)	ND		25.0	24.9		ug/L		100	48 - 140
n-Butylbenzene	ND		25.0	29.7		ug/L		119	61 - 149
sec-Butylbenzene	ND		25.0	28.9		ug/L		116	67 - 134
tert-Butylbenzene	ND		25.0	28.7		ug/L		115	70 - 130
Carbon disulfide	ND		25.0	21.7		ug/L		87	49 - 140
Carbon tetrachloride	ND		25.0	24.5		ug/L		98	60 - 150
Chlorobenzene	ND		25.0	23.1		ug/L		93	70 - 130
Chloroethane	ND		25.0	19.0		ug/L		76	68 - 130
Chloroform	ND		25.0	23.3		ug/L		93	70 - 130
Chloromethane	ND		25.0	18.4		ug/L		73	39 - 144
2-Chlorotoluene	ND		25.0	27.3		ug/L		109	70 - 130
4-Chlorotoluene	ND		25.0	27.3		ug/L		109	70 - 130
Chlorodibromomethane	ND		25.0	28.0		ug/L		112	70 - 148
1,2-Dichlorobenzene	ND		25.0	27.8		ug/L		111	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		103	70 - 130
1,3-Dichloropropane	ND		25.0	24.5		ug/L		98	70 - 130
1,1-Dichloropropene	ND		25.0	23.3		ug/L		93	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	25.8		ug/L		103	48 - 140
Ethylene Dibromide	ND		25.0	26.1		ug/L		104	70 - 131
Dibromomethane	ND		25.0	25.0		ug/L		100	70 - 130
Dichlorodifluoromethane	ND		25.0	19.1		ug/L		77	25 - 142
1,1-Dichloroethane	ND		25.0	22.2		ug/L		89	65 - 130
1,2-Dichloroethane	ND		25.0	21.8		ug/L		87	56 - 146
1,1-Dichloroethene	ND		25.0	23.1		ug/L		93	70 - 130
cis-1,2-Dichloroethene	ND		25.0	24.2		ug/L		97	70 - 130
trans-1,2-Dichloroethene	ND		25.0	23.7		ug/L		95	70 - 130
1,2-Dichloropropane	ND		25.0	23.7		ug/L		95	69 - 130
cis-1,3-Dichloropropene	ND		25.0	26.9		ug/L		108	70 - 133
trans-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	70 - 138
Ethylbenzene	ND		25.0	24.4		ug/L		97	70 - 130
Hexachlorobutadiene	ND		25.0	30.1		ug/L		120	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-227766-B-1 MS
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	22.6		ug/L		91	10 - 150
Isopropylbenzene	ND		25.0	25.7		ug/L		103	70 - 132
4-Isopropyltoluene	ND		25.0	28.0		ug/L		112	70 - 130
Methylene Chloride	ND		25.0	22.1		ug/L		88	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	22.9		ug/L		91	52 - 150
Naphthalene	ND		25.0	28.8		ug/L		115	60 - 140
N-Propylbenzene	ND		25.0	28.3		ug/L		113	66 - 135
Styrene	ND		25.0	24.6		ug/L		99	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	27.9		ug/L		111	63 - 130
Tetrachloroethene	ND		25.0	25.0		ug/L		100	70 - 137
Toluene	ND		25.0	23.6		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	28.6		ug/L		114	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	28.1		ug/L		112	60 - 140
1,1,1-Trichloroethane	ND		25.0	25.3		ug/L		101	70 - 130
1,1,2-Trichloroethane	ND		25.0	26.4		ug/L		105	70 - 130
Trichloroethene	ND		25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	ND		25.0	23.1		ug/L		92	60 - 150
1,2,3-Trichloropropane	ND		25.0	25.9		ug/L		104	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.2		ug/L		93	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	28.2		ug/L		113	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	28.1		ug/L		112	70 - 130
Vinyl acetate	ND		25.0	23.9		ug/L		96	23 - 150
Vinyl chloride	ND		25.0	21.0		ug/L		84	50 - 137
m-Xylene & p-Xylene	ND		25.0	25.1		ug/L		100	70 - 133
o-Xylene	ND		25.0	25.4		ug/L		102	70 - 133
2,2-Dichloropropane	ND		25.0	25.2		ug/L		101	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-227766-B-1 MSD
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.86		25.0	23.2		ug/L		89	70 - 130	0	25
Acetone	ND		25.0	20.5		ug/L		82	10 - 150	9	35
Benzene	ND		25.0	23.0		ug/L		92	66 - 130	0	20
Dichlorobromomethane	ND		25.0	26.2		ug/L		105	70 - 138	1	20
Bromobenzene	ND		25.0	28.1		ug/L		112	70 - 130	5	20
Chlorobromomethane	ND		25.0	23.8		ug/L		95	70 - 130	4	25
Bromoform	ND		25.0	29.5		ug/L		118	59 - 150	1	25
Bromomethane	ND		25.0	20.2		ug/L		81	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	23.5		ug/L		94	48 - 140	6	40
n-Butylbenzene	ND		25.0	30.8		ug/L		123	61 - 149	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-227766-B-1 MSD
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	29.9		ug/L		119	67 - 134	3	20
tert-Butylbenzene	ND		25.0	29.5		ug/L		118	70 - 130	3	20
Carbon disulfide	ND		25.0	22.4		ug/L		89	49 - 140	3	20
Carbon tetrachloride	ND		25.0	24.7		ug/L		99	60 - 150	0	25
Chlorobenzene	ND		25.0	23.1		ug/L		93	70 - 130	0	20
Chloroethane	ND		25.0	18.1		ug/L		72	68 - 130	5	25
Chloroform	ND		25.0	22.8		ug/L		91	70 - 130	2	20
Chloromethane	ND		25.0	18.2		ug/L		73	39 - 144	1	25
2-Chlorotoluene	ND		25.0	28.8		ug/L		115	70 - 130	5	20
4-Chlorotoluene	ND		25.0	28.3		ug/L		113	70 - 130	3	20
Chlorodibromomethane	ND		25.0	27.5		ug/L		110	70 - 148	2	25
1,2-Dichlorobenzene	ND		25.0	28.3		ug/L		113	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	27.2		ug/L		109	70 - 130	3	20
1,4-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	3	20
1,3-Dichloropropane	ND		25.0	24.1		ug/L		96	70 - 130	2	25
1,1-Dichloropropene	ND		25.0	23.3		ug/L		93	64 - 130	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.7		ug/L		103	48 - 140	1	30
Ethylene Dibromide	ND		25.0	25.7		ug/L		103	70 - 131	2	25
Dibromomethane	ND		25.0	24.4		ug/L		98	70 - 130	2	25
Dichlorodifluoromethane	ND		25.0	18.4		ug/L		74	25 - 142	4	30
1,1-Dichloroethane	ND		25.0	22.4		ug/L		90	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	21.5		ug/L		86	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	23.1		ug/L		93	70 - 130	0	20
cis-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	24.4		ug/L		98	70 - 130	3	20
1,2-Dichloropropane	ND		25.0	24.0		ug/L		96	69 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	26.8		ug/L		107	70 - 133	1	20
trans-1,3-Dichloropropene	ND		25.0	24.3		ug/L		97	70 - 138	1	25
Ethylbenzene	ND		25.0	24.3		ug/L		97	70 - 130	0	20
Hexachlorobutadiene	ND		25.0	30.0		ug/L		120	10 - 150	0	20
2-Hexanone	ND		25.0	22.5		ug/L		90	10 - 150	0	35
Isopropylbenzene	ND		25.0	25.9		ug/L		104	70 - 132	1	20
4-Isopropyltoluene	ND		25.0	29.0		ug/L		116	70 - 130	3	20
Methylene Chloride	ND		25.0	21.5		ug/L		86	52 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	22.8		ug/L		91	52 - 150	0	35
Naphthalene	ND		25.0	29.5		ug/L		118	60 - 140	2	30
N-Propylbenzene	ND		25.0	30.0		ug/L		120	66 - 135	6	20
Styrene	ND		25.0	24.6		ug/L		98	29 - 150	0	35
1,1,1,2-Tetrachloroethane	ND		25.0	26.4		ug/L		106	60 - 149	0	20
1,1,2,2-Tetrachloroethane	ND		25.0	27.8		ug/L		111	63 - 130	0	30
Tetrachloroethene	ND		25.0	24.9		ug/L		100	70 - 137	0	20
Toluene	ND		25.0	23.5		ug/L		94	70 - 130	0	20
1,2,3-Trichlorobenzene	ND		25.0	29.3		ug/L		117	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	28.3		ug/L		113	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	25.2		ug/L		101	70 - 130	0	20
1,1,2-Trichloroethane	ND		25.0	26.2		ug/L		105	70 - 130	1	25
Trichloroethene	ND		25.0	23.9		ug/L		96	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	23.0		ug/L		92	60 - 150	0	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-227766-B-1 MSD
Matrix: Water
Analysis Batch: 519467

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	26.3		ug/L		105	60 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.1		ug/L		92	60 - 140	0	20
1,2,4-Trimethylbenzene	ND		25.0	29.5		ug/L		118	70 - 130	4	25
1,3,5-Trimethylbenzene	ND		25.0	29.6		ug/L		118	70 - 130	5	20
Vinyl acetate	ND		25.0	23.5		ug/L		94	23 - 150	2	30
Vinyl chloride	ND		25.0	20.3		ug/L		81	50 - 137	3	30
m-Xylene & p-Xylene	ND		25.0	25.6		ug/L		102	70 - 133	2	25
o-Xylene	ND		25.0	25.6		ug/L		102	70 - 133	0	20
2,2-Dichloropropane	ND		25.0	24.6		ug/L		99	69 - 138	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-519468/4
Matrix: Water
Analysis Batch: 519468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/27/18 08:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*12/27/18 08:34*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/27/18 08:34*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*12/27/18 08:34*	*1*

Lab Sample ID: LCS 440-519468/6
Matrix: Water
Analysis Batch: 519468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	403		ug/L		81	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-227766-B-1 MS
Matrix: Water
Analysis Batch: 519468

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1880		ug/L		109	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-227766-B-1 MSD
Matrix: Water
Analysis Batch: 519468

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1860		ug/L		108	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-518455/1-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Acenaphthene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Acenaphthylene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Fluorene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Phenanthrene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Anthracene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Chrysene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Fluoranthene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Pyrene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/20/18 11:59	12/24/18 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*97*		*21 - 120*	*12/20/18 11:59*	*12/24/18 11:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-518455/1-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518455

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		10 - 120	12/20/18 11:59	12/24/18 11:15	1
2-Fluorobiphenyl (Surr)	90		38 - 120	12/20/18 11:59	12/24/18 11:15	1

Lab Sample ID: LCS 440-518455/2-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.708		ug/L		71	50 - 120
Acenaphthene	1.00	0.790		ug/L		79	55 - 120
Acenaphthylene	1.00	0.827		ug/L		83	53 - 120
Fluorene	1.00	0.891		ug/L		89	56 - 120
Phenanthrene	1.00	0.844		ug/L		84	56 - 120
Anthracene	1.00	0.822		ug/L		82	54 - 120
Benzo[a]anthracene	1.00	0.797		ug/L		80	53 - 120
Chrysene	1.00	0.822		ug/L		82	56 - 120
Benzo[a]pyrene	1.00	0.774		ug/L		77	44 - 120
Benzo[b]fluoranthene	1.00	0.782		ug/L		78	48 - 120
Benzo[k]fluoranthene	1.00	0.817		ug/L		82	47 - 121
Benzo[g,h,i]perylene	1.00	0.851		ug/L		85	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	1.05		ug/L		105	38 - 120
Fluoranthene	1.00	0.857		ug/L		86	59 - 120
Pyrene	1.00	0.861		ug/L		86	59 - 120
Dibenz(a,h)anthracene	1.00	0.806		ug/L		81	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	91		21 - 120
Nitrobenzene-d5	76		10 - 120
2-Fluorobiphenyl (Surr)	89		38 - 120

Lab Sample ID: LCSD 440-518455/3-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518455

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.806		ug/L		81	50 - 120	13	35
Acenaphthene	1.00	0.857		ug/L		86	55 - 120	8	35
Acenaphthylene	1.00	0.921		ug/L		92	53 - 120	11	35
Fluorene	1.00	0.940		ug/L		94	56 - 120	5	35
Phenanthrene	1.00	0.926		ug/L		93	56 - 120	9	35
Anthracene	1.00	0.869		ug/L		87	54 - 120	6	35
Benzo[a]anthracene	1.00	0.893		ug/L		89	53 - 120	11	35
Chrysene	1.00	0.926		ug/L		93	56 - 120	12	35
Benzo[a]pyrene	1.00	0.840		ug/L		84	44 - 120	8	35
Benzo[b]fluoranthene	1.00	0.850		ug/L		85	48 - 120	8	35
Benzo[k]fluoranthene	1.00	0.899		ug/L		90	47 - 121	10	35
Benzo[g,h,i]perylene	1.00	0.929		ug/L		93	41 - 123	9	35
Indeno[1,2,3-cd]pyrene	1.00	0.889		ug/L		89	38 - 120	16	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-518455/3-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518455

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene			1.00	0.952		ug/L		95	59 - 120	10	35
Pyrene			1.00	0.961		ug/L		96	59 - 120	11	35
Dibenz(a,h)anthracene			1.00	0.926		ug/L		93	38 - 122	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*104*		*21 - 120*
Nitrobenzene-d5	*88*		*10 - 120*
2-Fluorobiphenyl (Surr)	*97*		*38 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-518314/1-A
Matrix: Water
Analysis Batch: 518364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518314

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		12/20/18 05:47	12/20/18 13:57	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		12/20/18 05:47	12/20/18 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*45 - 120*	*12/20/18 05:47*	*12/20/18 13:57*	*1*

Lab Sample ID: LCS 440-518314/2-A
Matrix: Water
Analysis Batch: 518364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518314

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			1000	681		ug/L		68	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*76*		*45 - 120*

Lab Sample ID: LCSD 440-518314/3-A
Matrix: Water
Analysis Batch: 518364

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518314

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	687		ug/L		69	40 - 115	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*73*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257456/1-A
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 12:45	1
Arsenic	ND		10	2.9	ug/L		12/21/18 14:27	12/27/18 12:45	1
Barium	ND		50	1.6	ug/L		12/21/18 14:27	12/27/18 12:45	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 12:45	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 12:45	1
Chromium	ND		10	0.70	ug/L		12/21/18 14:27	12/27/18 12:45	1
Cobalt	ND		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 12:45	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 12:45	1
Lead	ND		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 12:45	1
Molybdenum	ND		10	2.9	ug/L		12/21/18 14:27	12/27/18 12:45	1
Nickel	ND		10	1.0	ug/L		12/21/18 14:27	12/27/18 12:45	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 12:45	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 12:45	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 12:45	1
Vanadium	ND		10	0.87	ug/L		12/21/18 14:27	12/27/18 12:45	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 12:45	1

Lab Sample ID: LCS 720-257456/2-A
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 257456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	897		ug/L		90	80 - 120
Arsenic	1000	914		ug/L		91	80 - 120
Barium	1000	837		ug/L		84	80 - 120
Beryllium	1000	894		ug/L		89	80 - 120
Cadmium	1000	916		ug/L		92	80 - 120
Chromium	1000	894		ug/L		89	80 - 120
Cobalt	1000	943		ug/L		94	80 - 120
Copper	1000	882		ug/L		88	80 - 120
Lead	1000	927		ug/L		93	80 - 120
Molybdenum	1000	914		ug/L		91	80 - 120
Nickel	1000	903		ug/L		90	80 - 120
Selenium	1000	924		ug/L		92	80 - 120
Silver	500	417		ug/L		83	80 - 120
Thallium	1000	927		ug/L		93	80 - 120
Vanadium	1000	891		ug/L		89	80 - 120
Zinc	1000	871		ug/L		87	80 - 120

Lab Sample ID: 720-90382-3 MS
Matrix: Water
Analysis Batch: 257686

Client Sample ID: DG-T1W
Prep Type: Dissolved
Prep Batch: 257456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	893		ug/L		89	75 - 125
Arsenic	9.5	J	1000	939		ug/L		93	75 - 125
Barium	48	J	1000	852		ug/L		80	75 - 125
Beryllium	1.1	J	1000	876		ug/L		87	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90382-3 MS
Matrix: Water
Analysis Batch: 257686

Client Sample ID: DG-T1W
Prep Type: Dissolved
Prep Batch: 257456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.90	J	1000	885		ug/L		88	75 - 125
Chromium	2.0	J	1000	870		ug/L		87	75 - 125
Cobalt	7.5		1000	907		ug/L		90	75 - 125
Copper	4.8	J	1000	873		ug/L		87	75 - 125
Lead	6.7		1000	891		ug/L		88	75 - 125
Molybdenum	4.1	J	1000	911		ug/L		91	75 - 125
Nickel	7.1	J	1000	868		ug/L		86	75 - 125
Selenium	ND		1000	917		ug/L		92	75 - 125
Silver	ND	F1 F2	500	180	F1	ug/L		36	75 - 125
Thallium	ND		1000	864		ug/L		86	75 - 125
Vanadium	1.6	J	1000	889		ug/L		89	75 - 125
Zinc	ND		1000	849		ug/L		85	75 - 125

Lab Sample ID: 720-90382-3 MSD
Matrix: Water
Analysis Batch: 257686

Client Sample ID: DG-T1W
Prep Type: Dissolved
Prep Batch: 257456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	897		ug/L		90	75 - 125	1	20
Arsenic	9.5	J	1000	931		ug/L		92	75 - 125	1	20
Barium	48	J	1000	890		ug/L		84	75 - 125	4	20
Beryllium	1.1	J	1000	884		ug/L		88	75 - 125	1	20
Cadmium	0.90	J	1000	888		ug/L		89	75 - 125	0	20
Chromium	2.0	J	1000	876		ug/L		87	75 - 125	1	20
Cobalt	7.5		1000	899		ug/L		89	75 - 125	1	20
Copper	4.8	J	1000	885		ug/L		88	75 - 125	1	20
Lead	6.7		1000	882		ug/L		88	75 - 125	1	20
Molybdenum	4.1	J	1000	907		ug/L		90	75 - 125	0	20
Nickel	7.1	J	1000	874		ug/L		87	75 - 125	1	20
Selenium	ND		1000	924		ug/L		92	75 - 125	1	20
Silver	ND	F1 F2	500	423	F2	ug/L		85	75 - 125	81	20
Thallium	ND		1000	861		ug/L		86	75 - 125	0	20
Vanadium	1.6	J	1000	883		ug/L		88	75 - 125	1	20
Zinc	ND		1000	867		ug/L		87	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-257304/1-A
Matrix: Water
Analysis Batch: 257423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/20/18 18:11	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-257304/2-A
Matrix: Water
Analysis Batch: 257423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257304

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			10.0	8.96		ug/L		90	85 - 115		

Lab Sample ID: 720-90382-1 MS
Matrix: Water
Analysis Batch: 257423

Client Sample ID: DG-X1W
Prep Type: Dissolved
Prep Batch: 257304

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		10.0	8.74		ug/L		87	75 - 125		

Lab Sample ID: 720-90382-1 MSD
Matrix: Water
Analysis Batch: 257423

Client Sample ID: DG-X1W
Prep Type: Dissolved
Prep Batch: 257304

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	8.64		ug/L		86	75 - 125	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-257126/9
Matrix: Water
Analysis Batch: 257126

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/17/18 20:26	1

Lab Sample ID: LCS 720-257126/10
Matrix: Water
Analysis Batch: 257126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	249		ug/L		100	90 - 110		

Lab Sample ID: LCSD 720-257126/11
Matrix: Water
Analysis Batch: 257126

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	249		ug/L		100	90 - 110	0	20

Lab Sample ID: 720-90382-5 MS
Matrix: Water
Analysis Batch: 257126

Client Sample ID: DG-R1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	254		ug/L		102	85 - 115		

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 720-90382-5 MSD
Matrix: Water
Analysis Batch: 257126

Client Sample ID: DG-R1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	254		ug/L		102	85 - 115	0	20

GC/MS VOA

Analysis Batch: 519467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Total/NA	Water	8260B	
720-90382-2	DG-V1W	Total/NA	Water	8260B	
720-90382-3	DG-T1W	Total/NA	Water	8260B	
720-90382-4	FB-12.17.18	Total/NA	Water	8260B	
720-90382-5	DG-R1W	Total/NA	Water	8260B	
MB 440-519467/4	Method Blank	Total/NA	Water	8260B	
LCS 440-519467/5	Lab Control Sample	Total/NA	Water	8260B	
440-227766-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-227766-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 519468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Total/NA	Water	8260B/CA_LUFT MS	
720-90382-2	DG-V1W	Total/NA	Water	8260B/CA_LUFT MS	
720-90382-3	DG-T1W	Total/NA	Water	8260B/CA_LUFT MS	
720-90382-4	FB-12.17.18	Total/NA	Water	8260B/CA_LUFT MS	
720-90382-5	DG-R1W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-519468/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-519468/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-227766-B-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-227766-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 518455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Total/NA	Water	3520C	
720-90382-2	DG-V1W	Total/NA	Water	3520C	
720-90382-3	DG-T1W	Total/NA	Water	3520C	
720-90382-5	DG-R1W	Total/NA	Water	3520C	
MB 440-518455/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-518455/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-518455/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 519025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Total/NA	Water	8270C SIM	518455
720-90382-2	DG-V1W	Total/NA	Water	8270C SIM	518455
720-90382-3	DG-T1W	Total/NA	Water	8270C SIM	518455
720-90382-5	DG-R1W	Total/NA	Water	8270C SIM	518455
MB 440-518455/1-A	Method Blank	Total/NA	Water	8270C SIM	518455
LCS 440-518455/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	518455
LCSD 440-518455/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	518455

GC Semi VOA

Prep Batch: 518314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Total/NA	Water	3510C	
720-90382-2	DG-V1W	Total/NA	Water	3510C	
720-90382-3	DG-T1W	Total/NA	Water	3510C	
720-90382-5	DG-R1W	Total/NA	Water	3510C	
MB 440-518314/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-518314/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-518314/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 518364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-518314/1-A	Method Blank	Total/NA	Water	8015B	518314
LCS 440-518314/2-A	Lab Control Sample	Total/NA	Water	8015B	518314
LCSD 440-518314/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	518314

Analysis Batch: 518366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Total/NA	Water	8015B	518314
720-90382-2	DG-V1W	Total/NA	Water	8015B	518314
720-90382-3	DG-T1W	Total/NA	Water	8015B	518314
720-90382-5	DG-R1W	Total/NA	Water	8015B	518314

Metals

Prep Batch: 257304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Dissolved	Water	7470A	
720-90382-2	DG-V1W	Dissolved	Water	7470A	
720-90382-3	DG-T1W	Dissolved	Water	7470A	
720-90382-5	DG-R1W	Dissolved	Water	7470A	
MB 720-257304/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-257304/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90382-1 MS	DG-X1W	Dissolved	Water	7470A	
720-90382-1 MSD	DG-X1W	Dissolved	Water	7470A	

Analysis Batch: 257423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Dissolved	Water	7470A	257304
720-90382-2	DG-V1W	Dissolved	Water	7470A	257304
720-90382-3	DG-T1W	Dissolved	Water	7470A	257304
720-90382-5	DG-R1W	Dissolved	Water	7470A	257304
MB 720-257304/1-A	Method Blank	Total/NA	Water	7470A	257304
LCS 720-257304/2-A	Lab Control Sample	Total/NA	Water	7470A	257304
720-90382-1 MS	DG-X1W	Dissolved	Water	7470A	257304
720-90382-1 MSD	DG-X1W	Dissolved	Water	7470A	257304

Prep Batch: 257456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Dissolved	Water	3005A	
720-90382-2	DG-V1W	Dissolved	Water	3005A	
720-90382-3	DG-T1W	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 257456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-5	DG-R1W	Dissolved	Water	3005A	
MB 720-257456/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-257456/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90382-3 MS	DG-T1W	Dissolved	Water	3005A	
720-90382-3 MSD	DG-T1W	Dissolved	Water	3005A	

Analysis Batch: 257686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Dissolved	Water	6010B	257456
720-90382-2	DG-V1W	Dissolved	Water	6010B	257456
720-90382-3	DG-T1W	Dissolved	Water	6010B	257456
720-90382-5	DG-R1W	Dissolved	Water	6010B	257456
MB 720-257456/1-A	Method Blank	Total Recoverable	Water	6010B	257456
LCS 720-257456/2-A	Lab Control Sample	Total Recoverable	Water	6010B	257456
720-90382-3 MS	DG-T1W	Dissolved	Water	6010B	257456
720-90382-3 MSD	DG-T1W	Dissolved	Water	6010B	257456

General Chemistry

Analysis Batch: 257126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90382-1	DG-X1W	Total/NA	Water	7196A	
720-90382-2	DG-V1W	Total/NA	Water	7196A	
720-90382-3	DG-T1W	Total/NA	Water	7196A	
720-90382-5	DG-R1W	Total/NA	Water	7196A	
MB 720-257126/9	Method Blank	Total/NA	Water	7196A	
LCS 720-257126/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-257126/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90382-5 MS	DG-R1W	Total/NA	Water	7196A	
720-90382-5 MSD	DG-R1W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Client Sample ID: DG-X1W

Date Collected: 12/17/18 10:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519467	12/27/18 13:52	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519468	12/27/18 13:52	RM	TAL IRV
Total/NA	Prep	3520C			518455	12/20/18 11:59	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519025	12/24/18 14:06	HN	TAL IRV
Total/NA	Prep	3510C			518314	12/20/18 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	518366	12/20/18 15:09	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 13:17	BKR	TAL PLS
Dissolved	Prep	7470A			257304	12/19/18 21:50	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257423	12/20/18 19:31	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257126	12/17/18 20:26	ECB	TAL PLS

Client Sample ID: DG-V1W

Date Collected: 12/17/18 11:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519467	12/27/18 14:16	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519468	12/27/18 14:16	RM	TAL IRV
Total/NA	Prep	3520C			518455	12/20/18 11:59	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519025	12/24/18 15:19	HN	TAL IRV
Total/NA	Prep	3510C			518314	12/20/18 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	518366	12/20/18 14:25	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 13:22	BKR	TAL PLS
Dissolved	Prep	7470A			257304	12/19/18 21:50	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257423	12/20/18 19:33	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257126	12/17/18 20:26	ECB	TAL PLS

Client Sample ID: DG-T1W

Date Collected: 12/17/18 13:08
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90382-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519467	12/27/18 14:40	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519468	12/27/18 14:40	RM	TAL IRV
Total/NA	Prep	3520C			518455	12/20/18 11:59	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519025	12/24/18 14:30	HN	TAL IRV
Total/NA	Prep	3510C			518314	12/20/18 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	518366	12/20/18 15:30	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 13:12	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Client Sample ID: DG-T1W

Lab Sample ID: 720-90382-3

Date Collected: 12/17/18 13:08

Matrix: Water

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			257304	12/19/18 21:50	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257423	12/20/18 19:36	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257126	12/17/18 20:26	ECB	TAL PLS

Client Sample ID: FB-12.17.18

Lab Sample ID: 720-90382-4

Date Collected: 12/17/18 13:30

Matrix: Water

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519467	12/27/18 15:05	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519468	12/27/18 15:05	RM	TAL IRV

Client Sample ID: DG-R1W

Lab Sample ID: 720-90382-5

Date Collected: 12/17/18 15:15

Matrix: Water

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519467	12/27/18 15:30	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519468	12/27/18 15:30	RM	TAL IRV
Total/NA	Prep	3520C			518455	12/20/18 11:59	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519025	12/24/18 14:55	HN	TAL IRV
Total/NA	Prep	3510C			518314	12/20/18 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	518366	12/20/18 16:13	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 13:26	BKR	TAL PLS
Dissolved	Prep	7470A			257304	12/19/18 21:50	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257423	12/20/18 19:38	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257126	12/17/18 20:26	ECB	TAL PLS

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90382-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90382-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90382-1	DG-X1W	Water	12/17/18 10:15	12/17/18 18:40
720-90382-2	DG-V1W	Water	12/17/18 11:25	12/17/18 18:40
720-90382-3	DG-T1W	Water	12/17/18 13:08	12/17/18 18:40
720-90382-4	FB-12.17.18	Water	12/17/18 13:30	12/17/18 18:40
720-90382-5	DG-R1W	Water	12/17/18 15:15	12/17/18 18:40

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600 3002

720-90382

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#187419

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/17/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	___ of ___ COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ___			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-X1W	12-17	1015	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-V1W	↓	1125	↓	↓	↓	Y		X	X	X	X	X	
DG-T1W	↓	1308	↓	↓	↓	Y		X	X	X	X	X	
FB	↓	1330	↓	↓	2			X					
~~DG-R2W~~	↓	1420	↓	↓	9	Y		X	X	X	X	X	GAH
DG-R1W	↓	1515	↓	↓	9	Y		X	X	X	X	X	

720-90382 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ___

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments:

0.3°C, 0.5°C, 4.0°C, 1.5°C, 2.7°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd ___ Corr'd ___	Therm ID No ___
Relinquished by	Company GEOSYNTEC	Date/Time 12-17-18 1555	Received by	Company TA PLS	Date/Time 12-17-18 15:51
Relinquished by	Company TA PLS	Date/Time 12-17-18 1840	Received by	Company TAPLS	Date/Time 12/17 1840
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-40555.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90382-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/28/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU2 Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X						
DG-XIW (720-90382-1)	12/17/18	10:15 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-VIW (720-90382-2)	12/17/18	11:25 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-TIW (720-90382-3)	12/17/18	13:08 Pacific		Water			X	X	X	X	7	check for 2 phases
FB-12 17 (720-90382-4)	12/17/18	13:30 Pacific		Water			X	X			2	check for 2 phases
DG-RIW (720-90382-5)	12/17/18	15:15 Pacific		Water			X	X	X	X	7	check for 2 phases

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12/18/18 1510	Company: TAPL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/19/18 @ 1030	Company: TAPL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 490310 0270 5814

Cooler Temperature(s) °C and Other Remarks: 3.2/3.4 IR-4 2.8/2.3 IR-93

Ver: 09/20/2016

12/31/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90382-1

Login Number: 90382
List Number: 1
Creator: Perry, Janae R

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90382-1

Login Number: 90382
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/19/18 03:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90382-1

Login Number: 90382
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/19/18 03:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90386-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/6/2019 10:11:42 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

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Have a Question? Ask The Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90386-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90386-1

Comments
Revision created to correct NCM for 6010B for batch 720-257721 to remove Thallium and add Vanadium.

Receipt
The samples were received on 12/17/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.3º C, 0.5º C, 1.5º C, 2.7º C and 4.0º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. The following samples did not have the CAM 17 analyses box marked off on the COC these samples are logged on HOLD: DUP-13, DUP-27, DUP-26, DUP-25.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257269 and analytical batch 720-257472 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257231 and analytical batch 720-257510 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257248 and analytical batch 720-257721 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Copper associated with batch 720-257721 was outside of control limits. Cu-127%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257721 was outside control limits for Ba-13%, Co-16%, Cr-25%, Pb-14%, V-12%: (720-90386-A-5-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-AL2S-3.5-4 (720-90386-2), DG-AM2S-0.5-1 (720-90386-3), DG-AM2S-3.5-4 (720-90386-4), DG-AQ2S-0.5-1 (720-90386-5), DG-AQ2S-0.5-1 (720-90386-5[MS]), DG-AQ2S-0.5-1 (720-90386-5[MSD]), DG-AQ2S-3.5-4 (720-90386-6), DG-AQ2S-7.5-8 (720-90386-7), DG-AL2S-7.5-8 (720-90386-8), DG-AP2S-0.5-1 (720-90386-9), DG-AP2S-3.5-4 (720-90386-10), DG-AO2S-0.5-1 (720-90386-11), DG-AO2S-3.5-4 (720-90386-12), DG-AN2S-0.5-1 (720-90386-13), DG-AN2S-3.5-4 (720-90386-14), DG-AR2S-0.5-1 (720-90386-15), DG-AR2S-3.5-4 (720-90386-16), DG-AS2S-0.5-1 (720-90386-17), DG-AS2S-3.5-4 (720-90386-18), DG-AT2S-0.5-1 (720-90386-19), DG-AT2S-3.5-4 (720-90386-20), DG-AU2S-0.5-1 (720-90386-21), DG-AU2S-3.5-4 (720-90386-22), DG-AV4S-0.5-1 (720-90386-23), DG-AV4S-3.5-4 (720-90386-24), DG-AV4S-8-8.5 (720-90386-25), DG-AU4S-0.5-1 (720-90386-26), DG-AU4S-3.5-4 (720-90386-27), DG-AT4S-0.5-1 (720-90386-28), DG-AT4S-3.5-4 (720-90386-29), DG-AS4S-0.5-1 (720-90386-30), DG-AS4S-3.5-4 (720-90386-31), DG-AR4S-0.5-1 (720-90386-32), DG-AR4S-3.5-4 (720-90386-33), DG-AQ4S-0.5-1 (720-90386-34), DG-AQ4S-3.5-4 (720-90386-35), DG-AQ4S-9-9.5 (720-90386-36), DG-AP4S-0.5-1 (720-90386-37), DG-AP4S-3.5-4 (720-90386-38), DG-AO4S-0.5-1 (720-90386-39), DG-AO4S-3.5-4 (720-90386-40), DG-AN4S-0.5-1 (720-90386-41) and DG-AN4S-3.5-4 (720-90386-42), DUP-11 (720-90386-43), DUP-12 (720-90386-44), DUP-27 (720-90386-46), DUP-25 (720-90386-48), (720-90388-E-2-C), (720-90386-A-5-F PDS) and (720-90386-A-5-F SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-257250 and analytical batch 720-257645 contained Chromium, Nickel, and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257250 and analytical batch 720-257833 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Job ID: 720-90386-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257250 and analytical batch 720-257645 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257833 was outside control limits for Barium-50% Cobalt-31%: (720-90386-A-14-F SD)

Method 6010B: The method blank for preparation batch 720-257250 and analytical batch 720-257833 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The post digestion spike % recovery for Barium associated with batch 720-257833 was outside of control limits. Ba-129%.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257472 was outside control limits for Cr-11% (720-90386-A-23-F SD)

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257645 was outside control limits for Chromium-18%, Lead-13% (720-90386-A-14-F SD)

Method 6010B: The method blank for preparation batch 720-257231 and analytical batch 720-257510 contained Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-257248 and analytical batch 720-257721 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257251 and analytical batch 720-257922 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Client Sample ID: DG-AL2S-0.5-1 — Lab Sample ID: 720-90386-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.2		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	37		1.5	0.21	mg/Kg	4		6010B	Total/NA
Chromium	6.3		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	110		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	9.9		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	2.6		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	36		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.078		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL2S-3.5-4 — Lab Sample ID: 720-90386-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.0		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	280		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	71		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	0.62		0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	23	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	250		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	230		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	16		1.4	0.15	mg/Kg	4		6010B	Total/NA
Silver	0.23	J	0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	200		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM2S-0.5-1 — Lab Sample ID: 720-90386-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	33		1.6	0.22	mg/Kg	4		6010B	Total/NA
Chromium	12	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	130		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	0.82	J	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	4.5		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	32		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.097		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM2S-3.5-4 — Lab Sample ID: 720-90386-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.38	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.2	0.27	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM2S-3.5-4 (Continued) — Lab Sample ID: 720-90386-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	47		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.30	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	7.7	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	7.9		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	90		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	68		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	4.3		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	110		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.060		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ2S-0.5-1 — Lab Sample ID: 720-90386-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J F1	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	7.6		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	25	F1	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.10	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.35	0.034	mg/Kg	4		6010B	Total/NA
Chromium	10	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	93	F1	4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	20		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	4.8		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	72	F1	1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	42		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.077		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ2S-3.5-4 — Lab Sample ID: 720-90386-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.2		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	210		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	270		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.82		0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	27	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	250		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	600		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	28		1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.24	J	0.93	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	630		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ2S-7.5-8 — Lab Sample ID: 720-90386-7

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ2S-7.5-8 (Continued) — Lab Sample ID: 720-90386-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.2	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	38		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	94		1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.25	0.081	mg/Kg	4		6010B	Total/NA
Chromium	76	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	27		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	10		1.2	0.26	mg/Kg	4		6010B	Total/NA
Nickel	110		1.2	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	49		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	2.1		0.057	0.0085	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AL2S-7.5-8 — Lab Sample ID: 720-90386-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	35		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	76		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.29		0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	0.045	J	0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	64	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	29		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	5.3		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	81		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	56		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP2S-0.5-1 — Lab Sample ID: 720-90386-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.2	J	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	33		1.1	0.16	mg/Kg	4		6010B	Total/NA
Chromium	8.4	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.3		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	100		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	8.5		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	3.2		1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.55	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	31		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP2S-3.5-4 — Lab Sample ID: 720-90386-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.9		1.4	0.23	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP2S-3.5-4 (Continued) — Lab Sample ID: 720-90386-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	360		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	120		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.65		0.35	0.034	mg/Kg	4		6010B	Total/NA
Chromium	25	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	340		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	340		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	28		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.94	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	4.2		0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	280		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.37		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO2S-0.5-1 — Lab Sample ID: 720-90386-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	4.1		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	71		1.7	0.24	mg/Kg	4		6010B	Total/NA
Chromium	10	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	140		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	74		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	6.3		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	88		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.069		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO2S-3.5-4 — Lab Sample ID: 720-90386-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	350		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	100		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.90		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	210		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	390		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	26		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.61	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Silver	0.72		0.60	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	270		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.23		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN2S-0.5-1 — Lab Sample ID: 720-90386-13

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AN2S-0.5-1 (Continued) — Lab Sample ID: 720-90386-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.34	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	0.80	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	24		1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	8.8	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	140		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	6.6		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	3.8		1.6	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.18	J	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	48		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.034		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN2S-3.5-4 — Lab Sample ID: 720-90386-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.65	J F1	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	30	F1	2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	35	B F1	1.2	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	7.0	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.1		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	88	F1	3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	23		1.2	0.26	mg/Kg	4		6010B	Total/NA
Nickel	3.7	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	55	B	3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.047		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR2S-0.5-1 — Lab Sample ID: 720-90386-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	80		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	12	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	190		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	94		2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	7.0		2.0	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.33	J	1.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	110		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	120		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.087		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR2S-3.5-4 — Lab Sample ID: 720-90386-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	180		2.2	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR2S-3.5-4 (Continued) — Lab Sample ID: 720-90386-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	88		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.23		0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.54		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	17	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	150		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	170		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.21	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	16		1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.46	J	0.56	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	130		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.43		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS2S-0.5-1 — Lab Sample ID: 720-90386-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.2		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	43		1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	7.0	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	130		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	14		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	3.4		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	42		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.042		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS2S-3.5-4 — Lab Sample ID: 720-90386-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.39	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	2.2		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	20		1.1	0.16	mg/Kg	4		6010B	Total/NA
Chromium	6.2	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	84		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	2.2		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.17	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	3.4		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	32		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.068		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT2S-0.5-1 — Lab Sample ID: 720-90386-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.59	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	1.9	J	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	29		1.8	0.26	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT2S-0.5-1 (Continued) — Lab Sample ID: 720-90386-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	9.0	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	130		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	15		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	3.8		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	46		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT2S-3.5-4 — Lab Sample ID: 720-90386-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.55	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	1.2	J	2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	26		1.4	0.21	mg/Kg	4		6010B	Total/NA
Chromium	8.0	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	100		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	7.7		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.29	J	1.4	0.19	mg/Kg	4		6010B	Total/NA
Nickel	3.9		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.69	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	89		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	42		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU2S-0.5-1 — Lab Sample ID: 720-90386-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.51	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Barium	27		1.8	0.25	mg/Kg	4		6010B	Total/NA
Chromium	8.2	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	120		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	3.0		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	3.6		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.65	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	47		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.046		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU2S-3.5-4 — Lab Sample ID: 720-90386-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	1.0	J	2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	46		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.046	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	12	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.45	0.045	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AU2S-3.5-4 (Continued) — Lab Sample ID: 720-90386-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	130		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	2.5		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.41	J	1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	5.0		1.1	0.12	mg/Kg	4		6010B	Total/NA
Silver	0.22	J	0.57	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	48		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.059		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV4S-0.5-1 — Lab Sample ID: 720-90386-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.73	J F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Barium	16		1.9	0.28	mg/Kg	4		6010B	Total/NA
Chromium	16		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	130	F1 F2	5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	1.5	J	1.9	0.41	mg/Kg	4		6010B	Total/NA
Nickel	6.1		1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	48		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.031		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV4S-3.5-4 — Lab Sample ID: 720-90386-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	9.9		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	160	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.061	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	31	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	39		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	23		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	46	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.18	J	0.89	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	79	B	5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.077		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV4S-8-8.5 — Lab Sample ID: 720-90386-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	39	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.081	J	0.43	0.042	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV4S-8-8.5 (Continued) — Lab Sample ID: 720-90386-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	26	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	20		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	7.1		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.59	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	27	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	54	B	5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.034		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU4S-0.5-1 — Lab Sample ID: 720-90386-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.92	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Barium	40	B	1.9	0.26	mg/Kg	4		6010B	Total/NA
Chromium	4.4	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	82		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	0.39	J	1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	2.5	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	91		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	39	B	5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.029		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU4S-3.5-4 — Lab Sample ID: 720-90386-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.95	J	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	46		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	150	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.20		0.20	0.066	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	49	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	13		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	260		1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	28	B	1.0	0.10	mg/Kg	4		6010B	Total/NA
Silver	0.16	J	0.51	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	76	B	3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT4S-0.5-1 — Lab Sample ID: 720-90386-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.76	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	50	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	5.6	B	1.6	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT4S-0.5-1 (Continued) — Lab Sample ID: 720-90386-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	13		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	110		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	9.0		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	3.4	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.61	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	350	B	4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.042		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT4S-3.5-4 — Lab Sample ID: 720-90386-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	150		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	180	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.26	0.086	mg/Kg	4		6010B	Total/NA
Cadmium	0.87		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	30	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	6.7		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	71		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	310		1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.30	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.38	J	0.66	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	370	B	3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.68		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS4S-0.5-1 — Lab Sample ID: 720-90386-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.27	J	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	0.64	J	2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	36	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Chromium	4.3	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	76		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	2.3		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	2.1	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	35	B	3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS4S-3.5-4 — Lab Sample ID: 720-90386-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	230		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	150	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.23	J	0.31	0.099	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AS4S-3.5-4 (Continued) — Lab Sample ID: 720-90386-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.87		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	43	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	110		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	330		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	31	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.45	J	0.76	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	460	B	4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.56		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR4S-0.5-1 — Lab Sample ID: 720-90386-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.70	J	2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	37	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Chromium	5.4	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.40	0.040	mg/Kg	4		6010B	Total/NA
Copper	120		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	2.2		1.0	0.21	mg/Kg	4		6010B	Total/NA
Nickel	2.3	B	1.0	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	71		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	33	B	3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR4S-3.5-4 — Lab Sample ID: 720-90386-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	120		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	91	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	44	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	50		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	140		1.3	0.26	mg/Kg	4		6010B	Total/NA
Nickel	32	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.57	J	0.63	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	310	B	3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.57		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ4S-0.5-1 — Lab Sample ID: 720-90386-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.27	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	5.1		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	34	B	1.6	0.22	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ4S-0.5-1 (Continued) — Lab Sample ID: 720-90386-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	11	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	120		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	6.7		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	3.6	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	40	B	4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.050		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ4S-3.5-4 — Lab Sample ID: 720-90386-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	190		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	140	B	1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.25	0.080	mg/Kg	4		6010B	Total/NA
Cadmium	1.4		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	24	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	110		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	420		1.2	0.26	mg/Kg	4		6010B	Total/NA
Nickel	15	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.42	J	0.62	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	770	B	3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ4S-9-9.5 — Lab Sample ID: 720-90386-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	6.0		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	59	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.31	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Chromium	29	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	6.5		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	0.95	J	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.52	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	21	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	29	B	5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.014	J	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP4S-0.5-1 — Lab Sample ID: 720-90386-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	0.69	J	2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	29	B	1.3	0.18	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP4S-0.5-1 (Continued) — Lab Sample ID: 720-90386-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.055	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	6.9	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	78		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	4.8		1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	2.8	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	83		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	38	B	3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.036		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP4S-3.5-4 — Lab Sample ID: 720-90386-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	190		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	100	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	0.89		0.32	0.031	mg/Kg	4		6010B	Total/NA
Chromium	39	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	85		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	320		1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	23	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.22	J	0.63	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	840	B	3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.37		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO4S-0.5-1 — Lab Sample ID: 720-90386-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.69	J	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	0.69	J	2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	30	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.059	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	8.2	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	81		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	6.1		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	4.1	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	97		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	77	B	3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.057		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO4S-3.5-4 — Lab Sample ID: 720-90386-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	140		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	100	B	1.0	0.15	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AO4S-3.5-4 (Continued) — Lab Sample ID: 720-90386-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.19	J	0.21	0.067	mg/Kg	4		6010B	Total/NA
Cadmium	1.4		0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	35	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	8.4		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	51		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	120		1.0	0.22	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.37	J	0.52	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	400	B	3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN4S-0.5-1 — Lab Sample ID: 720-90386-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.8		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	36		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	150	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.10	J	0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	5.0		0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	66	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	2400		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	750		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	6.5		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	73	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Silver	0.85		0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	710	B	4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.92		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN4S-3.5-4 — Lab Sample ID: 720-90386-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	11		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	160		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	180	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.23	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	2.9		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	24	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	220		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	880		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	25	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.67	J	0.91	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	830	B	5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.75		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Client Sample ID: DUP-11 — Lab Sample ID: 720-90386-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	28		1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	7.5		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	130		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	6.5		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	3.8		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	52		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.044		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-12 — Lab Sample ID: 720-90386-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.2		1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	150		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	220		1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.44		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	21		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	5.7		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	120		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	400		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	20		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	470		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.33		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-13 — Lab Sample ID: 720-90386-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	25		1.8	0.26	mg/Kg	4		6010B	Total/NA
Chromium	8.1		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	100		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	6.4		1.8	0.39	mg/Kg	4		6010B	Total/NA
Nickel	3.2		1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	36		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-27 — Lab Sample ID: 720-90386-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.94	J	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	16		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	140		1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.55		0.21	0.068	mg/Kg	4		6010B	Total/NA
Chromium	25		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	43		3.1	1.5	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-27 (Continued) — Lab Sample ID: 720-90386-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.37	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	40		1.0	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	81		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.048		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-26 — Lab Sample ID: 720-90386-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.43	J	2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	25		1.1	0.16	mg/Kg	4		6010B	Total/NA
Chromium	4.0		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	5.0		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	72		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	2.5		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	2.2		1.1	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	46		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	34		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.051		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-25 — Lab Sample ID: 720-90386-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	230		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	77		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.23	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	45		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	12		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	24		1.2	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.17	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	23		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	72		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.55		0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL2S-0.5-1

Date Collected: 12/17/18 08:53
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5	0.25	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Arsenic	**7.2**		3.0	0.25	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Barium	**37**		1.5	0.21	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Beryllium	ND		0.30	0.097	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Cadmium	ND		0.37	0.037	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Chromium	**6.3**		1.5	0.16	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Cobalt	**7.1**		0.60	0.060	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Copper	**110**		4.5	2.1	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Lead	**9.9**		1.5	0.31	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Molybdenum	**0.27**	**J**	1.5	0.19	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Nickel	**2.6**		1.5	0.15	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Selenium	ND		3.0	0.45	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Silver	ND		0.75	0.15	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Thallium	ND		1.5	0.43	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Vanadium	**70**		1.5	0.20	mg/Kg		12/20/18 11:04	12/21/18 17:17	4
Zinc	**36**		4.5	1.9	mg/Kg		12/20/18 11:04	12/21/18 17:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.078**		0.016	0.0023	mg/Kg		01/02/19 10:37	01/02/19 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.1**		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AL2S-3.5-4

Date Collected: 12/17/18 08:53
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0		1.4	0.24	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Arsenic	280		2.9	0.24	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Barium	71		1.4	0.20	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Beryllium	0.11	J	0.29	0.093	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Cadmium	0.62		0.36	0.035	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Chromium	23	B	1.4	0.15	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Cobalt	11		0.57	0.057	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Copper	250		4.3	2.0	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Lead	230		1.4	0.30	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Molybdenum	0.25	J	1.4	0.18	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Nickel	16		1.4	0.15	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Selenium	ND		2.9	0.43	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Silver	0.23	J	0.71	0.14	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Thallium	ND		1.4	0.41	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Vanadium	72		1.4	0.19	mg/Kg		12/19/18 10:46	12/27/18 16:58	4
Zinc	200		4.3	1.8	mg/Kg		12/19/18 10:46	12/27/18 16:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.015	0.0022	mg/Kg		01/02/19 10:37	01/02/19 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AM2S-0.5-1

Date Collected: 12/17/18 09:43
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Arsenic	**9.5**		3.1	0.27	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Barium	**33**		1.6	0.22	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Beryllium	ND		0.31	0.10	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Cadmium	ND		0.39	0.039	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Chromium	**12**	**B**	1.6	0.17	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Cobalt	**11**		0.63	0.063	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Copper	**130**		4.7	2.2	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Lead	**0.82**	**J**	1.6	0.33	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Nickel	**4.5**		1.6	0.16	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Selenium	ND		3.1	0.47	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Silver	ND		0.78	0.16	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Thallium	ND		1.6	0.45	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Vanadium	**110**		1.6	0.21	mg/Kg		12/19/18 10:46	12/27/18 17:03	4
Zinc	**32**		4.7	2.0	mg/Kg		12/19/18 10:46	12/27/18 17:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.097**		0.015	0.0022	mg/Kg		01/02/19 10:37	01/02/19 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AM2S-3.5-4

Date Collected: 12/17/18 09:43
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.6	0.27	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Arsenic	11		3.2	0.27	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Barium	47		1.6	0.23	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Beryllium	ND		0.32	0.10	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Cadmium	0.30	J	0.40	0.040	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Chromium	7.7	B	1.6	0.17	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Cobalt	7.9		0.64	0.064	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Copper	90		4.8	2.3	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Lead	68		1.6	0.34	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Molybdenum	0.28	J	1.6	0.20	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Nickel	4.3		1.6	0.16	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Selenium	ND		3.2	0.48	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Silver	ND		0.80	0.16	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Thallium	ND		1.6	0.46	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Vanadium	68		1.6	0.22	mg/Kg		12/19/18 10:46	12/27/18 17:08	4
Zinc	110		4.8	2.0	mg/Kg		12/19/18 10:46	12/27/18 17:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.015	0.0022	mg/Kg		01/02/19 10:37	01/02/19 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AQ2S-0.5-1

Date Collected: 12/17/18 10:11
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J F1	1.4	0.23	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Arsenic	7.6		2.8	0.24	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Barium	25	F1	1.4	0.20	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Beryllium	0.10	J	0.28	0.090	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Cadmium	0.11	J	0.35	0.034	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Chromium	10	B	1.4	0.15	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Cobalt	10		0.56	0.056	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Copper	93	F1	4.2	2.0	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Lead	20		1.4	0.29	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Molybdenum	ND		1.4	0.18	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Nickel	4.8		1.4	0.14	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Selenium	ND		2.8	0.42	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Silver	ND		0.69	0.14	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Thallium	ND		1.4	0.40	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Vanadium	72	F1	1.4	0.19	mg/Kg		12/19/18 10:46	12/27/18 16:54	4
Zinc	42		4.2	1.8	mg/Kg		12/19/18 10:46	12/27/18 16:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.077		0.015	0.0023	mg/Kg		01/02/19 10:37	01/02/19 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AQ2S-3.5-4

Date Collected: 12/17/18 10:11
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.2		1.9	0.31	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Arsenic	210		3.7	0.32	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Barium	270		1.9	0.27	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Beryllium	0.44		0.37	0.12	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Cadmium	0.82		0.47	0.046	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Chromium	27	B	1.9	0.20	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Cobalt	9.2		0.75	0.075	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Copper	250		5.6	2.7	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Lead	600		1.9	0.39	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Molybdenum	0.26	J	1.9	0.24	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Nickel	28		1.9	0.19	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Selenium	ND		3.7	0.56	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Silver	0.24	J	0.93	0.19	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Thallium	ND		1.9	0.54	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Vanadium	32		1.9	0.25	mg/Kg		12/19/18 10:46	12/27/18 17:22	4
Zinc	630		5.6	2.4	mg/Kg		12/19/18 10:46	12/27/18 17:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.016	0.0023	mg/Kg		01/02/19 10:37	01/02/19 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.9		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AQ2S-7.5-8

Date Collected: 12/17/18 10:22
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.2	0.21	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Arsenic	38		2.5	0.21	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Barium	94		1.2	0.18	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Beryllium	0.12	J	0.25	0.081	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Cadmium	ND		0.31	0.031	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Chromium	76	B	1.2	0.13	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Cobalt	14		0.50	0.050	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Copper	27		3.7	1.8	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Lead	10		1.2	0.26	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Molybdenum	ND		1.2	0.16	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Nickel	110		1.2	0.13	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Selenium	ND		2.5	0.37	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Silver	ND		0.62	0.13	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Thallium	ND		1.2	0.36	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Vanadium	52		1.2	0.17	mg/Kg		12/19/18 10:46	12/27/18 17:26	4
Zinc	49		3.7	1.6	mg/Kg		12/19/18 10:46	12/27/18 17:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.1		0.057	0.0085	mg/Kg		01/02/19 10:37	01/02/19 12:59	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AL2S-7.5-8

Date Collected: 12/17/18 09:10
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.4	0.24	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Arsenic	35		2.9	0.24	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Barium	76		1.4	0.20	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Beryllium	0.29		0.29	0.093	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Cadmium	0.045	J	0.36	0.035	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Chromium	64	B	1.4	0.15	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Cobalt	16		0.57	0.057	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Copper	29		4.3	2.0	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Lead	5.3		1.4	0.30	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Molybdenum	ND		1.4	0.18	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Nickel	81		1.4	0.15	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Selenium	ND		2.9	0.43	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Silver	ND		0.71	0.14	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Thallium	ND		1.4	0.41	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Vanadium	52		1.4	0.19	mg/Kg		12/19/18 10:46	12/27/18 17:31	4
Zinc	56		4.3	1.8	mg/Kg		12/19/18 10:46	12/27/18 17:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.014	0.0021	mg/Kg		01/02/19 10:37	01/02/19 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.3		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AP2S-0.5-1

Date Collected: 12/17/18 10:35
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.18	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Arsenic	**1.2**	**J**	2.2	0.19	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Barium	**33**		1.1	0.16	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Beryllium	ND		0.22	0.071	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Cadmium	ND		0.27	0.027	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Chromium	**8.4**	**B**	1.1	0.12	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Cobalt	**7.3**		0.44	0.044	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Copper	**100**		3.3	1.6	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Lead	**8.5**		1.1	0.23	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Molybdenum	**0.25**	**J**	1.1	0.14	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Nickel	**3.2**		1.1	0.11	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Selenium	ND		2.2	0.33	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Silver	**0.13**	**J**	0.55	0.11	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Thallium	ND		1.1	0.32	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Vanadium	**68**		1.1	0.15	mg/Kg		12/19/18 10:46	12/27/18 17:35	4
Zinc	**31**		3.3	1.4	mg/Kg		12/19/18 10:46	12/27/18 17:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.016	0.0023	mg/Kg		01/02/19 10:37	01/02/19 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AP2S-3.5-4

Date Collected: 12/17/18 10:35
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.9		1.4	0.23	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Arsenic	360		2.8	0.24	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Barium	120		1.4	0.20	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Beryllium	ND		0.28	0.090	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Cadmium	0.65		0.35	0.034	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Chromium	25	B	1.4	0.15	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Cobalt	18		0.56	0.056	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Copper	340		4.2	2.0	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Lead	340		1.4	0.29	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Molybdenum	0.53	J	1.4	0.18	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Nickel	28		1.4	0.14	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Selenium	0.94	J	2.8	0.42	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Silver	4.2		0.69	0.14	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Thallium	ND		1.4	0.40	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Vanadium	73		1.4	0.19	mg/Kg		12/19/18 10:46	12/27/18 17:40	4
Zinc	280		4.2	1.8	mg/Kg		12/19/18 10:46	12/27/18 17:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.016	0.0024	mg/Kg		01/02/19 10:37	01/02/19 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.3		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AO2S-0.5-1

Date Collected: 12/17/18 10:50
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.7	0.28	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Arsenic	4.1		3.4	0.29	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Barium	71		1.7	0.24	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Beryllium	ND		0.34	0.11	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Cadmium	ND		0.42	0.042	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Chromium	10	B	1.7	0.18	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Cobalt	13		0.67	0.067	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Copper	140		5.0	2.4	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Lead	74		1.7	0.35	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Molybdenum	ND		1.7	0.22	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Nickel	6.3		1.7	0.17	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Selenium	ND		3.4	0.50	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Silver	ND		0.84	0.17	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Thallium	ND		1.7	0.49	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Vanadium	110		1.7	0.23	mg/Kg		12/19/18 10:46	12/27/18 17:45	4
Zinc	88		5.0	2.1	mg/Kg		12/19/18 10:46	12/27/18 17:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.016	0.0023	mg/Kg		01/02/19 10:37	01/02/19 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.05	%			12/19/18 10:14	1

Client Sample ID: DG-AO2S-3.5-4

Date Collected: 12/17/18 10:50
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9		1.2	0.20	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Arsenic	350		2.4	0.20	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Barium	100		1.2	0.17	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Beryllium	ND		0.24	0.077	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Cadmium	0.90		0.30	0.030	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Chromium	20	B	1.2	0.13	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Cobalt	10		0.48	0.048	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Copper	210		3.6	1.7	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Lead	390		1.2	0.25	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Molybdenum	0.35	J	1.2	0.15	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Nickel	26		1.2	0.12	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Selenium	0.61	J	2.4	0.36	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Silver	0.72		0.60	0.12	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Thallium	ND		1.2	0.35	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Vanadium	67		1.2	0.16	mg/Kg		12/19/18 10:46	12/27/18 17:49	4
Zinc	270		3.6	1.5	mg/Kg		12/19/18 10:46	12/27/18 17:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.016	0.0023	mg/Kg		01/02/19 10:37	01/02/19 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AN2S-0.5-1

Date Collected: 12/17/18 10:56
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.6	0.27	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Arsenic	0.80	J	3.2	0.27	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Barium	24		1.6	0.23	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Beryllium	ND		0.32	0.10	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Cadmium	ND		0.40	0.040	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Chromium	8.8	B	1.6	0.17	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Cobalt	13		0.65	0.065	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Copper	140		4.8	2.3	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Lead	6.6		1.6	0.34	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Molybdenum	ND		1.6	0.21	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Nickel	3.8		1.6	0.16	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Selenium	ND		3.2	0.48	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Silver	0.18	J	0.81	0.16	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Thallium	ND		1.6	0.47	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Vanadium	130		1.6	0.22	mg/Kg		12/19/18 10:46	12/27/18 17:54	4
Zinc	48		4.8	2.0	mg/Kg		12/19/18 10:46	12/27/18 17:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.014	0.0021	mg/Kg		01/02/19 10:37	01/02/19 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AN2S-3.5-4

Date Collected: 12/17/18 10:56
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J F1	1.2	0.20	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Arsenic	30	F1	2.5	0.21	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Barium	35	B F1	1.2	0.18	mg/Kg		12/21/18 15:51	12/31/18 18:07	4
Beryllium	ND		0.25	0.080	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Cadmium	0.18	J	0.31	0.031	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Chromium	7.0	B	1.2	0.13	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Cobalt	9.1		0.49	0.049	mg/Kg		12/21/18 15:51	12/31/18 18:07	4
Copper	88	F1	3.7	1.8	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Lead	23		1.2	0.26	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Molybdenum	ND		1.2	0.16	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Nickel	3.7	B	1.2	0.13	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Selenium	ND		2.5	0.37	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Silver	ND		0.62	0.12	mg/Kg		12/21/18 15:51	12/31/18 18:07	4
Thallium	ND		1.2	0.36	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Vanadium	72		1.2	0.17	mg/Kg		12/21/18 15:51	12/26/18 14:02	4
Zinc	55	B	3.7	1.6	mg/Kg		12/21/18 15:51	12/26/18 14:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.4		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AR2S-0.5-1

Date Collected: 12/17/18 11:40
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.33	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Arsenic	**5.2**		4.0	0.34	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Barium	**80**		2.0	0.28	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Beryllium	ND		0.40	0.13	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Cadmium	**0.29**	**J**	0.50	0.050	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Chromium	**12**	**B**	2.0	0.21	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Cobalt	**12**		0.80	0.080	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Copper	**190**		6.0	2.8	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Lead	**94**		2.0	0.42	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Molybdenum	ND		2.0	0.26	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Nickel	**7.0**		2.0	0.20	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Selenium	ND		4.0	0.60	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Silver	**0.33**	**J**	1.0	0.20	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Thallium	ND		2.0	0.58	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Vanadium	**110**		2.0	0.27	mg/Kg		12/19/18 10:46	12/27/18 17:59	4
Zinc	**120**		6.0	2.5	mg/Kg		12/19/18 10:46	12/27/18 17:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.087**		0.015	0.0021	mg/Kg		01/02/19 10:37	01/02/19 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AR2S-3.5-4

Date Collected: 12/17/18 11:40
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.1	0.19	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Arsenic	180		2.2	0.19	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Barium	88		1.1	0.16	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Beryllium	0.23		0.22	0.073	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Cadmium	0.54		0.28	0.028	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Chromium	17	B	1.1	0.12	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Cobalt	8.1		0.45	0.045	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Copper	150		3.4	1.6	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Lead	170		1.1	0.24	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Molybdenum	0.21	J	1.1	0.14	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Nickel	16		1.1	0.11	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Selenium	ND		2.2	0.34	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Silver	0.46	J	0.56	0.11	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Thallium	ND		1.1	0.33	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Vanadium	50		1.1	0.15	mg/Kg		12/19/18 10:46	12/27/18 18:03	4
Zinc	130		3.4	1.4	mg/Kg		12/19/18 10:46	12/27/18 18:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.43		0.015	0.0021	mg/Kg		01/02/19 10:37	01/02/19 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.6		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AS2S-0.5-1

Date Collected: 12/17/18 11:49
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.27	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Arsenic	**9.2**		3.2	0.27	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Barium	**43**		1.6	0.23	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Beryllium	ND		0.32	0.10	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Cadmium	ND		0.40	0.040	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Chromium	**7.0**	**B**	1.6	0.17	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Cobalt	**9.9**		0.64	0.064	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Copper	**130**		4.8	2.3	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Lead	**14**		1.6	0.34	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Nickel	**3.4**		1.6	0.16	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Selenium	ND		3.2	0.48	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Silver	ND		0.80	0.16	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Thallium	ND		1.6	0.46	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Vanadium	**110**		1.6	0.22	mg/Kg		12/19/18 10:46	12/27/18 18:17	4
Zinc	**42**		4.8	2.0	mg/Kg		12/19/18 10:46	12/27/18 18:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.014	0.0021	mg/Kg		01/02/19 11:40	01/02/19 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AS2S-3.5-4

Date Collected: 12/17/18 11:49
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.1	0.18	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Arsenic	2.2		2.2	0.19	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Barium	20		1.1	0.16	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Beryllium	ND		0.22	0.072	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Cadmium	ND		0.28	0.028	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Chromium	6.2	B	1.1	0.12	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Cobalt	9.3		0.44	0.044	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Copper	84		3.3	1.6	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Lead	2.2		1.1	0.23	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Molybdenum	0.17	J	1.1	0.14	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Nickel	3.4		1.1	0.11	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Selenium	ND		2.2	0.33	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Silver	ND		0.56	0.11	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Thallium	ND		1.1	0.32	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Vanadium	66		1.1	0.15	mg/Kg		12/19/18 10:46	12/27/18 18:22	4
Zinc	32		3.3	1.4	mg/Kg		12/19/18 10:46	12/27/18 18:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068		0.016	0.0024	mg/Kg		01/02/19 11:40	01/02/19 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AT2S-0.5-1

Date Collected: 12/17/18 11:56
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.8	0.30	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Arsenic	1.9	J	3.6	0.31	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Barium	29		1.8	0.26	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Beryllium	ND		0.36	0.12	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Cadmium	ND		0.45	0.045	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Chromium	9.0	B	1.8	0.19	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Cobalt	10		0.72	0.072	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Copper	130		5.4	2.6	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Lead	15		1.8	0.38	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Molybdenum	ND		1.8	0.23	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Nickel	3.8		1.8	0.18	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Selenium	ND		3.6	0.54	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Silver	ND		0.90	0.18	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Thallium	ND		1.8	0.52	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Vanadium	110		1.8	0.25	mg/Kg		12/19/18 10:46	12/27/18 18:26	4
Zinc	46		5.4	2.3	mg/Kg		12/19/18 10:46	12/27/18 18:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AT2S-3.5-4

Date Collected: 12/17/18 11:56
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.4	0.24	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Arsenic	1.2	J	2.9	0.25	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Barium	26		1.4	0.21	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Beryllium	ND		0.29	0.094	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Cadmium	ND		0.36	0.036	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Chromium	8.0	B	1.4	0.15	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Cobalt	12		0.58	0.058	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Copper	100		4.3	2.1	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Lead	7.7		1.4	0.30	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Molybdenum	0.29	J	1.4	0.19	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Nickel	3.9		1.4	0.15	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Selenium	0.69	J	2.9	0.43	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Silver	ND		0.72	0.15	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Thallium	ND		1.4	0.42	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Vanadium	89		1.4	0.20	mg/Kg		12/19/18 10:46	12/27/18 18:31	4
Zinc	42		4.3	1.8	mg/Kg		12/19/18 10:46	12/27/18 18:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AU2S-0.5-1

Date Collected: 12/17/18 12:05
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.51**	**J**	1.8	0.30	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Arsenic	ND		3.6	0.30	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Barium	**27**		1.8	0.25	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Beryllium	ND		0.36	0.12	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Cadmium	ND		0.45	0.044	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Chromium	**8.2**	**B**	1.8	0.19	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Cobalt	**15**		0.71	0.071	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Copper	**120**		5.4	2.5	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Lead	**3.0**		1.8	0.38	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Molybdenum	ND		1.8	0.23	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Nickel	**3.6**		1.8	0.18	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Selenium	**0.65**	**J**	3.6	0.54	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Silver	ND		0.89	0.18	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Thallium	ND		1.8	0.52	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Vanadium	**130**		1.8	0.24	mg/Kg		12/19/18 10:46	12/27/18 18:35	4
Zinc	**47**		5.4	2.3	mg/Kg		12/19/18 10:46	12/27/18 18:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.016	0.0024	mg/Kg		01/02/19 11:40	01/02/19 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AU2S-3.5-4

Date Collected: 12/17/18 12:05
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.1	0.19	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Arsenic	1.0	J	2.3	0.19	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Barium	46		1.1	0.16	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Beryllium	ND		0.23	0.074	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Cadmium	0.046	J	0.28	0.028	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Chromium	12	B	1.1	0.12	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Cobalt	14		0.45	0.045	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Copper	130		3.4	1.6	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Lead	2.5		1.1	0.24	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Molybdenum	0.41	J	1.1	0.15	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Nickel	5.0		1.1	0.12	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Selenium	ND		2.3	0.34	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Silver	0.22	J	0.57	0.11	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Thallium	ND		1.1	0.33	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Vanadium	120		1.1	0.15	mg/Kg		12/19/18 10:46	12/27/18 18:40	4
Zinc	48		3.4	1.4	mg/Kg		12/19/18 10:46	12/27/18 18:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.6		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AV4S-0.5-1

Date Collected: 12/17/18 13:27
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.73	J F1	1.9	0.32	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Arsenic	ND		3.9	0.33	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Barium	16		1.9	0.28	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Beryllium	ND		0.39	0.13	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Cadmium	ND		0.49	0.048	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Chromium	16		1.9	0.21	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Cobalt	16		0.78	0.078	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Copper	130	F1 F2	5.8	2.8	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Lead	1.5	J	1.9	0.41	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Molybdenum	ND		1.9	0.25	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Nickel	6.1		1.9	0.20	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Selenium	ND		3.9	0.58	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Silver	ND		0.97	0.20	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Thallium	ND		1.9	0.56	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Vanadium	120		1.9	0.26	mg/Kg		12/20/18 08:28	12/21/18 13:02	4
Zinc	48		5.8	2.5	mg/Kg		12/20/18 08:28	12/21/18 13:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AV4S-3.5-4

Date Collected: 12/17/18 13:27
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.8	0.30	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Arsenic	9.9		3.6	0.30	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Barium	160	B	1.8	0.25	mg/Kg		12/21/18 15:51	12/31/18 18:11	4
Beryllium	0.50		0.36	0.12	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Cadmium	0.061	J	0.45	0.044	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Chromium	31	B	1.8	0.19	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Cobalt	17		0.71	0.071	mg/Kg		12/21/18 15:51	12/31/18 18:11	4
Copper	39		5.4	2.5	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Lead	23		1.8	0.38	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Molybdenum	0.28	J	1.8	0.23	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Nickel	46	B	1.8	0.18	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Selenium	ND		3.6	0.54	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Silver	0.18	J	0.89	0.18	mg/Kg		12/21/18 15:51	12/31/18 18:11	4
Thallium	ND		1.8	0.52	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Vanadium	29		1.8	0.24	mg/Kg		12/21/18 15:51	12/26/18 14:06	4
Zinc	79	B	5.4	2.3	mg/Kg		12/21/18 15:51	12/26/18 14:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.077		0.016	0.0024	mg/Kg		01/02/19 11:40	01/02/19 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AV4S-8-8.5

Date Collected: 12/17/18 13:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	1.7	0.28	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Arsenic	13		3.4	0.29	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Barium	39	B	1.7	0.24	mg/Kg		12/21/18 15:51	12/31/18 18:16	4
Beryllium	0.44		0.34	0.11	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Cadmium	0.081	J	0.43	0.042	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Chromium	26	B	1.7	0.18	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Cobalt	13		0.68	0.068	mg/Kg		12/21/18 15:51	12/31/18 18:16	4
Copper	20		5.1	2.4	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Lead	7.1		1.7	0.36	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Molybdenum	0.59	J	1.7	0.22	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Nickel	27	B	1.7	0.17	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Selenium	ND		3.4	0.51	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Silver	ND		0.85	0.17	mg/Kg		12/21/18 15:51	12/31/18 18:16	4
Thallium	ND		1.7	0.50	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Vanadium	35		1.7	0.23	mg/Kg		12/21/18 15:51	12/26/18 14:11	4
Zinc	54	B	5.1	2.2	mg/Kg		12/21/18 15:51	12/26/18 14:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0025	mg/Kg		01/02/19 11:40	01/02/19 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AU4S-0.5-1

Lab Sample ID: 720-90386-26

Date Collected: 12/17/18 13:49

Matrix: Solid

Date Received: 12/17/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.92**	**J**	1.9	0.31	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Arsenic	ND		3.7	0.31	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Barium	**40**	**B**	1.9	0.26	mg/Kg		12/21/18 15:51	12/31/18 18:21	4
Beryllium	ND		0.37	0.12	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Cadmium	ND		0.46	0.046	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Chromium	**4.4**	**B**	1.9	0.20	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Cobalt	**11**		0.74	0.074	mg/Kg		12/21/18 15:51	12/31/18 18:21	4
Copper	**82**		5.6	2.6	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Lead	**0.39**	**J**	1.9	0.39	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Molybdenum	ND		1.9	0.24	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Nickel	**2.5**	**B**	1.9	0.19	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Selenium	ND		3.7	0.56	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Silver	ND		0.93	0.19	mg/Kg		12/21/18 15:51	12/31/18 18:21	4
Thallium	ND		1.9	0.54	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Vanadium	**91**		1.9	0.25	mg/Kg		12/21/18 15:51	12/26/18 14:16	4
Zinc	**39**	**B**	5.6	2.4	mg/Kg		12/21/18 15:51	12/26/18 14:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.016	0.0024	mg/Kg		01/02/19 11:40	01/02/19 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AU4S-3.5-4

Date Collected: 12/17/18 13:49
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.95	J	1.0	0.17	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Arsenic	46		2.0	0.17	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Barium	150	B	1.0	0.14	mg/Kg		12/21/18 15:51	12/31/18 18:25	4
Beryllium	0.20		0.20	0.066	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Cadmium	0.13	J	0.25	0.025	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Chromium	49	B	1.0	0.11	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Cobalt	9.3		0.41	0.041	mg/Kg		12/21/18 15:51	12/31/18 18:25	4
Copper	13		3.0	1.4	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Lead	260		1.0	0.21	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Molybdenum	0.35	J	1.0	0.13	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Nickel	28	B	1.0	0.10	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Selenium	ND		2.0	0.30	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Silver	0.16	J	0.51	0.10	mg/Kg		12/21/18 15:51	12/31/18 18:25	4
Thallium	ND		1.0	0.29	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Vanadium	39		1.0	0.14	mg/Kg		12/21/18 15:51	12/26/18 14:29	4
Zinc	76	B	3.0	1.3	mg/Kg		12/21/18 15:51	12/26/18 14:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.016	0.0024	mg/Kg		01/02/19 11:40	01/02/19 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.4		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AT4S-0.5-1

Date Collected: 12/17/18 14:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Arsenic	**0.76**	**J**	3.2	0.27	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Barium	**50**	**B**	1.6	0.23	mg/Kg		12/21/18 15:51	12/31/18 18:30	4
Beryllium	ND		0.32	0.10	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Cadmium	**0.11**	**J**	0.40	0.039	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Chromium	**5.6**	**B**	1.6	0.17	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Cobalt	**13**		0.63	0.063	mg/Kg		12/21/18 15:51	12/31/18 18:30	4
Copper	**110**		4.8	2.3	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Lead	**9.0**		1.6	0.33	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Nickel	**3.4**	**B**	1.6	0.16	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Selenium	**0.61**	**J**	3.2	0.48	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Silver	ND		0.79	0.16	mg/Kg		12/21/18 15:51	12/31/18 18:30	4
Thallium	ND		1.6	0.46	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Vanadium	**87**		1.6	0.22	mg/Kg		12/21/18 15:51	12/26/18 14:34	4
Zinc	**350**	**B**	4.8	2.0	mg/Kg		12/21/18 15:51	12/26/18 14:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.017	0.0025	mg/Kg		01/02/19 11:40	01/02/19 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AT4S-3.5-4

Date Collected: 12/17/18 14:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.3	0.22	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Arsenic	150		2.6	0.22	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Barium	180	B	1.3	0.19	mg/Kg		12/21/18 15:51	12/31/18 18:35	4
Beryllium	0.18	J	0.26	0.086	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Cadmium	0.87		0.33	0.033	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Chromium	30	B	1.3	0.14	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Cobalt	6.7		0.53	0.053	mg/Kg		12/21/18 15:51	12/31/18 18:35	4
Copper	71		3.9	1.9	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Lead	310		1.3	0.28	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Molybdenum	0.30	J	1.3	0.17	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Nickel	24	B	1.3	0.13	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Selenium	ND		2.6	0.39	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Silver	0.38	J	0.66	0.13	mg/Kg		12/21/18 15:51	12/31/18 18:35	4
Thallium	ND		1.3	0.38	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Vanadium	34		1.3	0.18	mg/Kg		12/21/18 15:51	12/26/18 14:39	4
Zinc	370	B	3.9	1.7	mg/Kg		12/21/18 15:51	12/26/18 14:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.68		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.7		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AS4S-0.5-1

Date Collected: 12/17/18 14:10
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.19	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Arsenic	0.64	J	2.3	0.19	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Barium	36	B	1.1	0.16	mg/Kg		12/21/18 15:51	12/31/18 18:39	4
Beryllium	ND		0.23	0.074	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Cadmium	ND		0.29	0.028	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Chromium	4.3	B	1.1	0.12	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Cobalt	8.8		0.46	0.046	mg/Kg		12/21/18 15:51	12/31/18 18:39	4
Copper	76		3.4	1.6	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Lead	2.3		1.1	0.24	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Molybdenum	ND		1.1	0.15	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Nickel	2.1	B	1.1	0.12	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Selenium	ND		2.3	0.34	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Silver	ND		0.57	0.12	mg/Kg		12/21/18 15:51	12/31/18 18:39	4
Thallium	ND		1.1	0.33	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Vanadium	68		1.1	0.16	mg/Kg		12/21/18 15:51	12/26/18 14:43	4
Zinc	35	B	3.4	1.5	mg/Kg		12/21/18 15:51	12/26/18 14:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.9		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AS4S-3.5-4

Date Collected: 12/17/18 14:10
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8		1.5	0.25	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Arsenic	230		3.1	0.26	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Barium	150	B	1.5	0.22	mg/Kg		12/21/18 15:51	12/31/18 18:44	4
Beryllium	0.23	J	0.31	0.099	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Cadmium	0.87		0.38	0.038	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Chromium	43	B	1.5	0.16	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Cobalt	11		0.61	0.061	mg/Kg		12/21/18 15:51	12/31/18 18:44	4
Copper	110		4.6	2.2	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Lead	330		1.5	0.32	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Molybdenum	0.28	J	1.5	0.20	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Nickel	31	B	1.5	0.16	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Selenium	ND		3.1	0.46	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Silver	0.45	J	0.76	0.15	mg/Kg		12/21/18 15:51	12/31/18 18:44	4
Thallium	ND		1.5	0.44	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Vanadium	45		1.5	0.21	mg/Kg		12/21/18 15:51	12/26/18 14:48	4
Zinc	460	B	4.6	1.9	mg/Kg		12/21/18 15:51	12/26/18 14:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.56		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.1		0.1	0.05	%			12/19/18 11:07	1

Client Sample ID: DG-AR4S-0.5-1

Date Collected: 12/17/18 14:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.17	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Arsenic	**0.70**	**J**	2.0	0.17	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Barium	**37**	**B**	1.0	0.14	mg/Kg		12/21/18 15:51	12/31/18 18:58	4
Beryllium	ND		0.20	0.066	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Cadmium	ND		0.25	0.025	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Chromium	**5.4**	**B**	1.0	0.11	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Cobalt	**8.9**		0.40	0.040	mg/Kg		12/21/18 15:51	12/31/18 18:58	4
Copper	**120**		3.0	1.4	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Lead	**2.2**		1.0	0.21	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Molybdenum	ND		1.0	0.13	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Nickel	**2.3**	**B**	1.0	0.10	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Selenium	ND		2.0	0.30	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Silver	ND		0.51	0.10	mg/Kg		12/21/18 15:51	12/31/18 18:58	4
Thallium	ND		1.0	0.29	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Vanadium	**71**		1.0	0.14	mg/Kg		12/21/18 15:51	12/26/18 14:52	4
Zinc	**33**	**B**	3.0	1.3	mg/Kg		12/21/18 15:51	12/26/18 14:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.4**		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AR4S-3.5-4

Date Collected: 12/17/18 14:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.3	0.21	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Arsenic	120		2.5	0.21	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Barium	91	B	1.3	0.18	mg/Kg		12/21/18 15:51	12/31/18 19:02	4
Beryllium	0.21	J	0.25	0.082	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Cadmium	1.0		0.31	0.031	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Chromium	44	B	1.3	0.13	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Cobalt	9.9		0.50	0.050	mg/Kg		12/21/18 15:51	12/31/18 19:02	4
Copper	50		3.8	1.8	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Lead	140		1.3	0.26	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Molybdenum	ND		1.3	0.16	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Nickel	32	B	1.3	0.13	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Selenium	ND		2.5	0.38	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Silver	0.57	J	0.63	0.13	mg/Kg		12/21/18 15:51	12/31/18 19:02	4
Thallium	ND		1.3	0.36	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Vanadium	39		1.3	0.17	mg/Kg		12/21/18 15:51	12/26/18 14:57	4
Zinc	310	B	3.8	1.6	mg/Kg		12/21/18 15:51	12/26/18 14:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.57		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.8		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AQ4S-0.5-1

Date Collected: 12/17/18 14:35
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.6	0.26	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Arsenic	5.1		3.1	0.27	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Barium	34	B	1.6	0.22	mg/Kg		12/21/18 15:51	12/31/18 19:07	4
Beryllium	ND		0.31	0.10	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Cadmium	ND		0.39	0.039	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Chromium	11	B	1.6	0.17	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Cobalt	11		0.63	0.063	mg/Kg		12/21/18 15:51	12/31/18 19:07	4
Copper	120		4.7	2.2	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Lead	6.7		1.6	0.33	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Nickel	3.6	B	1.6	0.16	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Selenium	ND		3.1	0.47	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Silver	ND		0.79	0.16	mg/Kg		12/21/18 15:51	12/31/18 19:07	4
Thallium	ND		1.6	0.46	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Vanadium	84		1.6	0.21	mg/Kg		12/21/18 15:51	12/26/18 15:01	4
Zinc	40	B	4.7	2.0	mg/Kg		12/21/18 15:51	12/26/18 15:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.014	0.0021	mg/Kg		01/02/19 11:40	01/02/19 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AQ4S-3.5-4

Date Collected: 12/17/18 14:35
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5		1.2	0.20	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Arsenic	190		2.5	0.21	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Barium	140	B	1.2	0.18	mg/Kg		12/21/18 15:51	12/31/18 19:11	4
Beryllium	0.12	J	0.25	0.080	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Cadmium	1.4		0.31	0.031	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Chromium	24	B	1.2	0.13	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Cobalt	7.7		0.49	0.049	mg/Kg		12/21/18 15:51	12/31/18 19:11	4
Copper	110		3.7	1.8	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Lead	420		1.2	0.26	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Molybdenum	ND		1.2	0.16	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Nickel	15	B	1.2	0.13	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Selenium	ND		2.5	0.37	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Silver	0.42	J	0.62	0.12	mg/Kg		12/21/18 15:51	12/31/18 19:11	4
Thallium	ND		1.2	0.36	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Vanadium	45		1.2	0.17	mg/Kg		12/21/18 15:51	12/26/18 15:06	4
Zinc	770	B	3.7	1.6	mg/Kg		12/21/18 15:51	12/26/18 15:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.016	0.0024	mg/Kg		01/02/19 11:40	01/02/19 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.8		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AQ4S-9-9.5

Date Collected: 12/17/18 14:35
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.8	0.30	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Arsenic	6.0		3.6	0.30	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Barium	59	B	1.8	0.25	mg/Kg		12/21/18 15:51	12/31/18 19:16	4
Beryllium	0.31	J	0.36	0.12	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Cadmium	ND		0.45	0.044	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Chromium	29	B	1.8	0.19	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Cobalt	8.7		0.71	0.071	mg/Kg		12/21/18 15:51	12/31/18 19:16	4
Copper	6.5		5.4	2.5	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Lead	0.95	J	1.8	0.38	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Molybdenum	0.52	J	1.8	0.23	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Nickel	21	B	1.8	0.18	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Selenium	ND		3.6	0.54	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Silver	ND		0.89	0.18	mg/Kg		12/21/18 15:51	12/31/18 19:16	4
Thallium	ND		1.8	0.52	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Vanadium	39		1.8	0.24	mg/Kg		12/21/18 15:51	12/26/18 15:11	4
Zinc	29	B	5.4	2.3	mg/Kg		12/21/18 15:51	12/26/18 15:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.4		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AP4S-0.5-1

Date Collected: 12/17/18 15:10
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.3	0.21	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Arsenic	0.69	J	2.5	0.22	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Barium	29	B	1.3	0.18	mg/Kg		12/21/18 15:51	12/31/18 19:21	4
Beryllium	ND		0.25	0.083	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Cadmium	0.055	J	0.32	0.032	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Chromium	6.9	B	1.3	0.14	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Cobalt	12		0.51	0.051	mg/Kg		12/21/18 15:51	12/31/18 19:21	4
Copper	78		3.8	1.8	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Lead	4.8		1.3	0.27	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Molybdenum	ND		1.3	0.16	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Nickel	2.8	B	1.3	0.13	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Selenium	ND		2.5	0.38	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Silver	ND		0.64	0.13	mg/Kg		12/21/18 15:51	12/31/18 19:21	4
Thallium	ND		1.3	0.37	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Vanadium	83		1.3	0.17	mg/Kg		12/21/18 15:51	12/26/18 15:24	4
Zinc	38	B	3.8	1.6	mg/Kg		12/21/18 15:51	12/26/18 15:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.014	0.0021	mg/Kg		01/02/19 11:40	01/02/19 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.0		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AP4S-3.5-4

Date Collected: 12/17/18 15:10
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-38

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.3	0.21	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Arsenic	190		2.5	0.22	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Barium	100	B	1.3	0.18	mg/Kg		12/21/18 15:51	12/31/18 19:25	4
Beryllium	0.17	J	0.25	0.082	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Cadmium	0.89		0.32	0.031	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Chromium	39	B	1.3	0.13	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Cobalt	8.9		0.51	0.051	mg/Kg		12/21/18 15:51	12/31/18 19:25	4
Copper	85		3.8	1.8	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Lead	320		1.3	0.27	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Molybdenum	ND		1.3	0.16	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Nickel	23	B	1.3	0.13	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Selenium	ND		2.5	0.38	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Silver	0.22	J	0.63	0.13	mg/Kg		12/21/18 15:51	12/31/18 19:25	4
Thallium	ND		1.3	0.37	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Vanadium	43		1.3	0.17	mg/Kg		12/21/18 15:51	12/26/18 15:29	4
Zinc	840	B	3.8	1.6	mg/Kg		12/21/18 15:51	12/26/18 15:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.9		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AO4S-0.5-1

Date Collected: 12/17/18 15:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-39

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.1	0.19	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Arsenic	0.69	J	2.3	0.19	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Barium	30	B	1.1	0.16	mg/Kg		12/21/18 15:51	12/31/18 19:30	4
Beryllium	ND		0.23	0.074	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Cadmium	0.059	J	0.28	0.028	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Chromium	8.2	B	1.1	0.12	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Cobalt	14		0.45	0.045	mg/Kg		12/21/18 15:51	12/31/18 19:30	4
Copper	81		3.4	1.6	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Lead	6.1		1.1	0.24	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Molybdenum	ND		1.1	0.15	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Nickel	4.1	B	1.1	0.12	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Selenium	ND		2.3	0.34	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Silver	ND		0.57	0.11	mg/Kg		12/21/18 15:51	12/31/18 19:30	4
Thallium	ND		1.1	0.33	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Vanadium	97		1.1	0.15	mg/Kg		12/21/18 15:51	12/26/18 15:34	4
Zinc	77	B	3.4	1.4	mg/Kg		12/21/18 15:51	12/26/18 15:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.8		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AO4S-3.5-4

Date Collected: 12/17/18 15:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-40

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.0	0.17	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Arsenic	140		2.1	0.18	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Barium	100	B	1.0	0.15	mg/Kg		12/21/18 15:51	12/31/18 19:35	4
Beryllium	0.19	J	0.21	0.067	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Cadmium	1.4		0.26	0.026	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Chromium	35	B	1.0	0.11	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Cobalt	8.4		0.41	0.041	mg/Kg		12/21/18 15:51	12/31/18 19:35	4
Copper	51		3.1	1.5	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Lead	120		1.0	0.22	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Molybdenum	ND		1.0	0.13	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Nickel	24	B	1.0	0.11	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Selenium	ND		2.1	0.31	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Silver	0.37	J	0.52	0.10	mg/Kg		12/21/18 15:51	12/31/18 19:35	4
Thallium	ND		1.0	0.30	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Vanadium	43		1.0	0.14	mg/Kg		12/21/18 15:51	12/26/18 15:38	4
Zinc	400	B	3.1	1.3	mg/Kg		12/21/18 15:51	12/26/18 15:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.014	0.0021	mg/Kg		01/02/19 11:40	01/02/19 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.5		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AN4S-0.5-1

Date Collected: 12/17/18 15:32
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-41

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.8		1.4	0.24	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Arsenic	36		2.9	0.24	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Barium	150	B	1.4	0.20	mg/Kg		12/21/18 15:51	12/31/18 19:39	4
Beryllium	0.10	J	0.29	0.093	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Cadmium	5.0		0.36	0.035	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Chromium	66	B	1.4	0.15	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Cobalt	15		0.57	0.057	mg/Kg		12/21/18 15:51	12/31/18 19:39	4
Copper	2400		4.3	2.0	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Lead	750		1.4	0.30	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Molybdenum	6.5		1.4	0.18	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Nickel	73	B	1.4	0.15	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Selenium	ND		2.9	0.43	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Silver	0.85		0.71	0.14	mg/Kg		12/21/18 15:51	12/31/18 19:39	4
Thallium	ND		1.4	0.41	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Vanadium	36		1.4	0.19	mg/Kg		12/21/18 15:51	12/26/18 15:43	4
Zinc	710	B	4.3	1.8	mg/Kg		12/21/18 15:51	12/26/18 15:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.92		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DG-AN4S-3.5-4

Date Collected: 12/17/18 15:32
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-42

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	11		1.8	0.30	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Arsenic	160		3.6	0.31	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Barium	180	B	1.8	0.26	mg/Kg		12/21/18 15:51	12/31/18 19:54	4
Beryllium	0.23	J	0.36	0.12	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Cadmium	2.9		0.45	0.045	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Chromium	24	B	1.8	0.19	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Cobalt	8.7		0.73	0.073	mg/Kg		12/21/18 15:51	12/31/18 19:54	4
Copper	220		5.5	2.6	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Lead	880		1.8	0.38	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Molybdenum	0.27	J	1.8	0.23	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Nickel	25	B	1.8	0.19	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Selenium	ND		3.6	0.55	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Silver	0.67	J	0.91	0.18	mg/Kg		12/21/18 15:51	12/31/18 19:54	4
Thallium	ND		1.8	0.53	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Vanadium	45		1.8	0.25	mg/Kg		12/21/18 15:51	12/26/18 15:47	4
Zinc	830	B	5.5	2.3	mg/Kg		12/21/18 15:51	12/26/18 15:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.75		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 16:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.2		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DUP-11

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-43

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Arsenic	ND		3.2	0.27	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Barium	**28**		1.6	0.23	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Beryllium	ND		0.32	0.10	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Cadmium	ND		0.40	0.039	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Chromium	**7.5**		1.6	0.17	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Cobalt	**12**		0.63	0.063	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Copper	**130**		4.8	2.3	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Lead	**6.5**		1.6	0.33	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Nickel	**3.8**		1.6	0.16	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Selenium	ND		3.2	0.48	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Silver	ND		0.79	0.16	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Thallium	ND		1.6	0.46	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Vanadium	**110**		1.6	0.22	mg/Kg		12/20/18 08:28	12/21/18 13:57	4
Zinc	**52**		4.8	2.0	mg/Kg		12/20/18 08:28	12/21/18 13:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.044**		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 16:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DUP-12

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-44

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2		1.7	0.27	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Arsenic	150		3.3	0.28	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Barium	220		1.7	0.23	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Beryllium	0.25	J	0.33	0.11	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Cadmium	0.44		0.41	0.041	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Chromium	21		1.7	0.18	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Cobalt	5.7		0.66	0.066	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Copper	120		5.0	2.4	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Lead	400		1.7	0.35	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Molybdenum	ND		1.7	0.21	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Nickel	20		1.7	0.17	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Selenium	ND		3.3	0.50	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Silver	ND		0.83	0.17	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Thallium	ND		1.7	0.48	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Vanadium	22		1.7	0.22	mg/Kg		12/20/18 08:28	12/21/18 14:02	4
Zinc	470		5.0	2.1	mg/Kg		12/20/18 08:28	12/21/18 14:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.33		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 16:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.8		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DUP-13

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-45

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.30	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Arsenic	ND		3.7	0.31	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Barium	**25**		1.8	0.26	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Beryllium	ND		0.37	0.12	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Cadmium	ND		0.46	0.046	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Chromium	**8.1**		1.8	0.19	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Cobalt	**9.4**		0.73	0.073	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Copper	**100**		5.5	2.6	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Lead	**6.4**		1.8	0.39	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Molybdenum	ND		1.8	0.23	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Nickel	**3.2**		1.8	0.19	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Selenium	ND		3.7	0.55	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Silver	ND		0.92	0.19	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Thallium	ND		1.8	0.53	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Vanadium	**100**		1.8	0.25	mg/Kg		12/20/18 08:28	12/21/18 14:07	4
Zinc	**36**		5.5	2.3	mg/Kg		12/20/18 08:28	12/21/18 14:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.016	0.0023	mg/Kg		12/19/18 10:59	01/03/19 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DUP-27

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-46

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.94	J	1.0	0.17	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Arsenic	16		2.1	0.18	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Barium	140		1.0	0.15	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Beryllium	0.55		0.21	0.068	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Cadmium	ND		0.26	0.026	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Chromium	25		1.0	0.11	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Cobalt	12		0.42	0.042	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Copper	43		3.1	1.5	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Lead	17		1.0	0.22	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Molybdenum	0.37	J	1.0	0.13	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Nickel	40		1.0	0.11	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Selenium	ND		2.1	0.31	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Silver	ND		0.52	0.11	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Thallium	ND		1.0	0.30	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Vanadium	25		1.0	0.14	mg/Kg		12/20/18 08:28	12/21/18 14:11	4
Zinc	81		3.1	1.3	mg/Kg		12/20/18 08:28	12/21/18 14:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.016	0.0024	mg/Kg		12/19/18 10:59	01/03/19 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DUP-26

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-47

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.19	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Arsenic	**0.43**	**J**	2.3	0.20	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Barium	**25**		1.1	0.16	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Beryllium	ND		0.23	0.075	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Cadmium	ND		0.29	0.029	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Chromium	**4.0**		1.1	0.12	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Cobalt	**5.0**		0.46	0.046	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Copper	**72**		3.4	1.6	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Lead	**2.5**		1.1	0.24	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Molybdenum	ND		1.1	0.15	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Nickel	**2.2**		1.1	0.12	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Selenium	ND		2.3	0.34	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Silver	ND		0.57	0.12	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Thallium	ND		1.1	0.33	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Vanadium	**46**		1.1	0.16	mg/Kg		12/20/18 08:28	12/21/18 14:25	4
Zinc	**34**		3.4	1.5	mg/Kg		12/20/18 08:28	12/21/18 14:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.014	0.0021	mg/Kg		12/19/18 10:59	01/03/19 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.05	%			12/19/18 11:57	1

Client Sample ID: DUP-25

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-48

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.2	0.19	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Arsenic	230		2.3	0.20	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Barium	77		1.2	0.17	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Beryllium	0.19	J	0.23	0.076	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Cadmium	1.1		0.29	0.029	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Chromium	45		1.2	0.12	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Cobalt	7.7		0.47	0.047	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Copper	12		3.5	1.7	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Lead	24		1.2	0.24	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Molybdenum	0.17	J	1.2	0.15	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Nickel	23		1.2	0.12	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Selenium	ND		2.3	0.35	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Silver	ND		0.58	0.12	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Thallium	ND		1.2	0.34	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Vanadium	38		1.2	0.16	mg/Kg		12/20/18 08:28	12/21/18 14:30	4
Zinc	72		3.5	1.5	mg/Kg		12/20/18 08:28	12/21/18 14:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.015	0.0023	mg/Kg		12/19/18 10:59	01/03/19 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.9		0.1	0.05	%			12/19/18 11:57	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257231/1-A
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.107	J	0.50	0.083	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Arsenic	ND		1.0	0.085	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Barium	ND		0.50	0.071	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Beryllium	ND		0.10	0.033	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Cadmium	ND		0.13	0.012	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Chromium	ND		0.50	0.053	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Cobalt	ND		0.20	0.020	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Copper	ND		1.5	0.71	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Lead	ND		0.50	0.11	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Nickel	ND		0.50	0.051	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Selenium	ND		1.0	0.15	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Silver	ND		0.25	0.051	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Thallium	ND		0.50	0.15	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Vanadium	ND		0.50	0.068	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Zinc	ND		1.5	0.64	mg/Kg		12/20/18 11:04	12/21/18 14:53	1

Lab Sample ID: LCS 720-257231/2-A
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.0		mg/Kg		96	80 - 120
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	50.0	48.3		mg/Kg		97	80 - 120
Beryllium	50.0	48.9		mg/Kg		98	80 - 120
Cadmium	50.0	48.7		mg/Kg		97	80 - 120
Chromium	50.0	49.2		mg/Kg		98	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	50.0	48.9		mg/Kg		98	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Selenium	50.0	47.0		mg/Kg		94	80 - 120
Silver	25.0	23.1		mg/Kg		92	80 - 120
Thallium	50.0	48.8		mg/Kg		98	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120

Lab Sample ID: 720-90388-E-2-A MS
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.1	B F1	49.5	17.6	F1	mg/Kg		34	75 - 125
Arsenic	16	F1	49.5	69.8	F1	mg/Kg		133	75 - 125
Barium	98	F1	49.5	183	F1	mg/Kg		320	75 - 125
Beryllium	0.29	J F1	49.5	55.4		mg/Kg		112	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90388-E-2-A MS
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND		49.5	52.2		mg/Kg		105	75 - 125
Chromium	110	F1	49.5	153	F1	mg/Kg		252	75 - 125
Cobalt	17	F1	49.5	68.8	F1	mg/Kg		131	75 - 125
Copper	29	F1	49.5	83.1	F1	mg/Kg		153	75 - 125
Lead	5.1	F1	49.5	59.2		mg/Kg		117	75 - 125
Molybdenum	ND		49.5	49.8		mg/Kg		101	75 - 125
Nickel	120	F1	49.5	155	F1	mg/Kg		251	75 - 125
Selenium	ND		49.5	49.1		mg/Kg		99	75 - 125
Silver	ND		24.8	26.2		mg/Kg		106	75 - 125
Thallium	ND		49.5	49.9		mg/Kg		101	75 - 125
Vanadium	52	F1	49.5	108	F1	mg/Kg		193	75 - 125
Zinc	50	F1	49.5	104	F1	mg/Kg		185	75 - 125

Lab Sample ID: 720-90388-E-2-B MSD
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.1	B F1	50.0	19.5	F1	mg/Kg		38	75 - 125	11	20
Arsenic	16	F1	50.0	80.9	F1	mg/Kg		154	75 - 125	15	20
Barium	98	F1	50.0	185	F1	mg/Kg		322	75 - 125	1	20
Beryllium	0.29	J F1	50.0	64.7	F1	mg/Kg		129	75 - 125	16	20
Cadmium	ND		50.0	58.8		mg/Kg		118	75 - 125	12	20
Chromium	110	F1	50.0	147	F1	mg/Kg		238	75 - 125	4	20
Cobalt	17	F1	50.0	76.7	F1	mg/Kg		145	75 - 125	11	20
Copper	29	F1	50.0	99.3	F1	mg/Kg		184	75 - 125	18	20
Lead	5.1	F1	50.0	67.1	F1	mg/Kg		132	75 - 125	13	20
Molybdenum	ND		50.0	56.0		mg/Kg		112	75 - 125	12	20
Nickel	120	F1	50.0	163	F1	mg/Kg		264	75 - 125	5	20
Selenium	ND		50.0	56.6		mg/Kg		113	75 - 125	14	20
Silver	ND		25.0	30.7		mg/Kg		123	75 - 125	16	20
Thallium	ND		50.0	56.8		mg/Kg		114	75 - 125	13	20
Vanadium	52	F1	50.0	125	F1	mg/Kg		225	75 - 125	15	20
Zinc	50	F1	50.0	125	F1	mg/Kg		225	75 - 125	18	20

Lab Sample ID: MB 720-257248/1-A
Matrix: Solid
Analysis Batch: 257721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Arsenic	ND		1.0	0.085	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Barium	ND		0.50	0.071	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Beryllium	ND		0.10	0.033	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Chromium	0.0554	J	0.50	0.053	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 10:46	12/27/18 16:26	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257248/1-A
Matrix: Solid
Analysis Batch: 257721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Silver	ND		0.25	0.051	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 10:46	12/27/18 16:26	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 10:46	12/27/18 16:26	1

Lab Sample ID: LCS 720-257248/2-A
Matrix: Solid
Analysis Batch: 257721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.1		mg/Kg		92	80 - 120
Arsenic	50.0	46.6		mg/Kg		93	80 - 120
Barium	50.0	44.8		mg/Kg		90	80 - 120
Beryllium	50.0	46.8		mg/Kg		94	80 - 120
Cadmium	50.0	47.0		mg/Kg		94	80 - 120
Chromium	50.0	47.0		mg/Kg		94	80 - 120
Cobalt	50.0	48.5		mg/Kg		97	80 - 120
Copper	50.0	46.6		mg/Kg		93	80 - 120
Lead	50.0	47.6		mg/Kg		95	80 - 120
Molybdenum	50.0	47.6		mg/Kg		95	80 - 120
Nickel	50.0	47.0		mg/Kg		94	80 - 120
Selenium	50.0	45.7		mg/Kg		91	80 - 120
Silver	25.0	21.8		mg/Kg		87	80 - 120
Thallium	50.0	47.3		mg/Kg		95	80 - 120
Vanadium	50.0	46.2		mg/Kg		92	80 - 120
Zinc	50.0	45.0		mg/Kg		90	80 - 120

Lab Sample ID: 720-90386-5 MS
Matrix: Solid
Analysis Batch: 257721

Client Sample ID: DG-AQ2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.44	J F1	34.5	8.31	F1	mg/Kg		23	75 - 125
Arsenic	7.6		34.5	41.8		mg/Kg		99	75 - 125
Barium	25	F1	34.5	65.8		mg/Kg		119	75 - 125
Beryllium	0.10	J	34.5	37.1		mg/Kg		107	75 - 125
Cadmium	0.11	J	34.5	35.6		mg/Kg		103	75 - 125
Chromium	10	B	34.5	47.3		mg/Kg		107	75 - 125
Cobalt	10		34.5	48.4		mg/Kg		111	75 - 125
Copper	93	F1	34.5	144	F1	mg/Kg		149	75 - 125
Lead	20		34.5	49.3		mg/Kg		85	75 - 125
Molybdenum	ND		34.5	34.9		mg/Kg		101	75 - 125
Nickel	4.8		34.5	39.4		mg/Kg		100	75 - 125
Selenium	ND		34.5	35.5		mg/Kg		103	75 - 125
Silver	ND		17.2	17.8		mg/Kg		103	75 - 125
Thallium	ND		34.5	34.1		mg/Kg		99	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90386-5 MS
Matrix: Solid
Analysis Batch: 257721

Client Sample ID: DG-AQ2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	72	F1	34.5	129	F1	mg/Kg		165	75 - 125
Zinc	42		34.5	79.4		mg/Kg		108	75 - 125

Lab Sample ID: 720-90386-5 MSD
Matrix: Solid
Analysis Batch: 257721

Client Sample ID: DG-AQ2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.44	J F1	35.0	7.63	F1	mg/Kg		21	75 - 125	9	20
Arsenic	7.6		35.0	43.7		mg/Kg		103	75 - 125	4	20
Barium	25	F1	35.0	70.6	F1	mg/Kg		131	75 - 125	7	20
Beryllium	0.10	J	35.0	36.6		mg/Kg		104	75 - 125	1	20
Cadmium	0.11	J	35.0	35.2		mg/Kg		100	75 - 125	1	20
Chromium	10	B	35.0	47.3		mg/Kg		105	75 - 125	0	20
Cobalt	10		35.0	46.6		mg/Kg		104	75 - 125	4	20
Copper	93	F1	35.0	133		mg/Kg		114	75 - 125	8	20
Lead	20		35.0	46.5		mg/Kg		76	75 - 125	6	20
Molybdenum	ND		35.0	34.1		mg/Kg		97	75 - 125	2	20
Nickel	4.8		35.0	39.5		mg/Kg		99	75 - 125	0	20
Selenium	ND		35.0	34.9		mg/Kg		100	75 - 125	2	20
Silver	ND		17.5	18.2		mg/Kg		104	75 - 125	2	20
Thallium	ND		35.0	34.0		mg/Kg		97	75 - 125	0	20
Vanadium	72	F1	35.0	120	F1	mg/Kg		138	75 - 125	7	20
Zinc	42		35.0	78.7		mg/Kg		105	75 - 125	1	20

Lab Sample ID: MB 720-257250/1-A
Matrix: Solid
Analysis Batch: 257645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Arsenic	ND		1.0	0.085	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Beryllium	ND		0.10	0.033	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Cadmium	ND		0.13	0.012	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Chromium	0.393	J	0.50	0.053	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Copper	ND		1.5	0.71	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Lead	ND		0.50	0.11	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Nickel	0.141	J	0.50	0.051	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Selenium	ND		1.0	0.15	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Thallium	ND		0.50	0.15	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Vanadium	ND		0.50	0.068	mg/Kg		12/21/18 15:51	12/26/18 13:34	1
Zinc	0.930	J	1.5	0.64	mg/Kg		12/21/18 15:51	12/26/18 13:34	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257250/1-A
Matrix: Solid
Analysis Batch: 257833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0712	J	0.50	0.071	mg/Kg		12/21/18 15:51	12/31/18 17:30	1
Cobalt	ND		0.20	0.020	mg/Kg		12/21/18 15:51	12/31/18 17:30	1
Silver	ND		0.25	0.051	mg/Kg		12/21/18 15:51	12/31/18 17:30	1

Lab Sample ID: LCS 720-257250/2-A
Matrix: Solid
Analysis Batch: 257645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.2		mg/Kg		100	80 - 120
Arsenic	50.0	52.8		mg/Kg		106	80 - 120
Beryllium	50.0	49.4		mg/Kg		99	80 - 120
Cadmium	50.0	51.2		mg/Kg		102	80 - 120
Chromium	50.0	50.5		mg/Kg		101	80 - 120
Copper	50.0	48.7		mg/Kg		97	80 - 120
Lead	50.0	53.0		mg/Kg		106	80 - 120
Molybdenum	50.0	53.3		mg/Kg		107	80 - 120
Nickel	50.0	50.3		mg/Kg		101	80 - 120
Selenium	50.0	50.2		mg/Kg		100	80 - 120
Thallium	50.0	52.4		mg/Kg		105	80 - 120
Vanadium	50.0	50.1		mg/Kg		100	80 - 120
Zinc	50.0	45.1		mg/Kg		90	80 - 120

Lab Sample ID: LCS 720-257250/2-A
Matrix: Solid
Analysis Batch: 257833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	50.0	44.9		mg/Kg		90	80 - 120
Cobalt	50.0	47.3		mg/Kg		95	80 - 120
Silver	25.0	21.9		mg/Kg		88	80 - 120

Lab Sample ID: 720-90386-14 MS
Matrix: Solid
Analysis Batch: 257645

Client Sample ID: DG-AN2S-3.5-4
Prep Type: Total/NA
Prep Batch: 257250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.65	J F1	30.5	6.42	F1	mg/Kg		19	75 - 125
Arsenic	30	F1	30.5	70.8	F1	mg/Kg		134	75 - 125
Beryllium	ND		30.5	28.9		mg/Kg		95	75 - 125
Cadmium	0.18	J	30.5	29.9		mg/Kg		97	75 - 125
Chromium	7.0	B	30.5	37.8		mg/Kg		101	75 - 125
Copper	88	F1	30.5	132	F1	mg/Kg		144	75 - 125
Lead	23		30.5	56.0		mg/Kg		107	75 - 125
Molybdenum	ND		30.5	29.4		mg/Kg		97	75 - 125
Nickel	3.7	B	30.5	33.7		mg/Kg		98	75 - 125
Selenium	ND		30.5	30.0		mg/Kg		98	75 - 125
Thallium	ND		30.5	28.4		mg/Kg		93	75 - 125
Vanadium	72		30.5	110		mg/Kg		125	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90386-14 MS
Matrix: Solid
Analysis Batch: 257645

Client Sample ID: DG-AN2S-3.5-4
Prep Type: Total/NA
Prep Batch: 257250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	55	B	30.5	92.9		mg/Kg		124	75 - 125

Lab Sample ID: 720-90386-14 MS
Matrix: Solid
Analysis Batch: 257833

Client Sample ID: DG-AN2S-3.5-4
Prep Type: Total/NA
Prep Batch: 257250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	35	B F1	30.5	81.3	F1	mg/Kg		152	75 - 125
Cobalt	9.1		30.5	45.5		mg/Kg		119	75 - 125
Silver	ND		15.2	17.9		mg/Kg		117	75 - 125

Lab Sample ID: 720-90386-14 MSD
Matrix: Solid
Analysis Batch: 257645

Client Sample ID: DG-AN2S-3.5-4
Prep Type: Total/NA
Prep Batch: 257250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.65	J F1	30.9	7.30	F1	mg/Kg		22	75 - 125	13	20
Arsenic	30	F1	30.9	64.2		mg/Kg		111	75 - 125	10	20
Beryllium	ND		30.9	28.9		mg/Kg		94	75 - 125	0	20
Cadmium	0.18	J	30.9	29.7		mg/Kg		96	75 - 125	1	20
Chromium	7.0	B	30.9	37.3		mg/Kg		98	75 - 125	1	20
Copper	88	F1	30.9	116		mg/Kg		91	75 - 125	13	20
Lead	23		30.9	59.2		mg/Kg		116	75 - 125	5	20
Molybdenum	ND		30.9	29.8		mg/Kg		96	75 - 125	1	20
Nickel	3.7	B	30.9	32.8		mg/Kg		94	75 - 125	3	20
Selenium	ND		30.9	29.7		mg/Kg		96	75 - 125	1	20
Thallium	ND		30.9	29.0		mg/Kg		94	75 - 125	2	20
Vanadium	72		30.9	106		mg/Kg		112	75 - 125	3	20
Zinc	55	B	30.9	83.0		mg/Kg		91	75 - 125	11	20

Lab Sample ID: 720-90386-14 MSD
Matrix: Solid
Analysis Batch: 257833

Client Sample ID: DG-AN2S-3.5-4
Prep Type: Total/NA
Prep Batch: 257250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	35	B F1	30.9	75.9	F1	mg/Kg		133	75 - 125	7	20
Cobalt	9.1		30.9	42.5		mg/Kg		108	75 - 125	7	20
Silver	ND		15.4	16.7		mg/Kg		108	75 - 125	7	20

Lab Sample ID: MB 720-257269/1-A
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Arsenic	ND		1.0	0.085	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Barium	ND		0.50	0.071	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Beryllium	ND		0.10	0.033	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Cadmium	ND		0.13	0.012	mg/Kg		12/20/18 08:28	12/21/18 12:34	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257269/1-A
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.50	0.053	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Cobalt	ND		0.20	0.020	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Copper	ND		1.5	0.71	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Lead	ND		0.50	0.11	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Nickel	ND		0.50	0.051	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Selenium	ND		1.0	0.15	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Silver	ND		0.25	0.051	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Thallium	ND		0.50	0.15	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Vanadium	ND		0.50	0.068	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Zinc	ND		1.5	0.64	mg/Kg		12/20/18 08:28	12/21/18 12:34	1

Lab Sample ID: LCS 720-257269/2-A
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.5		mg/Kg		97	80 - 120
Arsenic	50.0	48.9		mg/Kg		98	80 - 120
Barium	50.0	47.5		mg/Kg		95	80 - 120
Beryllium	50.0	49.0		mg/Kg		98	80 - 120
Cadmium	50.0	49.1		mg/Kg		98	80 - 120
Chromium	50.0	49.0		mg/Kg		98	80 - 120
Cobalt	50.0	50.5		mg/Kg		101	80 - 120
Copper	50.0	48.8		mg/Kg		98	80 - 120
Lead	50.0	49.8		mg/Kg		100	80 - 120
Molybdenum	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Selenium	50.0	47.6		mg/Kg		95	80 - 120
Silver	25.0	23.7		mg/Kg		95	80 - 120
Thallium	50.0	49.4		mg/Kg		99	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120

Lab Sample ID: 720-90386-23 MS
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: DG-AV4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257269

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.73	J F1	47.6	9.79	F1	mg/Kg		19	75 - 125
Arsenic	ND		47.6	45.7		mg/Kg		96	75 - 125
Barium	16		47.6	61.0		mg/Kg		95	75 - 125
Beryllium	ND		47.6	45.5		mg/Kg		95	75 - 125
Cadmium	ND		47.6	45.4		mg/Kg		95	75 - 125
Chromium	16		47.6	59.8		mg/Kg		92	75 - 125
Cobalt	16		47.6	61.9		mg/Kg		97	75 - 125
Copper	130	F1 F2	47.6	247	F1	mg/Kg		251	75 - 125
Lead	1.5	J	47.6	45.5		mg/Kg		93	75 - 125
Molybdenum	ND		47.6	44.7		mg/Kg		94	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90386-23 MS
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: DG-AV4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257269

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	6.1		47.6	50.3		mg/Kg		93	75 - 125
Selenium	ND		47.6	44.3		mg/Kg		93	75 - 125
Silver	ND		23.8	22.2		mg/Kg		93	75 - 125
Thallium	ND		47.6	43.6		mg/Kg		92	75 - 125
Vanadium	120		47.6	158		mg/Kg		90	75 - 125
Zinc	48		47.6	90.0		mg/Kg		89	75 - 125

Lab Sample ID: 720-90386-23 MSD
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: DG-AV4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257269

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.73	J F1	47.6	9.04	F1	mg/Kg		17	75 - 125	8	20
Arsenic	ND		47.6	44.5		mg/Kg		93	75 - 125	3	20
Barium	16		47.6	58.0		mg/Kg		88	75 - 125	5	20
Beryllium	ND		47.6	44.7		mg/Kg		94	75 - 125	2	20
Cadmium	ND		47.6	44.6		mg/Kg		94	75 - 125	2	20
Chromium	16		47.6	61.5		mg/Kg		95	75 - 125	3	20
Cobalt	16		47.6	60.1		mg/Kg		93	75 - 125	3	20
Copper	130	F1 F2	47.6	183	F2	mg/Kg		117	75 - 125	30	20
Lead	1.5	J	47.6	44.1		mg/Kg		90	75 - 125	3	20
Molybdenum	ND		47.6	43.5		mg/Kg		91	75 - 125	3	20
Nickel	6.1		47.6	49.7		mg/Kg		92	75 - 125	1	20
Selenium	ND		47.6	43.6		mg/Kg		92	75 - 125	2	20
Silver	ND		23.8	22.3		mg/Kg		93	75 - 125	0	20
Thallium	ND		47.6	42.2		mg/Kg		89	75 - 125	3	20
Vanadium	120		47.6	158		mg/Kg		89	75 - 125	0	20
Zinc	48		47.6	89.6		mg/Kg		88	75 - 125	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257234/1-A
Matrix: Solid
Analysis Batch: 257867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/02/19 10:37	01/02/19 11:54	1

Lab Sample ID: LCS 720-257234/2-A
Matrix: Solid
Analysis Batch: 257867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.770		mg/Kg		92	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90386-5 MS
Matrix: Solid
Analysis Batch: 257867

Client Sample ID: DG-AQ2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.077		0.769	0.725		mg/Kg		84	75 - 125

Lab Sample ID: 720-90386-5 MSD
Matrix: Solid
Analysis Batch: 257867

Client Sample ID: DG-AQ2S-0.5-1
Prep Type: Total/NA
Prep Batch: 257234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.077		0.735	0.701		mg/Kg		85	75 - 125	3	20

Lab Sample ID: MB 720-257236/1-A
Matrix: Solid
Analysis Batch: 257875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/02/19 11:40	01/02/19 13:22	1

Lab Sample ID: LCS 720-257236/2-A
Matrix: Solid
Analysis Batch: 257875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.706		mg/Kg		85	80 - 120

Lab Sample ID: 720-90386-14 MS
Matrix: Solid
Analysis Batch: 257875

Client Sample ID: DG-AN2S-3.5-4
Prep Type: Total/NA
Prep Batch: 257236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.047		0.714	0.665		mg/Kg		87	75 - 125

Lab Sample ID: 720-90386-14 MSD
Matrix: Solid
Analysis Batch: 257875

Client Sample ID: DG-AN2S-3.5-4
Prep Type: Total/NA
Prep Batch: 257236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.047		0.735	0.671		mg/Kg		85	75 - 125	1	20

Lab Sample ID: MB 720-257237/1-A
Matrix: Solid
Analysis Batch: 257882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/02/19 11:40	01/02/19 15:35	1

Lab Sample ID: LCS 720-257237/2-A
Matrix: Solid
Analysis Batch: 257882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.802		mg/Kg		96	80 - 120

Lab Sample ID: 720-90386-23 MS
Matrix: Solid
Analysis Batch: 257882

Client Sample ID: DG-AV4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.031		0.794	0.804		mg/Kg		97	75 - 125

Lab Sample ID: 720-90386-23 MSD
Matrix: Solid
Analysis Batch: 257882

Client Sample ID: DG-AV4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257237

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.031		0.781	0.776		mg/Kg		95	75 - 125	4	20

Lab Sample ID: MB 720-257251/1-A
Matrix: Solid
Analysis Batch: 257922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/19/18 10:59	01/03/19 10:36	1

Lab Sample ID: LCS 720-257251/2-A
Matrix: Solid
Analysis Batch: 257922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.752		mg/Kg		90	80 - 120

Lab Sample ID: 720-90388-A-2-A MS
Matrix: Solid
Analysis Batch: 257922

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.16	F1	0.725	1.04		mg/Kg		121	75 - 125

Lab Sample ID: 720-90388-A-2-B MSD
Matrix: Solid
Analysis Batch: 257922

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.16	F1	0.769	1.26	F1	mg/Kg		143	75 - 125	20	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90269-A-8 DU
Matrix: Solid
Analysis Batch: 257245

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.6		16.4		%		12	20

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 720-90386-14 DU
Matrix: Solid
Analysis Batch: 257252

Client Sample ID: DG-AN2S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16.4			18.4		%				12	20

Lab Sample ID: 720-90386-23 DU
Matrix: Solid
Analysis Batch: 257256

Client Sample ID: DG-AV4S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.0			9.0		%				0.08	20

Metals

Prep Batch: 257231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-1	DG-AL2S-0.5-1	Total/NA	Solid	3050B	
MB 720-257231/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257231/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90388-E-2-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90388-E-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-1	DG-AL2S-0.5-1	Total/NA	Solid	7471A	
720-90386-2	DG-AL2S-3.5-4	Total/NA	Solid	7471A	
720-90386-3	DG-AM2S-0.5-1	Total/NA	Solid	7471A	
720-90386-4	DG-AM2S-3.5-4	Total/NA	Solid	7471A	
720-90386-5	DG-AQ2S-0.5-1	Total/NA	Solid	7471A	
720-90386-6	DG-AQ2S-3.5-4	Total/NA	Solid	7471A	
720-90386-7	DG-AQ2S-7.5-8	Total/NA	Solid	7471A	
720-90386-8	DG-AL2S-7.5-8	Total/NA	Solid	7471A	
720-90386-9	DG-AP2S-0.5-1	Total/NA	Solid	7471A	
720-90386-10	DG-AP2S-3.5-4	Total/NA	Solid	7471A	
720-90386-11	DG-AO2S-0.5-1	Total/NA	Solid	7471A	
720-90386-12	DG-AO2S-3.5-4	Total/NA	Solid	7471A	
720-90386-13	DG-AN2S-0.5-1	Total/NA	Solid	7471A	
720-90386-15	DG-AR2S-0.5-1	Total/NA	Solid	7471A	
720-90386-16	DG-AR2S-3.5-4	Total/NA	Solid	7471A	
MB 720-257234/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257234/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90386-5 MS	DG-AQ2S-0.5-1	Total/NA	Solid	7471A	
720-90386-5 MSD	DG-AQ2S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-14	DG-AN2S-3.5-4	Total/NA	Solid	7471A	
720-90386-17	DG-AS2S-0.5-1	Total/NA	Solid	7471A	
720-90386-18	DG-AS2S-3.5-4	Total/NA	Solid	7471A	
720-90386-19	DG-AT2S-0.5-1	Total/NA	Solid	7471A	
720-90386-20	DG-AT2S-3.5-4	Total/NA	Solid	7471A	
720-90386-21	DG-AU2S-0.5-1	Total/NA	Solid	7471A	
720-90386-22	DG-AU2S-3.5-4	Total/NA	Solid	7471A	
720-90386-24	DG-AV4S-3.5-4	Total/NA	Solid	7471A	
720-90386-25	DG-AV4S-8-8.5	Total/NA	Solid	7471A	
720-90386-26	DG-AU4S-0.5-1	Total/NA	Solid	7471A	
720-90386-27	DG-AU4S-3.5-4	Total/NA	Solid	7471A	
720-90386-28	DG-AT4S-0.5-1	Total/NA	Solid	7471A	
720-90386-29	DG-AT4S-3.5-4	Total/NA	Solid	7471A	
720-90386-30	DG-AS4S-0.5-1	Total/NA	Solid	7471A	
720-90386-31	DG-AS4S-3.5-4	Total/NA	Solid	7471A	
720-90386-32	DG-AR4S-0.5-1	Total/NA	Solid	7471A	
720-90386-33	DG-AR4S-3.5-4	Total/NA	Solid	7471A	
720-90386-34	DG-AQ4S-0.5-1	Total/NA	Solid	7471A	
720-90386-35	DG-AQ4S-3.5-4	Total/NA	Solid	7471A	
720-90386-36	DG-AQ4S-9-9.5	Total/NA	Solid	7471A	
MB 720-257236/1-A	Method Blank	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-257236/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90386-14 MS	DG-AN2S-3.5-4	Total/NA	Solid	7471A	
720-90386-14 MSD	DG-AN2S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 257237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-23	DG-AV4S-0.5-1	Total/NA	Solid	7471A	
720-90386-37	DG-AP4S-0.5-1	Total/NA	Solid	7471A	
720-90386-38	DG-AP4S-3.5-4	Total/NA	Solid	7471A	
720-90386-39	DG-AO4S-0.5-1	Total/NA	Solid	7471A	
720-90386-40	DG-AO4S-3.5-4	Total/NA	Solid	7471A	
720-90386-41	DG-AN4S-0.5-1	Total/NA	Solid	7471A	
720-90386-42	DG-AN4S-3.5-4	Total/NA	Solid	7471A	
720-90386-43	DUP-11	Total/NA	Solid	7471A	
720-90386-44	DUP-12	Total/NA	Solid	7471A	
MB 720-257237/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257237/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90386-23 MS	DG-AV4S-0.5-1	Total/NA	Solid	7471A	
720-90386-23 MSD	DG-AV4S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-2	DG-AL2S-3.5-4	Total/NA	Solid	3050B	
720-90386-3	DG-AM2S-0.5-1	Total/NA	Solid	3050B	
720-90386-4	DG-AM2S-3.5-4	Total/NA	Solid	3050B	
720-90386-5	DG-AQ2S-0.5-1	Total/NA	Solid	3050B	
720-90386-6	DG-AQ2S-3.5-4	Total/NA	Solid	3050B	
720-90386-7	DG-AQ2S-7.5-8	Total/NA	Solid	3050B	
720-90386-8	DG-AL2S-7.5-8	Total/NA	Solid	3050B	
720-90386-9	DG-AP2S-0.5-1	Total/NA	Solid	3050B	
720-90386-10	DG-AP2S-3.5-4	Total/NA	Solid	3050B	
720-90386-11	DG-AO2S-0.5-1	Total/NA	Solid	3050B	
720-90386-12	DG-AO2S-3.5-4	Total/NA	Solid	3050B	
720-90386-13	DG-AN2S-0.5-1	Total/NA	Solid	3050B	
720-90386-15	DG-AR2S-0.5-1	Total/NA	Solid	3050B	
720-90386-16	DG-AR2S-3.5-4	Total/NA	Solid	3050B	
720-90386-17	DG-AS2S-0.5-1	Total/NA	Solid	3050B	
720-90386-18	DG-AS2S-3.5-4	Total/NA	Solid	3050B	
720-90386-19	DG-AT2S-0.5-1	Total/NA	Solid	3050B	
720-90386-20	DG-AT2S-3.5-4	Total/NA	Solid	3050B	
720-90386-21	DG-AU2S-0.5-1	Total/NA	Solid	3050B	
720-90386-22	DG-AU2S-3.5-4	Total/NA	Solid	3050B	
MB 720-257248/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257248/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90386-5 MS	DG-AQ2S-0.5-1	Total/NA	Solid	3050B	
720-90386-5 MSD	DG-AQ2S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 257250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-14	DG-AN2S-3.5-4	Total/NA	Solid	3050B	
720-90386-24	DG-AV4S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257250 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-25	DG-AV4S-8-8.5	Total/NA	Solid	3050B	
720-90386-26	DG-AU4S-0.5-1	Total/NA	Solid	3050B	
720-90386-27	DG-AU4S-3.5-4	Total/NA	Solid	3050B	
720-90386-28	DG-AT4S-0.5-1	Total/NA	Solid	3050B	
720-90386-29	DG-AT4S-3.5-4	Total/NA	Solid	3050B	
720-90386-30	DG-AS4S-0.5-1	Total/NA	Solid	3050B	
720-90386-31	DG-AS4S-3.5-4	Total/NA	Solid	3050B	
720-90386-32	DG-AR4S-0.5-1	Total/NA	Solid	3050B	
720-90386-33	DG-AR4S-3.5-4	Total/NA	Solid	3050B	
720-90386-34	DG-AQ4S-0.5-1	Total/NA	Solid	3050B	
720-90386-35	DG-AQ4S-3.5-4	Total/NA	Solid	3050B	
720-90386-36	DG-AQ4S-9-9.5	Total/NA	Solid	3050B	
720-90386-37	DG-AP4S-0.5-1	Total/NA	Solid	3050B	
720-90386-38	DG-AP4S-3.5-4	Total/NA	Solid	3050B	
720-90386-39	DG-AO4S-0.5-1	Total/NA	Solid	3050B	
720-90386-40	DG-AO4S-3.5-4	Total/NA	Solid	3050B	
720-90386-41	DG-AN4S-0.5-1	Total/NA	Solid	3050B	
720-90386-42	DG-AN4S-3.5-4	Total/NA	Solid	3050B	
MB 720-257250/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257250/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90386-14 MS	DG-AN2S-3.5-4	Total/NA	Solid	3050B	
720-90386-14 MSD	DG-AN2S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-45	DUP-13	Total/NA	Solid	7471A	
720-90386-46	DUP-27	Total/NA	Solid	7471A	
720-90386-47	DUP-26	Total/NA	Solid	7471A	
720-90386-48	DUP-25	Total/NA	Solid	7471A	
MB 720-257251/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257251/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90388-A-2-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90388-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-23	DG-AV4S-0.5-1	Total/NA	Solid	3050B	
720-90386-43	DUP-11	Total/NA	Solid	3050B	
720-90386-44	DUP-12	Total/NA	Solid	3050B	
720-90386-45	DUP-13	Total/NA	Solid	3050B	
720-90386-46	DUP-27	Total/NA	Solid	3050B	
720-90386-47	DUP-26	Total/NA	Solid	3050B	
720-90386-48	DUP-25	Total/NA	Solid	3050B	
MB 720-257269/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257269/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90386-23 MS	DG-AV4S-0.5-1	Total/NA	Solid	3050B	
720-90386-23 MSD	DG-AV4S-0.5-1	Total/NA	Solid	3050B	

Analysis Batch: 257472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-23	DG-AV4S-0.5-1	Total/NA	Solid	6010B	257269

Metals (Continued)

Analysis Batch: 257472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-43	DUP-11	Total/NA	Solid	6010B	257269
720-90386-44	DUP-12	Total/NA	Solid	6010B	257269
720-90386-45	DUP-13	Total/NA	Solid	6010B	257269
720-90386-46	DUP-27	Total/NA	Solid	6010B	257269
720-90386-47	DUP-26	Total/NA	Solid	6010B	257269
720-90386-48	DUP-25	Total/NA	Solid	6010B	257269
MB 720-257269/1-A	Method Blank	Total/NA	Solid	6010B	257269
LCS 720-257269/2-A	Lab Control Sample	Total/NA	Solid	6010B	257269
720-90386-23 MS	DG-AV4S-0.5-1	Total/NA	Solid	6010B	257269
720-90386-23 MSD	DG-AV4S-0.5-1	Total/NA	Solid	6010B	257269

Analysis Batch: 257510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-1	DG-AL2S-0.5-1	Total/NA	Solid	6010B	257231
MB 720-257231/1-A	Method Blank	Total/NA	Solid	6010B	257231
LCS 720-257231/2-A	Lab Control Sample	Total/NA	Solid	6010B	257231
720-90388-E-2-A MS	Matrix Spike	Total/NA	Solid	6010B	257231
720-90388-E-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257231

Analysis Batch: 257645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-14	DG-AN2S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-24	DG-AV4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-25	DG-AV4S-8-8.5	Total/NA	Solid	6010B	257250
720-90386-26	DG-AU4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-27	DG-AU4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-28	DG-AT4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-29	DG-AT4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-30	DG-AS4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-31	DG-AS4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-32	DG-AR4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-33	DG-AR4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-34	DG-AQ4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-35	DG-AQ4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-36	DG-AQ4S-9-9.5	Total/NA	Solid	6010B	257250
720-90386-37	DG-AP4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-38	DG-AP4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-39	DG-AO4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-40	DG-AO4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-41	DG-AN4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-42	DG-AN4S-3.5-4	Total/NA	Solid	6010B	257250
MB 720-257250/1-A	Method Blank	Total/NA	Solid	6010B	257250
LCS 720-257250/2-A	Lab Control Sample	Total/NA	Solid	6010B	257250
720-90386-14 MS	DG-AN2S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-14 MSD	DG-AN2S-3.5-4	Total/NA	Solid	6010B	257250

Analysis Batch: 257721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-2	DG-AL2S-3.5-4	Total/NA	Solid	6010B	257248
720-90386-3	DG-AM2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-4	DG-AM2S-3.5-4	Total/NA	Solid	6010B	257248

Metals (Continued)

Analysis Batch: 257721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-5	DG-AQ2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-6	DG-AQ2S-3.5-4	Total/NA	Solid	6010B	257248
720-90386-7	DG-AQ2S-7.5-8	Total/NA	Solid	6010B	257248
720-90386-8	DG-AL2S-7.5-8	Total/NA	Solid	6010B	257248
720-90386-9	DG-AP2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-10	DG-AP2S-3.5-4	Total/NA	Solid	6010B	257248
720-90386-11	DG-AO2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-12	DG-AO2S-3.5-4	Total/NA	Solid	6010B	257248
720-90386-13	DG-AN2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-15	DG-AR2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-16	DG-AR2S-3.5-4	Total/NA	Solid	6010B	257248
720-90386-17	DG-AS2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-18	DG-AS2S-3.5-4	Total/NA	Solid	6010B	257248
720-90386-19	DG-AT2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-20	DG-AT2S-3.5-4	Total/NA	Solid	6010B	257248
720-90386-21	DG-AU2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-22	DG-AU2S-3.5-4	Total/NA	Solid	6010B	257248
MB 720-257248/1-A	Method Blank	Total/NA	Solid	6010B	257248
LCS 720-257248/2-A	Lab Control Sample	Total/NA	Solid	6010B	257248
720-90386-5 MS	DG-AQ2S-0.5-1	Total/NA	Solid	6010B	257248
720-90386-5 MSD	DG-AQ2S-0.5-1	Total/NA	Solid	6010B	257248

Analysis Batch: 257833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-14	DG-AN2S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-24	DG-AV4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-25	DG-AV4S-8-8.5	Total/NA	Solid	6010B	257250
720-90386-26	DG-AU4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-27	DG-AU4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-28	DG-AT4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-29	DG-AT4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-30	DG-AS4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-31	DG-AS4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-32	DG-AR4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-33	DG-AR4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-34	DG-AQ4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-35	DG-AQ4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-36	DG-AQ4S-9-9.5	Total/NA	Solid	6010B	257250
720-90386-37	DG-AP4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-38	DG-AP4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-39	DG-AO4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-40	DG-AO4S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-41	DG-AN4S-0.5-1	Total/NA	Solid	6010B	257250
720-90386-42	DG-AN4S-3.5-4	Total/NA	Solid	6010B	257250
MB 720-257250/1-A	Method Blank	Total/NA	Solid	6010B	257250
LCS 720-257250/2-A	Lab Control Sample	Total/NA	Solid	6010B	257250
720-90386-14 MS	DG-AN2S-3.5-4	Total/NA	Solid	6010B	257250
720-90386-14 MSD	DG-AN2S-3.5-4	Total/NA	Solid	6010B	257250

Metals (Continued)

Analysis Batch: 257867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-1	DG-AL2S-0.5-1	Total/NA	Solid	7471A	257234
720-90386-2	DG-AL2S-3.5-4	Total/NA	Solid	7471A	257234
720-90386-3	DG-AM2S-0.5-1	Total/NA	Solid	7471A	257234
720-90386-4	DG-AM2S-3.5-4	Total/NA	Solid	7471A	257234
720-90386-5	DG-AQ2S-0.5-1	Total/NA	Solid	7471A	257234
720-90386-6	DG-AQ2S-3.5-4	Total/NA	Solid	7471A	257234
720-90386-7	DG-AQ2S-7.5-8	Total/NA	Solid	7471A	257234
720-90386-8	DG-AL2S-7.5-8	Total/NA	Solid	7471A	257234
720-90386-9	DG-AP2S-0.5-1	Total/NA	Solid	7471A	257234
720-90386-10	DG-AP2S-3.5-4	Total/NA	Solid	7471A	257234
720-90386-11	DG-AO2S-0.5-1	Total/NA	Solid	7471A	257234
720-90386-12	DG-AO2S-3.5-4	Total/NA	Solid	7471A	257234
720-90386-13	DG-AN2S-0.5-1	Total/NA	Solid	7471A	257234
720-90386-15	DG-AR2S-0.5-1	Total/NA	Solid	7471A	257234
720-90386-16	DG-AR2S-3.5-4	Total/NA	Solid	7471A	257234
MB 720-257234/1-A	Method Blank	Total/NA	Solid	7471A	257234
LCS 720-257234/2-A	Lab Control Sample	Total/NA	Solid	7471A	257234
720-90386-5 MS	DG-AQ2S-0.5-1	Total/NA	Solid	7471A	257234
720-90386-5 MSD	DG-AQ2S-0.5-1	Total/NA	Solid	7471A	257234

Analysis Batch: 257875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-14	DG-AN2S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-17	DG-AS2S-0.5-1	Total/NA	Solid	7471A	257236
720-90386-18	DG-AS2S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-19	DG-AT2S-0.5-1	Total/NA	Solid	7471A	257236
720-90386-20	DG-AT2S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-21	DG-AU2S-0.5-1	Total/NA	Solid	7471A	257236
720-90386-22	DG-AU2S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-24	DG-AV4S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-25	DG-AV4S-8-8.5	Total/NA	Solid	7471A	257236
720-90386-26	DG-AU4S-0.5-1	Total/NA	Solid	7471A	257236
720-90386-27	DG-AU4S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-28	DG-AT4S-0.5-1	Total/NA	Solid	7471A	257236
720-90386-29	DG-AT4S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-30	DG-AS4S-0.5-1	Total/NA	Solid	7471A	257236
720-90386-31	DG-AS4S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-32	DG-AR4S-0.5-1	Total/NA	Solid	7471A	257236
720-90386-33	DG-AR4S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-34	DG-AQ4S-0.5-1	Total/NA	Solid	7471A	257236
720-90386-35	DG-AQ4S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-36	DG-AQ4S-9-9.5	Total/NA	Solid	7471A	257236
MB 720-257236/1-A	Method Blank	Total/NA	Solid	7471A	257236
LCS 720-257236/2-A	Lab Control Sample	Total/NA	Solid	7471A	257236
720-90386-14 MS	DG-AN2S-3.5-4	Total/NA	Solid	7471A	257236
720-90386-14 MSD	DG-AN2S-3.5-4	Total/NA	Solid	7471A	257236

Analysis Batch: 257882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-23	DG-AV4S-0.5-1	Total/NA	Solid	7471A	257237
720-90386-37	DG-AP4S-0.5-1	Total/NA	Solid	7471A	257237

Metals (Continued)

Analysis Batch: 257882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-38	DG-AP4S-3.5-4	Total/NA	Solid	7471A	257237
720-90386-39	DG-AO4S-0.5-1	Total/NA	Solid	7471A	257237
720-90386-40	DG-AO4S-3.5-4	Total/NA	Solid	7471A	257237
720-90386-41	DG-AN4S-0.5-1	Total/NA	Solid	7471A	257237
720-90386-42	DG-AN4S-3.5-4	Total/NA	Solid	7471A	257237
720-90386-43	DUP-11	Total/NA	Solid	7471A	257237
720-90386-44	DUP-12	Total/NA	Solid	7471A	257237
MB 720-257237/1-A	Method Blank	Total/NA	Solid	7471A	257237
LCS 720-257237/2-A	Lab Control Sample	Total/NA	Solid	7471A	257237
720-90386-23 MS	DG-AV4S-0.5-1	Total/NA	Solid	7471A	257237
720-90386-23 MSD	DG-AV4S-0.5-1	Total/NA	Solid	7471A	257237

Analysis Batch: 257922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-45	DUP-13	Total/NA	Solid	7471A	257251
720-90386-46	DUP-27	Total/NA	Solid	7471A	257251
720-90386-47	DUP-26	Total/NA	Solid	7471A	257251
720-90386-48	DUP-25	Total/NA	Solid	7471A	257251
MB 720-257251/1-A	Method Blank	Total/NA	Solid	7471A	257251
LCS 720-257251/2-A	Lab Control Sample	Total/NA	Solid	7471A	257251
720-90388-A-2-A MS	Matrix Spike	Total/NA	Solid	7471A	257251
720-90388-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257251

General Chemistry

Analysis Batch: 257245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-1	DG-AL2S-0.5-1	Total/NA	Solid	Moisture	
720-90386-2	DG-AL2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-3	DG-AM2S-0.5-1	Total/NA	Solid	Moisture	
720-90386-4	DG-AM2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-5	DG-AQ2S-0.5-1	Total/NA	Solid	Moisture	
720-90386-6	DG-AQ2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-7	DG-AQ2S-7.5-8	Total/NA	Solid	Moisture	
720-90386-8	DG-AL2S-7.5-8	Total/NA	Solid	Moisture	
720-90386-9	DG-AP2S-0.5-1	Total/NA	Solid	Moisture	
720-90386-10	DG-AP2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-11	DG-AO2S-0.5-1	Total/NA	Solid	Moisture	
720-90269-A-8 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-12	DG-AO2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-13	DG-AN2S-0.5-1	Total/NA	Solid	Moisture	
720-90386-14	DG-AN2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-15	DG-AR2S-0.5-1	Total/NA	Solid	Moisture	
720-90386-16	DG-AR2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-17	DG-AS2S-0.5-1	Total/NA	Solid	Moisture	
720-90386-18	DG-AS2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-19	DG-AT2S-0.5-1	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257252 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-20	DG-AT2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-21	DG-AU2S-0.5-1	Total/NA	Solid	Moisture	
720-90386-22	DG-AU2S-3.5-4	Total/NA	Solid	Moisture	
720-90386-24	DG-AV4S-3.5-4	Total/NA	Solid	Moisture	
720-90386-25	DG-AV4S-8-8.5	Total/NA	Solid	Moisture	
720-90386-26	DG-AU4S-0.5-1	Total/NA	Solid	Moisture	
720-90386-27	DG-AU4S-3.5-4	Total/NA	Solid	Moisture	
720-90386-28	DG-AT4S-0.5-1	Total/NA	Solid	Moisture	
720-90386-29	DG-AT4S-3.5-4	Total/NA	Solid	Moisture	
720-90386-30	DG-AS4S-0.5-1	Total/NA	Solid	Moisture	
720-90386-31	DG-AS4S-3.5-4	Total/NA	Solid	Moisture	
720-90386-14 DU	DG-AN2S-3.5-4	Total/NA	Solid	Moisture	

Analysis Batch: 257256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90386-23	DG-AV4S-0.5-1	Total/NA	Solid	Moisture	
720-90386-32	DG-AR4S-0.5-1	Total/NA	Solid	Moisture	
720-90386-33	DG-AR4S-3.5-4	Total/NA	Solid	Moisture	
720-90386-34	DG-AQ4S-0.5-1	Total/NA	Solid	Moisture	
720-90386-35	DG-AQ4S-3.5-4	Total/NA	Solid	Moisture	
720-90386-36	DG-AQ4S-9-9.5	Total/NA	Solid	Moisture	
720-90386-37	DG-AP4S-0.5-1	Total/NA	Solid	Moisture	
720-90386-38	DG-AP4S-3.5-4	Total/NA	Solid	Moisture	
720-90386-39	DG-AO4S-0.5-1	Total/NA	Solid	Moisture	
720-90386-40	DG-AO4S-3.5-4	Total/NA	Solid	Moisture	
720-90386-41	DG-AN4S-0.5-1	Total/NA	Solid	Moisture	
720-90386-42	DG-AN4S-3.5-4	Total/NA	Solid	Moisture	
720-90386-43	DUP-11	Total/NA	Solid	Moisture	
720-90386-44	DUP-12	Total/NA	Solid	Moisture	
720-90386-45	DUP-13	Total/NA	Solid	Moisture	
720-90386-46	DUP-27	Total/NA	Solid	Moisture	
720-90386-47	DUP-26	Total/NA	Solid	Moisture	
720-90386-48	DUP-25	Total/NA	Solid	Moisture	
720-90386-23 DU	DG-AV4S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Client Sample ID: DG-AL2S-0.5-1

Lab Sample ID: 720-90386-1

Date Collected: 12/17/18 08:53

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 17:17	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Client Sample ID: DG-AL2S-3.5-4

Lab Sample ID: 720-90386-2

Date Collected: 12/17/18 08:53

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 16:58	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Client Sample ID: DG-AM2S-0.5-1

Lab Sample ID: 720-90386-3

Date Collected: 12/17/18 09:43

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:03	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Client Sample ID: DG-AM2S-3.5-4

Lab Sample ID: 720-90386-4

Date Collected: 12/17/18 09:43

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:08	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Client Sample ID: DG-AQ2S-0.5-1

Date Collected: 12/17/18 10:11
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 16:54	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Client Sample ID: DG-AQ2S-3.5-4

Date Collected: 12/17/18 10:11
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:22	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Client Sample ID: DG-AQ2S-7.5-8

Date Collected: 12/17/18 10:22
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:26	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		4	257867	01/02/19 12:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Client Sample ID: DG-AL2S-7.5-8

Date Collected: 12/17/18 09:10
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:31	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 13:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Client Sample ID: DG-AP2S-0.5-1

Date Collected: 12/17/18 10:35
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:35	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Client Sample ID: DG-AP2S-3.5-4

Date Collected: 12/17/18 10:35
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:40	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Client Sample ID: DG-AO2S-0.5-1

Date Collected: 12/17/18 10:50
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:45	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257245	12/19/18 10:14	TNL	TAL PLS

Client Sample ID: DG-AO2S-3.5-4

Date Collected: 12/17/18 10:50
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:49	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 13:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AN2S-0.5-1

Lab Sample ID: 720-90386-13

Date Collected: 12/17/18 10:56

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:54	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 13:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AN2S-3.5-4

Lab Sample ID: 720-90386-14

Date Collected: 12/17/18 10:56

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:02	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:07	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AR2S-0.5-1

Lab Sample ID: 720-90386-15

Date Collected: 12/17/18 11:40

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 17:59	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 13:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AR2S-3.5-4

Lab Sample ID: 720-90386-16

Date Collected: 12/17/18 11:40

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 18:03	BKR	TAL PLS
Total/NA	Prep	7471A			257234	01/02/19 10:37	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257867	01/02/19 12:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AS2S-0.5-1

Lab Sample ID: 720-90386-17

Date Collected: 12/17/18 11:49
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 18:17	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AS2S-3.5-4

Lab Sample ID: 720-90386-18

Date Collected: 12/17/18 11:49
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 18:22	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AT2S-0.5-1

Lab Sample ID: 720-90386-19

Date Collected: 12/17/18 11:56
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 18:26	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AT2S-3.5-4

Lab Sample ID: 720-90386-20

Date Collected: 12/17/18 11:56
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 18:31	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AU2S-0.5-1

Lab Sample ID: 720-90386-21

Date Collected: 12/17/18 12:05

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 18:35	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AU2S-3.5-4

Lab Sample ID: 720-90386-22

Date Collected: 12/17/18 12:05

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257248	12/19/18 10:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257721	12/27/18 18:40	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AV4S-0.5-1

Lab Sample ID: 720-90386-23

Date Collected: 12/17/18 13:27

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 13:02	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 15:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AV4S-3.5-4

Lab Sample ID: 720-90386-24

Date Collected: 12/17/18 13:27

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:06	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:11	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Client Sample ID: DG-AV4S-8-8.5

Lab Sample ID: 720-90386-25

Date Collected: 12/17/18 13:30
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:11	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:16	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AU4S-0.5-1

Lab Sample ID: 720-90386-26

Date Collected: 12/17/18 13:49
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:16	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:21	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AU4S-3.5-4

Lab Sample ID: 720-90386-27

Date Collected: 12/17/18 13:49
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:29	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:25	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 13:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AT4S-0.5-1

Lab Sample ID: 720-90386-28

Date Collected: 12/17/18 14:00
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:34	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:30	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Client Sample ID: DG-AT4S-0.5-1

Lab Sample ID: 720-90386-28

Date Collected: 12/17/18 14:00
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 14:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AT4S-3.5-4

Lab Sample ID: 720-90386-29

Date Collected: 12/17/18 14:00
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:39	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:35	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 14:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AS4S-0.5-1

Lab Sample ID: 720-90386-30

Date Collected: 12/17/18 14:10
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:43	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:39	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 14:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AS4S-3.5-4

Lab Sample ID: 720-90386-31

Date Collected: 12/17/18 14:10
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:48	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:44	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 14:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257252	12/19/18 11:07	TNL	TAL PLS

Client Sample ID: DG-AR4S-0.5-1

Lab Sample ID: 720-90386-32

Date Collected: 12/17/18 14:30

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:52	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 18:58	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 14:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AR4S-3.5-4

Lab Sample ID: 720-90386-33

Date Collected: 12/17/18 14:30

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 14:57	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:02	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 14:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AQ4S-0.5-1

Lab Sample ID: 720-90386-34

Date Collected: 12/17/18 14:35

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 15:01	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:07	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 14:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AQ4S-3.5-4

Lab Sample ID: 720-90386-35

Date Collected: 12/17/18 14:35

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 15:06	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:11	BKR	TAL PLS

Client Sample ID: DG-AQ4S-3.5-4

Lab Sample ID: 720-90386-35

Date Collected: 12/17/18 14:35
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 14:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AQ4S-9-9.5

Lab Sample ID: 720-90386-36

Date Collected: 12/17/18 14:35
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 15:11	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:16	BKR	TAL PLS
Total/NA	Prep	7471A			257236	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257875	01/02/19 14:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AP4S-0.5-1

Lab Sample ID: 720-90386-37

Date Collected: 12/17/18 15:10
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 15:24	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:21	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 15:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AP4S-3.5-4

Lab Sample ID: 720-90386-38

Date Collected: 12/17/18 15:10
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 15:29	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:25	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 15:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AO4S-0.5-1

Lab Sample ID: 720-90386-39

Date Collected: 12/17/18 15:25

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 15:34	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:30	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 15:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AO4S-3.5-4

Lab Sample ID: 720-90386-40

Date Collected: 12/17/18 15:25

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 15:38	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:35	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 15:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AN4S-0.5-1

Lab Sample ID: 720-90386-41

Date Collected: 12/17/18 15:32

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 15:43	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:39	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 15:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DG-AN4S-3.5-4

Lab Sample ID: 720-90386-42

Date Collected: 12/17/18 15:32

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257645	12/26/18 15:47	MAG	TAL PLS
Total/NA	Prep	3050B			257250	12/21/18 15:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257833	12/31/18 19:54	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Client Sample ID: DG-AN4S-3.5-4

Lab Sample ID: 720-90386-42

Date Collected: 12/17/18 15:32
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DUP-11

Lab Sample ID: 720-90386-43

Date Collected: 12/17/18 00:00
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 13:57	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DUP-12

Lab Sample ID: 720-90386-44

Date Collected: 12/17/18 00:00
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 14:02	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DUP-13

Lab Sample ID: 720-90386-45

Date Collected: 12/17/18 00:00
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 14:07	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 10:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Client Sample ID: DUP-27

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-46

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 14:11	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 10:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DUP-26

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-47

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 14:25	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 10:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Client Sample ID: DUP-25

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90386-48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 14:30	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 10:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90386-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90386-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90386-1	DG-AL2S-0.5-1	Solid	12/17/18 08:53	12/17/18 18:40
720-90386-2	DG-AL2S-3.5-4	Solid	12/17/18 08:53	12/17/18 18:40
720-90386-3	DG-AM2S-0.5-1	Solid	12/17/18 09:43	12/17/18 18:40
720-90386-4	DG-AM2S-3.5-4	Solid	12/17/18 09:43	12/17/18 18:40
720-90386-5	DG-AQ2S-0.5-1	Solid	12/17/18 10:11	12/17/18 18:40
720-90386-6	DG-AQ2S-3.5-4	Solid	12/17/18 10:11	12/17/18 18:40
720-90386-7	DG-AQ2S-7.5-8	Solid	12/17/18 10:22	12/17/18 18:40
720-90386-8	DG-AL2S-7.5-8	Solid	12/17/18 09:10	12/17/18 18:40
720-90386-9	DG-AP2S-0.5-1	Solid	12/17/18 10:35	12/17/18 18:40
720-90386-10	DG-AP2S-3.5-4	Solid	12/17/18 10:35	12/17/18 18:40
720-90386-11	DG-AO2S-0.5-1	Solid	12/17/18 10:50	12/17/18 18:40
720-90386-12	DG-AO2S-3.5-4	Solid	12/17/18 10:50	12/17/18 18:40
720-90386-13	DG-AN2S-0.5-1	Solid	12/17/18 10:56	12/17/18 18:40
720-90386-14	DG-AN2S-3.5-4	Solid	12/17/18 10:56	12/17/18 18:40
720-90386-15	DG-AR2S-0.5-1	Solid	12/17/18 11:40	12/17/18 18:40
720-90386-16	DG-AR2S-3.5-4	Solid	12/17/18 11:40	12/17/18 18:40
720-90386-17	DG-AS2S-0.5-1	Solid	12/17/18 11:49	12/17/18 18:40
720-90386-18	DG-AS2S-3.5-4	Solid	12/17/18 11:49	12/17/18 18:40
720-90386-19	DG-AT2S-0.5-1	Solid	12/17/18 11:56	12/17/18 18:40
720-90386-20	DG-AT2S-3.5-4	Solid	12/17/18 11:56	12/17/18 18:40
720-90386-21	DG-AU2S-0.5-1	Solid	12/17/18 12:05	12/17/18 18:40
720-90386-22	DG-AU2S-3.5-4	Solid	12/17/18 12:05	12/17/18 18:40
720-90386-23	DG-AV4S-0.5-1	Solid	12/17/18 13:27	12/17/18 18:40
720-90386-24	DG-AV4S-3.5-4	Solid	12/17/18 13:27	12/17/18 18:40
720-90386-25	DG-AV4S-8-8.5	Solid	12/17/18 13:30	12/17/18 18:40
720-90386-26	DG-AU4S-0.5-1	Solid	12/17/18 13:49	12/17/18 18:40
720-90386-27	DG-AU4S-3.5-4	Solid	12/17/18 13:49	12/17/18 18:40
720-90386-28	DG-AT4S-0.5-1	Solid	12/17/18 14:00	12/17/18 18:40
720-90386-29	DG-AT4S-3.5-4	Solid	12/17/18 14:00	12/17/18 18:40
720-90386-30	DG-AS4S-0.5-1	Solid	12/17/18 14:10	12/17/18 18:40
720-90386-31	DG-AS4S-3.5-4	Solid	12/17/18 14:10	12/17/18 18:40
720-90386-32	DG-AR4S-0.5-1	Solid	12/17/18 14:30	12/17/18 18:40
720-90386-33	DG-AR4S-3.5-4	Solid	12/17/18 14:30	12/17/18 18:40
720-90386-34	DG-AQ4S-0.5-1	Solid	12/17/18 14:35	12/17/18 18:40
720-90386-35	DG-AQ4S-3.5-4	Solid	12/17/18 14:35	12/17/18 18:40
720-90386-36	DG-AQ4S-9-9.5	Solid	12/17/18 14:35	12/17/18 18:40
720-90386-37	DG-AP4S-0.5-1	Solid	12/17/18 15:10	12/17/18 18:40
720-90386-38	DG-AP4S-3.5-4	Solid	12/17/18 15:10	12/17/18 18:40
720-90386-39	DG-AO4S-0.5-1	Solid	12/17/18 15:25	12/17/18 18:40
720-90386-40	DG-AO4S-3.5-4	Solid	12/17/18 15:25	12/17/18 18:40
720-90386-41	DG-AN4S-0.5-1	Solid	12/17/18 15:32	12/17/18 18:40
720-90386-42	DG-AN4S-3.5-4	Solid	12/17/18 15:32	12/17/18 18:40
720-90386-43	DUP-11	Solid	12/17/18 00:00	12/17/18 18:40
720-90386-44	DUP-12	Solid	12/17/18 00:00	12/17/18 18:40
720-90386-45	DUP-13	Solid	12/17/18 00:00	12/17/18 18:40
720-90386-46	DUP-27	Solid	12/17/18 00:00	12/17/18 18:40
720-90386-47	DUP-26	Solid	12/17/18 00:00	12/17/18 18:40
720-90386-48	DUP-25	Solid	12/17/18 00:00	12/17/18 18:40

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90386

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#187417
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: December 17, 2018	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 5 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler Kristen Johnson
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			720-90386 Chain of Custody
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AL2S-0.5-1	12/17/18	0853	G	S	1	N		X	
2	DG-AL2S-3.5-4		0853						X	
3	DG-AM2S-0.5-1		0943						X	
4	DG-AM2S-3.5-4		0943						X	
5	DG-AQ2S-0.5-1		1011					X	X	
6	DG-AQ2S-3.5-4		1011						X	
7	DG-AQ2S-7.5-8		1022						X	
8	DG-AL2S-7.5-8		0910						X	
9	DG-AP2S-0.5-1		1035						X	
10	DG-AP2S-3.5-4		1035						X	
11	DG-AQ2S-0.5-1		1050						X	
12	DG-AQ2S-3.5-4	↓	1050	↓	↓	↓	↓		X	

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Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
0.3°C, 0.5°C, 4.0°C, 1.5°C, 2.7°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by: George Hichborn	Company: Geosyntec	Date/Time: 12/17/18 1602	Received by:	Company: TA PLS	Date/Time: 12-17-18 16:02
Relinquished by:	Company: TA PLS	Date/Time: 12-17-18 18:40	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 12/17/18 1840

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/6/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90387C 12/17/18

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#1877417
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-17-18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 5 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Kristina Johnson
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AN2S-0.5-1	12/17/18	1056	G	S	1	N		X	
14	DG-AN2S-3.5-4		1056					X	X	
15	DG-~~AN2S~~ AR2S-0.5-1		1140						X	
16	DG-AR2S-3.5-4		1140						X	
17	DG-AS2S-0.5-1		1149						X	
18	DG-AS2S-3.5-4		1149						X	
19	DG-AT2S-0.5-1		1156						X	
20	DG-AT2S-3.5-4		1156						X	
21	DG-AU2S-0.5-1		1205						X	
22	DG-AU2S-3.5-4		1205						X	
23	~~DG-AV4S-0.5-1~~ DG-AV4S-0.5-1		1327					X	X	
24	~~DG-AV4S-3.5-4~~ DG-AV4S-3.5-4	↓	1327	↓	↓	↓	↓		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by George A Hichborn	Company GEOSYNTEC	Date/Time 12/17/18 1840	Received by	Company TA PLS	Date/Time 12-17-18 16:02
Relinquished by	Company TA PLS	Date/Time 12-17-18 18:40	Received by	Company	Date/Time
Relinquished by	Company	Date/Time.	Received in Laboratory by	Company TA-PLS	Date/Time 12/17/18 1840

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/6/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-90356

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18747
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-17-18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 5 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Kristine Johnson
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client.
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25	DG-AV4S-8-8.5	12/17/18	1330	G	S	1	N		X	
26	DG-AU4S-0.5-1		1349						X	
27	DG-AU4S-3.5-4		1349						X	
28	DG-AT4S-0.5-1		1400						X	
29	DG-AT4S-3.5-4		1400						X	
30	DG-AS4S-0.5-1		1410						X	
31	DG-AS4S-3.5-4		1410						X	
32	DG-AR4S-0.5-1		1430						X	
33	DG-AR4S-3.5-4		1430						X	
34	DG-AQ4S-0.5-1		1435						X	
35	DG-AQ4S-3.5-4		1435						X	
36	DG-AQ4S-9-9.5	↓	1435	↓	↓	↓	↓			

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No. ____

Relinquished by	George A Hichborn	Company GEOSYNTEC	Date/Time 12/17/18 1602	Received by	Company TA-PLS	Date/Time 12-17-18 16:02
Relinquished by		Company TA-PLS	Date/Time 1814 12-17-18	Received by	Company	Date/Time
Relinquished by		Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/17/18 1840

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/6/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-90386

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#187417
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-17-18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 5 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Katherine Johnson
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client.
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
37	DG-AP4S-0.5-1	12/17/18	1510	G	S	1	N		X	
38	DG-AP4S-3.5-4		1510						X	
39	DG-AD4S-0.5-1		1525						X	
40	DG-AD4S-3.5-4		1525						X	
41	DG-AN4S-0.5-1		1532						X	
42	DG-AN4S-3.5-4		1532						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C). Obs'd ____ Corr'd ____		Therm ID No. ____
Relinquished by: George A Hichborn	Company: GEOSYNTEC	Date/Time: 12/17/18	Received by:	Company: TA PLS	Date/Time: 12-17-18 2100
Relinquished by:	Company: TA PLS	Date/Time: 12-17-18 1840	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12/17/18 1840

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/6/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925 600.3002

720-90386

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#187417

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-17-18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	5 of 5 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Urvashi Jethoo
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
43 DUP-11	12/17/18	—	G	S	1	N		X	
44 DUP-12	↓	↓	↓	↓	↓	↓		X	
45 DUP-13									
46 DUP-27									
47 DUP-26									
48 DUP-25									

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by: George A Hichborn	Company: GEOSYNTEC	Date/Time: 12/17/18	Received by:	Company: TA PLS	Date/Time: 12-17-18 1612
Relinquished by:	Company: TA PLS	Date/Time: 12-17-18 1812	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA - PLS	Date/Time: 12/17/18 1840

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/6/2019 (Rev. 1)

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90386-1

Login Number: 90386
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Bill Chen <BChen@Geosyntec.com>
Sent: Tuesday, December 18, 2018 8:02 PM
To: Patel, Urvashi
Cc: Krzysztof Jesionek; Miranda Kahrilas; Anthony Smith; Bondoc, Christian M.
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90386-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Urvashi,

- Please run samples 45 through 48 (DUP-13, -27, -26, -25)
- DG-AW4S-9-9.5 didn't have metals marked for analyses; however, we do indeed want this analyzed for metals, and you have already logged it in as such.

Thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Tuesday, December 18, 2018 10:11 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90386-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90386-1; Brisbane OU-2 Data Gap Investigation

The Chain-of-Custody (COC) was incomplete as received. The following samples did not have the CAM 17 analyses box marked off on the COC. These samples are logged on HOLD: DUP-13, DUP-27, DUP-26, DUP-25. Please confirm if you would like any analyses performed on these samples.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from

TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [489431]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90387-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/4/2019 4:43:51 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90387-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90387-1

Comments
No additional comments.

Receipt
The samples were received on 12/17/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.3º C, 0.5º C, 1.5º C, 2.7º C and 4.0º C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): Page 2 of 2 samples 13-17 and 19-20. The container labels list DG-AK5S-3.5-4.0 , while the COC lists DG-AK5-S3.5-4.0. Logged all 7 samples with the location of Letter "S" with the location followed with a dash (-) then the sample depth as listed on the container labels. This is also consistent with the sample IDs on the first page.
The client was contacted, and the lab was instructed to follow container labels.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257230 and analytical batch 720-257418 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257231 and analytical batch 720-257510 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-AU5S-0.5-1 (720-90387-1), DG-AU5S-3.5-4 (720-90387-2), DG-AS5S-3.5-4 (720-90387-4), DG-AQ5S-0.5-1 (720-90387-5), DG-AQ5S-3.5-4 (720-90387-6), DUP-34 (720-90387-7), DG-AO5S-0.5-1 (720-90387-8), DG-AO5S-3.5-4 (720-90387-9), DG-AM5S-0.5-1 (720-90387-10), DG-AM5S-3.5-4 (720-90387-11), DG-AK5S-0.5-1 (720-90387-12), DG-AK5S-3.5-4 (720-90387-13), DG-AI5S-0.5-1 (720-90387-14), DG-AI5S-3.5-4 (720-90387-15), DG-AG5S-0.5-1 (720-90387-16), DG-AG5S-3.5-4 (720-90387-17), DUP-32 (720-90387-18), DG-AE5S-0.5-1 (720-90387-19), DG-AE5S-3.5-4 (720-90387-20), (ICSAB 720-257510/8) and (720-90388-E-2-C). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-257230 and analytical batch 720-257418 contained Arsenic and Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-257231 and analytical batch 720-257510 contained Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257251 and analytical batch 720-257922 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AU5S-0.5-1 — Lab Sample ID: 720-90387-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	250	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.29	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	7.0		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	4100		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	36		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	830		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	950		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	80		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	2900		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Silver	1.1		0.94	0.19	mg/Kg	4		6010B	Total/NA
Thallium	2.7		1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	1300		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	1.3		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU5S-3.5-4 — Lab Sample ID: 720-90387-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.2		1.1	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	120	B	2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	31	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.31		0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	9.3		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	3.2		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	52		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	160		1.1	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.1	0.13	mg/Kg	4		6010B	Total/NA
Nickel	11		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	18		1.1	0.14	mg/Kg	4		6010B	Total/NA
Zinc	57		3.2	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.069		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS5S-0.5-1 — Lab Sample ID: 720-90387-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.72	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	2.2	J B	3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	29	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.098	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	10		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	86		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	7.2		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.36	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	7.2		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	30		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.067		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AS5S-3.5-4 — Lab Sample ID: 720-90387-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.9	J B	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.066	J	0.30	0.029	mg/Kg	4		6010B	Total/NA
Chromium	30		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	3.4		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	10		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	48		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	36		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.59	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.51	J	1.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	17		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	41		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.075		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ5S-0.5-1 — Lab Sample ID: 720-90387-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.41	J B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	0.29	J	3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	22		1.6	0.22	mg/Kg	4		6010B	Total/NA
Chromium	12		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	110		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	1.2	J	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.79	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	5.2		1.6	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.19	J	0.79	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	45		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.073		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ5S-3.5-4 — Lab Sample ID: 720-90387-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J B	1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	49		1.5	0.22	mg/Kg	4		6010B	Total/NA
Chromium	8.5		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	120		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	46		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	5.6		1.5	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	67		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.022		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-34 — Lab Sample ID: 720-90387-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.47	J B	1.5	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-34 (Continued) — Lab Sample ID: 720-90387-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.74	J	3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	20		1.5	0.21	mg/Kg	4		6010B	Total/NA
Chromium	9.8		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	100		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	1.7		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.80	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	4.4		1.5	0.15	mg/Kg	4		6010B	Total/NA
Silver	0.27	J	0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	45		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.074		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO5S-0.5-1 — Lab Sample ID: 720-90387-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	2.0	J	2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	120		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.40		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	11		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	170		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	270		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.45	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	8.0		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.45	J	0.63	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	95		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	1100		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO5S-3.5-4 — Lab Sample ID: 720-90387-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	24		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	67		1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	7.7		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	160		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	5.8		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	3.6		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	89		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	39		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.094		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM5S-0.5-1 — Lab Sample ID: 720-90387-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.3	B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	6.4		3.4	0.29	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM5S-0.5-1 (Continued) — Lab Sample ID: 720-90387-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	68		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	39		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	240		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	790		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	2.7		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	23		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.58	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Silver	0.90		0.85	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	86		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	1300		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM5S-3.5-4 — Lab Sample ID: 720-90387-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.36	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	5.9		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	30		1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	10		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	150		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	8.9		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	4.4		1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	140		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	52		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.033		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK5S-0.5-1 — Lab Sample ID: 720-90387-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9	B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	7.7		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	91		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	4.0		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	81		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	260		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	520		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	2.3		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	19		1.7	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.50	J	0.84	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	1000		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.48		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK5S-3.5-4 — Lab Sample ID: 720-90387-13

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AK5S-3.5-4 (Continued) — Lab Sample ID: 720-90387-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.0	B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	230		7.9	0.67	mg/Kg	10		6010B	Total/NA
Barium	85		4.0	0.56	mg/Kg	10		6010B	Total/NA
Cadmium	0.95	J	0.99	0.098	mg/Kg	10		6010B	Total/NA
Chromium	16		4.0	0.42	mg/Kg	10		6010B	Total/NA
Cobalt	7.9		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	300		12	5.7	mg/Kg	10		6010B	Total/NA
Lead	370		4.0	0.83	mg/Kg	10		6010B	Total/NA
Molybdenum	0.56	J	4.0	0.51	mg/Kg	10		6010B	Total/NA
Nickel	21		4.0	0.40	mg/Kg	10		6010B	Total/NA
Vanadium	49		4.0	0.54	mg/Kg	10		6010B	Total/NA
Zinc	320		12	5.0	mg/Kg	10		6010B	Total/NA
Mercury	0.19		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI5S-0.5-1 — Lab Sample ID: 720-90387-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	200		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.85		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	20		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	480		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	240		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.9		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	20		1.8	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.58	J	0.92	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	82		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	270		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI5S-3.5-4 — Lab Sample ID: 720-90387-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.8	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	420		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	100		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	21		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	250		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	240		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.81	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	29		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.50	J	0.65	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	320		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AG5S-0.5-1 — Lab Sample ID: 720-90387-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.1	B	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	84		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	100		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.87		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	20		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	160		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	230		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.91	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	20		1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.60	J	0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	250		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG5S-3.5-4 — Lab Sample ID: 720-90387-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.0	B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	220		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	64		1.1	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.085	J	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	17		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	110		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	120		1.1	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.41	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	21		1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.35	J	0.53	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.1	0.14	mg/Kg	4		6010B	Total/NA
Zinc	91		3.2	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-32 — Lab Sample ID: 720-90387-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9	B	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	69		2.6	0.23	mg/Kg	4		6010B	Total/NA
Barium	110		1.3	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.80		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	24		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	220		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	310		1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.66	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	24		1.3	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.66		0.66	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	280		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AE5S-0.5-1 — Lab Sample ID: 720-90387-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	14	B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	23		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	130		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	3.6		0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	890		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	420		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	640		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	40		1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	460		1.7	0.17	mg/Kg	4		6010B	Total/NA
Silver	1.3		0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	1300		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	1.0		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE5S-3.5-4 — Lab Sample ID: 720-90387-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	17	B	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	1400		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	150		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.23	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.79		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	24		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	230		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	520		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.50	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	31		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	1.0		0.58	0.12	mg/Kg	4		6010B	Total/NA
Thallium	1.5		1.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	540		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AU5S-0.5-1

Date Collected: 12/17/18 09:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.31	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Arsenic	ND		3.8	0.32	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Barium	**250**	**B**	1.9	0.27	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Beryllium	**0.29**	**J**	0.38	0.12	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Cadmium	**7.0**		0.47	0.047	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Chromium	**4100**		1.9	0.20	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Cobalt	**36**		0.75	0.075	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Copper	**830**		5.7	2.7	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Lead	**950**		1.9	0.40	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Molybdenum	**80**		1.9	0.24	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Nickel	**2900**		1.9	0.19	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Selenium	**2.3**	**J**	3.8	0.57	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Silver	**1.1**		0.94	0.19	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Thallium	**2.7**		1.9	0.55	mg/Kg		12/19/18 08:52	12/21/18 14:31	4
Vanadium	**47**		1.9	0.26	mg/Kg		12/19/18 08:52	12/20/18 16:18	4
Zinc	**1300**		5.7	2.4	mg/Kg		12/19/18 08:52	12/20/18 16:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.3**		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AU5S-3.5-4

Date Collected: 12/17/18 09:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.2		1.1	0.17	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Arsenic	120	B	2.1	0.18	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Barium	31	B	1.1	0.15	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Beryllium	ND		0.21	0.068	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Cadmium	0.31		0.26	0.026	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Chromium	9.3		1.1	0.11	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Cobalt	3.2		0.42	0.042	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Copper	52		3.2	1.5	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Lead	160		1.1	0.22	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Molybdenum	0.35	J	1.1	0.13	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Nickel	11		1.1	0.11	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Selenium	ND		2.1	0.32	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Silver	ND		0.53	0.11	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Thallium	ND		1.1	0.31	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Vanadium	18		1.1	0.14	mg/Kg		12/19/18 08:52	12/20/18 16:23	4
Zinc	57		3.2	1.3	mg/Kg		12/19/18 08:52	12/20/18 16:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 16:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AS5S-0.5-1

Date Collected: 12/17/18 10:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.72	J	1.9	0.31	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Arsenic	2.2	J B	3.7	0.32	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Barium	29	B	1.9	0.27	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Beryllium	ND		0.37	0.12	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Cadmium	0.098	J	0.47	0.046	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Chromium	10		1.9	0.20	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Cobalt	8.7		0.75	0.075	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Copper	86		5.6	2.7	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Lead	7.2		1.9	0.39	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Molybdenum	0.36	J	1.9	0.24	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Nickel	7.2		1.9	0.19	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Selenium	ND		3.7	0.56	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Silver	ND		0.93	0.19	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Thallium	ND		1.9	0.54	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Vanadium	76		1.9	0.25	mg/Kg		12/19/18 08:52	12/20/18 16:28	4
Zinc	30		5.6	2.4	mg/Kg		12/19/18 08:52	12/20/18 16:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.3		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AS5S-3.5-4

Date Collected: 12/17/18 10:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.2	0.20	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Arsenic	**1.9**	**J B**	2.4	0.20	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Barium	**120**	**B**	1.2	0.17	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Beryllium	ND		0.24	0.077	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Cadmium	**0.066**	**J**	0.30	0.029	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Chromium	**30**		1.2	0.13	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Cobalt	**3.4**		0.47	0.047	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Copper	**10**		3.6	1.7	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Lead	**48**		1.2	0.25	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Molybdenum	ND		1.2	0.15	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Nickel	**36**		1.2	0.12	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Selenium	ND		2.4	0.36	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Silver	**0.17**	**J**	0.59	0.12	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Thallium	**0.51**	**J**	1.2	0.34	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Vanadium	**17**		1.2	0.16	mg/Kg		12/19/18 08:52	12/20/18 16:33	4
Zinc	**41**		3.6	1.5	mg/Kg		12/19/18 08:52	12/20/18 16:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.014	0.0021	mg/Kg		01/02/19 11:40	01/02/19 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AQ5S-0.5-1

Date Collected: 12/17/18 11:05
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J B	1.6	0.26	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Arsenic	0.29	J	3.1	0.27	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Barium	22		1.6	0.22	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Beryllium	ND		0.31	0.10	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Cadmium	ND		0.39	0.039	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Chromium	12		1.6	0.17	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Cobalt	14		0.63	0.063	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Copper	110		4.7	2.2	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Lead	1.2	J	1.6	0.33	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Molybdenum	0.79	J	1.6	0.20	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Nickel	5.2		1.6	0.16	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Selenium	ND		3.1	0.47	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Silver	0.19	J	0.79	0.16	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Thallium	ND		1.6	0.46	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Vanadium	110		1.6	0.21	mg/Kg		12/20/18 11:04	12/21/18 15:35	4
Zinc	45		4.7	2.0	mg/Kg		12/20/18 11:04	12/21/18 15:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.1		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AQ5S-3.5-4

Date Collected: 12/17/18 11:05
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J B	1.5	0.26	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Arsenic	13		3.1	0.26	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Barium	49		1.5	0.22	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Beryllium	ND		0.31	0.10	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Cadmium	ND		0.38	0.038	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Chromium	8.5		1.5	0.16	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Cobalt	15		0.62	0.062	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Copper	120		4.6	2.2	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Lead	46		1.5	0.32	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Molybdenum	ND		1.5	0.20	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Nickel	5.6		1.5	0.16	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Selenium	ND		3.1	0.46	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Silver	ND		0.77	0.16	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Thallium	ND		1.5	0.45	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Vanadium	110		1.5	0.21	mg/Kg		12/20/18 11:04	12/21/18 15:40	4
Zinc	67		4.6	2.0	mg/Kg		12/20/18 11:04	12/21/18 15:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.016	0.0024	mg/Kg		01/02/19 11:40	01/02/19 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.9		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DUP-34

Date Collected: 12/17/18 11:05
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J B	1.5	0.25	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Arsenic	0.74	J	3.0	0.26	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Barium	20		1.5	0.21	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Beryllium	ND		0.30	0.098	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Cadmium	ND		0.38	0.037	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Chromium	9.8		1.5	0.16	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Cobalt	14		0.60	0.060	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Copper	100		4.5	2.1	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Lead	1.7		1.5	0.32	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Molybdenum	0.80	J	1.5	0.19	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Nickel	4.4		1.5	0.15	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Selenium	ND		3.0	0.45	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Silver	0.27	J	0.75	0.15	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Thallium	ND		1.5	0.44	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Vanadium	110		1.5	0.20	mg/Kg		12/20/18 11:04	12/21/18 15:44	4
Zinc	45		4.5	1.9	mg/Kg		12/20/18 11:04	12/21/18 15:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AO5S-0.5-1

Date Collected: 12/17/18 11:55
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1	B	1.3	0.21	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Arsenic	2.0	J	2.5	0.21	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Barium	120		1.3	0.18	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Beryllium	ND		0.25	0.081	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Cadmium	0.40		0.31	0.031	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Chromium	11		1.3	0.13	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Cobalt	11		0.50	0.050	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Copper	170		3.8	1.8	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Lead	270		1.3	0.26	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Molybdenum	0.45	J	1.3	0.16	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Nickel	8.0		1.3	0.13	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Selenium	ND		2.5	0.38	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Silver	0.45	J	0.63	0.13	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Thallium	ND		1.3	0.36	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Vanadium	95		1.3	0.17	mg/Kg		12/20/18 11:04	12/21/18 15:49	4
Zinc	1100		3.8	1.6	mg/Kg		12/20/18 11:04	12/21/18 15:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.015	0.0022	mg/Kg		01/02/19 11:40	01/02/19 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AO5S-3.5-4

Date Collected: 12/17/18 11:55
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.27	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Arsenic	**24**		3.2	0.27	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Barium	**67**		1.6	0.23	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Beryllium	ND		0.32	0.10	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Cadmium	ND		0.40	0.040	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Chromium	**7.7**		1.6	0.17	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Cobalt	**9.4**		0.65	0.065	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Copper	**160**		4.8	2.3	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Lead	**5.8**		1.6	0.34	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Molybdenum	ND		1.6	0.21	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Nickel	**3.6**		1.6	0.16	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Selenium	ND		3.2	0.48	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Silver	ND		0.81	0.16	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Thallium	ND		1.6	0.47	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Vanadium	**89**		1.6	0.22	mg/Kg		12/20/18 11:04	12/21/18 15:54	4
Zinc	**39**		4.8	2.0	mg/Kg		12/20/18 11:04	12/21/18 15:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.094**		0.014	0.0021	mg/Kg		01/02/19 11:40	01/02/19 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.3**		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AM5S-0.5-1

Date Collected: 12/17/18 13:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.3	B	1.7	0.28	mg/Kg		12/20/18 11:04	12/28/18 11:33	4
Arsenic	6.4		3.4	0.29	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Barium	68		1.7	0.24	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Beryllium	ND		0.34	0.11	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Cadmium	1.7		0.42	0.042	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Chromium	39		1.7	0.18	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Cobalt	13		0.68	0.068	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Copper	240		5.1	2.4	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Lead	790		1.7	0.36	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Molybdenum	2.7		1.7	0.22	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Nickel	23		1.7	0.17	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Selenium	0.58	J	3.4	0.51	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Silver	0.90		0.85	0.17	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Thallium	ND		1.7	0.49	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Vanadium	86		1.7	0.23	mg/Kg		12/20/18 11:04	12/21/18 15:58	4
Zinc	1300		5.1	2.2	mg/Kg		12/20/18 11:04	12/21/18 15:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.016	0.0023	mg/Kg		01/02/19 11:40	01/02/19 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AM5S-3.5-4

Date Collected: 12/17/18 13:15
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J B	1.6	0.27	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Arsenic	5.9		3.3	0.28	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Barium	30		1.6	0.23	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Beryllium	ND		0.33	0.11	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Cadmium	ND		0.41	0.041	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Chromium	10		1.6	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Cobalt	12		0.66	0.066	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Copper	150		4.9	2.3	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Lead	8.9		1.6	0.34	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Molybdenum	ND		1.6	0.21	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Nickel	4.4		1.6	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Selenium	ND		3.3	0.49	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Silver	ND		0.82	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Thallium	ND		1.6	0.48	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Vanadium	140		1.6	0.22	mg/Kg		12/20/18 11:04	12/21/18 16:03	4
Zinc	52		4.9	2.1	mg/Kg		12/20/18 11:04	12/21/18 16:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.017	0.0025	mg/Kg		01/02/19 11:40	01/02/19 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.2		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AK5S-0.5-1

Date Collected: 12/17/18 13:40
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	B	1.7	0.28	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Arsenic	7.7		3.4	0.29	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Barium	91		1.7	0.24	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Beryllium	ND		0.34	0.11	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Cadmium	4.0		0.42	0.042	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Chromium	81		1.7	0.18	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Cobalt	10		0.67	0.067	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Copper	260		5.0	2.4	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Lead	520		1.7	0.35	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Molybdenum	2.3		1.7	0.22	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Nickel	19		1.7	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Selenium	ND		3.4	0.50	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Silver	0.50	J	0.84	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Thallium	ND		1.7	0.49	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Vanadium	66		1.7	0.23	mg/Kg		12/20/18 11:04	12/21/18 16:17	4
Zinc	1000		5.0	2.1	mg/Kg		12/20/18 11:04	12/21/18 16:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.015	0.0022	mg/Kg		12/19/18 10:59	01/03/19 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.7		0.1	0.05	%			12/19/18 14:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AK5S-3.5-4

Date Collected: 12/17/18 13:40
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0	B	1.6	0.26	mg/Kg		12/20/18 11:04	12/28/18 11:38	4
Arsenic	230		7.9	0.67	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Barium	85		4.0	0.56	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Beryllium	ND		0.79	0.26	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Cadmium	0.95	J	0.99	0.098	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Chromium	16		4.0	0.42	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Cobalt	7.9		1.6	0.16	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Copper	300		12	5.7	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Lead	370		4.0	0.83	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Molybdenum	0.56	J	4.0	0.51	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Nickel	21		4.0	0.40	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Selenium	ND		7.9	1.2	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Silver	ND		2.0	0.40	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Thallium	ND		4.0	1.2	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Vanadium	49		4.0	0.54	mg/Kg		12/20/18 11:04	12/21/18 16:21	10
Zinc	320		12	5.0	mg/Kg		12/20/18 11:04	12/21/18 16:21	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.016	0.0023	mg/Kg		12/19/18 10:59	01/03/19 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.7		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AI5S-0.5-1

Date Collected: 12/17/18 14:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	B	1.8	0.30	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Arsenic	12		3.7	0.31	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Barium	200		1.8	0.26	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Beryllium	0.22	J	0.37	0.12	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Cadmium	0.85		0.46	0.046	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Chromium	20		1.8	0.19	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Cobalt	11		0.73	0.073	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Copper	480		5.5	2.6	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Lead	240		1.8	0.39	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Molybdenum	1.9		1.8	0.23	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Nickel	20		1.8	0.19	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Selenium	ND		3.7	0.55	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Silver	0.58	J	0.92	0.19	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Thallium	ND		1.8	0.53	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Vanadium	82		1.8	0.25	mg/Kg		12/20/18 11:04	12/21/18 16:26	4
Zinc	270		5.5	2.3	mg/Kg		12/20/18 11:04	12/21/18 16:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.015	0.0022	mg/Kg		12/19/18 10:59	01/03/19 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AI5S-3.5-4

Date Collected: 12/17/18 14:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.8	B	1.3	0.21	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Arsenic	420		2.6	0.22	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Barium	100		1.3	0.18	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Beryllium	ND		0.26	0.084	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Cadmium	1.7		0.32	0.032	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Chromium	21		1.3	0.14	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Cobalt	13		0.52	0.052	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Copper	250		3.9	1.8	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Lead	240		1.3	0.27	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Molybdenum	0.81	J	1.3	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Nickel	29		1.3	0.13	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Selenium	ND		2.6	0.39	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Silver	0.50	J	0.65	0.13	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Thallium	ND		1.3	0.37	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Vanadium	73		1.3	0.18	mg/Kg		12/20/18 11:04	12/21/18 16:30	4
Zinc	320		3.9	1.6	mg/Kg		12/20/18 11:04	12/21/18 16:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.016	0.0024	mg/Kg		12/19/18 10:59	01/03/19 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.7		0.1	0.05	%			12/19/18 14:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AG5S-0.5-1
Date Collected: 12/17/18 14:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-16
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.1	B	1.4	0.24	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Arsenic	84		2.8	0.24	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Barium	100		1.4	0.20	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Beryllium	ND		0.28	0.092	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Cadmium	0.87		0.35	0.035	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Chromium	20		1.4	0.15	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Cobalt	10		0.57	0.057	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Copper	160		4.3	2.0	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Lead	230		1.4	0.30	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Molybdenum	0.91	J	1.4	0.18	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Nickel	20		1.4	0.14	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Selenium	ND		2.8	0.43	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Silver	0.60	J	0.71	0.14	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Thallium	ND		1.4	0.41	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Vanadium	74		1.4	0.19	mg/Kg		12/20/18 11:04	12/21/18 16:35	4
Zinc	250		4.3	1.8	mg/Kg		12/20/18 11:04	12/21/18 16:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.016	0.0023	mg/Kg		12/19/18 10:59	01/03/19 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.1		0.1	0.05	%			12/19/18 14:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AG5S-3.5-4
Date Collected: 12/17/18 14:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-17
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0	B	1.1	0.18	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Arsenic	220		2.1	0.18	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Barium	64		1.1	0.15	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Beryllium	ND		0.21	0.069	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Cadmium	0.085	J	0.26	0.026	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Chromium	17		1.1	0.11	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Cobalt	12		0.42	0.042	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Copper	110		3.2	1.5	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Lead	120		1.1	0.22	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Molybdenum	0.41	J	1.1	0.14	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Nickel	21		1.1	0.11	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Selenium	ND		2.1	0.32	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Silver	0.35	J	0.53	0.11	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Thallium	ND		1.1	0.31	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Vanadium	81		1.1	0.14	mg/Kg		12/20/18 11:04	12/21/18 16:40	4
Zinc	91		3.2	1.3	mg/Kg		12/20/18 11:04	12/21/18 16:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.015	0.0022	mg/Kg		12/19/18 10:59	01/03/19 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DUP-32

Date Collected: 12/17/18 14:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	B	1.3	0.22	mg/Kg		12/20/18 11:04	12/28/18 11:43	4
Arsenic	69		2.6	0.23	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Barium	110		1.3	0.19	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Beryllium	ND		0.26	0.086	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Cadmium	0.80		0.33	0.033	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Chromium	24		1.3	0.14	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Cobalt	11		0.53	0.053	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Copper	220		4.0	1.9	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Lead	310		1.3	0.28	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Molybdenum	0.66	J	1.3	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Nickel	24		1.3	0.14	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Selenium	ND		2.6	0.40	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Silver	0.66		0.66	0.13	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Thallium	ND		1.3	0.38	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Vanadium	79		1.3	0.18	mg/Kg		12/20/18 11:04	12/21/18 16:44	4
Zinc	280		4.0	1.7	mg/Kg		12/20/18 11:04	12/21/18 16:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.015	0.0022	mg/Kg		12/19/18 10:59	01/03/19 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.1		0.1	0.05	%			12/19/18 14:06	1

Client Sample ID: DG-AE5S-0.5-1

Date Collected: 12/17/18 15:20
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	14	B	1.7	0.28	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Arsenic	23		3.3	0.28	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Barium	130		1.7	0.24	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Beryllium	ND		0.33	0.11	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Cadmium	3.6		0.42	0.041	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Chromium	890		1.7	0.18	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Cobalt	16		0.67	0.067	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Copper	420		5.0	2.4	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Lead	640		1.7	0.35	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Molybdenum	40		1.7	0.21	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Nickel	460		1.7	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Selenium	ND		3.3	0.50	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Silver	1.3		0.83	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Thallium	ND		1.7	0.48	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Vanadium	54		1.7	0.23	mg/Kg		12/20/18 11:04	12/21/18 16:49	4
Zinc	1300		5.0	2.1	mg/Kg		12/20/18 11:04	12/21/18 16:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.016	0.0024	mg/Kg		12/19/18 10:59	01/03/19 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.8		0.1	0.05	%			12/19/18 14:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AE5S-3.5-4

Date Collected: 12/17/18 15:20
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90387-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	17	B	1.2	0.19	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Arsenic	1400		2.3	0.20	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Barium	150		1.2	0.17	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Beryllium	0.11	J	0.23	0.076	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Cadmium	0.79		0.29	0.029	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Chromium	24		1.2	0.12	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Cobalt	10		0.47	0.047	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Copper	230		3.5	1.7	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Lead	520		1.2	0.25	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Molybdenum	0.50	J	1.2	0.15	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Nickel	31		1.2	0.12	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Selenium	ND		2.3	0.35	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Silver	1.0		0.58	0.12	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Thallium	1.5		1.2	0.34	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Vanadium	50		1.2	0.16	mg/Kg		12/20/18 11:04	12/21/18 16:54	4
Zinc	540		3.5	1.5	mg/Kg		12/20/18 11:04	12/21/18 16:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.016	0.0023	mg/Kg		12/19/18 10:59	01/03/19 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.3		0.1	0.05	%			12/19/18 11:57	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257230/1-A
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Arsenic	0.0883	J	1.0	0.085	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Barium	0.194	J	0.50	0.071	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Beryllium	ND		0.10	0.033	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Chromium	ND		0.50	0.053	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Silver	ND		0.25	0.051	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 08:52	12/20/18 14:15	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 08:52	12/20/18 14:15	1

Lab Sample ID: LCS 720-257230/2-A
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.7		mg/Kg		97	80 - 120
Arsenic	50.0	49.7		mg/Kg		99	80 - 120
Barium	50.0	49.8		mg/Kg		100	80 - 120
Beryllium	50.0	48.9		mg/Kg		98	80 - 120
Cadmium	50.0	49.8		mg/Kg		100	80 - 120
Chromium	50.0	52.1		mg/Kg		104	80 - 120
Cobalt	50.0	50.6		mg/Kg		101	80 - 120
Copper	50.0	51.1		mg/Kg		102	80 - 120
Lead	50.0	50.1		mg/Kg		100	80 - 120
Molybdenum	50.0	50.8		mg/Kg		102	80 - 120
Nickel	50.0	50.9		mg/Kg		102	80 - 120
Selenium	50.0	47.7		mg/Kg		95	80 - 120
Silver	25.0	24.5		mg/Kg		98	80 - 120
Thallium	50.0	49.6		mg/Kg		99	80 - 120
Vanadium	50.0	51.3		mg/Kg		103	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: 720-90330-A-17-D MS
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.97	J F1	46.7	12.8	F1	mg/Kg		25	75 - 125
Arsenic	21	B F1	46.7	59.7		mg/Kg		84	75 - 125
Barium	46	B F1 F2	46.7	117	F1	mg/Kg		152	75 - 125
Beryllium	0.22	J	46.7	47.0		mg/Kg		100	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90330-A-17-D MS
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.61		46.7	48.6		mg/Kg		103	75 - 125
Chromium	36	F1 F2	46.7	84.6		mg/Kg		104	75 - 125
Cobalt	9.2		46.7	56.8		mg/Kg		102	75 - 125
Copper	240	F2	46.7	316	4	mg/Kg		155	75 - 125
Lead	110	F1 F2	46.7	208	F1	mg/Kg		200	75 - 125
Molybdenum	1.1	J	46.7	47.6		mg/Kg		100	75 - 125
Nickel	9.2		46.7	58.3		mg/Kg		105	75 - 125
Selenium	ND		46.7	46.7		mg/Kg		100	75 - 125
Silver	0.22	J	23.4	23.7		mg/Kg		100	75 - 125
Thallium	ND		46.7	45.4		mg/Kg		97	75 - 125
Vanadium	69	F1	46.7	113		mg/Kg		95	75 - 125
Zinc	160	F1 F2	46.7	197		mg/Kg		84	75 - 125

Lab Sample ID: 720-90330-A-17-E MSD
Matrix: Solid
Analysis Batch: 257418

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.97	J F1	46.3	11.9	F1	mg/Kg		24	75 - 125	8	20
Arsenic	21	B F1	46.3	53.2	F1	mg/Kg		71	75 - 125	11	20
Barium	46	B F1 F2	46.3	78.8	F1 F2	mg/Kg		71	75 - 125	39	20
Beryllium	0.22	J	46.3	44.7		mg/Kg		96	75 - 125	5	20
Cadmium	0.61		46.3	47.6		mg/Kg		102	75 - 125	2	20
Chromium	36	F1 F2	46.3	68.5	F1 F2	mg/Kg		70	75 - 125	21	20
Cobalt	9.2		46.3	56.9		mg/Kg		103	75 - 125	0	20
Copper	240	F2	46.3	186	4 F2	mg/Kg		-124	75 - 125	52	20
Lead	110	F1 F2	46.3	69.5	F1 F2	mg/Kg		-97	75 - 125	100	20
Molybdenum	1.1	J	46.3	46.4		mg/Kg		98	75 - 125	3	20
Nickel	9.2		46.3	51.4		mg/Kg		91	75 - 125	13	20
Selenium	ND		46.3	45.0		mg/Kg		97	75 - 125	4	20
Silver	0.22	J	23.1	22.8		mg/Kg		98	75 - 125	4	20
Thallium	ND		46.3	44.4		mg/Kg		96	75 - 125	2	20
Vanadium	69	F1	46.3	127	F1	mg/Kg		126	75 - 125	12	20
Zinc	160	F1 F2	46.3	282	F1 F2	mg/Kg		270	75 - 125	36	20

Lab Sample ID: MB 720-257231/1-A
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.107	J	0.50	0.083	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Arsenic	ND		1.0	0.085	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Barium	ND		0.50	0.071	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Beryllium	ND		0.10	0.033	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Cadmium	ND		0.13	0.012	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Chromium	ND		0.50	0.053	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Cobalt	ND		0.20	0.020	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Copper	ND		1.5	0.71	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Lead	ND		0.50	0.11	mg/Kg		12/20/18 11:04	12/21/18 14:53	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257231/1-A
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Nickel	ND		0.50	0.051	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Selenium	ND		1.0	0.15	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Silver	ND		0.25	0.051	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Thallium	ND		0.50	0.15	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Vanadium	ND		0.50	0.068	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Zinc	ND		1.5	0.64	mg/Kg		12/20/18 11:04	12/21/18 14:53	1

Lab Sample ID: LCS 720-257231/2-A
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.0		mg/Kg		96	80 - 120
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	50.0	48.3		mg/Kg		97	80 - 120
Beryllium	50.0	48.9		mg/Kg		98	80 - 120
Cadmium	50.0	48.7		mg/Kg		97	80 - 120
Chromium	50.0	49.2		mg/Kg		98	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	50.0	48.9		mg/Kg		98	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Selenium	50.0	47.0		mg/Kg		94	80 - 120
Silver	25.0	23.1		mg/Kg		92	80 - 120
Thallium	50.0	48.8		mg/Kg		98	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120

Lab Sample ID: 720-90388-E-2-A MS
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.1	B F1	49.5	17.6	F1	mg/Kg		34	75 - 125
Arsenic	16	F1	49.5	69.8	F1	mg/Kg		133	75 - 125
Barium	98	F1	49.5	183	F1	mg/Kg		320	75 - 125
Beryllium	0.29	J F1	49.5	55.4		mg/Kg		112	75 - 125
Cadmium	ND		49.5	52.2		mg/Kg		105	75 - 125
Chromium	110	F1	49.5	153	F1	mg/Kg		252	75 - 125
Cobalt	17	F1	49.5	68.8	F1	mg/Kg		131	75 - 125
Copper	29	F1	49.5	83.1	F1	mg/Kg		153	75 - 125
Lead	5.1	F1	49.5	59.2		mg/Kg		117	75 - 125
Molybdenum	ND		49.5	49.8		mg/Kg		101	75 - 125
Nickel	120	F1	49.5	155	F1	mg/Kg		251	75 - 125
Selenium	ND		49.5	49.1		mg/Kg		99	75 - 125
Silver	ND		24.8	26.2		mg/Kg		106	75 - 125
Thallium	ND		49.5	49.9		mg/Kg		101	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90388-E-2-A MS
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	52	F1	49.5	108	F1	mg/Kg		193	75 - 125
Zinc	50	F1	49.5	104	F1	mg/Kg		185	75 - 125

Lab Sample ID: 720-90388-E-2-B MSD
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.1	B F1	50.0	19.5	F1	mg/Kg		38	75 - 125	11	20
Arsenic	16	F1	50.0	80.9	F1	mg/Kg		154	75 - 125	15	20
Barium	98	F1	50.0	185	F1	mg/Kg		322	75 - 125	1	20
Beryllium	0.29	J F1	50.0	64.7	F1	mg/Kg		129	75 - 125	16	20
Cadmium	ND		50.0	58.8		mg/Kg		118	75 - 125	12	20
Chromium	110	F1	50.0	147	F1	mg/Kg		238	75 - 125	4	20
Cobalt	17	F1	50.0	76.7	F1	mg/Kg		145	75 - 125	11	20
Copper	29	F1	50.0	99.3	F1	mg/Kg		184	75 - 125	18	20
Lead	5.1	F1	50.0	67.1	F1	mg/Kg		132	75 - 125	13	20
Molybdenum	ND		50.0	56.0		mg/Kg		112	75 - 125	12	20
Nickel	120	F1	50.0	163	F1	mg/Kg		264	75 - 125	5	20
Selenium	ND		50.0	56.6		mg/Kg		113	75 - 125	14	20
Silver	ND		25.0	30.7		mg/Kg		123	75 - 125	16	20
Thallium	ND		50.0	56.8		mg/Kg		114	75 - 125	13	20
Vanadium	52	F1	50.0	125	F1	mg/Kg		225	75 - 125	15	20
Zinc	50	F1	50.0	125	F1	mg/Kg		225	75 - 125	18	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257237/1-A
Matrix: Solid
Analysis Batch: 257882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/02/19 11:40	01/02/19 15:35	1

Lab Sample ID: LCS 720-257237/2-A
Matrix: Solid
Analysis Batch: 257882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.802		mg/Kg		96	80 - 120

Lab Sample ID: 720-90386-A-23-A MS
Matrix: Solid
Analysis Batch: 257882

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.031		0.794	0.804		mg/Kg		97	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90386-A-23-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257882 — **Prep Batch: 257237**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.031		0.781	0.776		mg/Kg		95	75 - 125	4	20

Lab Sample ID: MB 720-257251/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257922 — **Prep Batch: 257251**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/19/18 10:59	01/03/19 10:36	1

Lab Sample ID: LCS 720-257251/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257922 — **Prep Batch: 257251**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.752		mg/Kg		90	80 - 120

Lab Sample ID: 720-90388-A-2-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257922 — **Prep Batch: 257251**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.16	F1	0.725	1.04		mg/Kg		121	75 - 125

Lab Sample ID: 720-90388-A-2-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257922 — **Prep Batch: 257251**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.16	F1	0.769	1.26	F1	mg/Kg		143	75 - 125	20	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90386-A-23 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257256

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.0		9.0		%		0.08	20

Lab Sample ID: 720-90387-1 DU — **Client Sample ID: DG-AU5S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257271

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.9		10.2		%		6	20

Metals

Prep Batch: 257230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-1	DG-AU5S-0.5-1	Total/NA	Solid	3050B	
720-90387-2	DG-AU5S-3.5-4	Total/NA	Solid	3050B	
720-90387-3	DG-AS5S-0.5-1	Total/NA	Solid	3050B	
720-90387-4	DG-AS5S-3.5-4	Total/NA	Solid	3050B	
MB 720-257230/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257230/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90330-A-17-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-90330-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-5	DG-AQ5S-0.5-1	Total/NA	Solid	3050B	
720-90387-6	DG-AQ5S-3.5-4	Total/NA	Solid	3050B	
720-90387-7	DUP-34	Total/NA	Solid	3050B	
720-90387-8	DG-AO5S-0.5-1	Total/NA	Solid	3050B	
720-90387-9	DG-AO5S-3.5-4	Total/NA	Solid	3050B	
720-90387-10	DG-AM5S-0.5-1	Total/NA	Solid	3050B	
720-90387-11	DG-AM5S-3.5-4	Total/NA	Solid	3050B	
720-90387-12	DG-AK5S-0.5-1	Total/NA	Solid	3050B	
720-90387-13	DG-AK5S-3.5-4	Total/NA	Solid	3050B	
720-90387-14	DG-AI5S-0.5-1	Total/NA	Solid	3050B	
720-90387-15	DG-AI5S-3.5-4	Total/NA	Solid	3050B	
720-90387-16	DG-AG5S-0.5-1	Total/NA	Solid	3050B	
720-90387-17	DG-AG5S-3.5-4	Total/NA	Solid	3050B	
720-90387-18	DUP-32	Total/NA	Solid	3050B	
720-90387-19	DG-AE5S-0.5-1	Total/NA	Solid	3050B	
720-90387-20	DG-AE5S-3.5-4	Total/NA	Solid	3050B	
MB 720-257231/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257231/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90388-E-2-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90388-E-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-1	DG-AU5S-0.5-1	Total/NA	Solid	7471A	
720-90387-2	DG-AU5S-3.5-4	Total/NA	Solid	7471A	
720-90387-3	DG-AS5S-0.5-1	Total/NA	Solid	7471A	
720-90387-4	DG-AS5S-3.5-4	Total/NA	Solid	7471A	
720-90387-5	DG-AQ5S-0.5-1	Total/NA	Solid	7471A	
720-90387-6	DG-AQ5S-3.5-4	Total/NA	Solid	7471A	
720-90387-7	DUP-34	Total/NA	Solid	7471A	
720-90387-8	DG-AO5S-0.5-1	Total/NA	Solid	7471A	
720-90387-9	DG-AO5S-3.5-4	Total/NA	Solid	7471A	
720-90387-10	DG-AM5S-0.5-1	Total/NA	Solid	7471A	
720-90387-11	DG-AM5S-3.5-4	Total/NA	Solid	7471A	
MB 720-257237/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257237/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90386-A-23-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90386-A-23-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-12	DG-AK5S-0.5-1	Total/NA	Solid	7471A	
720-90387-13	DG-AK5S-3.5-4	Total/NA	Solid	7471A	
720-90387-14	DG-AI5S-0.5-1	Total/NA	Solid	7471A	
720-90387-15	DG-AI5S-3.5-4	Total/NA	Solid	7471A	
720-90387-16	DG-AG5S-0.5-1	Total/NA	Solid	7471A	
720-90387-17	DG-AG5S-3.5-4	Total/NA	Solid	7471A	
720-90387-18	DUP-32	Total/NA	Solid	7471A	
720-90387-19	DG-AE5S-0.5-1	Total/NA	Solid	7471A	
720-90387-20	DG-AE5S-3.5-4	Total/NA	Solid	7471A	
MB 720-257251/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257251/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90388-A-2-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90388-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 257418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-1	DG-AU5S-0.5-1	Total/NA	Solid	6010B	257230
720-90387-2	DG-AU5S-3.5-4	Total/NA	Solid	6010B	257230
720-90387-3	DG-AS5S-0.5-1	Total/NA	Solid	6010B	257230
720-90387-4	DG-AS5S-3.5-4	Total/NA	Solid	6010B	257230
MB 720-257230/1-A	Method Blank	Total/NA	Solid	6010B	257230
LCS 720-257230/2-A	Lab Control Sample	Total/NA	Solid	6010B	257230
720-90330-A-17-D MS	Matrix Spike	Total/NA	Solid	6010B	257230
720-90330-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257230

Analysis Batch: 257466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-1	DG-AU5S-0.5-1	Total/NA	Solid	6010B	257230

Analysis Batch: 257510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-5	DG-AQ5S-0.5-1	Total/NA	Solid	6010B	257231
720-90387-6	DG-AQ5S-3.5-4	Total/NA	Solid	6010B	257231
720-90387-7	DUP-34	Total/NA	Solid	6010B	257231
720-90387-8	DG-AO5S-0.5-1	Total/NA	Solid	6010B	257231
720-90387-9	DG-AO5S-3.5-4	Total/NA	Solid	6010B	257231
720-90387-10	DG-AM5S-0.5-1	Total/NA	Solid	6010B	257231
720-90387-11	DG-AM5S-3.5-4	Total/NA	Solid	6010B	257231
720-90387-12	DG-AK5S-0.5-1	Total/NA	Solid	6010B	257231
720-90387-13	DG-AK5S-3.5-4	Total/NA	Solid	6010B	257231
720-90387-14	DG-AI5S-0.5-1	Total/NA	Solid	6010B	257231
720-90387-15	DG-AI5S-3.5-4	Total/NA	Solid	6010B	257231
720-90387-16	DG-AG5S-0.5-1	Total/NA	Solid	6010B	257231
720-90387-17	DG-AG5S-3.5-4	Total/NA	Solid	6010B	257231
720-90387-18	DUP-32	Total/NA	Solid	6010B	257231
720-90387-19	DG-AE5S-0.5-1	Total/NA	Solid	6010B	257231
720-90387-20	DG-AE5S-3.5-4	Total/NA	Solid	6010B	257231
MB 720-257231/1-A	Method Blank	Total/NA	Solid	6010B	257231
LCS 720-257231/2-A	Lab Control Sample	Total/NA	Solid	6010B	257231
720-90388-E-2-A MS	Matrix Spike	Total/NA	Solid	6010B	257231
720-90388-E-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257231

Analysis Batch: 257747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-10	DG-AM5S-0.5-1	Total/NA	Solid	6010B	257231
720-90387-13	DG-AK5S-3.5-4	Total/NA	Solid	6010B	257231
720-90387-18	DUP-32	Total/NA	Solid	6010B	257231

Analysis Batch: 257882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-1	DG-AU5S-0.5-1	Total/NA	Solid	7471A	257237
720-90387-2	DG-AU5S-3.5-4	Total/NA	Solid	7471A	257237
720-90387-3	DG-AS5S-0.5-1	Total/NA	Solid	7471A	257237
720-90387-4	DG-AS5S-3.5-4	Total/NA	Solid	7471A	257237
720-90387-5	DG-AQ5S-0.5-1	Total/NA	Solid	7471A	257237
720-90387-6	DG-AQ5S-3.5-4	Total/NA	Solid	7471A	257237
720-90387-7	DUP-34	Total/NA	Solid	7471A	257237
720-90387-8	DG-AO5S-0.5-1	Total/NA	Solid	7471A	257237
720-90387-9	DG-AO5S-3.5-4	Total/NA	Solid	7471A	257237
720-90387-10	DG-AM5S-0.5-1	Total/NA	Solid	7471A	257237
720-90387-11	DG-AM5S-3.5-4	Total/NA	Solid	7471A	257237
MB 720-257237/1-A	Method Blank	Total/NA	Solid	7471A	257237
LCS 720-257237/2-A	Lab Control Sample	Total/NA	Solid	7471A	257237
720-90386-A-23-A MS	Matrix Spike	Total/NA	Solid	7471A	257237
720-90386-A-23-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257237

Analysis Batch: 257922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-12	DG-AK5S-0.5-1	Total/NA	Solid	7471A	257251
720-90387-13	DG-AK5S-3.5-4	Total/NA	Solid	7471A	257251
720-90387-14	DG-AI5S-0.5-1	Total/NA	Solid	7471A	257251
720-90387-15	DG-AI5S-3.5-4	Total/NA	Solid	7471A	257251
720-90387-16	DG-AG5S-0.5-1	Total/NA	Solid	7471A	257251
720-90387-17	DG-AG5S-3.5-4	Total/NA	Solid	7471A	257251
720-90387-18	DUP-32	Total/NA	Solid	7471A	257251
720-90387-19	DG-AE5S-0.5-1	Total/NA	Solid	7471A	257251
720-90387-20	DG-AE5S-3.5-4	Total/NA	Solid	7471A	257251
MB 720-257251/1-A	Method Blank	Total/NA	Solid	7471A	257251
LCS 720-257251/2-A	Lab Control Sample	Total/NA	Solid	7471A	257251
720-90388-A-2-A MS	Matrix Spike	Total/NA	Solid	7471A	257251
720-90388-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257251

General Chemistry

Analysis Batch: 257256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-20	DG-AE5S-3.5-4	Total/NA	Solid	Moisture	
720-90386-A-23 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-1	DG-AU5S-0.5-1	Total/NA	Solid	Moisture	
720-90387-2	DG-AU5S-3.5-4	Total/NA	Solid	Moisture	
720-90387-3	DG-AS5S-0.5-1	Total/NA	Solid	Moisture	
720-90387-4	DG-AS5S-3.5-4	Total/NA	Solid	Moisture	
720-90387-5	DG-AQ5S-0.5-1	Total/NA	Solid	Moisture	
720-90387-6	DG-AQ5S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90387-7	DUP-34	Total/NA	Solid	Moisture	
720-90387-8	DG-AO5S-0.5-1	Total/NA	Solid	Moisture	
720-90387-9	DG-AO5S-3.5-4	Total/NA	Solid	Moisture	
720-90387-10	DG-AM5S-0.5-1	Total/NA	Solid	Moisture	
720-90387-11	DG-AM5S-3.5-4	Total/NA	Solid	Moisture	
720-90387-12	DG-AK5S-0.5-1	Total/NA	Solid	Moisture	
720-90387-13	DG-AK5S-3.5-4	Total/NA	Solid	Moisture	
720-90387-14	DG-AI5S-0.5-1	Total/NA	Solid	Moisture	
720-90387-15	DG-AI5S-3.5-4	Total/NA	Solid	Moisture	
720-90387-16	DG-AG5S-0.5-1	Total/NA	Solid	Moisture	
720-90387-17	DG-AG5S-3.5-4	Total/NA	Solid	Moisture	
720-90387-18	DUP-32	Total/NA	Solid	Moisture	
720-90387-19	DG-AE5S-0.5-1	Total/NA	Solid	Moisture	
720-90387-1 DU	DG-AU5S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AU5S-0.5-1

Lab Sample ID: 720-90387-1

Date Collected: 12/17/18 09:00

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 16:18	BKR	TAL PLS
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257466	12/21/18 14:31	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AU5S-3.5-4

Lab Sample ID: 720-90387-2

Date Collected: 12/17/18 09:00

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 16:23	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AS5S-0.5-1

Lab Sample ID: 720-90387-3

Date Collected: 12/17/18 10:15

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 16:28	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AS5S-3.5-4

Lab Sample ID: 720-90387-4

Date Collected: 12/17/18 10:15

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257230	12/19/18 08:52	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257418	12/20/18 16:33	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AQ5S-0.5-1

Lab Sample ID: 720-90387-5

Date Collected: 12/17/18 11:05
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 15:35	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AQ5S-3.5-4

Lab Sample ID: 720-90387-6

Date Collected: 12/17/18 11:05
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 15:40	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DUP-34

Lab Sample ID: 720-90387-7

Date Collected: 12/17/18 11:05
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 15:44	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AO5S-0.5-1

Lab Sample ID: 720-90387-8

Date Collected: 12/17/18 11:55
Matrix: Solid
Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 15:49	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AO5S-3.5-4

Lab Sample ID: 720-90387-9

Date Collected: 12/17/18 11:55

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 15:54	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AM5S-0.5-1

Lab Sample ID: 720-90387-10

Date Collected: 12/17/18 13:15

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257747	12/28/18 11:33	BKR	TAL PLS
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 15:58	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AM5S-3.5-4

Lab Sample ID: 720-90387-11

Date Collected: 12/17/18 13:15

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:03	BKR	TAL PLS
Total/NA	Prep	7471A			257237	01/02/19 11:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257882	01/02/19 16:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AK5S-0.5-1

Lab Sample ID: 720-90387-12

Date Collected: 12/17/18 13:40

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:17	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 10:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Client Sample ID: DG-AK5S-3.5-4

Lab Sample ID: 720-90387-13

Date Collected: 12/17/18 13:40

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257747	12/28/18 11:38	BKR	TAL PLS
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		10	257510	12/21/18 16:21	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AI5S-0.5-1

Lab Sample ID: 720-90387-14

Date Collected: 12/17/18 14:00

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:26	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AI5S-3.5-4

Lab Sample ID: 720-90387-15

Date Collected: 12/17/18 14:00

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:30	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AG5S-0.5-1

Lab Sample ID: 720-90387-16

Date Collected: 12/17/18 14:45

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:35	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AG5S-3.5-4

Lab Sample ID: 720-90387-17

Date Collected: 12/17/18 14:45

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:40	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DUP-32

Lab Sample ID: 720-90387-18

Date Collected: 12/17/18 14:45

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257747	12/28/18 11:43	BKR	TAL PLS
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:44	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AE5S-0.5-1

Lab Sample ID: 720-90387-19

Date Collected: 12/17/18 15:20

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:49	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257271	12/19/18 14:06	TNL	TAL PLS

Client Sample ID: DG-AE5S-3.5-4

Lab Sample ID: 720-90387-20

Date Collected: 12/17/18 15:20

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:54	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257256	12/19/18 11:57	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90387-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90387-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90387-1	DG-AU5S-0.5-1	Solid	12/17/18 09:00	12/17/18 18:40
720-90387-2	DG-AU5S-3.5-4	Solid	12/17/18 09:00	12/17/18 18:40
720-90387-3	DG-AS5S-0.5-1	Solid	12/17/18 10:15	12/17/18 18:40
720-90387-4	DG-AS5S-3.5-4	Solid	12/17/18 10:15	12/17/18 18:40
720-90387-5	DG-AQ5S-0.5-1	Solid	12/17/18 11:05	12/17/18 18:40
720-90387-6	DG-AQ5S-3.5-4	Solid	12/17/18 11:05	12/17/18 18:40
720-90387-7	DUP-34	Solid	12/17/18 11:05	12/17/18 18:40
720-90387-8	DG-AO5S-0.5-1	Solid	12/17/18 11:55	12/17/18 18:40
720-90387-9	DG-AO5S-3.5-4	Solid	12/17/18 11:55	12/17/18 18:40
720-90387-10	DG-AM5S-0.5-1	Solid	12/17/18 13:15	12/17/18 18:40
720-90387-11	DG-AM5S-3.5-4	Solid	12/17/18 13:15	12/17/18 18:40
720-90387-12	DG-AK5S-0.5-1	Solid	12/17/18 13:40	12/17/18 18:40
720-90387-13	DG-AK5S-3.5-4	Solid	12/17/18 13:40	12/17/18 18:40
720-90387-14	DG-AI5S-0.5-1	Solid	12/17/18 14:00	12/17/18 18:40
720-90387-15	DG-AI5S-3.5-4	Solid	12/17/18 14:00	12/17/18 18:40
720-90387-16	DG-AG5S-0.5-1	Solid	12/17/18 14:45	12/17/18 18:40
720-90387-17	DG-AG5S-3.5-4	Solid	12/17/18 14:45	12/17/18 18:40
720-90387-18	DUP-32	Solid	12/17/18 14:45	12/17/18 18:40
720-90387-19	DG-AE5S-0.5-1	Solid	12/17/18 15:20	12/17/18 18:40
720-90387-20	DG-AE5S-3.5-4	Solid	12/17/18 15:20	12/17/18 18:40

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90387

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#167418
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/17/18	COC No. 2
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90387 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AU5S-0.5-1	12/17/18	0900	G	S	1	N		X	
2	DG-AU5S-3.5-4	12/17/18	0900	G	S	1	N		X	
3	DG-AS5S-0.5-1.0	17 December 2018	1015	G	S	1	N		X	
4	DG-AS5S-~~0.5~~ 3.5-4.0	17 December 2018	1015	G	S	1	N		X	
5	DG-AQ5S-0.5-1	12/17/18	1105	G	S	1	N		X	
6	DG-AQ5S-3.5-4.0	12/17/18	1105	G	S	1	X		X	
7	DUP-34	12/17/18	1105	G	S	1	X		X	
8	DG-AO5S-0.5-1.0	17 December 2018	1155	G	S	1	X		X	
9	DG-AO5S-3.5-4.0	17 December 2018	1155	G	S	1	X		X	
10	DG-AM5S-0.5-1.0	12/17/18	1315	G	S	1	X		X	
11	DG-AM5S-3.5-4.0	12/17/18	1315	G	S	1	X		X	
12	DG-AK5S-0.5-1.0	12/17/18	1340	G	S	1	X		X	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

0.3°C, 0.5°C, 4.0°C, 1.5°C, 2.7°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd:	Corr'd.	Therm ID No.
Relinquished by: Madelin Downs	Company: Geosyntec	Date/Time: 12/17/1800	Received by:	Company: TA PLS	Date/Time: 12-17-18 1610
Relinquished by:	Company: TA PLS	Date/Time: 12-17-18 1842	Received by:	Company.	Date/Time
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12/17/18 1840

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/4/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90387

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187418
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No 2
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AK5-S 3.5-4.0	12/17/18	1340	G	S	1	N		X	
14	DG-A15-S 0.5-1.0	12/17/18	1400	G	S	1	N		X	
15	DG-A15-S 3.5-4.0	12/17/18	1400	G	S	1	N		X	
16	DG-AG5-S 0.5-1.0	12/17/18	1445	G	S	1	N		X	
	DG-AG5-S 3.5-4.0	12/17/18	1445	G	S	1	N		X	
	DUP-32	12/17/18	1445	G	S	1	N		X	
	DG-AE5-S 0.5-1.0	12/17/18	1520	G	S	1	N		X	
	DG-AE5-S 3.5-4.0	12/17/18	1520	G	S	1	N		X	
	~~DG-AC5-S 0.5-1.0~~	~~12/17/18~~		G	S	1	N		X	
(MS)	~~DG-AC5-S 3.5-4.0~~	12/17/18		G	S	1	N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C) Obs'd: _____ Corr'd _____	Therm ID No.: _____
Relinquished by: Madelina Downing	Company: Geosyntec	Date/Time: 12/17/18 1600	Received by:	Company: TA PLS
Relinquished by:	Company: TA PLS	Date/Time: 12/17/18 1840	Received by:	Company:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by	Company: TA-PLS

Date/Time: 12-17-18 16:00
Date/Time
Date/Time: 12/17/18 1840

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/4/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90387-1

Login Number: 90387
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90388-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/16/2019 12:23:20 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90388-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90388-1

Comments
No additional comments.
Revision created to add failing recoveries for the pesticides for matrix spike.

Receipt
The samples were received on 12/17/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.3º C, 0.5º C, 1.5º C, 2.7º C and 4.0º C.

Receipt Exceptions

Insufficient sample volume was provided for the following sample for the MS/MSD Asbestos Carb 435 analysis: DG-X1S-3.5-4 and DG-T1S-0.5-1
Samples jar are not filled full, alot of rocks in most samples.

GC/MS VOA
Method 8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following sample was outside the upper control limit: DG-X1S-3.5-4 (720-90388-2). Re-analysis were performed with concurring results. Matrix interference was confirmed.

Method 8260B/CA_LUFTMS: Surrogate recovery for Dibromofluoromethane the following sample was outside the upper control limits: DG-V1S-0.5-1 (720-90388-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B/CA_LUFTMS: Surrogate recoveries for Dibromofluoromethane and 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-T1S-3.5-4 (720-90388-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following sample was outside the upper control limits: DG-V1S-3.5-4 (720-90388-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518870 recovered above the upper control limit for Toluene, Chloroform, 1,1-Dichloroethene, trans-1,2-Dichloroethene and Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518651 recovered above the upper control limit for Vinyl chloride and 1,1-Dichloroethene . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-518870 recovered outside control limits for the following analyte: Bromobenzene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-518651 recovered outside control limits for the following analyte: Tetrachloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a “*” symbol .

Job ID: 720-90388-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518913 and analytical batch 440-518870 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: The matrix spike duplicate (MSD) recovery for preparation batch 440-518913 and analytical batch 440-518870 was outside control limit. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: Surrogate recovery for Dibromofluoromethane.for the following sample were outside the upper control limits: DG-V1S-0.5-1 (720-90388-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed

Method 8260B: Surrogate recovery for 4-Bromofluorobenzene for the following sample was outside the upper control limits: DG-X1S-3.5-4 (720-90388-2) and DG-V1S-3.5-4 (720-90388-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed

Method 8260B: Surrogate recoveries for Dibromofluoromethane and 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-T1S-3.5-4 (720-90388-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518646 recovered above the upper control limit for 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-T1S-0.5-1 (720-90388-6) and (CCVIS 440-518646/2).

Method 8260B: Surrogate 1,2-Dichloroethane-d4 recovery for the following samples was outside the upper control limit: DG-X1S-3.5-4 (720-90388-2) and DG-R1S-0.5-1 (720-90388-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C SIM: The method blank for preparation batch 720-257530 and analytical batch 720-257593 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-257381 and analytical batch 720-257669 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-V1S-0.5-1 (720-90388-4). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257381 and analytical batch 720-257766 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-T1S-0.5-1 (720-90388-6) and DG-R1S-0.5-1 (720-90388-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Job ID: 720-90388-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 8015B: The method blank for preparation batch 720-257349 and analytical batch 720-257325 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The method blank for preparation batch 720-257342 and analytical batch 720-257324 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-T1S-0.5-1 (720-90388-6), DG-T1S-0.5-1 (720-90388-6[MS]) and DG-T1S-0.5-1 (720-90388-6[MSD]). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: Surrogate recovery for the following samples were outside control limits: DG-T1S-0.5-1 (720-90388-6) and DG-T1S-0.5-1 (720-90388-6[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257336 and analytical batch 720-257557 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Recoveries for failing analytes for Matrix spike:
Lindane = 122% recovery
Endrin Aldehyde = 201% recovery
Endrin Ketone = 161% recovery

Method 8081A: Surrogate recovery for the following samples were outside control limits: DG-X1S-0.5-1 (720-90388-1), DUP-04 (720-90388-3), DG-V1S-0.5-1 (720-90388-4) and DG-R1S-3.5-4 (720-90388-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The continuing calibration verification (CCV) associated with batch 720-257557 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-T1S-0.5-1 (720-90388-6) and (MB 720-257336/1-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257269 and analytical batch 720-257472 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-V1S-0.5-1 (720-90388-4), DG-V1S-3.5-4 (720-90388-5), DG-T1S-3.5-4 (720-90388-7) and (720-90386-A-23-F). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257270 and analytical batch 720-257644 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257231 and analytical batch 720-257510 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257510 was outside of control limits. Ba-145%, Be-130%, Cr-142%, Cu-132%, Ni-131%, V-133%

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-T1S-0.5-1 (720-90388-6), DUP-03

Job ID: 720-90388-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

(720-90388-8), DG-R1S-0.5-1 (720-90388-9) and DG-R1S-3.5-4 (720-90388-10). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-X1S-0.5-1 (720-90388-1), DG-X1S-3.5-4 (720-90388-2) and DUP-04 (720-90388-3). Elevated reporting limits (RLs) are provided.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257723 was outside of control limits. As-131%, Ba-138%, Be-127%, Cr-127%, Cu-139%, Pb-129%, V-132%, Zn-132%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257723 was outside control limits for As-104%, Ba-12%, Co-25%, Cr-18%, Ni-17%, Pb-17%, V-13%, Zn-17%: (720-90388-A-6-C SD ^20)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257270 and analytical batch 720-257723 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257253 and analytical batch 720-257903 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257472 was outside control limits for Cr-11% (720-90386-A-23-F SD)

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257510 was outside control limits for Ba-439%, Co-413%, Cr-429%, and Ni-413% (720-90388-E-2-C SD)

Method 6010B: The method blank for preparation batch 720-257231 and analytical batch 720-257510 contained Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257251 and analytical batch 720-257922 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-R1S-0.5-1 (720-90388-9) and DG-R1S-3.5-4 (720-90388-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 720-90388-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Client Sample ID: DG-X1S-0.5-1 — Lab Sample ID: 720-90388-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	190		50	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	470		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	260		25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	810		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	1300		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	1600	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1100		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	530		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	1400		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	270		25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	1100		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluorene	67		25	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	770		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	310		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	600		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	2600		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	95	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130		50	10	mg/Kg	1		8015B	Total/NA
Antimony	3.3	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	110		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	140		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Chromium	170		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	26		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	44		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	25		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	240		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	78		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	85		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	11		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-X1S-3.5-4 — Lab Sample ID: 720-90388-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	20		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.1	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	62	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	30		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	3.9	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	11		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.3		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	30		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	5.1		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.9	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	2.1	B F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	16	F1	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	98	F1	1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.29	J F1	0.39	0.13	mg/Kg	4		6010B	Total/NA
Chromium	110	F1	1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	17	F1	0.78	0.078	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X1S-3.5-4 (Continued) — Lab Sample ID: 720-90388-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	29	F1	5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	5.1	F1	1.9	0.41	mg/Kg	4		6010B	Total/NA
Nickel	120	F1	1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	52	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	50	F1	5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.16	F1	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-04 — Lab Sample ID: 720-90388-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	220		100	50	ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	1400		50	24	ug/Kg	10		8270C SIM	Total/NA
Anthracene	730		50	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	4400		50	15	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	5200		50	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	6800	B	50	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	3900		50	43	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	2300		50	21	ug/Kg	10		8270C SIM	Total/NA
Chrysene	6100		50	14	ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	1100		50	35	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	2600		50	14	ug/Kg	10		8270C SIM	Total/NA
Fluorene	160		50	22	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	3100		50	42	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	350		50	35	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	1000		50	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	6600		50	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	69	B	4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120		99	20	mg/Kg	2		8015B	Total/NA
Antimony	1.4	J B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	67		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	70		1.7	0.24	mg/Kg	4		6010B	Total/NA
Chromium	67		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	59		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	20		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	92		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.56	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	65		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	3.1		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-V1S-0.5-1 — Lab Sample ID: 720-90388-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	34		20	10	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	83		10	4.8	ug/Kg	2		8270C SIM	Total/NA
Anthracene	45		10	4.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	150		10	3.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	260		10	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	300	B	10	4.2	ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V1S-0.5-1 (Continued)

Lab Sample ID: 720-90388-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	200		10	8.6	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	85		10	4.2	ug/Kg	2		8270C SIM	Total/NA
Chrysene	230		10	2.8	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	49		10	7.0	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	190		10	2.8	ug/Kg	2		8270C SIM	Total/NA
Fluorene	11		10	4.4	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	150		10	8.4	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	48		10	7.0	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	96		10	3.6	ug/Kg	2		8270C SIM	Total/NA
Pyrene	440		10	3.4	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	41	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	76		50	10	mg/Kg	1		8015B	Total/NA
Antimony	2.1		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	200		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	67		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.39		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	74		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	61		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	51		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.17	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	80		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	99		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	1.9		0.058	0.0086	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-V1S-3.5-4

Lab Sample ID: 720-90388-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	8.9	J	9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Anthracene	4.6	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	4.4	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.8		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	66	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	12		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.1		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	84		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	9.5		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	30		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	4.9	J	5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	8.4		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	9.5		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	220		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	22		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.8	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	1.7		1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	18		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	75		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.27	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Chromium	120		1.5	0.16	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V1S-3.5-4 (Continued) — Lab Sample ID: 720-90388-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	18		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	26		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	3.5		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	140		1.5	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	51		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T1S-0.5-1 — Lab Sample ID: 720-90388-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	83		50	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	100		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	110		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	140		25	7.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	250		25	9.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	360	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	170	F1	25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	100		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	240		25	7.0	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	50	F1	25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	200	F1 F2	25	7.0	ug/Kg	5		8270C SIM	Total/NA
Fluorene	12	J	25	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	130	F1	25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	78		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	130		25	9.0	ug/Kg	5		8270C SIM	Total/NA
Pyrene	400	F1 F2	25	8.5	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	180	B	10	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	540		250	50	mg/Kg	5		8015B	Total/NA
Antimony	2.0	F1	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	100	F1	3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	73		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.30	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.84		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	29		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	84	F1	4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	140	F1	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.85	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	43		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.73	J	3.0	0.44	mg/Kg	4		6010B	Total/NA
Silver	0.17	J B	0.74	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	190		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.54	F1 F2	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T1S-3.5-4 — Lab Sample ID: 720-90388-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.0	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T1S-3.5-4 (Continued) — Lab Sample ID: 720-90388-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	3.7	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.9		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	14	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	6.3		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.6	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	12		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	6.5		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	6.4		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	25		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	10		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.6	J B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	1.4		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	24		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	70		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.25	0.080	mg/Kg	4		6010B	Total/NA
Chromium	76		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	24		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	2.8		1.2	0.26	mg/Kg	4		6010B	Total/NA
Nickel	89		1.2	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	42		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.45		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-03 — Lab Sample ID: 720-90388-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.2	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	2.8	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.7	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	9.5	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.6	J	5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.7	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	5.8		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	3.8	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	12		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	7.0		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.8	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	19	J	50	10	mg/Kg	1		8015B	Total/NA
Antimony	3.5		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	27		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	110		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.28		0.28	0.091	mg/Kg	4		6010B	Total/NA
Cadmium	0.33	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	100		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	28		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	6.3		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.45	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	130		1.4	0.14	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-03 (Continued) — Lab Sample ID: 720-90388-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.43	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	57		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.59		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R1S-0.5-1 — Lab Sample ID: 720-90388-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	120		50	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	130		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	180		25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	190		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	310		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	470	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	240		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	130		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	390		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	68		25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	300		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluorene	12	J	25	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	170		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	110		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	200		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	620		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	190	B	4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	440		99	20	mg/Kg	2		8015B	Total/NA
alpha-Chlordane	1.2	J	1.9	0.38	ug/Kg	1		8081A	Total/NA
Aroclor 1260	53		49	17	ug/Kg	1		8082	Total/NA
Antimony	3.5		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	320		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	90		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	42		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	150		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	200		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.8		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	49		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Silver	0.29	J B	0.72	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	270		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.49		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R1S-3.5-4 — Lab Sample ID: 720-90388-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	72		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	4.0	J	5.0	2.8	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R1S-3.5-4 (Continued)

Lab Sample ID: 720-90388-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	2.6	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	120		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.0		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.3	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	26	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	6.9		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.3	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	22		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.0	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	11		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	13		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.6	J	5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	21		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	52		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	12		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	92	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	61		50	10	mg/Kg	1		8015B	Total/NA
Antimony	1.5	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	49		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	59		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.69		0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.32	J	0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	46		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	35		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	16		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.37	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	46		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.63	J	4.0	0.59	mg/Kg	4		6010B	Total/NA
Vanadium	44		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	72		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X1S-0.5-1

Date Collected: 12/17/18 10:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		86	60	ug/Kg		12/17/18 19:00	12/21/18 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*	*12/17/18 19:00*	*12/21/18 11:38*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*12/17/18 19:00*	*12/21/18 11:38*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*12/17/18 19:00*	*12/21/18 11:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,1,1-Trichloroethane	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.6	4.3	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,1,2-Trichloroethane	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,1-Dichloroethane	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,1-Dichloropropene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,2,3-Trichlorobenzene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,2,3-Trichloropropane	ND		8.6	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,2,4-Trichlorobenzene	ND		4.3	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,2,4-Trimethylbenzene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,2-Dichlorobenzene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,2-Dichloroethane	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,2-Dichloropropane	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,3,5-Trimethylbenzene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,3-Dichlorobenzene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,3-Dichloropropane	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
1,4-Dichlorobenzene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
2,2-Dichloropropane	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
2-Butanone (MEK)	ND		8.6	4.3	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
2-Chlorotoluene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
2-Hexanone	ND		8.6	4.3	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
4-Chlorotoluene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
4-Isopropyltoluene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Benzene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Bromobenzene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Bromoform	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Bromomethane	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Carbon disulfide	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Chlorobenzene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Chlorobromomethane	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Chlorodibromomethane	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Chloroethane	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Chloroform	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Chloromethane	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
cis-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1

Client Sample ID: DG-X1S-0.5-1
Date Collected: 12/17/18 10:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Dibromomethane	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Dichlorobromomethane	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Dichlorodifluoromethane	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Ethylbenzene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Ethylene Dibromide	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Hexachlorobutadiene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Isopropylbenzene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Methyl tert-butyl ether	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Methylene Chloride	ND		8.6	4.3	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Naphthalene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
n-Butylbenzene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
N-Propylbenzene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
sec-Butylbenzene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Styrene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
tert-Butylbenzene	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Tetrachloroethene	ND	*	0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Toluene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
trans-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
trans-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Trichloroethene	ND		0.86	0.43	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Trichlorofluoromethane	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Vinyl acetate	ND		6.9	3.4	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Vinyl chloride	ND		1.7	0.86	ug/Kg		12/17/18 19:00	12/21/18 11:38	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/17/18 19:00	12/21/18 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*	*12/17/18 19:00*	*12/21/18 11:38*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*12/17/18 19:00*	*12/21/18 11:38*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**190**		50	25	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Acenaphthene	ND		25	14	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Acenaphthylene	**470**		25	12	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Anthracene	**260**		25	9.9	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Benzo[a]anthracene	**810**		25	7.4	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Benzo[a]pyrene	**1300**		25	9.4	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Benzo[b]fluoranthene	**1600**	**B**	25	10	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Benzo[g,h,i]perylene	**1100**		25	21	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Benzo[k]fluoranthene	**530**		25	10	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Chrysene	**1400**		25	6.9	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Dibenz(a,h)anthracene	**270**		25	17	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Fluoranthene	**1100**		25	6.9	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Fluorene	**67**		25	11	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Indeno[1,2,3-cd]pyrene	**770**		25	21	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Naphthalene	**310**		25	17	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Phenanthrene	**600**		25	8.9	ug/Kg		12/24/18 10:19	12/27/18 22:03	5
Pyrene	**2600**		25	8.4	ug/Kg		12/24/18 10:19	12/27/18 22:03	5

Client Sample ID: DG-X1S-0.5-1

Date Collected: 12/17/18 10:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*12/24/18 10:19*	*12/27/18 22:03*	*5*
Terphenyl-d14	*104*		*35 - 146*	*12/24/18 10:19*	*12/27/18 22:03*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**95**	**B**	2.0	0.75	mg/Kg		12/20/18 09:45	12/21/18 04:19	1
Motor Oil Range Organics [C24-C36]	**130**		50	10	mg/Kg		12/20/18 09:45	12/21/18 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*78*		*40 - 130*	*12/20/18 09:45*	*12/21/18 04:19*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Aldrin	ND		1.9	0.48	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Chlordane (technical)	ND		38	3.0	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Endosulfan I	ND		1.9	0.30	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Endrin	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/20/18 08:47	12/22/18 08:26	1
Toxaphene	ND		38	6.5	ug/Kg		12/20/18 08:47	12/22/18 08:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*141*	*p X*	*21 - 136*	*12/20/18 08:47*	*12/22/18 08:26*	*1*
Tetrachloro-m-xylene	*68*		*21 - 145*	*12/20/18 08:47*	*12/22/18 08:26*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 15:47	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 15:47	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 15:47	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 15:47	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 15:47	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 15:47	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 15:47	1

Client Sample ID: DG-X1S-0.5-1

Date Collected: 12/17/18 10:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*45 - 120*	*12/20/18 14:02*	*12/21/18 15:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.3**	**B**	1.9	0.31	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Arsenic	**110**		3.8	0.32	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Barium	**140**		1.9	0.27	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Beryllium	**0.25**	**J**	0.38	0.12	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Cadmium	ND		0.47	0.047	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Chromium	**170**		1.9	0.20	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Cobalt	**26**		0.75	0.075	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Copper	**44**		5.7	2.7	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Lead	**25**		1.9	0.40	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Molybdenum	ND		1.9	0.24	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Nickel	**240**		1.9	0.19	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Selenium	ND		3.8	0.57	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Silver	ND		0.94	0.19	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Thallium	ND		1.9	0.55	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Vanadium	**78**		1.9	0.26	mg/Kg		12/20/18 11:04	12/21/18 16:58	4
Zinc	**85**		5.7	2.4	mg/Kg		12/20/18 11:04	12/21/18 16:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**11**		0.15	0.022	mg/Kg		12/19/18 10:59	01/03/19 12:03	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.9**		0.1	0.05	%			12/19/18 15:12	1

Client Sample ID: DG-X1S-3.5-4

Date Collected: 12/17/18 10:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		97	68	ug/Kg		12/17/18 19:00	12/21/18 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*60 - 120*	*12/17/18 19:00*	*12/21/18 16:22*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*79 - 120*	*12/17/18 19:00*	*12/21/18 16:22*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/17/18 19:00*	*12/21/18 16:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,1,1-Trichloroethane	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	4.8	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,1,2-Trichloroethane	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,1-Dichloroethane	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,1-Dichloroethene	ND		1.9	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,1-Dichloropropene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,2,3-Trichlorobenzene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,2,3-Trichloropropane	ND		9.7	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,2,4-Trichlorobenzene	ND		4.8	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,2,4-Trimethylbenzene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,2-Dibromo-3-Chloropropane	ND		4.8	1.9	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,2-Dichlorobenzene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,2-Dichloroethane	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,2-Dichloropropane	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,3,5-Trimethylbenzene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,3-Dichlorobenzene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,3-Dichloropropane	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
1,4-Dichlorobenzene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
2,2-Dichloropropane	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
2-Butanone (MEK)	ND		9.7	4.8	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
2-Chlorotoluene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
2-Hexanone	ND		9.7	4.8	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
4-Chlorotoluene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
4-Isopropyltoluene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
4-Methyl-2-pentanone (MIBK)	ND		4.8	2.4	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Benzene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Bromobenzene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Bromoform	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Bromomethane	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Carbon disulfide	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Carbon tetrachloride	ND		1.9	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Chlorobenzene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Chlorobromomethane	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Chlorodibromomethane	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Chloroethane	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Chloroform	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Chloromethane	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
cis-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1

Client Sample ID: DG-X1S-3.5-4
Date Collected: 12/17/18 10:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Dibromomethane	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Dichlorobromomethane	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Dichlorodifluoromethane	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Ethylbenzene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Ethylene Dibromide	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Hexachlorobutadiene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Isopropylbenzene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Methyl tert-butyl ether	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Methylene Chloride	ND		9.7	4.8	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Naphthalene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
n-Butylbenzene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
N-Propylbenzene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
sec-Butylbenzene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Styrene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
tert-Butylbenzene	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Tetrachloroethene	ND	*	0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Toluene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
trans-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
trans-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Trichloroethene	ND		0.97	0.48	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Trichlorofluoromethane	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Vinyl acetate	ND		7.7	3.9	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Vinyl chloride	ND		1.9	0.97	ug/Kg		12/17/18 19:00	12/21/18 16:22	1
Xylenes, Total	ND		1.9	1.3	ug/Kg		12/17/18 19:00	12/21/18 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*	*12/17/18 19:00*	*12/21/18 16:22*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/17/18 19:00*	*12/21/18 16:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Anthracene	ND		5.0	2.0	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Benzo[a]anthracene	**20**		5.0	1.5	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Benzo[a]pyrene	**3.1**	**J**	5.0	1.9	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Benzo[b]fluoranthene	**62**	**B**	5.0	2.1	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Chrysene	**30**		5.0	1.4	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Dibenz(a,h)anthracene	**3.9**	**J**	5.0	3.5	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Fluoranthene	**11**		5.0	1.4	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Fluorene	ND		5.0	2.2	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Naphthalene	**5.3**		5.0	3.5	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Phenanthrene	**30**		5.0	1.8	ug/Kg		12/24/18 10:19	12/27/18 01:11	1
Pyrene	**5.1**		5.0	1.7	ug/Kg		12/24/18 10:19	12/27/18 01:11	1

Client Sample ID: DG-X1S-3.5-4

Date Collected: 12/17/18 10:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*12/24/18 10:19*	*12/27/18 01:11*	*1*
Terphenyl-d14	*84*		*35 - 146*	*12/24/18 10:19*	*12/27/18 01:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.9**	**B**	2.0	0.75	mg/Kg		12/20/18 09:45	12/20/18 21:59	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 09:45	12/20/18 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*40 - 130*	*12/20/18 09:45*	*12/20/18 21:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Aldrin	ND		1.9	0.49	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
alpha-BHC	ND		1.9	0.54	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
delta-BHC	ND		1.9	0.43	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Endosulfan II	ND		1.9	0.48	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Endrin	ND		1.9	0.45	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Heptachlor	ND		1.9	0.45	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/20/18 08:47	12/22/18 08:09	1
Toxaphene	ND		39	6.6	ug/Kg		12/20/18 08:47	12/22/18 08:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*21 - 136*	*12/20/18 08:47*	*12/22/18 08:09*	*1*
Tetrachloro-m-xylene	*75*		*21 - 145*	*12/20/18 08:47*	*12/22/18 08:09*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:00	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:00	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:00	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:00	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:00	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:00	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Client Sample ID: DG-X1S-3.5-4
Date Collected: 12/17/18 10:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-2
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*12/20/18 14:02*	*12/21/18 16:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.1**	**B F1**	1.9	0.32	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Arsenic	**16**	**F1**	3.9	0.33	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Barium	**98**	**F1**	1.9	0.28	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Beryllium	**0.29**	**J F1**	0.39	0.13	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Cadmium	ND		0.49	0.048	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Chromium	**110**	**F1**	1.9	0.21	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Cobalt	**17**	**F1**	0.78	0.078	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Copper	**29**	**F1**	5.8	2.8	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Lead	**5.1**	**F1**	1.9	0.41	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Molybdenum	ND		1.9	0.25	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Nickel	**120**	**F1**	1.9	0.20	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Selenium	ND		3.9	0.58	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Silver	ND		0.97	0.20	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Thallium	ND		1.9	0.56	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Vanadium	**52**	**F1**	1.9	0.26	mg/Kg		12/20/18 11:04	12/21/18 15:30	4
Zinc	**50**	**F1**	5.8	2.5	mg/Kg		12/20/18 11:04	12/21/18 15:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**	**F1**	0.015	0.0022	mg/Kg		12/19/18 10:59	01/03/19 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.3**		0.1	0.05	%			12/19/18 15:12	1

Client Sample ID: DUP-04

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		80	56	ug/Kg		12/17/18 19:00	12/21/18 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*60 - 120*	*12/17/18 19:00*	*12/21/18 12:07*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*12/17/18 19:00*	*12/21/18 12:07*	*1*
Toluene-d8 (Surr)	*112*		*79 - 123*	*12/17/18 19:00*	*12/21/18 12:07*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
2-Butanone (MEK)	ND		8.0	4.0	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
2-Hexanone	ND		8.0	4.0	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Benzene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Bromobenzene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Bromoform	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Bromomethane	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Carbon disulfide	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Chloroethane	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Chloroform	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Chloromethane	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1

Client Sample ID: DUP-04
Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Dibromomethane	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Naphthalene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Styrene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Tetrachloroethene	ND	*	0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Toluene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Trichloroethene	ND		0.80	0.40	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		12/17/18 19:00	12/21/18 12:07	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		12/17/18 19:00	12/21/18 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*12/17/18 19:00*	*12/21/18 12:07*	*1*
Toluene-d8 (Surr)	*112*		*79 - 123*	*12/17/18 19:00*	*12/21/18 12:07*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**220**		100	50	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Acenaphthene	ND		50	28	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Acenaphthylene	**1400**		50	24	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Anthracene	**730**		50	20	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Benzo[a]anthracene	**4400**		50	15	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Benzo[a]pyrene	**5200**		50	19	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Benzo[b]fluoranthene	**6800**	**B**	50	21	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Benzo[g,h,i]perylene	**3900**		50	43	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Benzo[k]fluoranthene	**2300**		50	21	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Chrysene	**6100**		50	14	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Dibenz(a,h)anthracene	**1100**		50	35	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Fluoranthene	**2600**		50	14	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Fluorene	**160**		50	22	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Indeno[1,2,3-cd]pyrene	**3100**		50	42	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Naphthalene	**350**		50	35	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Phenanthrene	**1000**		50	18	ug/Kg		12/24/18 10:19	12/27/18 22:26	10
Pyrene	**6600**		50	17	ug/Kg		12/24/18 10:19	12/27/18 22:26	10

Client Sample ID: DUP-04

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*12/24/18 10:19*	*12/27/18 22:26*	*10*
Terphenyl-d14	*120*		*35 - 146*	*12/24/18 10:19*	*12/27/18 22:26*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**69**	**B**	4.0	1.5	mg/Kg		12/20/18 09:45	12/21/18 04:48	2
Motor Oil Range Organics [C24-C36]	**120**		99	20	mg/Kg		12/20/18 09:45	12/21/18 04:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*85*		*40 - 130*	*12/20/18 09:45*	*12/21/18 04:48*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Aldrin	ND		1.9	0.48	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Chlordane (technical)	ND		38	3.0	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Endosulfan I	ND		1.9	0.30	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Endrin	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/20/18 08:47	12/22/18 08:42	1
Toxaphene	ND		38	6.5	ug/Kg		12/20/18 08:47	12/22/18 08:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*169*	*p X*	*21 - 136*	*12/20/18 08:47*	*12/22/18 08:42*	*1*
Tetrachloro-m-xylene	*79*		*21 - 145*	*12/20/18 08:47*	*12/22/18 08:42*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:13	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:13	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:13	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:13	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:13	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:13	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 16:13	1

Client Sample ID: DUP-04

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*12/20/18 14:02*	*12/21/18 16:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.4**	**J B**	1.7	0.28	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Arsenic	**67**		3.4	0.29	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Barium	**70**		1.7	0.24	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Beryllium	ND		0.34	0.11	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Cadmium	ND		0.43	0.042	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Chromium	**67**		1.7	0.18	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Cobalt	**17**		0.68	0.068	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Copper	**59**		5.1	2.4	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Lead	**20**		1.7	0.36	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Molybdenum	ND		1.7	0.22	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Nickel	**92**		1.7	0.17	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Selenium	**0.56**	**J**	3.4	0.51	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Silver	ND		0.85	0.17	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Thallium	ND		1.7	0.50	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Vanadium	**76**		1.7	0.23	mg/Kg		12/20/18 11:04	12/21/18 17:12	4
Zinc	**65**		5.1	2.2	mg/Kg		12/20/18 11:04	12/21/18 17:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**3.1**		0.16	0.023	mg/Kg		12/19/18 10:59	01/03/19 12:06	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.2**		0.1	0.05	%			12/19/18 15:12	1

Client Sample ID: DG-V1S-0.5-1

Date Collected: 12/17/18 11:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	52	ug/Kg		12/17/18 19:00	12/21/18 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*	*X*	*60 - 120*	*12/17/18 19:00*	*12/21/18 12:35*	*1*
4-Bromofluorobenzene (Surr)	*115*		*79 - 120*	*12/17/18 19:00*	*12/21/18 12:35*	*1*
Toluene-d8 (Surr)	*119*		*79 - 123*	*12/17/18 19:00*	*12/21/18 12:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,1,1-Trichloroethane	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
2-Hexanone	ND		7.5	3.7	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
4-Isopropyltoluene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Benzene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Bromobenzene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Bromoform	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Bromomethane	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Chloroethane	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Chloroform	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Chloromethane	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1

Client Sample ID: DG-V1S-0.5-1

Date Collected: 12/17/18 11:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Dibromomethane	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Naphthalene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
N-Propylbenzene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Styrene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Tetrachloroethene	ND	*	0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Toluene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Trichloroethene	ND		0.75	0.37	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		12/17/18 19:00	12/21/18 12:35	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		12/17/18 19:00	12/21/18 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*12/17/18 19:00*	*12/21/18 12:35*	*1*
Toluene-d8 (Surr)	*119*		*79 - 123*	*12/17/18 19:00*	*12/21/18 12:35*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**34**		20	10	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Acenaphthene	ND		10	5.6	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Acenaphthylene	**83**		10	4.8	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Anthracene	**45**		10	4.0	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Benzo[a]anthracene	**150**		10	3.0	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Benzo[a]pyrene	**260**		10	3.8	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Benzo[b]fluoranthene	**300**	**B**	10	4.2	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Benzo[g,h,i]perylene	**200**		10	8.6	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Benzo[k]fluoranthene	**85**		10	4.2	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Chrysene	**230**		10	2.8	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Dibenz(a,h)anthracene	**49**		10	7.0	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Fluoranthene	**190**		10	2.8	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Fluorene	**11**		10	4.4	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Indeno[1,2,3-cd]pyrene	**150**		10	8.4	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Naphthalene	**48**		10	7.0	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Phenanthrene	**96**		10	3.6	ug/Kg		12/24/18 10:19	12/27/18 21:39	2
Pyrene	**440**		10	3.4	ug/Kg		12/24/18 10:19	12/27/18 21:39	2

Client Sample ID: DG-V1S-0.5-1

Date Collected: 12/17/18 11:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*33 - 120*	*12/24/18 10:19*	*12/27/18 21:39*	*2*
Terphenyl-d14	*75*		*35 - 146*	*12/24/18 10:19*	*12/27/18 21:39*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**41**	**B**	2.0	0.75	mg/Kg		12/20/18 09:45	12/21/18 03:50	1
Motor Oil Range Organics [C24-C36]	**76**		50	10	mg/Kg		12/20/18 09:45	12/21/18 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*80*		*40 - 130*	*12/20/18 09:45*	*12/21/18 03:50*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Aldrin	ND		2.0	0.49	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Chlordane (technical)	ND		39	3.2	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Endrin	ND		2.0	0.45	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/20/18 08:47	12/22/18 08:59	1
Toxaphene	ND		39	6.7	ug/Kg		12/20/18 08:47	12/22/18 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*177*	*p X*	*21 - 136*	*12/20/18 08:47*	*12/22/18 08:59*	*1*
Tetrachloro-m-xylene	*80*		*21 - 145*	*12/20/18 08:47*	*12/22/18 08:59*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:27	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:27	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:27	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:27	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:27	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:27	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:27	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Client Sample ID: DG-V1S-0.5-1
Date Collected: 12/17/18 11:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-4
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*12/20/18 14:02*	*12/21/18 16:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.1**		1.3	0.21	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Arsenic	**200**		2.6	0.22	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Barium	**67**		1.3	0.18	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Beryllium	ND		0.26	0.084	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Cadmium	**0.39**		0.32	0.032	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Chromium	**74**		1.3	0.14	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Cobalt	**15**		0.52	0.052	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Copper	**61**		3.9	1.8	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Lead	**51**		1.3	0.27	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Molybdenum	**0.17**	**J**	1.3	0.17	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Nickel	**80**		1.3	0.13	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Selenium	ND		2.6	0.39	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Silver	ND		0.65	0.13	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Thallium	ND		1.3	0.37	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Vanadium	**67**		1.3	0.18	mg/Kg		12/20/18 08:28	12/21/18 14:34	4
Zinc	**99**		3.9	1.6	mg/Kg		12/20/18 08:28	12/21/18 14:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.9**		0.058	0.0086	mg/Kg		12/19/18 10:59	01/03/19 12:08	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.3**		0.1	0.05	%			12/19/18 15:12	1

Client Sample ID: DG-V1S-3.5-4

Date Collected: 12/17/18 11:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		110	78	ug/Kg		12/17/18 19:00	12/21/18 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*60 - 120*	*12/17/18 19:00*	*12/21/18 13:03*	*1*
4-Bromofluorobenzene (Surr)	*124*	*X*	*79 - 120*	*12/17/18 19:00*	*12/21/18 13:03*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*12/17/18 19:00*	*12/21/18 13:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,1,1-Trichloroethane	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,1,2,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.6	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,1,2-Trichloroethane	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,1-Dichloroethane	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,1-Dichloroethene	ND		2.2	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,1-Dichloropropene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,2,3-Trichlorobenzene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,2,4-Trichlorobenzene	ND		5.6	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,2,4-Trimethylbenzene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,2-Dibromo-3-Chloropropane	ND		5.6	2.2	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,2-Dichlorobenzene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,2-Dichloroethane	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,2-Dichloropropane	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,3,5-Trimethylbenzene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,3-Dichlorobenzene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,3-Dichloropropane	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
1,4-Dichlorobenzene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
2,2-Dichloropropane	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
2-Butanone (MEK)	ND		11	5.6	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
2-Chlorotoluene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
2-Hexanone	ND		11	5.6	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
4-Chlorotoluene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
4-Isopropyltoluene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.6	2.8	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Benzene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Bromobenzene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Bromoform	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Bromomethane	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Carbon disulfide	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Carbon tetrachloride	ND		2.2	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Chlorobenzene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Chlorobromomethane	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Chlorodibromomethane	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Chloroethane	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Chloroform	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Chloromethane	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
cis-1,2-Dichloroethene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1

Client Sample ID: DG-V1S-3.5-4

Date Collected: 12/17/18 11:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Dibromomethane	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Dichlorobromomethane	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Dichlorodifluoromethane	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Ethylbenzene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Ethylene Dibromide	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Hexachlorobutadiene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Isopropylbenzene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Methyl tert-butyl ether	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Methylene Chloride	ND		11	5.6	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Naphthalene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
n-Butylbenzene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
N-Propylbenzene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
sec-Butylbenzene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Styrene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
tert-Butylbenzene	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Tetrachloroethene	ND	*	1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Toluene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
trans-1,2-Dichloroethene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
trans-1,3-Dichloropropene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Trichloroethene	ND		1.1	0.56	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Trichlorofluoromethane	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Vinyl acetate	ND		8.9	4.5	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Vinyl chloride	ND		2.2	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:03	1
Xylenes, Total	ND		2.2	1.5	ug/Kg		12/17/18 19:00	12/21/18 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*	*12/17/18 19:00*	*12/21/18 13:03*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*12/17/18 19:00*	*12/21/18 13:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**8.9**	**J**	9.9	5.0	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Anthracene	**4.6**	**J**	5.0	2.0	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Benzo[a]anthracene	**4.4**	**J**	5.0	1.5	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Benzo[a]pyrene	**7.8**		5.0	1.9	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Benzo[b]fluoranthene	**66**	**B**	5.0	2.1	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Benzo[g,h,i]perylene	**12**		5.0	4.3	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Benzo[k]fluoranthene	**5.1**		5.0	2.1	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Chrysene	**84**		5.0	1.4	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Dibenz(a,h)anthracene	**9.5**		5.0	3.5	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Fluoranthene	**30**		5.0	1.4	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Fluorene	**4.9**	**J**	5.0	2.2	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Indeno[1,2,3-cd]pyrene	**8.4**		5.0	4.2	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Naphthalene	**9.5**		5.0	3.5	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Phenanthrene	**220**		5.0	1.8	ug/Kg		12/24/18 10:19	12/27/18 20:52	1
Pyrene	**22**		5.0	1.7	ug/Kg		12/24/18 10:19	12/27/18 20:52	1

Client Sample ID: DG-V1S-3.5-4

Date Collected: 12/17/18 11:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*12/24/18 10:19*	*12/27/18 20:52*	*1*
Terphenyl-d14	*94*		*35 - 146*	*12/24/18 10:19*	*12/27/18 20:52*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.8**	**B**	2.0	0.75	mg/Kg		12/20/18 09:45	12/20/18 22:23	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 09:45	12/20/18 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*40 - 130*	*12/20/18 09:45*	*12/20/18 22:23*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Aldrin	ND		1.9	0.48	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Chlordane (technical)	ND		38	3.1	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Endrin	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/20/18 08:47	12/22/18 09:16	1
Toxaphene	ND		38	6.5	ug/Kg		12/20/18 08:47	12/22/18 09:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*	*p*	*21 - 136*	*12/20/18 08:47*	*12/22/18 09:16*	*1*
Tetrachloro-m-xylene	*77*		*21 - 145*	*12/20/18 08:47*	*12/22/18 09:16*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:40	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:40	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:40	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:40	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:40	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:40	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:40	1

Client Sample ID: DG-V1S-3.5-4

Date Collected: 12/17/18 11:30
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*45 - 120*	*12/20/18 14:02*	*12/21/18 16:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.7**		1.5	0.26	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Arsenic	**18**		3.1	0.26	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Barium	**75**		1.5	0.22	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Beryllium	**0.27**	**J**	0.31	0.10	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Cadmium	ND		0.38	0.038	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Chromium	**120**		1.5	0.16	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Cobalt	**18**		0.62	0.062	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Copper	**26**		4.6	2.2	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Lead	**3.5**		1.5	0.32	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Molybdenum	ND		1.5	0.20	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Nickel	**140**		1.5	0.16	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Selenium	ND		3.1	0.46	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Silver	ND		0.77	0.16	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Thallium	ND		1.5	0.45	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Vanadium	**52**		1.5	0.21	mg/Kg		12/20/18 08:28	12/21/18 14:39	4
Zinc	**51**		4.6	2.0	mg/Kg		12/20/18 08:28	12/21/18 14:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.31**		0.016	0.0023	mg/Kg		12/19/18 10:59	01/03/19 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.05	%			12/19/18 15:12	1

Client Sample ID: DG-T1S-0.5-1

Date Collected: 12/17/18 13:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		89	62	ug/Kg		12/17/18 19:00	12/21/18 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*12/17/18 19:00*	*12/21/18 10:17*	*1*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*	*12/17/18 19:00*	*12/21/18 10:17*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*	*12/17/18 19:00*	*12/21/18 10:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,1,1-Trichloroethane	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.9	4.4	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,1,2-Trichloroethane	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,1-Dichloroethane	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,1-Dichloropropene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,2,3-Trichlorobenzene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,2,3-Trichloropropane	ND		8.9	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,2,4-Trichlorobenzene	ND		4.4	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,2,4-Trimethylbenzene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,2-Dibromo-3-Chloropropane	ND	F1	4.4	1.8	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,2-Dichlorobenzene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,2-Dichloroethane	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,2-Dichloropropane	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,3,5-Trimethylbenzene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,3-Dichlorobenzene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,3-Dichloropropane	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
1,4-Dichlorobenzene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
2,2-Dichloropropane	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
2-Butanone (MEK)	ND		8.9	4.4	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
2-Chlorotoluene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
2-Hexanone	ND		8.9	4.4	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
4-Chlorotoluene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
4-Isopropyltoluene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
4-Methyl-2-pentanone (MIBK)	ND	F1	4.4	2.2	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Benzene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Bromobenzene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Bromoform	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Bromomethane	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Carbon disulfide	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Chlorobenzene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Chlorobromomethane	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Chlorodibromomethane	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Chloroethane	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Chloroform	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Chloromethane	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
cis-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1

Client Sample ID: DG-T1S-0.5-1

Date Collected: 12/17/18 13:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Dibromomethane	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Dichlorobromomethane	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Dichlorodifluoromethane	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Ethylbenzene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Ethylene Dibromide	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Hexachlorobutadiene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Isopropylbenzene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Methyl tert-butyl ether	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Methylene Chloride	ND		8.9	4.4	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Naphthalene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
n-Butylbenzene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
N-Propylbenzene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
sec-Butylbenzene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Styrene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
tert-Butylbenzene	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Tetrachloroethene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Toluene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
trans-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
trans-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Trichloroethene	ND		0.89	0.44	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Trichlorofluoromethane	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Vinyl acetate	ND		7.1	3.6	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Vinyl chloride	ND		1.8	0.89	ug/Kg		12/17/18 19:00	12/21/18 10:17	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		12/17/18 19:00	12/21/18 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*12/17/18 19:00*	*12/21/18 10:17*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*	*12/17/18 19:00*	*12/21/18 10:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**83**		50	25	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Acenaphthene	ND		25	14	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Acenaphthylene	**100**		25	12	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Anthracene	**110**		25	10	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Benzo[a]anthracene	**140**		25	7.5	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Benzo[a]pyrene	**250**		25	9.5	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Benzo[b]fluoranthene	**360**	**B**	25	10	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Benzo[g,h,i]perylene	**170**	**F1**	25	21	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Benzo[k]fluoranthene	**100**		25	10	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Chrysene	**240**		25	7.0	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Dibenz(a,h)anthracene	**50**	**F1**	25	17	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Fluoranthene	**200**	**F1 F2**	25	7.0	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Fluorene	**12**	**J**	25	11	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Indeno[1,2,3-cd]pyrene	**130**	**F1**	25	21	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Naphthalene	**78**		25	17	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Phenanthrene	**130**		25	9.0	ug/Kg		12/20/18 16:21	12/29/18 05:33	5
Pyrene	**400**	**F1 F2**	25	8.5	ug/Kg		12/20/18 16:21	12/29/18 05:33	5

Client Sample ID: DG-T1S-0.5-1

Date Collected: 12/17/18 13:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-6

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		33 - 120	12/20/18 16:21	12/29/18 05:33	5
Terphenyl-d14	86		35 - 146	12/20/18 16:21	12/29/18 05:33	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	180	B	10	3.7	mg/Kg		12/20/18 11:14	12/21/18 11:17	5
Motor Oil Range Organics [C24-C36]	540		250	50	mg/Kg		12/20/18 11:14	12/21/18 11:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	12/20/18 11:14	12/21/18 11:17	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1	2.0	0.60	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
4,4'-DDT	ND	F2	2.0	0.40	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Aldrin	ND		2.0	0.49	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Endosulfan sulfate	ND	F2	2.0	0.37	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Endrin	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Endrin aldehyde	ND	F2 F1	2.0	0.62	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Endrin ketone	ND	F2 F1	2.0	0.32	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
gamma-BHC (Lindane)	ND	F1	2.0	0.62	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Methoxychlor	ND	F2 F1	2.0	0.67	ug/Kg		12/20/18 09:20	12/25/18 04:41	1
Toxaphene	ND		39	6.7	ug/Kg		12/20/18 09:20	12/25/18 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	187	p X	21 - 136	12/20/18 09:20	12/25/18 04:41	1
Tetrachloro-m-xylene	88		21 - 145	12/20/18 09:20	12/25/18 04:41	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 11:50	1
Aroclor 1221	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 11:50	1
Aroclor 1232	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 11:50	1
Aroclor 1242	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 11:50	1
Aroclor 1248	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 11:50	1
Aroclor 1254	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 11:50	1
Aroclor 1260	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 11:50	1

Client Sample ID: DG-T1S-0.5-1

Date Collected: 12/17/18 13:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*12/27/18 18:48*	*12/28/18 11:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	F1	1.5	0.25	mg/Kg		12/19/18 15:49	12/27/18 19:49	4
Arsenic	100	F1	3.0	0.25	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Barium	73		1.5	0.21	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Beryllium	0.13	J	0.30	0.096	mg/Kg		12/19/18 15:49	12/27/18 19:49	4
Cadmium	0.84		0.37	0.037	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Chromium	29		1.5	0.16	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Cobalt	12		0.59	0.059	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Copper	84	F1	4.4	2.1	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Lead	140	F1	1.5	0.31	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Molybdenum	0.85	J	1.5	0.19	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Nickel	43		1.5	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Selenium	0.73	J	3.0	0.44	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Silver	0.17	J B	0.74	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Thallium	ND		1.5	0.43	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Vanadium	73		1.5	0.20	mg/Kg		12/19/18 15:49	12/26/18 23:18	4
Zinc	190		4.4	1.9	mg/Kg		12/19/18 15:49	12/26/18 23:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.54	F1 F2	0.015	0.0022	mg/Kg		12/19/18 11:24	01/02/19 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		0.1	0.05	%			12/19/18 15:12	1

Client Sample ID: DG-T1S-3.5-4

Date Collected: 12/17/18 13:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		110	75	ug/Kg		12/17/18 19:00	12/21/18 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*	*X*	*60 - 120*	*12/17/18 19:00*	*12/21/18 13:32*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*79 - 120*	*12/17/18 19:00*	*12/21/18 13:32*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*	*12/17/18 19:00*	*12/21/18 13:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,1,1-Trichloroethane	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.3	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,1,2-Trichloroethane	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,1-Dichloroethane	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,1-Dichloroethene	ND		2.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,1-Dichloropropene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,2,3-Trichlorobenzene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,2,4-Trichlorobenzene	ND		5.3	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,2,4-Trimethylbenzene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,2-Dichlorobenzene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,2-Dichloroethane	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,2-Dichloropropane	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,3,5-Trimethylbenzene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,3-Dichlorobenzene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,3-Dichloropropane	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
1,4-Dichlorobenzene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
2,2-Dichloropropane	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
2-Butanone (MEK)	ND		11	5.3	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
2-Chlorotoluene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
2-Hexanone	ND		11	5.3	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
4-Chlorotoluene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
4-Isopropyltoluene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.3	2.7	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Benzene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Bromobenzene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Bromoform	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Bromomethane	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Carbon disulfide	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Carbon tetrachloride	ND		2.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Chlorobenzene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Chlorobromomethane	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Chlorodibromomethane	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Chloroethane	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Chloroform	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Chloromethane	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
cis-1,2-Dichloroethene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1

Client Sample ID: DG-T1S-3.5-4

Date Collected: 12/17/18 13:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Dibromomethane	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Dichlorobromomethane	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Dichlorodifluoromethane	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Ethylbenzene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Ethylene Dibromide	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Hexachlorobutadiene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Isopropylbenzene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Methyl tert-butyl ether	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Methylene Chloride	ND		11	5.3	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Naphthalene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
n-Butylbenzene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
N-Propylbenzene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
sec-Butylbenzene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Styrene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
tert-Butylbenzene	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Tetrachloroethene	ND	*	1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Toluene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
trans-1,2-Dichloroethene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
trans-1,3-Dichloropropene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Trichloroethene	ND		1.1	0.53	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Trichlorofluoromethane	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Vinyl acetate	ND		8.5	4.3	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Vinyl chloride	ND		2.1	1.1	ug/Kg		12/17/18 19:00	12/21/18 13:32	1
Xylenes, Total	ND		2.1	1.4	ug/Kg		12/17/18 19:00	12/21/18 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*	*12/17/18 19:00*	*12/21/18 13:32*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*	*12/17/18 19:00*	*12/21/18 13:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Anthracene	**2.0**	**J**	5.0	2.0	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Benzo[a]anthracene	**3.7**	**J**	5.0	1.5	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Benzo[a]pyrene	**5.9**		5.0	1.9	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Benzo[b]fluoranthene	**14**	**B**	5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Benzo[g,h,i]perylene	**6.3**		5.0	4.3	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Benzo[k]fluoranthene	**3.6**	**J**	5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Chrysene	**12**		5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Fluoranthene	**6.5**		5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Fluorene	ND		5.0	2.2	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Naphthalene	**6.4**		5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Phenanthrene	**25**		5.0	1.8	ug/Kg		12/20/18 16:21	12/27/18 19:42	1
Pyrene	**10**		5.0	1.7	ug/Kg		12/20/18 16:21	12/27/18 19:42	1

Client Sample ID: DG-T1S-3.5-4

Date Collected: 12/17/18 13:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*33 - 120*	*12/20/18 16:21*	*12/27/18 19:42*	*1*
Terphenyl-d14	*83*		*35 - 146*	*12/20/18 16:21*	*12/27/18 19:42*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.6**	**J B**	2.0	0.75	mg/Kg		12/20/18 11:14	12/24/18 20:44	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 11:14	12/24/18 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*40 - 130*	*12/20/18 11:14*	*12/24/18 20:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Aldrin	ND		2.0	0.50	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Endrin	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/20/18 08:47	12/22/18 09:33	1
Toxaphene	ND		40	6.8	ug/Kg		12/20/18 08:47	12/22/18 09:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*21 - 136*	*12/20/18 08:47*	*12/22/18 09:33*	*1*
Tetrachloro-m-xylene	*62*		*21 - 145*	*12/20/18 08:47*	*12/22/18 09:33*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:53	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:53	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:53	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:53	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:53	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:53	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 16:53	1

Client Sample ID: DG-T1S-3.5-4

Date Collected: 12/17/18 13:45
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*12/20/18 14:02*	*12/21/18 16:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.4**		1.2	0.20	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Arsenic	**24**		2.5	0.21	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Barium	**70**		1.2	0.17	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Beryllium	**0.18**	**J**	0.25	0.080	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Cadmium	ND		0.31	0.030	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Chromium	**76**		1.2	0.13	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Cobalt	**12**		0.49	0.049	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Copper	**24**		3.7	1.7	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Lead	**2.8**		1.2	0.26	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Molybdenum	ND		1.2	0.16	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Nickel	**89**		1.2	0.13	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Selenium	ND		2.5	0.37	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Silver	ND		0.61	0.12	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Thallium	ND		1.2	0.36	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Vanadium	**48**		1.2	0.17	mg/Kg		12/20/18 08:28	12/21/18 14:44	4
Zinc	**42**		3.7	1.6	mg/Kg		12/20/18 08:28	12/21/18 14:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**		0.015	0.0021	mg/Kg		12/19/18 10:59	01/03/19 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1	0.05	%			12/19/18 15:12	1

Client Sample ID: DUP-03

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		190	130	ug/Kg		12/17/18 19:00	12/22/18 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*12/17/18 19:00*	*12/22/18 11:37*	*1*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*	*12/17/18 19:00*	*12/22/18 11:37*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/17/18 19:00*	*12/22/18 11:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,1,1-Trichloroethane	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,1,2,2-Tetrachloroethane	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		19	9.5	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,1,2-Trichloroethane	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,1-Dichloroethane	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,1-Dichloroethene	ND		3.8	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,1-Dichloropropene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,2,3-Trichlorobenzene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,2,3-Trichloropropane	ND		19	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,2,4-Trichlorobenzene	ND		9.5	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,2,4-Trimethylbenzene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,2-Dibromo-3-Chloropropane	ND		9.5	3.8	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,2-Dichlorobenzene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,2-Dichloroethane	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,2-Dichloropropane	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,3,5-Trimethylbenzene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,3-Dichlorobenzene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,3-Dichloropropane	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
1,4-Dichlorobenzene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
2,2-Dichloropropane	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
2-Butanone (MEK)	ND		19	9.5	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
2-Chlorotoluene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
2-Hexanone	ND		19	9.5	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
4-Chlorotoluene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
4-Isopropyltoluene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
4-Methyl-2-pentanone (MIBK)	ND		9.5	4.8	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Benzene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Bromobenzene	ND	*	3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Bromoform	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Bromomethane	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Carbon disulfide	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Carbon tetrachloride	ND		3.8	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Chlorobenzene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Chlorobromomethane	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Chlorodibromomethane	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Chloroethane	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Chloroform	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Chloromethane	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
cis-1,2-Dichloroethene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1

Client Sample ID: DUP-03
Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Dibromomethane	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Dichlorobromomethane	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Dichlorodifluoromethane	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Ethylbenzene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Ethylene Dibromide	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Hexachlorobutadiene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Isopropylbenzene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Methyl tert-butyl ether	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Methylene Chloride	ND		19	9.5	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Naphthalene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
n-Butylbenzene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
N-Propylbenzene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
sec-Butylbenzene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Styrene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
tert-Butylbenzene	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Tetrachloroethene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Toluene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
trans-1,2-Dichloroethene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
trans-1,3-Dichloropropene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Trichloroethene	ND		1.9	0.95	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Trichlorofluoromethane	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Vinyl acetate	ND		15	7.6	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Vinyl chloride	ND		3.8	1.9	ug/Kg		12/17/18 19:00	12/22/18 11:37	1
Xylenes, Total	ND		3.8	2.5	ug/Kg		12/17/18 19:00	12/22/18 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*12/17/18 19:00*	*12/22/18 11:37*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/17/18 19:00*	*12/22/18 11:37*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Anthracene	**2.2**	**J**	5.0	2.0	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Benzo[a]anthracene	**2.8**	**J**	5.0	1.5	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Benzo[a]pyrene	**4.7**	**J**	5.0	1.9	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Benzo[b]fluoranthene	**9.5**	**B**	5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Benzo[g,h,i]perylene	**4.6**	**J**	5.0	4.3	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Benzo[k]fluoranthene	**2.7**	**J**	5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Chrysene	**5.8**		5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Fluoranthene	**3.8**	**J**	5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Fluorene	ND		5.0	2.2	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Phenanthrene	**12**		5.0	1.8	ug/Kg		12/20/18 16:21	12/27/18 20:05	1
Pyrene	**7.0**		5.0	1.7	ug/Kg		12/20/18 16:21	12/27/18 20:05	1

Client Sample ID: DUP-03

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*12/20/18 16:21*	*12/27/18 20:05*	*1*
Terphenyl-d14	*85*		*35 - 146*	*12/20/18 16:21*	*12/27/18 20:05*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5.8	B	2.0	0.75	mg/Kg		12/20/18 11:14	12/24/18 19:45	1
Motor Oil Range Organics [C24-C36]	19	J	50	10	mg/Kg		12/20/18 11:14	12/24/18 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*92*		*40 - 130*	*12/20/18 11:14*	*12/24/18 19:45*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Aldrin	ND		2.0	0.50	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Endrin	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/20/18 08:47	12/22/18 09:49	1
Toxaphene	ND		40	6.8	ug/Kg		12/20/18 08:47	12/22/18 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*21 - 136*	*12/20/18 08:47*	*12/22/18 09:49*	*1*
Tetrachloro-m-xylene	*75*		*21 - 145*	*12/20/18 08:47*	*12/22/18 09:49*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:07	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:07	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:07	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:07	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:07	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:07	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:07	1

Client Sample ID: DUP-03

Date Collected: 12/17/18 00:00
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*12/20/18 14:02*	*12/21/18 17:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.5**		1.4	0.23	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Arsenic	**27**		2.8	0.24	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Barium	**110**		1.4	0.20	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Beryllium	**0.28**		0.28	0.091	mg/Kg		12/19/18 15:49	12/27/18 19:54	4
Cadmium	**0.33**	**J**	0.35	0.035	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Chromium	**100**		1.4	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Cobalt	**18**		0.56	0.056	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Copper	**28**		4.2	2.0	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Lead	**6.3**		1.4	0.29	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Molybdenum	**0.45**	**J**	1.4	0.18	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Nickel	**130**		1.4	0.14	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Selenium	**0.43**	**J**	2.8	0.42	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Silver	ND		0.70	0.14	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Thallium	ND		1.4	0.41	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Vanadium	**70**		1.4	0.19	mg/Kg		12/19/18 15:49	12/26/18 23:23	4
Zinc	**57**		4.2	1.8	mg/Kg		12/19/18 15:49	12/26/18 23:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.59**		0.017	0.0025	mg/Kg		12/19/18 10:59	01/03/19 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.3**		0.1	0.05	%			12/19/18 15:12	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Client Sample ID: DG-R1S-0.5-1

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	50	ug/Kg		12/17/18 19:00	12/21/18 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*60 - 120*	*12/17/18 19:00*	*12/21/18 14:29*	*1*
4-Bromofluorobenzene (Surr)	*118*		*79 - 120*	*12/17/18 19:00*	*12/21/18 14:29*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/17/18 19:00*	*12/21/18 14:29*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,2,4-Trichlorobenzene	ND		3.6	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,2,4-Trimethylbenzene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,3,5-Trimethylbenzene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
2,2-Dichloropropane	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
2-Butanone (MEK)	ND		7.2	3.6	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
2-Chlorotoluene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
2-Hexanone	ND		7.2	3.6	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
4-Chlorotoluene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
4-Isopropyltoluene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Benzene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Bromobenzene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Bromoform	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Bromomethane	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Chloroethane	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Chloroform	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Chloromethane	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1

Client Sample ID: DG-R1S-0.5-1

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Dibromomethane	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Hexachlorobutadiene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Naphthalene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
n-Butylbenzene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
N-Propylbenzene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
sec-Butylbenzene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Styrene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
tert-Butylbenzene	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Tetrachloroethene	ND	*	0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Toluene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Trichloroethene	ND		0.72	0.36	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Vinyl acetate	ND		5.7	2.9	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		12/17/18 19:00	12/21/18 14:29	1
Xylenes, Total	ND		1.4	0.93	ug/Kg		12/17/18 19:00	12/21/18 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*	*12/17/18 19:00*	*12/21/18 14:29*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/17/18 19:00*	*12/21/18 14:29*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**120**		50	25	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Acenaphthene	ND		25	14	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Acenaphthylene	**130**		25	12	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Anthracene	**180**		25	9.9	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Benzo[a]anthracene	**190**		25	7.4	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Benzo[a]pyrene	**310**		25	9.4	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Benzo[b]fluoranthene	**470**	**B**	25	10	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Benzo[g,h,i]perylene	**240**		25	21	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Benzo[k]fluoranthene	**130**		25	10	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Chrysene	**390**		25	6.9	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Dibenz(a,h)anthracene	**68**		25	17	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Fluoranthene	**300**		25	6.9	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Fluorene	**12**	**J**	25	11	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Indeno[1,2,3-cd]pyrene	**170**		25	21	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Naphthalene	**110**		25	17	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Phenanthrene	**200**		25	8.9	ug/Kg		12/20/18 16:21	12/29/18 05:10	5
Pyrene	**620**		25	8.4	ug/Kg		12/20/18 16:21	12/29/18 05:10	5

Client Sample ID: DG-R1S-0.5-1

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-9

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120	12/20/18 16:21	12/29/18 05:10	5
Terphenyl-d14	96		35 - 146	12/20/18 16:21	12/29/18 05:10	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**190**	**B**	4.0	1.5	mg/Kg		12/20/18 11:14	12/24/18 12:28	2
Motor Oil Range Organics [C24-C36]	**440**		99	20	mg/Kg		12/20/18 11:14	12/24/18 12:28	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	54		40 - 130	12/20/18 11:14	12/24/18 12:28	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Aldrin	ND		1.9	0.48	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
alpha-Chlordane	**1.2**	**J**	1.9	0.38	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Chlordane (technical)	ND		38	3.1	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Endrin	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/20/18 08:47	12/22/18 10:06	1
Toxaphene	ND		38	6.5	ug/Kg		12/20/18 08:47	12/22/18 10:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	127		21 - 136	12/20/18 08:47	12/22/18 10:06	1
Tetrachloro-m-xylene	67		21 - 145	12/20/18 08:47	12/22/18 10:06	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:20	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:20	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:20	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:20	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:20	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:20	1
Aroclor 1260	**53**		49	17	ug/Kg		12/20/18 14:02	12/21/18 17:20	1

Client Sample ID: DG-R1S-0.5-1

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*12/20/18 14:02*	*12/21/18 17:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5		1.4	0.24	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Arsenic	320		2.9	0.24	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Barium	90		1.4	0.20	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Beryllium	0.11	J	0.29	0.094	mg/Kg		12/19/18 15:49	12/27/18 20:08	4
Cadmium	1.6		0.36	0.036	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Chromium	42		1.4	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Cobalt	14		0.58	0.058	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Copper	150		4.3	2.0	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Lead	200		1.4	0.30	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Molybdenum	1.8		1.4	0.18	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Nickel	49		1.4	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Selenium	1.4	J	2.9	0.43	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Silver	0.29	J B	0.72	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Thallium	ND		1.4	0.42	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Vanadium	73		1.4	0.20	mg/Kg		12/19/18 15:49	12/26/18 23:28	4
Zinc	270		4.3	1.8	mg/Kg		12/19/18 15:49	12/26/18 23:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.015	0.0023	mg/Kg		12/19/18 11:24	01/02/19 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.2		0.1	0.05	%			12/19/18 15:12	1

Client Sample ID: DG-R1S-3.5-4

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		92	64	ug/Kg		12/17/18 19:00	12/22/18 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*12/17/18 19:00*	*12/22/18 11:09*	*1*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*	*12/17/18 19:00*	*12/22/18 11:09*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*12/17/18 19:00*	*12/22/18 11:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,1,1-Trichloroethane	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.2	4.6	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,1,2-Trichloroethane	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,1-Dichloroethane	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,1-Dichloroethene	ND		1.8	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,1-Dichloropropene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,2,3-Trichlorobenzene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,2,3-Trichloropropane	ND		9.2	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,2,4-Trichlorobenzene	ND		4.6	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,2,4-Trimethylbenzene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,2-Dibromo-3-Chloropropane	ND		4.6	1.8	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,2-Dichlorobenzene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,2-Dichloroethane	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,2-Dichloropropane	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,3,5-Trimethylbenzene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,3-Dichlorobenzene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,3-Dichloropropane	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
1,4-Dichlorobenzene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
2,2-Dichloropropane	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
2-Butanone (MEK)	ND		9.2	4.6	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
2-Chlorotoluene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
2-Hexanone	ND		9.2	4.6	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
4-Chlorotoluene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
4-Isopropyltoluene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
4-Methyl-2-pentanone (MIBK)	ND		4.6	2.3	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Benzene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Bromobenzene	ND	*	1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Bromoform	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Bromomethane	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Carbon disulfide	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Carbon tetrachloride	ND		1.8	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Chlorobenzene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Chlorobromomethane	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Chlorodibromomethane	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Chloroethane	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Chloroform	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Chloromethane	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
cis-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1

Client Sample ID: DG-R1S-3.5-4
Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Dibromomethane	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Dichlorobromomethane	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Dichlorodifluoromethane	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Ethylbenzene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Ethylene Dibromide	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Hexachlorobutadiene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Isopropylbenzene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Methyl tert-butyl ether	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Methylene Chloride	ND		9.2	4.6	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Naphthalene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
n-Butylbenzene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
N-Propylbenzene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
sec-Butylbenzene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Styrene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
tert-Butylbenzene	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Tetrachloroethene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Toluene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
trans-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
trans-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Trichloroethene	ND		0.92	0.46	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Trichlorofluoromethane	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Vinyl acetate	ND		7.4	3.7	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Vinyl chloride	ND		1.8	0.92	ug/Kg		12/17/18 19:00	12/22/18 11:09	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		12/17/18 19:00	12/22/18 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*12/17/18 19:00*	*12/22/18 11:09*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*12/17/18 19:00*	*12/22/18 11:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**72**		9.9	5.0	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Acenaphthene	**4.0**	**J**	5.0	2.8	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Acenaphthylene	**2.6**	**J**	5.0	2.4	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Anthracene	**120**		5.0	2.0	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Benzo[a]anthracene	**5.0**		5.0	1.5	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Benzo[a]pyrene	**4.3**	**J**	5.0	1.9	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Benzo[b]fluoranthene	**26**	**B**	5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Benzo[g,h,i]perylene	**6.9**		5.0	4.3	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Benzo[k]fluoranthene	**3.3**	**J**	5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Chrysene	**22**		5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Dibenz(a,h)anthracene	**4.0**	**J**	5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Fluoranthene	**11**		5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Fluorene	**13**		5.0	2.2	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Indeno[1,2,3-cd]pyrene	**4.6**	**J**	5.0	4.2	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Naphthalene	**21**		5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Phenanthrene	**52**		5.0	1.8	ug/Kg		12/20/18 16:21	12/27/18 20:29	1
Pyrene	**12**		5.0	1.7	ug/Kg		12/20/18 16:21	12/27/18 20:29	1

Client Sample ID: DG-R1S-3.5-4

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*33 - 120*	*12/20/18 16:21*	*12/27/18 20:29*	*1*
Terphenyl-d14	*78*		*35 - 146*	*12/20/18 16:21*	*12/27/18 20:29*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**92**	**B**	2.0	0.75	mg/Kg		12/20/18 11:14	12/24/18 20:14	1
Motor Oil Range Organics [C24-C36]	**61**		50	10	mg/Kg		12/20/18 11:14	12/24/18 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*84*		*40 - 130*	*12/20/18 11:14*	*12/24/18 20:14*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Aldrin	ND		1.9	0.49	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
delta-BHC	ND		1.9	0.43	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Endosulfan II	ND		1.9	0.48	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Endrin	ND		1.9	0.45	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Heptachlor	ND		1.9	0.45	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/20/18 08:47	12/22/18 10:23	1
Toxaphene	ND		39	6.6	ug/Kg		12/20/18 08:47	12/22/18 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*144*	*p X*	*21 - 136*	*12/20/18 08:47*	*12/22/18 10:23*	*1*
Tetrachloro-m-xylene	*60*		*21 - 145*	*12/20/18 08:47*	*12/22/18 10:23*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 17:33	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 17:33	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 17:33	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 17:33	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 17:33	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 17:33	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 17:33	1

Client Sample ID: DG-R1S-3.5-4

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*102*		*45 - 120*	*12/20/18 14:02*	*12/21/18 17:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.5**	**J**	2.0	0.33	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Arsenic	**49**		4.0	0.34	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Barium	**59**		2.0	0.28	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Beryllium	**0.69**		0.40	0.13	mg/Kg		12/19/18 15:49	12/27/18 20:13	4
Cadmium	**0.32**	**J**	0.50	0.049	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Chromium	**46**		2.0	0.21	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Cobalt	**15**		0.79	0.079	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Copper	**35**		5.9	2.8	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Lead	**16**		2.0	0.42	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Molybdenum	**0.37**	**J**	2.0	0.25	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Nickel	**46**		2.0	0.20	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Selenium	**0.63**	**J**	4.0	0.59	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Silver	ND		0.99	0.20	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Thallium	ND		2.0	0.57	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Vanadium	**44**		2.0	0.27	mg/Kg		12/19/18 15:49	12/26/18 23:33	4
Zinc	**72**		5.9	2.5	mg/Kg		12/19/18 15:49	12/26/18 23:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.015	0.0023	mg/Kg		12/19/18 11:24	01/02/19 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.05	%			12/19/18 15:12	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCA	TOL								
Lab Sample ID	Client Sample ID	(70-130)	(79-123)								
720-90388-1	DG-X1S-0.5-1	124	115								
720-90388-2	DG-X1S-3.5-4	133 X	118								
720-90388-2 MS	DG-X1S-3.5-4	129	108								
720-90388-2 MSD	DG-X1S-3.5-4	110	105								
720-90388-3	DUP-04	130	112								
720-90388-4	DG-V1S-0.5-1	130	119								
720-90388-5	DG-V1S-3.5-4	121	122								
720-90388-6	DG-T1S-0.5-1	108	107								
720-90388-6 MS	DG-T1S-0.5-1	115	103								
720-90388-6 MSD	DG-T1S-0.5-1	113	102								
720-90388-7	DG-T1S-3.5-4	125	116								
720-90388-8	DUP-03	102	109								
720-90388-9	DG-R1S-0.5-1	131 X	118								
720-90388-10	DG-R1S-3.5-4	103	111								
720-90446-A-1-E MS	Matrix Spike	104	107								
720-90446-A-1-F MSD	Matrix Spike Duplicate	100	102								
LCS 440-518646/5	Lab Control Sample	108	97								
LCS 440-518651/5	Lab Control Sample	109	105								
LCS 440-518870/5	Lab Control Sample	102	97								
MB 440-518646/4	Method Blank	109	102								
MB 440-518651/4	Method Blank	118	116								
MB 440-518870/4	Method Blank	100	107								

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DBFM	BFB	TOL							
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)							
720-90388-1	DG-X1S-0.5-1	112	110	115							
720-90388-2	DG-X1S-3.5-4	120	121 X	118							
720-90388-2 MS	DG-X1S-3.5-4	111	105	108							
720-90388-2 MSD	DG-X1S-3.5-4	112	105	105							
720-90388-3	DUP-04	116	106	112							
720-90388-4	DG-V1S-0.5-1	121 X	115	119							
720-90388-5	DG-V1S-3.5-4	113	124 X	122							
720-90388-6	DG-T1S-0.5-1	104	113	107							
720-90388-6 MS	DG-T1S-0.5-1	107	113	103							
720-90388-6 MSD	DG-T1S-0.5-1	107	117	102							
720-90388-7	DG-T1S-3.5-4	121 X	121 X	116							
720-90388-8	DUP-03	107	112	109							
720-90388-9	DG-R1S-0.5-1	120	118	118							
720-90388-10	DG-R1S-3.5-4	110	117	111							
720-90446-A-1-E MS	Matrix Spike	109	104	107							
720-90446-A-1-F MSD	Matrix Spike Duplicate	104	108	102							

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (60-120)	BFB (79-120)	TOL (79-123)
LCS 440-518647/6	Lab Control Sample	105	106	103
LCS 440-518652/6	Lab Control Sample	110	106	111
LCS 440-518871/6	Lab Control Sample	105	104	105
MB 440-518647/4	Method Blank	105	104	102
MB 440-518652/4	Method Blank	110	106	116
MB 440-518871/4	Method Blank	104	101	107

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)
720-90388-1	DG-X1S-0.5-1	78	104
720-90388-2	DG-X1S-3.5-4	68	84
720-90388-2 MS	DG-X1S-3.5-4	65	90
720-90388-2 MSD	DG-X1S-3.5-4	67	91
720-90388-3	DUP-04	87	120
720-90388-4	DG-V1S-0.5-1	55	75
720-90388-5	DG-V1S-3.5-4	74	94
720-90388-6	DG-T1S-0.5-1	62	86
720-90388-6 MS	DG-T1S-0.5-1	65	98
720-90388-6 MSD	DG-T1S-0.5-1	62	93
720-90388-7	DG-T1S-3.5-4	66	83
720-90388-8	DUP-03	68	85
720-90388-9	DG-R1S-0.5-1	68	96
720-90388-10	DG-R1S-3.5-4	62	78
LCS 720-257381/2-A	Lab Control Sample	68	90
LCS 720-257530/2-A	Lab Control Sample	66	91
MB 720-257381/1-A	Method Blank	72	94
MB 720-257530/1-A	Method Blank	67	85

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-90388-1	DG-X1S-0.5-1	78
720-90388-2	DG-X1S-3.5-4	96
720-90388-2 MS	DG-X1S-3.5-4	114

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-90388-2 MSD	DG-X1S-3.5-4	116
720-90388-3	DUP-04	85
720-90388-4	DG-V1S-0.5-1	80
720-90388-5	DG-V1S-3.5-4	96
720-90388-6	DG-T1S-0.5-1	0 X D
720-90388-6 MS	DG-T1S-0.5-1	0 X D
720-90388-6 MSD	DG-T1S-0.5-1	0 X D
720-90388-7	DG-T1S-3.5-4	87
720-90388-8	DUP-03	92
720-90388-9	DG-R1S-0.5-1	54
720-90388-10	DG-R1S-3.5-4	84
LCS 720-257342/2-A	Lab Control Sample	111
LCS 720-257349/2-A	Lab Control Sample	120
MB 720-257342/1-A	Method Blank	97
MB 720-257349/1-A	Method Blank	90

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX1 (21-145)
720-90388-1	DG-X1S-0.5-1	141 p X	68
720-90388-4	DG-V1S-0.5-1	177 p X	80
720-90388-5	DG-V1S-3.5-4	89 p	77
720-90388-8	DUP-03	81	75
720-90388-10	DG-R1S-3.5-4	144 p X	60
MB 720-257333/1-A	Method Blank	106	84

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX2 (21-145)
720-90388-2	DG-X1S-3.5-4	88	75
720-90388-2 MS	DG-X1S-3.5-4	95	73
720-90388-2 MSD	DG-X1S-3.5-4	88	76
720-90388-3	DUP-04	169 p X	79
720-90388-6	DG-T1S-0.5-1	187 p X	88
720-90388-6 MSD	DG-T1S-0.5-1	179 p X	87
720-90388-7	DG-T1S-3.5-4	78	62
LCS 720-257333/2-A	Lab Control Sample	114	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90388-6 MS	DG-T1S-0.5-1	65 p	89
LCS 720-257336/2-A	Lab Control Sample	102	88

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90388-9	DG-R1S-0.5-1	127	67
MB 720-257336/1-A	Method Blank	102	87

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
720-90388-1	DG-X1S-0.5-1	99
720-90388-2	DG-X1S-3.5-4	93
720-90388-2 MS	DG-X1S-3.5-4	89
720-90388-2 MSD	DG-X1S-3.5-4	90
720-90388-3	DUP-04	85
720-90388-4	DG-V1S-0.5-1	91
720-90388-5	DG-V1S-3.5-4	84
720-90388-6	DG-T1S-0.5-1	49
720-90388-6 MS	DG-T1S-0.5-1	63
720-90388-6 MSD	DG-T1S-0.5-1	65
720-90388-7	DG-T1S-3.5-4	93
720-90388-8	DUP-03	91
720-90388-9	DG-R1S-0.5-1	93
720-90388-10	DG-R1S-3.5-4	102
LCS 440-518501/2-A	Lab Control Sample	94
LCS 440-519685/2-A	Lab Control Sample	115
MB 440-518501/1-A	Method Blank	97
MB 440-519685/1-A	Method Blank	113

Surrogate Legend

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-518646/4
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/21/18 08:57	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/21/18 08:57	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/21/18 08:57	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/21/18 08:57	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/21/18 08:57	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/21/18 08:57	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
2-Hexanone	ND		10	5.0	ug/Kg			12/21/18 08:57	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/21/18 08:57	1
Benzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Bromoform	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/21/18 08:57	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Chloroform	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518646/4
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/21/18 08:57	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Styrene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Toluene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/21/18 08:57	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/21/18 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*12/21/18 08:57*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*		*12/21/18 08:57*	*1*

Lab Sample ID: LCS 440-518646/5
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/Kg		104	70 - 130
1,1,1-Trichloroethane	50.0	55.1		ug/Kg		110	65 - 135
1,1,2,2-Tetrachloroethane	50.0	59.5		ug/Kg		119	55 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.2		ug/Kg		106	60 - 140
1,1,2-Trichloroethane	50.0	55.5		ug/Kg		111	65 - 135
1,1-Dichloroethane	50.0	54.9		ug/Kg		110	70 - 130
1,1-Dichloroethene	50.0	56.1		ug/Kg		112	70 - 125
1,1-Dichloropropene	50.0	53.8		ug/Kg		108	70 - 130
1,2,3-Trichlorobenzene	50.0	55.8		ug/Kg		112	60 - 130
1,2,3-Trichloropropane	50.0	54.8		ug/Kg		110	60 - 135
1,2,4-Trichlorobenzene	50.0	55.7		ug/Kg		111	70 - 135
1,2,4-Trimethylbenzene	50.0	52.8		ug/Kg		106	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	63.3		ug/Kg		127	50 - 135
1,2-Dichlorobenzene	50.0	53.3		ug/Kg		107	75 - 120
1,2-Dichloroethane	50.0	61.4		ug/Kg		123	60 - 140
1,2-Dichloropropane	50.0	57.3		ug/Kg		115	70 - 130
1,3,5-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 125
1,3-Dichlorobenzene	50.0	51.4		ug/Kg		103	75 - 125
1,3-Dichloropropane	50.0	49.9		ug/Kg		100	70 - 125
1,4-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518646/5
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	52.6		ug/Kg		105	60 - 145
2-Butanone (MEK)	50.0	57.1		ug/Kg		114	40 - 145
2-Chlorotoluene	50.0	53.5		ug/Kg		107	70 - 125
2-Hexanone	50.0	63.5		ug/Kg		127	40 - 150
4-Chlorotoluene	50.0	52.5		ug/Kg		105	75 - 125
4-Isopropyltoluene	50.0	52.6		ug/Kg		105	75 - 125
4-Methyl-2-pentanone (MIBK)	50.0	67.6		ug/Kg		135	40 - 145
Benzene	50.0	52.4		ug/Kg		105	65 - 120
Bromobenzene	50.0	53.2		ug/Kg		106	75 - 120
Bromoform	50.0	56.4		ug/Kg		113	55 - 135
Bromomethane	50.0	46.8		ug/Kg		94	60 - 145
Carbon disulfide	50.0	54.0		ug/Kg		108	50 - 130
Carbon tetrachloride	50.0	54.1		ug/Kg		108	65 - 140
Chlorobenzene	50.0	50.4		ug/Kg		101	75 - 120
Chlorobromomethane	50.0	53.4		ug/Kg		107	70 - 135
Chlorodibromomethane	50.0	53.0		ug/Kg		106	65 - 140
Chloroethane	50.0	48.8		ug/Kg		98	60 - 140
Chloroform	50.0	52.5		ug/Kg		105	70 - 130
Chloromethane	50.0	47.4		ug/Kg		95	45 - 145
cis-1,2-Dichloroethene	50.0	53.4		ug/Kg		107	70 - 125
cis-1,3-Dichloropropene	50.0	56.4		ug/Kg		113	75 - 125
Dibromomethane	50.0	56.5		ug/Kg		113	70 - 130
Dichlorobromomethane	50.0	55.4		ug/Kg		111	70 - 135
Dichlorodifluoromethane	50.0	41.1		ug/Kg		82	35 - 160
Ethylbenzene	50.0	47.6		ug/Kg		95	70 - 125
Ethylene Dibromide	50.0	52.5		ug/Kg		105	70 - 130
Hexachlorobutadiene	50.0	51.7		ug/Kg		103	60 - 135
Isopropylbenzene	50.0	49.5		ug/Kg		99	75 - 130
Methyl tert-butyl ether	50.0	54.5		ug/Kg		109	60 - 140
Methylene Chloride	50.0	48.9		ug/Kg		98	55 - 135
m-Xylene & p-Xylene	50.0	49.2		ug/Kg		98	70 - 125
Naphthalene	50.0	57.4		ug/Kg		115	55 - 135
n-Butylbenzene	50.0	54.5		ug/Kg		109	70 - 130
N-Propylbenzene	50.0	54.9		ug/Kg		110	70 - 130
o-Xylene	50.0	50.0		ug/Kg		100	70 - 125
sec-Butylbenzene	50.0	52.7		ug/Kg		105	70 - 125
Styrene	50.0	48.5		ug/Kg		97	75 - 130
tert-Butylbenzene	50.0	53.2		ug/Kg		106	70 - 125
Tetrachloroethene	50.0	48.7		ug/Kg		97	70 - 125
Toluene	50.0	48.6		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	50.0	56.0		ug/Kg		112	70 - 125
trans-1,3-Dichloropropene	50.0	55.1		ug/Kg		110	70 - 135
Trichloroethene	50.0	53.5		ug/Kg		107	70 - 125
Trichlorofluoromethane	50.0	49.8		ug/Kg		100	60 - 145
Vinyl acetate	50.0	65.7		ug/Kg		131	45 - 145
Vinyl chloride	50.0	42.1		ug/Kg		84	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518646/5
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: MB 440-518651/4
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/21/18 08:48	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/21/18 08:48	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/21/18 08:48	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/21/18 08:48	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/21/18 08:48	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/21/18 08:48	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
2-Hexanone	ND		10	5.0	ug/Kg			12/21/18 08:48	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/21/18 08:48	1
Benzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Bromoform	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/21/18 08:48	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Chloroform	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518651/4
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/21/18 08:48	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Styrene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Toluene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/21/18 08:48	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/21/18 08:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*12/21/18 08:48*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*		*12/21/18 08:48*	*1*

Lab Sample ID: LCS 440-518651/5
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	56.3		ug/Kg		113	70 - 130
1,1,1-Trichloroethane	50.0	62.0		ug/Kg		124	65 - 135
1,1,2,2-Tetrachloroethane	50.0	52.5		ug/Kg		105	55 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	60.1		ug/Kg		120	60 - 140
1,1,2-Trichloroethane	50.0	57.2		ug/Kg		114	65 - 135
1,1-Dichloroethane	50.0	57.9		ug/Kg		116	70 - 130
1,1-Dichloroethene	50.0	62.2		ug/Kg		124	70 - 125
1,1-Dichloropropene	50.0	63.8		ug/Kg		128	70 - 130
1,2,3-Trichlorobenzene	50.0	55.3		ug/Kg		111	60 - 130
1,2,3-Trichloropropane	50.0	55.2		ug/Kg		110	60 - 135
1,2,4-Trichlorobenzene	50.0	55.7		ug/Kg		111	70 - 135
1,2,4-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518651/5
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	59.6		ug/Kg		119	50 - 135
1,2-Dichlorobenzene	50.0	55.7		ug/Kg		111	75 - 120
1,2-Dichloroethane	50.0	59.7		ug/Kg		119	60 - 140
1,2-Dichloropropane	50.0	57.4		ug/Kg		115	70 - 130
1,3,5-Trimethylbenzene	50.0	54.0		ug/Kg		108	70 - 125
1,3-Dichlorobenzene	50.0	54.7		ug/Kg		109	75 - 125
1,3-Dichloropropane	50.0	54.7		ug/Kg		109	70 - 125
1,4-Dichlorobenzene	50.0	55.5		ug/Kg		111	75 - 120
2,2-Dichloropropane	50.0	62.4		ug/Kg		125	60 - 145
2-Butanone (MEK)	50.0	56.5		ug/Kg		113	40 - 145
2-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 125
2-Hexanone	50.0	58.4		ug/Kg		117	40 - 150
4-Chlorotoluene	50.0	52.8		ug/Kg		106	75 - 125
4-Isopropyltoluene	50.0	54.7		ug/Kg		109	75 - 125
4-Methyl-2-pentanone (MIBK)	50.0	65.7		ug/Kg		131	40 - 145
Benzene	50.0	54.6		ug/Kg		109	65 - 120
Bromobenzene	50.0	57.2		ug/Kg		114	75 - 120
Bromoform	50.0	60.6		ug/Kg		121	55 - 135
Bromomethane	50.0	51.5		ug/Kg		103	60 - 145
Carbon disulfide	50.0	59.0		ug/Kg		118	50 - 130
Carbon tetrachloride	50.0	65.3		ug/Kg		131	65 - 140
Chlorobenzene	50.0	53.2		ug/Kg		106	75 - 120
Chlorobromomethane	50.0	56.5		ug/Kg		113	70 - 135
Chlorodibromomethane	50.0	60.8		ug/Kg		122	65 - 140
Chloroethane	50.0	54.1		ug/Kg		108	60 - 140
Chloroform	50.0	57.1		ug/Kg		114	70 - 130
Chloromethane	50.0	49.7		ug/Kg		99	45 - 145
cis-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	70 - 125
cis-1,3-Dichloropropene	50.0	59.6		ug/Kg		119	75 - 125
Dibromomethane	50.0	60.1		ug/Kg		120	70 - 130
Dichlorobromomethane	50.0	58.2		ug/Kg		116	70 - 135
Dichlorodifluoromethane	50.0	53.0		ug/Kg		106	35 - 160
Ethylbenzene	50.0	54.4		ug/Kg		109	70 - 125
Ethylene Dibromide	50.0	58.0		ug/Kg		116	70 - 130
Hexachlorobutadiene	50.0	52.7		ug/Kg		105	60 - 135
Isopropylbenzene	50.0	56.2		ug/Kg		112	75 - 130
Methyl tert-butyl ether	50.0	54.5		ug/Kg		109	60 - 140
Methylene Chloride	50.0	52.6		ug/Kg		105	55 - 135
m-Xylene & p-Xylene	50.0	54.9		ug/Kg		110	70 - 125
Naphthalene	50.0	54.9		ug/Kg		110	55 - 135
n-Butylbenzene	50.0	55.7		ug/Kg		111	70 - 130
N-Propylbenzene	50.0	55.3		ug/Kg		111	70 - 130
o-Xylene	50.0	54.6		ug/Kg		109	70 - 125
sec-Butylbenzene	50.0	53.4		ug/Kg		107	70 - 125
Styrene	50.0	51.2		ug/Kg		102	75 - 130
tert-Butylbenzene	50.0	52.6		ug/Kg		105	70 - 125
Tetrachloroethene	50.0	64.2	*	ug/Kg		128	70 - 125
Toluene	50.0	53.3		ug/Kg		107	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518651/5
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	60.0		ug/Kg		120	70 - 125
trans-1,3-Dichloropropene	50.0	59.0		ug/Kg		118	70 - 135
Trichloroethene	50.0	58.7		ug/Kg		117	70 - 125
Trichlorofluoromethane	50.0	58.0		ug/Kg		116	60 - 145
Vinyl acetate	50.0	63.6		ug/Kg		127	45 - 145
Vinyl chloride	50.0	56.6		ug/Kg		113	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		44.5	50.7		ug/Kg		114	65 - 145
1,1,1-Trichloroethane	ND		44.5	47.4		ug/Kg		107	65 - 145
1,1,2,2-Tetrachloroethane	ND		44.5	51.3		ug/Kg		115	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		44.5	42.5		ug/Kg		96	60 - 140
1,1,2-Trichloroethane	ND		44.5	53.5		ug/Kg		120	65 - 140
1,1-Dichloroethane	ND		44.5	45.7		ug/Kg		103	65 - 135
1,1-Dichloroethene	ND		44.5	44.7		ug/Kg		100	65 - 135
1,1-Dichloropropene	ND		44.5	46.3		ug/Kg		104	65 - 135
1,2,3-Trichlorobenzene	ND		44.5	42.7		ug/Kg		96	45 - 145
1,2,3-Trichloropropane	ND		44.5	53.3		ug/Kg		120	50 - 150
1,2,4-Trichlorobenzene	ND		44.5	41.1		ug/Kg		92	50 - 140
1,2,4-Trimethylbenzene	ND		44.5	45.1		ug/Kg		101	65 - 140
1,2-Dibromo-3-Chloropropane	ND		44.5	54.2		ug/Kg		122	40 - 150
1,2-Dichlorobenzene	ND		44.5	49.4		ug/Kg		111	70 - 130
1,2-Dichloroethane	ND		44.5	52.4		ug/Kg		118	60 - 150
1,2-Dichloropropane	ND		44.5	49.8		ug/Kg		112	65 - 130
1,3,5-Trimethylbenzene	ND		44.5	45.9		ug/Kg		103	65 - 135
1,3-Dichlorobenzene	ND		44.5	44.6		ug/Kg		100	70 - 130
1,3-Dichloropropane	ND		44.5	50.0		ug/Kg		112	65 - 140
1,4-Dichlorobenzene	ND		44.5	43.8		ug/Kg		99	70 - 130
2,2-Dichloropropane	ND		44.5	47.2		ug/Kg		106	65 - 150
2-Butanone (MEK)	ND		44.5	52.3		ug/Kg		118	25 - 170
2-Chlorotoluene	ND		44.5	44.1		ug/Kg		99	60 - 135
2-Hexanone	ND		44.5	56.7		ug/Kg		128	35 - 160
4-Chlorotoluene	ND		44.5	44.1		ug/Kg		99	65 - 135
4-Isopropyltoluene	ND		44.5	45.1		ug/Kg		101	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		44.5	59.1		ug/Kg		133	40 - 155
Benzene	ND		44.5	44.3		ug/Kg		100	65 - 130
Bromobenzene	ND		44.5	50.0		ug/Kg		112	65 - 140
Bromoform	ND		44.5	54.0		ug/Kg		121	50 - 145
Bromomethane	ND		44.5	30.7		ug/Kg		69	60 - 155

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	ND		44.5	39.7		ug/Kg		89	40 - 140
Carbon tetrachloride	ND		44.5	49.5		ug/Kg		111	60 - 145
Chlorobenzene	ND		44.5	43.6		ug/Kg		98	70 - 130
Chlorobromomethane	ND		44.5	48.0		ug/Kg		108	65 - 145
Chlorodibromomethane	ND		44.5	54.1		ug/Kg		122	60 - 145
Chloroethane	ND		44.5	33.8		ug/Kg		76	60 - 150
Chloroform	ND		44.5	47.5		ug/Kg		107	65 - 135
Chloromethane	ND		44.5	26.1		ug/Kg		59	40 - 145
cis-1,2-Dichloroethene	ND		44.5	45.6		ug/Kg		103	65 - 135
cis-1,3-Dichloropropene	ND		44.5	51.2		ug/Kg		115	70 - 135
Dibromomethane	ND		44.5	52.2		ug/Kg		117	65 - 140
Dichlorobromomethane	ND		44.5	51.1		ug/Kg		115	65 - 145
Dichlorodifluoromethane	ND		44.5	26.0		ug/Kg		58	30 - 160
Ethylbenzene	ND		44.5	45.0		ug/Kg		101	70 - 135
Ethylene Dibromide	ND		44.5	49.4		ug/Kg		111	65 - 140
Hexachlorobutadiene	ND		44.5	41.4		ug/Kg		93	50 - 145
Isopropylbenzene	ND		44.5	45.5		ug/Kg		102	70 - 145
Methyl tert-butyl ether	ND		44.5	49.8		ug/Kg		112	55 - 155
Methylene Chloride	ND		44.5	43.9		ug/Kg		99	55 - 145
m-Xylene & p-Xylene	ND		44.5	44.7		ug/Kg		100	70 - 130
Naphthalene	ND		44.5	45.9		ug/Kg		103	40 - 150
n-Butylbenzene	ND		44.5	43.2		ug/Kg		97	55 - 145
N-Propylbenzene	ND		44.5	46.2		ug/Kg		104	65 - 140
o-Xylene	ND		44.5	45.7		ug/Kg		103	65 - 130
sec-Butylbenzene	ND		44.5	44.6		ug/Kg		100	60 - 135
Styrene	ND		44.5	42.1		ug/Kg		95	70 - 140
tert-Butylbenzene	ND		44.5	44.5		ug/Kg		100	60 - 140
Tetrachloroethene	ND	*	44.5	51.7		ug/Kg		116	65 - 135
Toluene	ND		44.5	45.1		ug/Kg		101	70 - 130
trans-1,2-Dichloroethene	ND		44.5	44.3		ug/Kg		100	70 - 135
trans-1,3-Dichloropropene	ND		44.5	50.4		ug/Kg		113	60 - 145
Trichloroethene	ND		44.5	47.7		ug/Kg		107	65 - 140
Trichlorofluoromethane	ND		44.5	37.8		ug/Kg		85	55 - 155
Vinyl acetate	ND		44.5	33.6		ug/Kg		76	40 - 150
Vinyl chloride	ND		44.5	24.3		ug/Kg		55	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*
Toluene-d8 (Surr)	*108*		*79 - 123*

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		43.3	49.0		ug/Kg		113	65 - 145	3	20
1,1,1-Trichloroethane	ND		43.3	48.0		ug/Kg		111	65 - 145	1	20
1,1,2,2-Tetrachloroethane	ND		43.3	49.0		ug/Kg		113	40 - 160	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		43.3	42.2		ug/Kg		97	60 - 140	1	40
1,1,2-Trichloroethane	ND		43.3	51.1		ug/Kg		118	65 - 140	5	30
1,1-Dichloroethane	ND		43.3	45.6		ug/Kg		105	65 - 135	0	25
1,1-Dichloroethene	ND		43.3	44.6		ug/Kg		103	65 - 135	0	25
1,1-Dichloropropene	ND		43.3	46.8		ug/Kg		108	65 - 135	1	20
1,2,3-Trichlorobenzene	ND		43.3	42.0		ug/Kg		97	45 - 145	2	30
1,2,3-Trichloropropane	ND		43.3	51.4		ug/Kg		119	50 - 150	4	30
1,2,4-Trichlorobenzene	ND		43.3	40.9		ug/Kg		94	50 - 140	0	30
1,2,4-Trimethylbenzene	ND		43.3	45.0		ug/Kg		104	65 - 140	0	25
1,2-Dibromo-3-Chloropropane	ND		43.3	50.3		ug/Kg		116	40 - 150	7	30
1,2-Dichlorobenzene	ND		43.3	48.8		ug/Kg		113	70 - 130	1	25
1,2-Dichloroethane	ND		43.3	51.3		ug/Kg		118	60 - 150	2	25
1,2-Dichloropropane	ND		43.3	48.5		ug/Kg		112	65 - 130	3	20
1,3,5-Trimethylbenzene	ND		43.3	45.4		ug/Kg		105	65 - 135	1	25
1,3-Dichlorobenzene	ND		43.3	44.4		ug/Kg		102	70 - 130	1	25
1,3-Dichloropropane	ND		43.3	48.1		ug/Kg		111	65 - 140	4	25
1,4-Dichlorobenzene	ND		43.3	45.0		ug/Kg		104	70 - 130	3	25
2,2-Dichloropropane	ND		43.3	45.9		ug/Kg		106	65 - 150	3	25
2-Butanone (MEK)	ND		43.3	46.9		ug/Kg		108	25 - 170	11	40
2-Chlorotoluene	ND		43.3	44.2		ug/Kg		102	60 - 135	0	25
2-Hexanone	ND		43.3	51.3		ug/Kg		118	35 - 160	10	40
4-Chlorotoluene	ND		43.3	43.4		ug/Kg		100	65 - 135	2	25
4-Isopropyltoluene	ND		43.3	44.3		ug/Kg		102	60 - 140	2	25
4-Methyl-2-pentanone (MIBK)	ND		43.3	55.6		ug/Kg		128	40 - 155	6	40
Benzene	ND		43.3	43.8		ug/Kg		101	65 - 130	1	20
Bromobenzene	ND		43.3	51.2		ug/Kg		118	65 - 140	2	25
Bromoform	ND		43.3	51.0		ug/Kg		118	50 - 145	6	30
Bromomethane	ND		43.3	35.3		ug/Kg		82	60 - 155	14	25
Carbon disulfide	ND		43.3	40.2		ug/Kg		93	40 - 140	1	20
Carbon tetrachloride	ND		43.3	49.0		ug/Kg		113	60 - 145	1	25
Chlorobenzene	ND		43.3	43.0		ug/Kg		99	70 - 130	1	25
Chlorobromomethane	ND		43.3	47.4		ug/Kg		109	65 - 145	1	25
Chlorodibromomethane	ND		43.3	54.1		ug/Kg		125	60 - 145	0	25
Chloroethane	ND		43.3	36.0		ug/Kg		83	60 - 150	6	25
Chloroform	ND		43.3	46.3		ug/Kg		107	65 - 135	3	20
Chloromethane	ND		43.3	28.0		ug/Kg		65	40 - 145	7	25
cis-1,2-Dichloroethene	ND		43.3	45.7		ug/Kg		106	65 - 135	0	25
cis-1,3-Dichloropropene	ND		43.3	50.5		ug/Kg		117	70 - 135	1	25
Dibromomethane	ND		43.3	51.6		ug/Kg		119	65 - 140	1	25
Dichlorobromomethane	ND		43.3	50.9		ug/Kg		118	65 - 145	0	20
Dichlorodifluoromethane	ND		43.3	26.7		ug/Kg		62	30 - 160	3	35
Ethylbenzene	ND		43.3	43.8		ug/Kg		101	70 - 135	3	25
Ethylene Dibromide	ND		43.3	49.2		ug/Kg		114	65 - 140	0	25
Hexachlorobutadiene	ND		43.3	40.7		ug/Kg		94	50 - 145	2	35
Isopropylbenzene	ND		43.3	44.5		ug/Kg		103	70 - 145	2	25
Methyl tert-butyl ether	ND		43.3	49.6		ug/Kg		114	55 - 155	0	35
Methylene Chloride	ND		43.3	44.9		ug/Kg		104	55 - 145	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	ND		43.3	44.8		ug/Kg		103	70 - 130	0	25
Naphthalene	ND		43.3	45.5		ug/Kg		105	40 - 150	1	40
n-Butylbenzene	ND		43.3	41.8		ug/Kg		96	55 - 145	3	30
N-Propylbenzene	ND		43.3	44.4		ug/Kg		102	65 - 140	4	25
o-Xylene	ND		43.3	44.8		ug/Kg		103	65 - 130	2	25
sec-Butylbenzene	ND		43.3	43.4		ug/Kg		100	60 - 135	3	25
Styrene	ND		43.3	40.7		ug/Kg		94	70 - 140	3	25
tert-Butylbenzene	ND		43.3	44.6		ug/Kg		103	60 - 140	0	25
Tetrachloroethene	ND	*	43.3	50.0		ug/Kg		115	65 - 135	3	25
Toluene	ND		43.3	44.3		ug/Kg		102	70 - 130	2	20
trans-1,2-Dichloroethene	ND		43.3	44.7		ug/Kg		103	70 - 135	1	25
trans-1,3-Dichloropropene	ND		43.3	50.2		ug/Kg		116	60 - 145	0	25
Trichloroethene	ND		43.3	47.7		ug/Kg		110	65 - 140	0	25
Trichlorofluoromethane	ND		43.3	37.5		ug/Kg		87	55 - 155	1	25
Vinyl acetate	ND		43.3	40.0		ug/Kg		92	40 - 150	17	30
Vinyl chloride	ND		43.3	30.8		ug/Kg		71	55 - 140	23	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		42.5	48.0		ug/Kg		113	65 - 145
1,1,1-Trichloroethane	ND		42.5	46.5		ug/Kg		109	65 - 145
1,1,2,2-Tetrachloroethane	ND		42.5	64.5		ug/Kg		152	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		42.5	39.6		ug/Kg		93	60 - 140
1,1,2-Trichloroethane	ND		42.5	53.8		ug/Kg		126	65 - 140
1,1-Dichloroethane	ND		42.5	47.8		ug/Kg		112	65 - 135
1,1-Dichloroethene	ND		42.5	42.7		ug/Kg		100	65 - 135
1,1-Dichloropropene	ND		42.5	44.1		ug/Kg		104	65 - 135
1,2,3-Trichlorobenzene	ND		42.5	34.4		ug/Kg		81	45 - 145
1,2,3-Trichloropropane	ND		42.5	58.6		ug/Kg		138	50 - 150
1,2,4-Trichlorobenzene	ND		42.5	36.6		ug/Kg		86	50 - 140
1,2,4-Trimethylbenzene	ND		42.5	47.3		ug/Kg		111	65 - 140
1,2-Dibromo-3-Chloropropane	ND	F1	42.5	65.7	F1	ug/Kg		155	40 - 150
1,2-Dichlorobenzene	ND		42.5	46.8		ug/Kg		110	70 - 130
1,2-Dichloroethane	ND		42.5	56.8		ug/Kg		133	60 - 150
1,2-Dichloropropane	ND		42.5	52.5		ug/Kg		123	65 - 130
1,3,5-Trimethylbenzene	ND		42.5	47.8		ug/Kg		112	65 - 135
1,3-Dichlorobenzene	ND		42.5	44.7		ug/Kg		105	70 - 130
1,3-Dichloropropane	ND		42.5	49.3		ug/Kg		116	65 - 140
1,4-Dichlorobenzene	ND		42.5	45.3		ug/Kg		106	70 - 130
2,2-Dichloropropane	ND		42.5	47.2		ug/Kg		111	65 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	ND		42.5	50.9		ug/Kg		120	25 - 170
2-Chlorotoluene	ND		42.5	49.5		ug/Kg		116	60 - 135
2-Hexanone	ND		42.5	64.2		ug/Kg		151	35 - 160
4-Chlorotoluene	ND		42.5	47.6		ug/Kg		112	65 - 135
4-Isopropyltoluene	ND		42.5	43.3		ug/Kg		102	60 - 140
4-Methyl-2-pentanone (MIBK)	ND	F1	42.5	68.1	F1	ug/Kg		160	40 - 155
Benzene	ND		42.5	45.3		ug/Kg		106	65 - 130
Bromobenzene	ND		42.5	51.5		ug/Kg		121	65 - 140
Bromoform	ND		42.5	53.7		ug/Kg		126	50 - 145
Bromomethane	ND		42.5	33.4		ug/Kg		78	60 - 155
Carbon disulfide	ND		42.5	37.9		ug/Kg		89	40 - 140
Carbon tetrachloride	ND		42.5	44.8		ug/Kg		105	60 - 145
Chlorobenzene	ND		42.5	44.6		ug/Kg		105	70 - 130
Chlorobromomethane	ND		42.5	48.8		ug/Kg		115	65 - 145
Chlorodibromomethane	ND		42.5	51.0		ug/Kg		120	60 - 145
Chloroethane	ND		42.5	36.2		ug/Kg		85	60 - 150
Chloroform	ND		42.5	46.6		ug/Kg		110	65 - 135
Chloromethane	ND		42.5	29.3		ug/Kg		69	40 - 145
cis-1,2-Dichloroethene	ND		42.5	46.9		ug/Kg		110	65 - 135
cis-1,3-Dichloropropene	ND		42.5	54.2		ug/Kg		127	70 - 135
Dibromomethane	ND		42.5	51.7		ug/Kg		122	65 - 140
Dichlorobromomethane	ND		42.5	49.7		ug/Kg		117	65 - 145
Dichlorodifluoromethane	ND		42.5	23.3		ug/Kg		55	30 - 160
Ethylbenzene	ND		42.5	42.3		ug/Kg		100	70 - 135
Ethylene Dibromide	ND		42.5	50.8		ug/Kg		119	65 - 140
Hexachlorobutadiene	ND		42.5	30.3		ug/Kg		71	50 - 145
Isopropylbenzene	ND		42.5	41.9		ug/Kg		98	70 - 145
Methyl tert-butyl ether	ND		42.5	52.2		ug/Kg		123	55 - 155
Methylene Chloride	ND		42.5	41.3		ug/Kg		97	55 - 145
m-Xylene & p-Xylene	ND		42.5	42.8		ug/Kg		101	70 - 130
Naphthalene	ND		42.5	44.7		ug/Kg		105	40 - 150
n-Butylbenzene	ND		42.5	41.1		ug/Kg		97	55 - 145
N-Propylbenzene	ND		42.5	49.8		ug/Kg		117	65 - 140
o-Xylene	ND		42.5	43.8		ug/Kg		103	65 - 130
sec-Butylbenzene	ND		42.5	44.2		ug/Kg		104	60 - 135
Styrene	ND		42.5	42.4		ug/Kg		100	70 - 140
tert-Butylbenzene	ND		42.5	46.8		ug/Kg		110	60 - 140
Tetrachloroethene	ND		42.5	42.7		ug/Kg		100	65 - 135
Toluene	ND		42.5	44.8		ug/Kg		105	70 - 130
trans-1,2-Dichloroethene	ND		42.5	46.1		ug/Kg		108	70 - 135
trans-1,3-Dichloropropene	ND		42.5	52.1		ug/Kg		123	60 - 145
Trichloroethene	ND		42.5	45.0		ug/Kg		106	65 - 140
Trichlorofluoromethane	ND		42.5	35.5		ug/Kg		84	55 - 155
Vinyl acetate	ND		42.5	25.6		ug/Kg		60	40 - 150
Vinyl chloride	ND		42.5	27.5		ug/Kg		65	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 518692

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	103		79 - 123

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		45.1	49.8		ug/Kg		110	65 - 145	4	20
1,1,1-Trichloroethane	ND		45.1	48.6		ug/Kg		108	65 - 145	4	20
1,1,2,2-Tetrachloroethane	ND		45.1	68.8		ug/Kg		153	40 - 160	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		45.1	43.4		ug/Kg		96	60 - 140	9	40
1,1,2-Trichloroethane	ND		45.1	55.2		ug/Kg		122	65 - 140	3	30
1,1-Dichloroethane	ND		45.1	49.8		ug/Kg		110	65 - 135	4	25
1,1-Dichloroethene	ND		45.1	45.5		ug/Kg		101	65 - 135	6	25
1,1-Dichloropropene	ND		45.1	45.8		ug/Kg		102	65 - 135	4	20
1,2,3-Trichlorobenzene	ND		45.1	38.4		ug/Kg		85	45 - 145	11	30
1,2,3-Trichloropropane	ND		45.1	63.9		ug/Kg		142	50 - 150	9	30
1,2,4-Trichlorobenzene	ND		45.1	39.6		ug/Kg		88	50 - 140	8	30
1,2,4-Trimethylbenzene	ND		45.1	52.5		ug/Kg		116	65 - 140	10	25
1,2-Dibromo-3-Chloropropane	ND	F1	45.1	67.1		ug/Kg		149	40 - 150	2	30
1,2-Dichlorobenzene	ND		45.1	51.7		ug/Kg		114	70 - 130	10	25
1,2-Dichloroethane	ND		45.1	56.9		ug/Kg		126	60 - 150	0	25
1,2-Dichloropropane	ND		45.1	54.4		ug/Kg		121	65 - 130	4	20
1,3,5-Trimethylbenzene	ND		45.1	52.4		ug/Kg		116	65 - 135	9	25
1,3-Dichlorobenzene	ND		45.1	47.9		ug/Kg		106	70 - 130	7	25
1,3-Dichloropropane	ND		45.1	50.4		ug/Kg		112	65 - 140	2	25
1,4-Dichlorobenzene	ND		45.1	47.6		ug/Kg		106	70 - 130	5	25
2,2-Dichloropropane	ND		45.1	49.0		ug/Kg		109	65 - 150	4	25
2-Butanone (MEK)	ND		45.1	50.6		ug/Kg		112	25 - 170	1	40
2-Chlorotoluene	ND		45.1	53.9		ug/Kg		119	60 - 135	9	25
2-Hexanone	ND		45.1	62.8		ug/Kg		139	35 - 160	2	40
4-Chlorotoluene	ND		45.1	51.5		ug/Kg		114	65 - 135	8	25
4-Isopropyltoluene	ND		45.1	47.9		ug/Kg		106	60 - 140	10	25
4-Methyl-2-pentanone (MIBK)	ND	F1	45.1	67.2		ug/Kg		149	40 - 155	1	40
Benzene	ND		45.1	47.1		ug/Kg		104	65 - 130	4	20
Bromobenzene	ND		45.1	55.4		ug/Kg		123	65 - 140	7	25
Bromoform	ND		45.1	53.3		ug/Kg		118	50 - 145	1	30
Bromomethane	ND		45.1	34.6		ug/Kg		77	60 - 155	4	25
Carbon disulfide	ND		45.1	38.8		ug/Kg		86	40 - 140	2	20
Carbon tetrachloride	ND		45.1	47.7		ug/Kg		106	60 - 145	6	25
Chlorobenzene	ND		45.1	45.3		ug/Kg		100	70 - 130	2	25
Chlorobromomethane	ND		45.1	50.0		ug/Kg		111	65 - 145	2	25
Chlorodibromomethane	ND		45.1	52.4		ug/Kg		116	60 - 145	3	25
Chloroethane	ND		45.1	37.4		ug/Kg		83	60 - 150	3	25
Chloroform	ND		45.1	47.4		ug/Kg		105	65 - 135	2	20
Chloromethane	ND		45.1	30.4		ug/Kg		67	40 - 145	4	25
cis-1,2-Dichloroethene	ND		45.1	48.3		ug/Kg		107	65 - 135	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND		45.1	54.7		ug/Kg		121	70 - 135	1	25
Dibromomethane	ND		45.1	53.1		ug/Kg		118	65 - 140	3	25
Dichlorobromomethane	ND		45.1	52.3		ug/Kg		116	65 - 145	5	20
Dichlorodifluoromethane	ND		45.1	24.9		ug/Kg		55	30 - 160	7	35
Ethylbenzene	ND		45.1	43.2		ug/Kg		96	70 - 135	2	25
Ethylene Dibromide	ND		45.1	51.2		ug/Kg		113	65 - 140	1	25
Hexachlorobutadiene	ND		45.1	31.6		ug/Kg		70	50 - 145	4	35
Isopropylbenzene	ND		45.1	43.0		ug/Kg		95	70 - 145	3	25
Methyl tert-butyl ether	ND		45.1	52.8		ug/Kg		117	55 - 155	1	35
Methylene Chloride	ND		45.1	43.7		ug/Kg		97	55 - 145	6	25
m-Xylene & p-Xylene	ND		45.1	43.1		ug/Kg		95	70 - 130	1	25
Naphthalene	ND		45.1	49.0		ug/Kg		109	40 - 150	9	40
n-Butylbenzene	ND		45.1	43.7		ug/Kg		97	55 - 145	6	30
N-Propylbenzene	ND		45.1	54.3		ug/Kg		120	65 - 140	9	25
o-Xylene	ND		45.1	45.3		ug/Kg		100	65 - 130	3	25
sec-Butylbenzene	ND		45.1	49.6		ug/Kg		110	60 - 135	11	25
Styrene	ND		45.1	42.9		ug/Kg		95	70 - 140	1	25
tert-Butylbenzene	ND		45.1	53.2		ug/Kg		118	60 - 140	13	25
Tetrachloroethene	ND		45.1	43.8		ug/Kg		97	65 - 135	3	25
Toluene	ND		45.1	45.6		ug/Kg		101	70 - 130	2	20
trans-1,2-Dichloroethene	ND		45.1	47.2		ug/Kg		105	70 - 135	2	25
trans-1,3-Dichloropropene	ND		45.1	53.0		ug/Kg		118	60 - 145	2	25
Trichloroethene	ND		45.1	45.8		ug/Kg		102	65 - 140	2	25
Trichlorofluoromethane	ND		45.1	37.5		ug/Kg		83	55 - 155	5	25
Vinyl acetate	ND		45.1	25.8		ug/Kg		57	40 - 150	1	30
Vinyl chloride	ND		45.1	29.2		ug/Kg		65	55 - 140	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: MB 440-518870/4
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/22/18 09:46	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/22/18 09:46	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/22/18 09:46	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/22/18 09:46	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518870/4
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/22/18 09:46	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/22/18 09:46	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
2-Hexanone	ND		10	5.0	ug/Kg			12/22/18 09:46	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/22/18 09:46	1
Benzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Bromoform	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/22/18 09:46	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Chloroform	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/22/18 09:46	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Styrene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Toluene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518870/4
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/22/18 09:46	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/22/18 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/22/18 09:46*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*12/22/18 09:46*	*1*

Lab Sample ID: LCS 440-518870/5
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	59.8		ug/Kg		120	70 - 130
1,1,1-Trichloroethane	50.0	59.6		ug/Kg		119	65 - 135
1,1,2,2-Tetrachloroethane	50.0	61.6		ug/Kg		123	55 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.3		ug/Kg		107	60 - 140
1,1,2-Trichloroethane	50.0	59.5		ug/Kg		119	65 - 135
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 130
1,1-Dichloroethene	50.0	53.5		ug/Kg		107	70 - 125
1,1-Dichloropropene	50.0	57.8		ug/Kg		116	70 - 130
1,2,3-Trichlorobenzene	50.0	61.7		ug/Kg		123	60 - 130
1,2,3-Trichloropropane	50.0	65.7		ug/Kg		131	60 - 135
1,2,4-Trichlorobenzene	50.0	60.9		ug/Kg		122	70 - 135
1,2,4-Trimethylbenzene	50.0	57.3		ug/Kg		115	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	60.9		ug/Kg		122	50 - 135
1,2-Dichlorobenzene	50.0	59.3		ug/Kg		119	75 - 120
1,2-Dichloroethane	50.0	53.7		ug/Kg		107	60 - 140
1,2-Dichloropropane	50.0	58.7		ug/Kg		117	70 - 130
1,3,5-Trimethylbenzene	50.0	57.5		ug/Kg		115	70 - 125
1,3-Dichlorobenzene	50.0	56.4		ug/Kg		113	75 - 125
1,3-Dichloropropane	50.0	55.7		ug/Kg		111	70 - 125
1,4-Dichlorobenzene	50.0	57.7		ug/Kg		115	75 - 120
2,2-Dichloropropane	50.0	54.4		ug/Kg		109	60 - 145
2-Butanone (MEK)	50.0	69.3		ug/Kg		139	40 - 145
2-Chlorotoluene	50.0	57.6		ug/Kg		115	70 - 125
2-Hexanone	50.0	49.3		ug/Kg		99	40 - 150
4-Chlorotoluene	50.0	58.3		ug/Kg		117	75 - 125
4-Isopropyltoluene	50.0	57.6		ug/Kg		115	75 - 125
4-Methyl-2-pentanone (MIBK)	50.0	46.1		ug/Kg		92	40 - 145
Benzene	50.0	57.7		ug/Kg		115	65 - 120
Bromobenzene	50.0	61.3	*	ug/Kg		123	75 - 120
Bromoform	50.0	60.6		ug/Kg		121	55 - 135
Bromomethane	50.0	45.4		ug/Kg		91	60 - 145
Carbon disulfide	50.0	51.5		ug/Kg		103	50 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518870/5
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	58.0		ug/Kg		116	65 - 140
Chlorobenzene	50.0	55.2		ug/Kg		110	75 - 120
Chlorobromomethane	50.0	61.8		ug/Kg		124	70 - 135
Chlorodibromomethane	50.0	57.5		ug/Kg		115	65 - 140
Chloroethane	50.0	42.3		ug/Kg		85	60 - 140
Chloroform	50.0	59.2		ug/Kg		118	70 - 130
Chloromethane	50.0	27.6		ug/Kg		55	45 - 145
cis-1,2-Dichloroethene	50.0	60.4		ug/Kg		121	70 - 125
cis-1,3-Dichloropropene	50.0	58.9		ug/Kg		118	75 - 125
Dibromomethane	50.0	59.0		ug/Kg		118	70 - 130
Dichlorobromomethane	50.0	59.4		ug/Kg		119	70 - 135
Dichlorodifluoromethane	50.0	29.1		ug/Kg		58	35 - 160
Ethylbenzene	50.0	54.4		ug/Kg		109	70 - 125
Ethylene Dibromide	50.0	60.9		ug/Kg		122	70 - 130
Hexachlorobutadiene	50.0	58.3		ug/Kg		117	60 - 135
Isopropylbenzene	50.0	56.8		ug/Kg		114	75 - 130
Methyl tert-butyl ether	50.0	60.5		ug/Kg		121	60 - 140
Methylene Chloride	50.0	56.8		ug/Kg		114	55 - 135
m-Xylene & p-Xylene	50.0	55.6		ug/Kg		111	70 - 125
Naphthalene	50.0	62.2		ug/Kg		124	55 - 135
n-Butylbenzene	50.0	56.5		ug/Kg		113	70 - 130
N-Propylbenzene	50.0	58.4		ug/Kg		117	70 - 130
o-Xylene	50.0	56.5		ug/Kg		113	70 - 125
sec-Butylbenzene	50.0	58.8		ug/Kg		118	70 - 125
Styrene	50.0	55.4		ug/Kg		111	75 - 130
tert-Butylbenzene	50.0	58.8		ug/Kg		118	70 - 125
Tetrachloroethene	50.0	53.4		ug/Kg		107	70 - 125
Toluene	50.0	56.8		ug/Kg		114	70 - 125
trans-1,2-Dichloroethene	50.0	59.9		ug/Kg		120	70 - 125
trans-1,3-Dichloropropene	50.0	56.9		ug/Kg		114	70 - 135
Trichloroethene	50.0	61.0		ug/Kg		122	70 - 125
Trichlorofluoromethane	50.0	43.0		ug/Kg		86	60 - 145
Vinyl acetate	50.0	51.1		ug/Kg		102	45 - 145
Vinyl chloride	50.0	34.7		ug/Kg		69	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: 720-90446-A-1-E MS
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		39.7	51.2		ug/Kg		129	65 - 145
1,1,1-Trichloroethane	ND		39.7	46.3		ug/Kg		117	65 - 145
1,1,2,2-Tetrachloroethane	ND		39.7	49.6		ug/Kg		125	40 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-A-1-E MS
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		39.7	44.0		ug/Kg		111	60 - 140
1,1,2-Trichloroethane	ND		39.7	48.6		ug/Kg		123	65 - 140
1,1-Dichloroethane	ND		39.7	40.3		ug/Kg		102	65 - 135
1,1-Dichloroethene	ND		39.7	40.7		ug/Kg		103	65 - 135
1,1-Dichloropropene	ND		39.7	45.8		ug/Kg		115	65 - 135
1,2,3-Trichlorobenzene	ND		39.7	47.1		ug/Kg		119	45 - 145
1,2,3-Trichloropropane	ND		39.7	50.6		ug/Kg		128	50 - 150
1,2,4-Trichlorobenzene	ND		39.7	46.7		ug/Kg		118	50 - 140
1,2,4-Trimethylbenzene	ND		39.7	44.9		ug/Kg		113	65 - 140
1,2-Dibromo-3-Chloropropane	ND		39.7	46.8		ug/Kg		118	40 - 150
1,2-Dichlorobenzene	ND		39.7	46.3		ug/Kg		117	70 - 130
1,2-Dichloroethane	ND		39.7	42.9		ug/Kg		108	60 - 150
1,2-Dichloropropane	ND		39.7	46.3		ug/Kg		117	65 - 130
1,3,5-Trimethylbenzene	ND		39.7	46.2		ug/Kg		116	65 - 135
1,3-Dichlorobenzene	ND		39.7	45.3		ug/Kg		114	70 - 130
1,3-Dichloropropane	ND		39.7	46.6		ug/Kg		117	65 - 140
1,4-Dichlorobenzene	ND		39.7	45.8		ug/Kg		115	70 - 130
2,2-Dichloropropane	ND		39.7	42.4		ug/Kg		107	65 - 150
2-Butanone (MEK)	ND		39.7	49.1		ug/Kg		124	25 - 170
2-Chlorotoluene	ND		39.7	45.7		ug/Kg		115	60 - 135
2-Hexanone	ND		39.7	39.5		ug/Kg		100	35 - 160
4-Chlorotoluene	ND		39.7	45.8		ug/Kg		116	65 - 135
4-Isopropyltoluene	ND		39.7	45.9		ug/Kg		116	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		39.7	37.3		ug/Kg		94	40 - 155
Benzene	ND		39.7	44.0		ug/Kg		111	65 - 130
Bromobenzene	ND	*	39.7	49.0		ug/Kg		123	65 - 140
Bromoform	ND		39.7	49.6		ug/Kg		125	50 - 145
Bromomethane	ND		39.7	35.1		ug/Kg		89	60 - 155
Carbon disulfide	ND		39.7	40.5		ug/Kg		102	40 - 140
Carbon tetrachloride	ND		39.7	45.3		ug/Kg		114	60 - 145
Chlorobenzene	ND		39.7	45.5		ug/Kg		115	70 - 130
Chlorobromomethane	ND		39.7	47.4		ug/Kg		119	65 - 145
Chlorodibromomethane	ND		39.7	47.6		ug/Kg		120	60 - 145
Chloroethane	ND		39.7	33.3		ug/Kg		84	60 - 150
Chloroform	ND		39.7	46.2		ug/Kg		116	65 - 135
Chloromethane	ND		39.7	19.9		ug/Kg		50	40 - 145
cis-1,2-Dichloroethene	ND		39.7	45.8		ug/Kg		116	65 - 135
cis-1,3-Dichloropropene	ND		39.7	49.1		ug/Kg		124	70 - 135
Dibromomethane	ND		39.7	45.6		ug/Kg		115	65 - 140
Dichlorobromomethane	ND		39.7	45.0		ug/Kg		113	65 - 145
Dichlorodifluoromethane	ND		39.7	23.5		ug/Kg		59	30 - 160
Ethylbenzene	ND		39.7	44.6		ug/Kg		113	70 - 135
Ethylene Dibromide	ND		39.7	49.7		ug/Kg		125	65 - 140
Hexachlorobutadiene	ND		39.7	41.9		ug/Kg		106	50 - 145
Isopropylbenzene	ND		39.7	47.1		ug/Kg		119	70 - 145
Methyl tert-butyl ether	ND		39.7	45.7		ug/Kg		115	55 - 155
Methylene Chloride	ND		39.7	44.1		ug/Kg		111	55 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-A-1-E MS
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	ND		39.7	46.6		ug/Kg		117	70 - 130
Naphthalene	ND		39.7	48.9		ug/Kg		123	40 - 150
n-Butylbenzene	ND		39.7	44.5		ug/Kg		112	55 - 145
N-Propylbenzene	ND		39.7	45.9		ug/Kg		116	65 - 140
o-Xylene	ND		39.7	46.6		ug/Kg		117	65 - 130
sec-Butylbenzene	ND		39.7	45.5		ug/Kg		115	60 - 135
Styrene	ND		39.7	44.6		ug/Kg		112	70 - 140
tert-Butylbenzene	ND		39.7	45.0		ug/Kg		113	60 - 140
Tetrachloroethene	ND		39.7	45.1		ug/Kg		114	65 - 135
Toluene	ND		39.7	47.0		ug/Kg		118	70 - 130
trans-1,2-Dichloroethene	ND		39.7	46.3		ug/Kg		117	70 - 135
trans-1,3-Dichloropropene	ND		39.7	48.2		ug/Kg		121	60 - 145
Trichloroethene	ND		39.7	47.2		ug/Kg		119	65 - 140
Trichlorofluoromethane	ND		39.7	34.2		ug/Kg		86	55 - 155
Vinyl acetate	ND	F1 F2	39.7	23.7		ug/Kg		60	40 - 150
Vinyl chloride	ND		39.7	27.8		ug/Kg		70	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: 720-90446-A-1-F MSD
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		45.4	53.3		ug/Kg		118	65 - 145	4	20
1,1,1-Trichloroethane	ND		45.4	50.8		ug/Kg		112	65 - 145	9	20
1,1,2,2-Tetrachloroethane	ND		45.4	54.9		ug/Kg		121	40 - 160	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		45.4	47.1		ug/Kg		104	60 - 140	7	40
1,1,2-Trichloroethane	ND		45.4	52.3		ug/Kg		115	65 - 140	7	30
1,1-Dichloroethane	ND		45.4	43.8		ug/Kg		97	65 - 135	8	25
1,1-Dichloroethene	ND		45.4	44.7		ug/Kg		98	65 - 135	9	25
1,1-Dichloropropene	ND		45.4	50.9		ug/Kg		112	65 - 135	11	20
1,2,3-Trichlorobenzene	ND		45.4	49.8		ug/Kg		110	45 - 145	6	30
1,2,3-Trichloropropane	ND		45.4	56.8		ug/Kg		125	50 - 150	12	30
1,2,4-Trichlorobenzene	ND		45.4	50.4		ug/Kg		111	50 - 140	8	30
1,2,4-Trimethylbenzene	ND		45.4	51.9		ug/Kg		114	65 - 140	15	25
1,2-Dibromo-3-Chloropropane	ND		45.4	48.4		ug/Kg		107	40 - 150	3	30
1,2-Dichlorobenzene	ND		45.4	51.9		ug/Kg		114	70 - 130	11	25
1,2-Dichloroethane	ND		45.4	45.8		ug/Kg		101	60 - 150	7	25
1,2-Dichloropropane	ND		45.4	49.6		ug/Kg		109	65 - 130	7	20
1,3,5-Trimethylbenzene	ND		45.4	52.0		ug/Kg		115	65 - 135	12	25
1,3-Dichlorobenzene	ND		45.4	52.5		ug/Kg		116	70 - 130	15	25
1,3-Dichloropropane	ND		45.4	50.7		ug/Kg		112	65 - 140	9	25
1,4-Dichlorobenzene	ND		45.4	52.3		ug/Kg		115	70 - 130	13	25
2,2-Dichloropropane	ND		45.4	46.8		ug/Kg		103	65 - 150	10	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-A-1-F MSD
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	ND		45.4	55.7		ug/Kg		123	25 - 170	12	40
2-Chlorotoluene	ND		45.4	52.1		ug/Kg		115	60 - 135	13	25
2-Hexanone	ND		45.4	40.9		ug/Kg		90	35 - 160	4	40
4-Chlorotoluene	ND		45.4	52.1		ug/Kg		115	65 - 135	13	25
4-Isopropyltoluene	ND		45.4	53.4		ug/Kg		118	60 - 140	15	25
4-Methyl-2-pentanone (MIBK)	ND		45.4	39.8		ug/Kg		88	40 - 155	6	40
Benzene	ND		45.4	48.5		ug/Kg		107	65 - 130	10	20
Bromobenzene	ND	*	45.4	54.9		ug/Kg		121	65 - 140	11	25
Bromoform	ND		45.4	54.5		ug/Kg		120	50 - 145	9	30
Bromomethane	ND		45.4	39.6		ug/Kg		87	60 - 155	12	25
Carbon disulfide	ND		45.4	42.5		ug/Kg		94	40 - 140	5	20
Carbon tetrachloride	ND		45.4	48.9		ug/Kg		108	60 - 145	8	25
Chlorobenzene	ND		45.4	49.2		ug/Kg		108	70 - 130	8	25
Chlorobromomethane	ND		45.4	52.2		ug/Kg		115	65 - 145	10	25
Chlorodibromomethane	ND		45.4	50.8		ug/Kg		112	60 - 145	7	25
Chloroethane	ND		45.4	35.5		ug/Kg		78	60 - 150	6	25
Chloroform	ND		45.4	49.5		ug/Kg		109	65 - 135	7	20
Chloromethane	ND		45.4	22.0		ug/Kg		48	40 - 145	10	25
cis-1,2-Dichloroethene	ND		45.4	48.5		ug/Kg		107	65 - 135	6	25
cis-1,3-Dichloropropene	ND		45.4	52.3		ug/Kg		115	70 - 135	6	25
Dibromomethane	ND		45.4	50.0		ug/Kg		110	65 - 140	9	25
Dichlorobromomethane	ND		45.4	48.9		ug/Kg		108	65 - 145	8	20
Dichlorodifluoromethane	ND		45.4	25.3		ug/Kg		56	30 - 160	8	35
Ethylbenzene	ND		45.4	48.6		ug/Kg		107	70 - 135	8	25
Ethylene Dibromide	ND		45.4	53.3		ug/Kg		117	65 - 140	7	25
Hexachlorobutadiene	ND		45.4	49.5		ug/Kg		109	50 - 145	17	35
Isopropylbenzene	ND		45.4	50.3		ug/Kg		111	70 - 145	7	25
Methyl tert-butyl ether	ND		45.4	51.6		ug/Kg		114	55 - 155	12	35
Methylene Chloride	ND		45.4	48.4		ug/Kg		107	55 - 145	9	25
m-Xylene & p-Xylene	ND		45.4	49.3		ug/Kg		109	70 - 130	6	25
Naphthalene	ND		45.4	52.9		ug/Kg		117	40 - 150	8	40
n-Butylbenzene	ND		45.4	50.4		ug/Kg		111	55 - 145	12	30
N-Propylbenzene	ND		45.4	52.6		ug/Kg		116	65 - 140	14	25
o-Xylene	ND		45.4	49.4		ug/Kg		109	65 - 130	6	25
sec-Butylbenzene	ND		45.4	52.7		ug/Kg		116	60 - 135	15	25
Styrene	ND		45.4	47.9		ug/Kg		105	70 - 140	7	25
tert-Butylbenzene	ND		45.4	52.6		ug/Kg		116	60 - 140	15	25
Tetrachloroethene	ND		45.4	48.0		ug/Kg		106	65 - 135	6	25
Toluene	ND		45.4	50.0		ug/Kg		110	70 - 130	6	20
trans-1,2-Dichloroethene	ND		45.4	50.0		ug/Kg		110	70 - 135	8	25
trans-1,3-Dichloropropene	ND		45.4	50.0		ug/Kg		110	60 - 145	4	25
Trichloroethene	ND		45.4	52.2		ug/Kg		115	65 - 140	10	25
Trichlorofluoromethane	ND		45.4	36.7		ug/Kg		81	55 - 155	7	25
Vinyl acetate	ND	F1 F2	45.4	14.8	F1 F4	ug/Kg		33	40 - 150	46	30
Vinyl chloride	ND		45.4	28.7		ug/Kg		63	55 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-A-1-F MSD
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518913

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-518647/4
Matrix: Solid
Analysis Batch: 518647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/21/18 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*		*12/21/18 08:57*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*12/21/18 08:57*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*		*12/21/18 08:57*	*1*

Lab Sample ID: LCS 440-518647/6
Matrix: Solid
Analysis Batch: 518647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	762		ug/Kg		76	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: MB 440-518652/4
Matrix: Solid
Analysis Batch: 518652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/21/18 08:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*		*12/21/18 08:48*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*		*12/21/18 08:48*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*		*12/21/18 08:48*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-518652/6
Matrix: Solid
Analysis Batch: 518652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	763		ug/Kg		76	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*60 - 120*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Toluene-d8 (Surr)	*111*		*79 - 123*

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 518652

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		3070	2920		ug/Kg		95	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*108*		*79 - 123*

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 518652

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		2990	2890		ug/Kg		97	55 - 140	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 518647

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2930	2690		ug/Kg		92	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*60 - 120*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 518647

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3110	2720		ug/Kg		87	55 - 140	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*60 - 120*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: MB 440-518871/4
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/22/18 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*12/22/18 09:46*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*12/22/18 09:46*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*12/22/18 09:46*	*1*

Lab Sample ID: LCS 440-518871/6
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	827		ug/Kg		83	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: 720-90446-A-1-E MS
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2740	2740		ug/Kg		100	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90446-A-1-F MSD
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3130	2990		ug/Kg		96	55 - 140	9	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*
Toluene-d8 (Surr)	*102*		*79 - 123*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-257381/1-A
Matrix: Solid
Analysis Batch: 257669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257381

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Anthracene	ND		5.0	2.0	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[b]fluoranthene	2.18	J	5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Chrysene	ND		5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Fluorene	ND		5.0	2.2	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Pyrene	ND		5.0	1.7	ug/Kg		12/20/18 16:21	12/27/18 16:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*12/20/18 16:21*	*12/27/18 16:11*	*1*
Terphenyl-d14	*94*		*35 - 146*	*12/20/18 16:21*	*12/27/18 16:11*	*1*

Lab Sample ID: LCS 720-257381/2-A
Matrix: Solid
Analysis Batch: 257669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	454		ug/Kg		68	46 - 110
Acenaphthene	667	459		ug/Kg		69	46 - 106
Acenaphthylene	667	507		ug/Kg		76	46 - 108
Anthracene	667	489		ug/Kg		73	55 - 103
Benzo[a]anthracene	667	543		ug/Kg		81	54 - 110

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-257381/2-A
Matrix: Solid
Analysis Batch: 257669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	667	549		ug/Kg		82	62 - 111
Benzo[b]fluoranthene	667	529		ug/Kg		79	60 - 109
Benzo[g,h,i]perylene	667	455		ug/Kg		68	52 - 114
Benzo[k]fluoranthene	667	501		ug/Kg		75	58 - 109
Chrysene	667	498		ug/Kg		75	54 - 108
Dibenz(a,h)anthracene	667	499		ug/Kg		75	58 - 112
Fluoranthene	667	542		ug/Kg		81	59 - 109
Fluorene	667	483		ug/Kg		72	52 - 106
Indeno[1,2,3-cd]pyrene	667	518		ug/Kg		78	55 - 120
Naphthalene	667	444		ug/Kg		67	49 - 110
Phenanthrene	667	462		ug/Kg		69	57 - 110
Pyrene	667	548		ug/Kg		82	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*33 - 120*
Terphenyl-d14	*90*		*35 - 146*

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	83		665	527		ug/Kg		67	46 - 110
Acenaphthene	ND		665	448		ug/Kg		67	46 - 106
Acenaphthylene	100		665	637		ug/Kg		80	46 - 108
Anthracene	110		665	631		ug/Kg		78	55 - 103
Benzo[a]anthracene	140		665	762		ug/Kg		94	54 - 110
Benzo[a]pyrene	250		665	843		ug/Kg		90	62 - 111
Benzo[b]fluoranthene	360	B	665	999		ug/Kg		96	60 - 109
Benzo[g,h,i]perylene	170	F1	665	453	F1	ug/Kg		43	52 - 114
Benzo[k]fluoranthene	100		665	799		ug/Kg		105	58 - 109
Chrysene	240		665	884		ug/Kg		97	54 - 108
Dibenz(a,h)anthracene	50	F1	665	398	F1	ug/Kg		52	58 - 112
Fluoranthene	200	F1 F2	665	1030	F1	ug/Kg		124	59 - 109
Fluorene	12	J	665	521		ug/Kg		77	52 - 106
Indeno[1,2,3-cd]pyrene	130	F1	665	510		ug/Kg		56	55 - 120
Naphthalene	78		665	499		ug/Kg		63	49 - 110
Phenanthrene	130		665	694		ug/Kg		84	57 - 110
Pyrene	400	F1 F2	665	1440	F1	ug/Kg		156	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*33 - 120*
Terphenyl-d14	*98*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	83		662	486		ug/Kg		61	46 - 110	8	35
Acenaphthene	ND		662	418		ug/Kg		63	46 - 106	7	35
Acenaphthylene	100		662	652		ug/Kg		83	46 - 108	2	35
Anthracene	110		662	615		ug/Kg		76	55 - 103	3	35
Benzo[a]anthracene	140		662	630		ug/Kg		74	54 - 110	19	35
Benzo[a]pyrene	250		662	775		ug/Kg		80	62 - 111	8	35
Benzo[b]fluoranthene	360	B	662	859		ug/Kg		75	60 - 109	15	35
Benzo[g,h,i]perylene	170	F1	662	388	F1	ug/Kg		33	52 - 114	15	35
Benzo[k]fluoranthene	100		662	761		ug/Kg		99	58 - 109	5	35
Chrysene	240		662	701		ug/Kg		69	54 - 108	23	35
Dibenz(a,h)anthracene	50	F1	662	338	F1	ug/Kg		44	58 - 112	16	35
Fluoranthene	200	F1 F2	662	685	F2	ug/Kg		73	59 - 109	40	35
Fluorene	12	J	662	490		ug/Kg		72	52 - 106	6	35
Indeno[1,2,3-cd]pyrene	130	F1	662	440	F1	ug/Kg		46	55 - 120	15	35
Naphthalene	78		662	462		ug/Kg		58	49 - 110	8	35
Phenanthrene	130		662	536		ug/Kg		61	57 - 110	26	35
Pyrene	400	F1 F2	662	984	F2	ug/Kg		88	50 - 120	38	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*33 - 120*
Terphenyl-d14	*93*		*35 - 146*

Lab Sample ID: MB 720-257530/1-A
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Anthracene	ND		5.0	2.0	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Benzo[b]fluoranthene	2.18	J	5.0	2.1	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Chrysene	ND		5.0	1.4	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Fluorene	ND		5.0	2.2	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Pyrene	ND		5.0	1.7	ug/Kg		12/24/18 10:19	12/27/18 00:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*12/24/18 10:19*	*12/27/18 00:01*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-257530/1-A
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257530

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	85		35 - 146	12/24/18 10:19	12/27/18 00:01	1

Lab Sample ID: LCS 720-257530/2-A
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	427		ug/Kg		64	46 - 110
Acenaphthene	667	430		ug/Kg		65	46 - 106
Acenaphthylene	667	457		ug/Kg		69	46 - 108
Anthracene	667	480		ug/Kg		72	55 - 103
Benzo[a]anthracene	667	539		ug/Kg		81	54 - 110
Benzo[a]pyrene	667	542		ug/Kg		81	62 - 111
Benzo[b]fluoranthene	667	528		ug/Kg		79	60 - 109
Benzo[g,h,i]perylene	667	505		ug/Kg		76	52 - 114
Benzo[k]fluoranthene	667	498		ug/Kg		75	58 - 109
Chrysene	667	498		ug/Kg		75	54 - 108
Dibenz(a,h)anthracene	667	515		ug/Kg		77	58 - 112
Fluoranthene	667	528		ug/Kg		79	59 - 109
Fluorene	667	457		ug/Kg		69	52 - 106
Indeno[1,2,3-cd]pyrene	667	551		ug/Kg		83	55 - 120
Naphthalene	667	415		ug/Kg		62	49 - 110
Phenanthrene	667	463		ug/Kg		69	57 - 110
Pyrene	667	553		ug/Kg		83	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	66		33 - 120
Terphenyl-d14	91		35 - 146

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		662	417		ug/Kg		63	46 - 110
Acenaphthene	ND		662	428		ug/Kg		65	46 - 106
Acenaphthylene	ND		662	456		ug/Kg		69	46 - 108
Anthracene	ND		662	459		ug/Kg		69	55 - 103
Benzo[a]anthracene	20		662	529		ug/Kg		77	54 - 110
Benzo[a]pyrene	3.1	J	662	516		ug/Kg		78	62 - 111
Benzo[b]fluoranthene	62	B	662	539		ug/Kg		72	60 - 109
Benzo[g,h,i]perylene	ND		662	511		ug/Kg		77	52 - 114
Benzo[k]fluoranthene	ND		662	483		ug/Kg		73	58 - 109
Chrysene	30		662	509		ug/Kg		72	54 - 108
Dibenz(a,h)anthracene	3.9	J	662	509		ug/Kg		76	58 - 112
Fluoranthene	11		662	530		ug/Kg		78	59 - 109
Fluorene	ND		662	453		ug/Kg		68	52 - 106
Indeno[1,2,3-cd]pyrene	ND		662	543		ug/Kg		82	55 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	5.3		662	409		ug/Kg		61	49 - 110
Phenanthrene	30		662	493		ug/Kg		70	57 - 110
Pyrene	5.1		662	558		ug/Kg		83	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*33 - 120*
Terphenyl-d14	*90*		*35 - 146*

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		661	431		ug/Kg		65	46 - 110	3	35
Acenaphthene	ND		661	428		ug/Kg		65	46 - 106	0	35
Acenaphthylene	ND		661	461		ug/Kg		70	46 - 108	1	35
Anthracene	ND		661	466		ug/Kg		71	55 - 103	1	35
Benzo[a]anthracene	20		661	536		ug/Kg		78	54 - 110	1	35
Benzo[a]pyrene	3.1	J	661	523		ug/Kg		79	62 - 111	1	35
Benzo[b]fluoranthene	62	B	661	538		ug/Kg		72	60 - 109	0	35
Benzo[g,h,i]perylene	ND		661	532		ug/Kg		81	52 - 114	4	35
Benzo[k]fluoranthene	ND		661	484		ug/Kg		73	58 - 109	0	35
Chrysene	30		661	499		ug/Kg		71	54 - 108	2	35
Dibenz(a,h)anthracene	3.9	J	661	521		ug/Kg		78	58 - 112	2	35
Fluoranthene	11		661	533		ug/Kg		79	59 - 109	1	35
Fluorene	ND		661	462		ug/Kg		70	52 - 106	2	35
Indeno[1,2,3-cd]pyrene	ND		661	557		ug/Kg		84	55 - 120	3	35
Naphthalene	5.3		661	413		ug/Kg		62	49 - 110	1	35
Phenanthrene	30		661	491		ug/Kg		70	57 - 110	0	35
Pyrene	5.1		661	571		ug/Kg		86	50 - 120	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*33 - 120*
Terphenyl-d14	*91*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-257342/1-A
Matrix: Solid
Analysis Batch: 257326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.818	J	2.0	0.75	mg/Kg		12/20/18 09:45	12/20/18 22:48	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 09:45	12/20/18 22:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*40 - 130*	*12/20/18 09:45*	*12/20/18 22:48*	*1*

Lab Sample ID: LCS 720-257342/2-A
Matrix: Solid
Analysis Batch: 257326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	166		mg/Kg		100	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*111*		*40 - 130*

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 257325

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2.9	B	167	156		mg/Kg		92	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*114*		*40 - 130*

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 257325

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.9	B	166	160		mg/Kg		94	50 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*116*		*40 - 130*

Lab Sample ID: MB 720-257349/1-A
Matrix: Solid
Analysis Batch: 257325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.989	J	2.0	0.75	mg/Kg		12/20/18 11:14	12/21/18 02:27	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 11:14	12/21/18 02:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*12/20/18 11:14*	*12/21/18 02:27*	*1*

Lab Sample ID: LCS 720-257349/2-A
Matrix: Solid
Analysis Batch: 257325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	153		mg/Kg		92	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*120*		*40 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 257411

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	180	B	166	321		mg/Kg		88	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 257411

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257349

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	180	B	166	338		mg/Kg		98	50 - 150	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-257333/1-A
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Aldrin	ND		2.0	0.50	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endrin	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Toxaphene	ND		40	6.8	ug/Kg		12/20/18 08:47	12/22/18 07:02	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-257333/1-A
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257333

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		21 - 136	12/20/18 08:47	12/22/18 07:02	1
Tetrachloro-m-xylene	84		21 - 145	12/20/18 08:47	12/22/18 07:02	1

Lab Sample ID: LCS 720-257333/2-A
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	15.5		ug/Kg		93	75 - 128
4,4'-DDE	16.7	14.8		ug/Kg		89	76 - 126
4,4'-DDT	16.7	15.6		ug/Kg		94	63 - 127
Aldrin	16.7	12.9		ug/Kg		78	65 - 120
alpha-BHC	16.7	9.98		ug/Kg		60	46 - 122
alpha-Chlordane	16.7	14.6		ug/Kg		87	70 - 120
beta-BHC	16.7	15.5		ug/Kg		93	78 - 136
delta-BHC	16.7	12.3		ug/Kg		74	43 - 125
Dieldrin	16.7	14.6		ug/Kg		87	72 - 120
Endosulfan I	16.7	14.7		ug/Kg		88	62 - 120
Endosulfan II	16.7	15.4		ug/Kg		92	65 - 120
Endosulfan sulfate	16.7	15.6		ug/Kg		93	72 - 121
Endrin	16.7	15.3		ug/Kg		92	68 - 120
Endrin aldehyde	16.7	16.1		ug/Kg		97	68 - 120
Endrin ketone	16.7	16.5		ug/Kg		99	75 - 136
gamma-BHC (Lindane)	16.7	13.2		ug/Kg		79	72 - 120
gamma-Chlordane	16.7	14.3		ug/Kg		86	68 - 120
Heptachlor	16.7	12.5		ug/Kg		75	69 - 120
Heptachlor epoxide	16.7	14.2		ug/Kg		85	68 - 120
Methoxychlor	16.7	17.4		ug/Kg		105	71 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	114		21 - 136
Tetrachloro-m-xylene	79		21 - 145

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.4	14.5		ug/Kg		88	40 - 120
4,4'-DDE	ND		16.4	14.1		ug/Kg		86	40 - 120
4,4'-DDT	ND		16.4	13.9		ug/Kg		85	17 - 144
Aldrin	ND		16.4	12.4		ug/Kg		76	53 - 120
alpha-BHC	ND		16.4	9.95		ug/Kg		61	40 - 120
alpha-Chlordane	ND		16.4	13.4		ug/Kg		82	40 - 120
beta-BHC	ND		16.4	15.5		ug/Kg		95	40 - 120
delta-BHC	ND		16.4	12.2		ug/Kg		74	40 - 120
Dieldrin	ND		16.4	13.5		ug/Kg		82	46 - 130
Endosulfan I	ND		16.4	13.5		ug/Kg		82	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan II	ND		16.4	13.0		ug/Kg		79	40 - 120
Endosulfan sulfate	ND		16.4	13.7		ug/Kg		83	40 - 120
Endrin	ND		16.4	14.4		ug/Kg		88	32 - 143
Endrin aldehyde	ND		16.4	13.3		ug/Kg		81	40 - 120
Endrin ketone	ND		16.4	14.4		ug/Kg		88	40 - 120
gamma-BHC (Lindane)	ND		16.4	13.3		ug/Kg		81	58 - 120
gamma-Chlordane	ND		16.4	13.2		ug/Kg		81	40 - 120
Heptachlor	ND		16.4	12.1		ug/Kg		74	52 - 120
Heptachlor epoxide	ND		16.4	13.4		ug/Kg		82	40 - 120
Methoxychlor	ND		16.4	15.6		ug/Kg		95	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*95*		*21 - 136*
Tetrachloro-m-xylene	*73*		*21 - 145*

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.5	14.3		ug/Kg		87	40 - 120	1	20
4,4'-DDE	ND		16.5	13.7		ug/Kg		83	40 - 120	3	20
4,4'-DDT	ND		16.5	13.3		ug/Kg		81	17 - 144	4	20
Aldrin	ND		16.5	12.3		ug/Kg		75	53 - 120	0	20
alpha-BHC	ND		16.5	9.94		ug/Kg		60	40 - 120	0	20
alpha-Chlordane	ND		16.5	13.2		ug/Kg		80	40 - 120	2	20
beta-BHC	ND		16.5	15.0		ug/Kg		91	40 - 120	3	20
delta-BHC	ND		16.5	12.5		ug/Kg		76	40 - 120	3	20
Dieldrin	ND		16.5	13.0		ug/Kg		79	46 - 130	3	20
Endosulfan I	ND		16.5	13.2		ug/Kg		80	40 - 120	2	20
Endosulfan II	ND		16.5	12.4		ug/Kg		75	40 - 120	4	30
Endosulfan sulfate	ND		16.5	13.3		ug/Kg		81	40 - 120	3	20
Endrin	ND		16.5	14.0		ug/Kg		85	32 - 143	3	20
Endrin aldehyde	ND		16.5	12.4		ug/Kg		76	40 - 120	7	20
Endrin ketone	ND		16.5	14.1		ug/Kg		85	40 - 120	2	20
gamma-BHC (Lindane)	ND		16.5	13.4		ug/Kg		82	58 - 120	1	20
gamma-Chlordane	ND		16.5	13.0		ug/Kg		79	40 - 120	2	20
Heptachlor	ND		16.5	12.0		ug/Kg		73	52 - 120	1	20
Heptachlor epoxide	ND		16.5	13.2		ug/Kg		80	40 - 120	1	20
Methoxychlor	ND		16.5	15.8		ug/Kg		96	40 - 120	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*88*		*21 - 136*
Tetrachloro-m-xylene	*76*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-257336/1-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Aldrin	ND		2.0	0.50	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endrin	ND		2.0	0.46	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Toxaphene	ND		40	6.8	ug/Kg		12/20/18 09:20	12/25/18 01:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*21 - 136*	*12/20/18 09:20*	*12/25/18 01:54*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*12/20/18 09:20*	*12/25/18 01:54*	*1*

Lab Sample ID: LCS 720-257336/2-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	16.0		ug/Kg		96	75 - 128
4,4'-DDE	16.7	15.1		ug/Kg		90	76 - 126
4,4'-DDT	16.7	15.0		ug/Kg		90	63 - 127
Aldrin	16.7	14.1		ug/Kg		85	65 - 120
alpha-BHC	16.7	12.1		ug/Kg		73	46 - 122
alpha-Chlordane	16.7	15.2		ug/Kg		91	70 - 120
beta-BHC	16.7	15.4		ug/Kg		93	78 - 136
delta-BHC	16.7	12.4		ug/Kg		74	43 - 125
Dieldrin	16.7	14.9		ug/Kg		89	72 - 120
Endosulfan I	16.7	15.4		ug/Kg		92	62 - 120
Endosulfan II	16.7	15.4		ug/Kg		92	65 - 120
Endosulfan sulfate	16.7	15.5		ug/Kg		93	72 - 121
Endrin	16.7	15.4		ug/Kg		92	68 - 120
Endrin aldehyde	16.7	17.5		ug/Kg		105	68 - 120
Endrin ketone	16.7	16.2		ug/Kg		97	75 - 136

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-257336/2-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-BHC (Lindane)	16.7	14.2		ug/Kg		85	72 - 120
gamma-Chlordane	16.7	14.9		ug/Kg		90	68 - 120
Heptachlor	16.7	14.2		ug/Kg		85	69 - 120
Heptachlor epoxide	16.7	15.1		ug/Kg		91	68 - 120
Methoxychlor	16.7	16.5		ug/Kg		99	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*21 - 136*
Tetrachloro-m-xylene	*88*		*21 - 145*

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F1	16.5	27.1	F1	ug/Kg		164	40 - 120
4,4'-DDE	ND		16.5	16.5		ug/Kg		100	40 - 120
4,4'-DDT	ND	F2	16.5	5.20	p	ug/Kg		32	17 - 144
Aldrin	ND		16.5	14.4		ug/Kg		88	53 - 120
alpha-BHC	ND		16.5	12.5		ug/Kg		76	40 - 120
alpha-Chlordane	ND		16.5	16.5		ug/Kg		100	40 - 120
beta-BHC	ND		16.5	15.6		ug/Kg		95	40 - 120
delta-BHC	ND		16.5	13.0		ug/Kg		79	40 - 120
Dieldrin	ND		16.5	15.3	p	ug/Kg		93	46 - 130
Endosulfan I	ND		16.5	15.1		ug/Kg		92	40 - 120
Endosulfan II	ND		16.5	19.3		ug/Kg		117	40 - 120
Endosulfan sulfate	ND	F2	16.5	15.9		ug/Kg		97	40 - 120
Endrin	ND		16.5	16.0		ug/Kg		97	32 - 143
Endrin aldehyde	ND	F2 F1	16.5	17.6	p	ug/Kg		107	40 - 120
Endrin ketone	ND	F2 F1	16.5	11.8	p	ug/Kg		72	40 - 120
gamma-BHC (Lindane)	ND	F1	16.5	14.9		ug/Kg		90	58 - 120
gamma-Chlordane	ND		16.5	16.8		ug/Kg		102	40 - 120
Heptachlor	ND		16.5	12.0		ug/Kg		73	52 - 120
Heptachlor epoxide	ND		16.5	15.7		ug/Kg		95	40 - 120
Methoxychlor	ND	F2 F1	16.5	33.9	F1	ug/Kg		206	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*	*p*	*21 - 136*
Tetrachloro-m-xylene	*89*		*21 - 145*

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	16.3	27.2	F1	ug/Kg		167	40 - 120	0	20
4,4'-DDE	ND		16.3	15.4		ug/Kg		95	40 - 120	7	20
4,4'-DDT	ND	F2	16.3	3.41	p F2	ug/Kg		21	17 - 144	41	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		16.3	14.2		ug/Kg		87	53 - 120	2	20
alpha-BHC	ND		16.3	12.3		ug/Kg		76	40 - 120	1	20
alpha-Chlordane	ND		16.3	16.3		ug/Kg		100	40 - 120	1	20
beta-BHC	ND		16.3	14.2		ug/Kg		87	40 - 120	9	20
delta-BHC	ND		16.3	12.1		ug/Kg		74	40 - 120	8	20
Dieldrin	ND		16.3	13.9	p	ug/Kg		85	46 - 130	10	20
Endosulfan I	ND		16.3	14.5		ug/Kg		89	40 - 120	4	20
Endosulfan II	ND		16.3	17.0		ug/Kg		104	40 - 120	13	30
Endosulfan sulfate	ND	F2	16.3	10.1	p F2	ug/Kg		62	40 - 120	44	20
Endrin	ND		16.3	13.8		ug/Kg		85	32 - 143	14	20
Endrin aldehyde	ND	F2 F1	16.3	14.0	F2	ug/Kg		86	40 - 120	23	20
Endrin ketone	ND	F2 F1	16.3	10.6		ug/Kg		65	40 - 120	11	20
gamma-BHC (Lindane)	ND	F1	16.3	14.0		ug/Kg		86	58 - 120	6	20
gamma-Chlordane	ND		16.3	16.0		ug/Kg		98	40 - 120	5	20
Heptachlor	ND		16.3	11.0		ug/Kg		68	52 - 120	8	20
Heptachlor epoxide	ND		16.3	15.4		ug/Kg		95	40 - 120	2	20
Methoxychlor	ND	F2 F1	16.3	23.5	F1 F2	ug/Kg		144	40 - 120	36	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*179*	*p X*	*21 - 136*
Tetrachloro-m-xylene	*87*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-518501/1-A
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*45 - 120*	*12/20/18 14:02*	*12/21/18 14:53*	*1*

Lab Sample ID: LCS 440-518501/2-A
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	215		ug/Kg		81	65 - 115		
Aroclor 1260			267	261		ug/Kg		98	65 - 115		

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-518501/2-A
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518501

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	94		45 - 120

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 518501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		264	210		ug/Kg		79	50 - 120
Aroclor 1260	ND		264	245		ug/Kg		93	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	89		45 - 120

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 518501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	214		ug/Kg		80	50 - 120	2	30
Aroclor 1260	ND		266	251		ug/Kg		94	50 - 125	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	90		45 - 120

Lab Sample ID: MB 440-519685/1-A
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	113		45 - 120	12/27/18 18:48	12/28/18 10:57	1

Lab Sample ID: LCS 440-519685/2-A
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	245		ug/Kg		92	65 - 115
Aroclor 1260	267	292		ug/Kg		109	65 - 115

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-519685/2-A
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519685

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*115*		*45 - 120*

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 519685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		263	159		ug/Kg		60	50 - 120
Aroclor 1260	ND		263	162		ug/Kg		62	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 519685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	147		ug/Kg		55	50 - 120	7	30
Aroclor 1260	ND		266	152		ug/Kg		57	50 - 125	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257231/1-A
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.107	J	0.50	0.083	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Arsenic	ND		1.0	0.085	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Barium	ND		0.50	0.071	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Beryllium	ND		0.10	0.033	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Cadmium	ND		0.13	0.012	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Chromium	ND		0.50	0.053	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Cobalt	ND		0.20	0.020	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Copper	ND		1.5	0.71	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Lead	ND		0.50	0.11	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Nickel	ND		0.50	0.051	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Selenium	ND		1.0	0.15	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Silver	ND		0.25	0.051	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Thallium	ND		0.50	0.15	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Vanadium	ND		0.50	0.068	mg/Kg		12/20/18 11:04	12/21/18 14:53	1
Zinc	ND		1.5	0.64	mg/Kg		12/20/18 11:04	12/21/18 14:53	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257231/2-A
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.0		mg/Kg		96	80 - 120
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	50.0	48.3		mg/Kg		97	80 - 120
Beryllium	50.0	48.9		mg/Kg		98	80 - 120
Cadmium	50.0	48.7		mg/Kg		97	80 - 120
Chromium	50.0	49.2		mg/Kg		98	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	50.0	48.9		mg/Kg		98	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Selenium	50.0	47.0		mg/Kg		94	80 - 120
Silver	25.0	23.1		mg/Kg		92	80 - 120
Thallium	50.0	48.8		mg/Kg		98	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.1	B F1	49.5	17.6	F1	mg/Kg		34	75 - 125
Arsenic	16	F1	49.5	69.8	F1	mg/Kg		133	75 - 125
Barium	98	F1	49.5	183	F1	mg/Kg		320	75 - 125
Beryllium	0.29	J F1	49.5	55.4		mg/Kg		112	75 - 125
Cadmium	ND		49.5	52.2		mg/Kg		105	75 - 125
Chromium	110	F1	49.5	153	F1	mg/Kg		252	75 - 125
Cobalt	17	F1	49.5	68.8	F1	mg/Kg		131	75 - 125
Copper	29	F1	49.5	83.1	F1	mg/Kg		153	75 - 125
Lead	5.1	F1	49.5	59.2		mg/Kg		117	75 - 125
Molybdenum	ND		49.5	49.8		mg/Kg		101	75 - 125
Nickel	120	F1	49.5	155	F1	mg/Kg		251	75 - 125
Selenium	ND		49.5	49.1		mg/Kg		99	75 - 125
Silver	ND		24.8	26.2		mg/Kg		106	75 - 125
Thallium	ND		49.5	49.9		mg/Kg		101	75 - 125
Vanadium	52	F1	49.5	108	F1	mg/Kg		193	75 - 125
Zinc	50	F1	49.5	104	F1	mg/Kg		185	75 - 125

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.1	B F1	50.0	19.5	F1	mg/Kg		38	75 - 125	11	20
Arsenic	16	F1	50.0	80.9	F1	mg/Kg		154	75 - 125	15	20
Barium	98	F1	50.0	185	F1	mg/Kg		322	75 - 125	1	20
Beryllium	0.29	J F1	50.0	64.7	F1	mg/Kg		129	75 - 125	16	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 257510

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	ND		50.0	58.8		mg/Kg		118	75 - 125	12	20
Chromium	110	F1	50.0	147	F1	mg/Kg		238	75 - 125	4	20
Cobalt	17	F1	50.0	76.7	F1	mg/Kg		145	75 - 125	11	20
Copper	29	F1	50.0	99.3	F1	mg/Kg		184	75 - 125	18	20
Lead	5.1	F1	50.0	67.1	F1	mg/Kg		132	75 - 125	13	20
Molybdenum	ND		50.0	56.0		mg/Kg		112	75 - 125	12	20
Nickel	120	F1	50.0	163	F1	mg/Kg		264	75 - 125	5	20
Selenium	ND		50.0	56.6		mg/Kg		113	75 - 125	14	20
Silver	ND		25.0	30.7		mg/Kg		123	75 - 125	16	20
Thallium	ND		50.0	56.8		mg/Kg		114	75 - 125	13	20
Vanadium	52	F1	50.0	125	F1	mg/Kg		225	75 - 125	15	20
Zinc	50	F1	50.0	125	F1	mg/Kg		225	75 - 125	18	20

Lab Sample ID: MB 720-257269/1-A
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Arsenic	ND		1.0	0.085	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Barium	ND		0.50	0.071	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Beryllium	ND		0.10	0.033	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Cadmium	ND		0.13	0.012	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Chromium	ND		0.50	0.053	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Cobalt	ND		0.20	0.020	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Copper	ND		1.5	0.71	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Lead	ND		0.50	0.11	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Nickel	ND		0.50	0.051	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Selenium	ND		1.0	0.15	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Silver	ND		0.25	0.051	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Thallium	ND		0.50	0.15	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Vanadium	ND		0.50	0.068	mg/Kg		12/20/18 08:28	12/21/18 12:34	1
Zinc	ND		1.5	0.64	mg/Kg		12/20/18 08:28	12/21/18 12:34	1

Lab Sample ID: LCS 720-257269/2-A
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.5		mg/Kg		97	80 - 120
Arsenic	50.0	48.9		mg/Kg		98	80 - 120
Barium	50.0	47.5		mg/Kg		95	80 - 120
Beryllium	50.0	49.0		mg/Kg		98	80 - 120
Cadmium	50.0	49.1		mg/Kg		98	80 - 120
Chromium	50.0	49.0		mg/Kg		98	80 - 120
Cobalt	50.0	50.5		mg/Kg		101	80 - 120
Copper	50.0	48.8		mg/Kg		98	80 - 120
Lead	50.0	49.8		mg/Kg		100	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257269/2-A
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Selenium	50.0	47.6		mg/Kg		95	80 - 120
Silver	25.0	23.7		mg/Kg		95	80 - 120
Thallium	50.0	49.4		mg/Kg		99	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120

Lab Sample ID: 720-90386-A-23-D MS
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257269

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.73	J F1	47.6	9.79	F1	mg/Kg		19	75 - 125
Arsenic	ND		47.6	45.7		mg/Kg		96	75 - 125
Barium	16		47.6	61.0		mg/Kg		95	75 - 125
Beryllium	ND		47.6	45.5		mg/Kg		95	75 - 125
Cadmium	ND		47.6	45.4		mg/Kg		95	75 - 125
Chromium	16		47.6	59.8		mg/Kg		92	75 - 125
Cobalt	16		47.6	61.9		mg/Kg		97	75 - 125
Copper	130	F1 F2	47.6	247	F1	mg/Kg		251	75 - 125
Lead	1.5	J	47.6	45.5		mg/Kg		93	75 - 125
Molybdenum	ND		47.6	44.7		mg/Kg		94	75 - 125
Nickel	6.1		47.6	50.3		mg/Kg		93	75 - 125
Selenium	ND		47.6	44.3		mg/Kg		93	75 - 125
Silver	ND		23.8	22.2		mg/Kg		93	75 - 125
Thallium	ND		47.6	43.6		mg/Kg		92	75 - 125
Vanadium	120		47.6	158		mg/Kg		90	75 - 125
Zinc	48		47.6	90.0		mg/Kg		89	75 - 125

Lab Sample ID: 720-90386-A-23-E MSD
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257269

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.73	J F1	47.6	9.04	F1	mg/Kg		17	75 - 125	8	20
Arsenic	ND		47.6	44.5		mg/Kg		93	75 - 125	3	20
Barium	16		47.6	58.0		mg/Kg		88	75 - 125	5	20
Beryllium	ND		47.6	44.7		mg/Kg		94	75 - 125	2	20
Cadmium	ND		47.6	44.6		mg/Kg		94	75 - 125	2	20
Chromium	16		47.6	61.5		mg/Kg		95	75 - 125	3	20
Cobalt	16		47.6	60.1		mg/Kg		93	75 - 125	3	20
Copper	130	F1 F2	47.6	183	F2	mg/Kg		117	75 - 125	30	20
Lead	1.5	J	47.6	44.1		mg/Kg		90	75 - 125	3	20
Molybdenum	ND		47.6	43.5		mg/Kg		91	75 - 125	3	20
Nickel	6.1		47.6	49.7		mg/Kg		92	75 - 125	1	20
Selenium	ND		47.6	43.6		mg/Kg		92	75 - 125	2	20
Silver	ND		23.8	22.3		mg/Kg		93	75 - 125	0	20
Thallium	ND		47.6	42.2		mg/Kg		89	75 - 125	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90386-A-23-E MSD
Matrix: Solid
Analysis Batch: 257472

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257269

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	120		47.6	158		mg/Kg		89	75 - 125	0	20
Zinc	48		47.6	89.6		mg/Kg		88	75 - 125	0	20

Lab Sample ID: MB 720-257270/1-A
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Arsenic	ND		1.0	0.085	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Barium	ND		0.50	0.071	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Chromium	ND		0.50	0.053	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Silver	0.0594	J	0.25	0.051	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 15:49	12/26/18 22:40	1

Lab Sample ID: MB 720-257270/1-A
Matrix: Solid
Analysis Batch: 257723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Arsenic	ND		1.0	0.085	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Barium	ND		0.50	0.071	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Beryllium	ND		0.10	0.033	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Chromium	ND		0.50	0.053	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Silver	ND		0.25	0.051	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 15:49	12/27/18 19:22	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257270/2-A
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.2		mg/Kg		94	80 - 120
Arsenic	50.0	48.8		mg/Kg		98	80 - 120
Barium	50.0	48.3		mg/Kg		97	80 - 120
Cadmium	50.0	49.9		mg/Kg		100	80 - 120
Chromium	50.0	48.4		mg/Kg		97	80 - 120
Cobalt	50.0	50.2		mg/Kg		100	80 - 120
Copper	50.0	50.1		mg/Kg		100	80 - 120
Lead	50.0	52.2		mg/Kg		104	80 - 120
Molybdenum	50.0	49.7		mg/Kg		99	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Selenium	50.0	51.1		mg/Kg		102	80 - 120
Silver	25.0	22.9		mg/Kg		92	80 - 120
Thallium	50.0	52.6		mg/Kg		105	80 - 120
Vanadium	50.0	50.9		mg/Kg		102	80 - 120
Zinc	50.0	51.6		mg/Kg		103	80 - 120

Lab Sample ID: LCS 720-257270/2-A
Matrix: Solid
Analysis Batch: 257723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.7		mg/Kg		93	80 - 120
Arsenic	50.0	46.9		mg/Kg		94	80 - 120
Barium	50.0	45.5		mg/Kg		91	80 - 120
Beryllium	50.0	47.3		mg/Kg		95	80 - 120
Cadmium	50.0	47.2		mg/Kg		94	80 - 120
Chromium	50.0	47.6		mg/Kg		95	80 - 120
Cobalt	50.0	48.7		mg/Kg		97	80 - 120
Copper	50.0	46.9		mg/Kg		94	80 - 120
Lead	50.0	47.9		mg/Kg		96	80 - 120
Molybdenum	50.0	48.1		mg/Kg		96	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Selenium	50.0	46.0		mg/Kg		92	80 - 120
Silver	25.0	21.9		mg/Kg		88	80 - 120
Thallium	50.0	47.7		mg/Kg		95	80 - 120
Vanadium	50.0	47.0		mg/Kg		94	80 - 120
Zinc	50.0	45.7		mg/Kg		91	80 - 120

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.9	F1	37.0	9.95	F1	mg/Kg		22	75 - 125
Arsenic	100	F1	37.0	162	F1	mg/Kg		160	75 - 125
Barium	73		37.0	113		mg/Kg		107	75 - 125
Cadmium	0.84		37.0	37.7		mg/Kg		99	75 - 125
Chromium	29		37.0	72.0		mg/Kg		116	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	12		37.0	49.4		mg/Kg		101	75 - 125
Copper	84	F1	37.0	149	F1	mg/Kg		174	75 - 125
Lead	140	F1	37.0	201	F1	mg/Kg		176	75 - 125
Molybdenum	0.85	J	37.0	35.1		mg/Kg		92	75 - 125
Nickel	43		37.0	78.6		mg/Kg		95	75 - 125
Selenium	0.73	J	37.0	38.1		mg/Kg		101	75 - 125
Silver	0.17	J B	18.5	17.2		mg/Kg		92	75 - 125
Thallium	ND		37.0	35.9		mg/Kg		97	75 - 125
Vanadium	73		37.0	115		mg/Kg		113	75 - 125
Zinc	190		37.0	261	4	mg/Kg		185	75 - 125

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 257723

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.13	J	37.0	43.3		mg/Kg		116	75 - 125

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.9	F1	36.5	8.94	F1	mg/Kg		19	75 - 125	11	20
Arsenic	100	F1	36.5	143		mg/Kg		109	75 - 125	13	20
Barium	73		36.5	115		mg/Kg		115	75 - 125	2	20
Cadmium	0.84		36.5	37.5		mg/Kg		100	75 - 125	1	20
Chromium	29		36.5	73.2		mg/Kg		121	75 - 125	2	20
Cobalt	12		36.5	48.2		mg/Kg		99	75 - 125	2	20
Copper	84	F1	36.5	138	F1	mg/Kg		149	75 - 125	7	20
Lead	140	F1	36.5	234	F1	mg/Kg		269	75 - 125	15	20
Molybdenum	0.85	J	36.5	34.8		mg/Kg		93	75 - 125	1	20
Nickel	43		36.5	78.8		mg/Kg		97	75 - 125	0	20
Selenium	0.73	J	36.5	38.8		mg/Kg		104	75 - 125	2	20
Silver	0.17	J B	18.2	17.0		mg/Kg		92	75 - 125	1	20
Thallium	ND		36.5	35.3		mg/Kg		97	75 - 125	2	20
Vanadium	73		36.5	112		mg/Kg		107	75 - 125	2	20
Zinc	190		36.5	303	4	mg/Kg		303	75 - 125	15	20

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 257723

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	0.13	J	36.5	43.0		mg/Kg		117	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257251/1-A
Matrix: Solid
Analysis Batch: 257922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/19/18 10:59	01/03/19 10:36	1

Lab Sample ID: LCS 720-257251/2-A
Matrix: Solid
Analysis Batch: 257922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.752		mg/Kg		90	80 - 120

Lab Sample ID: 720-90388-2 MS
Matrix: Solid
Analysis Batch: 257922

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.16	F1	0.725	1.04		mg/Kg		121	75 - 125

Lab Sample ID: 720-90388-2 MSD
Matrix: Solid
Analysis Batch: 257922

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA
Prep Batch: 257251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.16	F1	0.769	1.26	F1	mg/Kg		143	75 - 125	20	20

Lab Sample ID: MB 720-257253/1-A
Matrix: Solid
Analysis Batch: 257903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/19/18 11:24	01/02/19 17:20	1

Lab Sample ID: LCS 720-257253/2-A
Matrix: Solid
Analysis Batch: 257903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.792		mg/Kg		95	80 - 120

Lab Sample ID: 720-90388-6 MS
Matrix: Solid
Analysis Batch: 257903

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.54	F1 F2	0.714	1.28		mg/Kg		102	75 - 125

Lab Sample ID: 720-90388-6 MSD
Matrix: Solid
Analysis Batch: 257903

Client Sample ID: DG-T1S-0.5-1
Prep Type: Total/NA
Prep Batch: 257253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.54	F1 F2	0.725	1.64	F1 F2	mg/Kg		152	75 - 125	25	20

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90388-2 DU
Matrix: Solid
Analysis Batch: 257283

Client Sample ID: DG-X1S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	6.3			6.6		%				5	20

GC/MS VOA

Analysis Batch: 518646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	8260B	518692
MB 440-518646/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518646/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	8260B	518692
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	8260B	518692

Analysis Batch: 518647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518692
MB 440-518647/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-518647/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518692

Analysis Batch: 518651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	8260B	518692
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	8260B	518692
720-90388-3	DUP-04	Total/NA	Solid	8260B	518692
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	8260B	518692
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	8260B	518692
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	8260B	518692
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	8260B	518692
MB 440-518651/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518651/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	8260B	518692
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	8260B	518692

Analysis Batch: 518652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-3	DUP-04	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518692
MB 440-518652/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-518652/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 518652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518692

Prep Batch: 518692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	5035	
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	5035	
720-90388-3	DUP-04	Total/NA	Solid	5035	
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	5035	
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	5035	
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	5035	
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	5035	
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	5035	
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	5035	
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	5035	
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	5035	
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	5035	
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 518870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-8	DUP-03	Total/NA	Solid	8260B	518914
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	8260B	518692
MB 440-518870/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518870/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90446-A-1-E MS	Matrix Spike	Total/NA	Solid	8260B	518913
720-90446-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	518913

Analysis Batch: 518871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-8	DUP-03	Total/NA	Solid	8260B/CA_LUFT MS	518914
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518692
MB 440-518871/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-518871/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90446-A-1-E MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	518913

Prep Batch: 518913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
720-90446-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 518914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-8	DUP-03	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 257381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	3546	
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	3546	
720-90388-8	DUP-03	Total/NA	Solid	3546	
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	3546	
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	3546	
MB 720-257381/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257381/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	3546	
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 257530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	3546	
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	3546	
720-90388-3	DUP-04	Total/NA	Solid	3546	
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	3546	
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	3546	
MB 720-257530/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257530/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	3546	
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 257593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	8270C SIM	257530
MB 720-257530/1-A	Method Blank	Total/NA	Solid	8270C SIM	257530
LCS 720-257530/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257530
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	8270C SIM	257530
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	8270C SIM	257530

Analysis Batch: 257669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	8270C SIM	257530
720-90388-3	DUP-04	Total/NA	Solid	8270C SIM	257530
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	8270C SIM	257530
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	8270C SIM	257530
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	8270C SIM	257381
720-90388-8	DUP-03	Total/NA	Solid	8270C SIM	257381
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	8270C SIM	257381
MB 720-257381/1-A	Method Blank	Total/NA	Solid	8270C SIM	257381
LCS 720-257381/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257381

Analysis Batch: 257766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	8270C SIM	257381
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	8270C SIM	257381
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	8270C SIM	257381
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	8270C SIM	257381

GC Semi VOA

Analysis Batch: 257324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	8015B	257342
720-90388-3	DUP-04	Total/NA	Solid	8015B	257342
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	8015B	257342

Analysis Batch: 257325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	8015B	257342
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	8015B	257342
MB 720-257349/1-A	Method Blank	Total/NA	Solid	8015B	257349
LCS 720-257349/2-A	Lab Control Sample	Total/NA	Solid	8015B	257349
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	8015B	257342
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	8015B	257342

Analysis Batch: 257326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257342/1-A	Method Blank	Total/NA	Solid	8015B	257342
LCS 720-257342/2-A	Lab Control Sample	Total/NA	Solid	8015B	257342

Prep Batch: 257333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	3546	
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	3546	
720-90388-3	DUP-04	Total/NA	Solid	3546	
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	3546	
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	3546	
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	3546	
720-90388-8	DUP-03	Total/NA	Solid	3546	
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	3546	
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	3546	
MB 720-257333/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257333/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	3546	
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 257336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	3546	
MB 720-257336/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257336/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	3546	
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 257342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	3546	
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	3546	
720-90388-3	DUP-04	Total/NA	Solid	3546	
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	3546	
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	3546	
MB 720-257342/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257342/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 257342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	3546	
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 257349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	3546	
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	3546	
720-90388-8	DUP-03	Total/NA	Solid	3546	
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	3546	
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	3546	
MB 720-257349/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257349/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	3546	
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 257411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	8015B	257349
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	8015B	257349
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	8015B	257349

Analysis Batch: 257492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	8081A	257333
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	8081A	257333
720-90388-3	DUP-04	Total/NA	Solid	8081A	257333
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	8081A	257333
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	8081A	257333
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	8081A	257333
720-90388-8	DUP-03	Total/NA	Solid	8081A	257333
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	8081A	257333
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	8081A	257333
MB 720-257333/1-A	Method Blank	Total/NA	Solid	8081A	257333
LCS 720-257333/2-A	Lab Control Sample	Total/NA	Solid	8081A	257333
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	8081A	257333
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	8081A	257333

Analysis Batch: 257513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	8015B	257349
720-90388-8	DUP-03	Total/NA	Solid	8015B	257349
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	8015B	257349
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	8015B	257349

Analysis Batch: 257557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	8081A	257336
MB 720-257336/1-A	Method Blank	Total/NA	Solid	8081A	257336
LCS 720-257336/2-A	Lab Control Sample	Total/NA	Solid	8081A	257336
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	8081A	257336
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	8081A	257336

Prep Batch: 518501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	3546	
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	3546	
720-90388-3	DUP-04	Total/NA	Solid	3546	
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	3546	
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	3546	
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	3546	
720-90388-8	DUP-03	Total/NA	Solid	3546	
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	3546	
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	3546	
MB 440-518501/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-518501/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	3546	
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 518687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	8082	518501
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	8082	518501
720-90388-3	DUP-04	Total/NA	Solid	8082	518501
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	8082	518501
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	8082	518501
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	8082	518501
720-90388-8	DUP-03	Total/NA	Solid	8082	518501
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	8082	518501
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	8082	518501
MB 440-518501/1-A	Method Blank	Total/NA	Solid	8082	518501
LCS 440-518501/2-A	Lab Control Sample	Total/NA	Solid	8082	518501
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	8082	518501
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	8082	518501

Prep Batch: 519685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	3546	
MB 440-519685/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-519685/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	3546	
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 519816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	8082	519685
MB 440-519685/1-A	Method Blank	Total/NA	Solid	8082	519685
LCS 440-519685/2-A	Lab Control Sample	Total/NA	Solid	8082	519685
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	8082	519685
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	8082	519685

Metals

Prep Batch: 257231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	3050B	
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	3050B	
720-90388-3	DUP-04	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257231/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257231/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	3050B	
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	7471A	
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	7471A	
720-90388-3	DUP-04	Total/NA	Solid	7471A	
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	7471A	
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	7471A	
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	7471A	
720-90388-8	DUP-03	Total/NA	Solid	7471A	
MB 720-257251/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257251/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	7471A	
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 257253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	7471A	
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	7471A	
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	7471A	
MB 720-257253/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257253/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	7471A	
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	3050B	
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	3050B	
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	3050B	
MB 720-257269/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257269/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90386-A-23-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-90386-A-23-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	3050B	
720-90388-8	DUP-03	Total/NA	Solid	3050B	
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	3050B	
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	3050B	
MB 720-257270/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257270/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	3050B	
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	3050B	

Metals (Continued)

Analysis Batch: 257472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	6010B	257269
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	6010B	257269
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	6010B	257269
MB 720-257269/1-A	Method Blank	Total/NA	Solid	6010B	257269
LCS 720-257269/2-A	Lab Control Sample	Total/NA	Solid	6010B	257269
720-90386-A-23-D MS	Matrix Spike	Total/NA	Solid	6010B	257269
720-90386-A-23-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257269

Analysis Batch: 257510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	6010B	257231
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	6010B	257231
720-90388-3	DUP-04	Total/NA	Solid	6010B	257231
MB 720-257231/1-A	Method Blank	Total/NA	Solid	6010B	257231
LCS 720-257231/2-A	Lab Control Sample	Total/NA	Solid	6010B	257231
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	6010B	257231
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	6010B	257231

Analysis Batch: 257644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	6010B	257270
720-90388-8	DUP-03	Total/NA	Solid	6010B	257270
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	6010B	257270
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	6010B	257270
MB 720-257270/1-A	Method Blank	Total/NA	Solid	6010B	257270
LCS 720-257270/2-A	Lab Control Sample	Total/NA	Solid	6010B	257270
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	6010B	257270
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	6010B	257270

Analysis Batch: 257723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	6010B	257270
720-90388-8	DUP-03	Total/NA	Solid	6010B	257270
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	6010B	257270
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	6010B	257270
MB 720-257270/1-A	Method Blank	Total/NA	Solid	6010B	257270
LCS 720-257270/2-A	Lab Control Sample	Total/NA	Solid	6010B	257270
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	6010B	257270
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	6010B	257270

Analysis Batch: 257903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	7471A	257253
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	7471A	257253
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	7471A	257253
MB 720-257253/1-A	Method Blank	Total/NA	Solid	7471A	257253
LCS 720-257253/2-A	Lab Control Sample	Total/NA	Solid	7471A	257253
720-90388-6 MS	DG-T1S-0.5-1	Total/NA	Solid	7471A	257253
720-90388-6 MSD	DG-T1S-0.5-1	Total/NA	Solid	7471A	257253

Metals (Continued)

Analysis Batch: 257922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	7471A	257251
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	7471A	257251
720-90388-3	DUP-04	Total/NA	Solid	7471A	257251
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	7471A	257251
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	7471A	257251
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	7471A	257251
720-90388-8	DUP-03	Total/NA	Solid	7471A	257251
MB 720-257251/1-A	Method Blank	Total/NA	Solid	7471A	257251
LCS 720-257251/2-A	Lab Control Sample	Total/NA	Solid	7471A	257251
720-90388-2 MS	DG-X1S-3.5-4	Total/NA	Solid	7471A	257251
720-90388-2 MSD	DG-X1S-3.5-4	Total/NA	Solid	7471A	257251

General Chemistry

Analysis Batch: 257283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-1	DG-X1S-0.5-1	Total/NA	Solid	Moisture	
720-90388-2	DG-X1S-3.5-4	Total/NA	Solid	Moisture	
720-90388-3	DUP-04	Total/NA	Solid	Moisture	
720-90388-4	DG-V1S-0.5-1	Total/NA	Solid	Moisture	
720-90388-5	DG-V1S-3.5-4	Total/NA	Solid	Moisture	
720-90388-6	DG-T1S-0.5-1	Total/NA	Solid	Moisture	
720-90388-7	DG-T1S-3.5-4	Total/NA	Solid	Moisture	
720-90388-8	DUP-03	Total/NA	Solid	Moisture	
720-90388-9	DG-R1S-0.5-1	Total/NA	Solid	Moisture	
720-90388-10	DG-R1S-3.5-4	Total/NA	Solid	Moisture	
720-90388-2 DU	DG-X1S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-X1S-0.5-1

Lab Sample ID: 720-90388-1

Date Collected: 12/17/18 10:30

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 11:38	AYL	TAL IRV
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 11:38	AYL	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	257669	12/27/18 22:03	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257324	12/21/18 04:19	JXL	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257492	12/22/18 08:26	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	518687	12/21/18 15:47	JM	TAL IRV
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 16:58	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		10	257922	01/03/19 12:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Client Sample ID: DG-X1S-3.5-4

Lab Sample ID: 720-90388-2

Date Collected: 12/17/18 10:30

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 16:22	AYL	TAL IRV
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 16:22	AYL	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257593	12/27/18 01:11	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257325	12/20/18 21:59	JXL	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257492	12/22/18 08:09	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	518687	12/21/18 16:00	JM	TAL IRV
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 15:30	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 10:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Client Sample ID: DUP-04

Lab Sample ID: 720-90388-3

Date Collected: 12/17/18 00:00

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 12:07	AYL	TAL IRV
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 12:07	AYL	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		10	257669	12/27/18 22:26	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		2	257324	12/21/18 04:48	JXL	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257492	12/22/18 08:42	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	518687	12/21/18 16:13	JM	TAL IRV
Total/NA	Prep	3050B			257231	12/20/18 11:04	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257510	12/21/18 17:12	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		10	257922	01/03/19 12:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Client Sample ID: DG-V1S-0.5-1

Lab Sample ID: 720-90388-4

Date Collected: 12/17/18 11:30

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 12:35	AYL	TAL IRV
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 12:35	AYL	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	257669	12/27/18 21:39	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257324	12/21/18 03:50	JXL	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257492	12/22/18 08:59	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	518687	12/21/18 16:27	JM	TAL IRV
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 14:34	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		4	257922	01/03/19 12:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Client Sample ID: DG-V1S-3.5-4

Lab Sample ID: 720-90388-5

Date Collected: 12/17/18 11:30

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 13:03	AYL	TAL IRV
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 13:03	AYL	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257669	12/27/18 20:52	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257325	12/20/18 22:23	JXL	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257492	12/22/18 09:16	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	518687	12/21/18 16:40	JM	TAL IRV
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 14:39	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Client Sample ID: DG-T1S-0.5-1

Lab Sample ID: 720-90388-6

Date Collected: 12/17/18 13:45

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 10:17	WC	TAL IRV
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 10:17	WC	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	257766	12/29/18 05:33	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		5	257411	12/21/18 11:17	JXL	TAL PLS
Total/NA	Prep	3546			257336	12/20/18 09:20	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257557	12/25/18 04:41	MQL	TAL PLS
Total/NA	Prep	3546			519685	12/27/18 18:48	EGC	TAL IRV
Total/NA	Analysis	8082		1	519816	12/28/18 11:50	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/26/18 23:18	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 19:49	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 17:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Client Sample ID: DG-T1S-3.5-4

Lab Sample ID: 720-90388-7

Date Collected: 12/17/18 13:45

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 13:32	AYL	TAL IRV
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 13:32	AYL	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257669	12/27/18 19:42	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 20:44	DCH	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257492	12/22/18 09:33	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	518687	12/21/18 16:53	JM	TAL IRV
Total/NA	Prep	3050B			257269	12/20/18 08:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257472	12/21/18 14:44	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Client Sample ID: DUP-03

Lab Sample ID: 720-90388-8

Date Collected: 12/17/18 00:00

Matrix: Solid

Date Received: 12/17/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518914	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 11:37	DCI	TAL IRV
Total/NA	Prep	5035			518914	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 11:37	DCI	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257669	12/27/18 20:05	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 19:45	DCH	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257492	12/22/18 09:49	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	518687	12/21/18 17:07	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/26/18 23:23	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 19:54	BKR	TAL PLS
Total/NA	Prep	7471A			257251	12/19/18 10:59	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257922	01/03/19 11:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Client Sample ID: DG-R1S-0.5-1

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 14:29	AYL	TAL IRV
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 14:29	AYL	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	257766	12/29/18 05:10	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		2	257513	12/24/18 12:28	DCH	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257492	12/22/18 10:06	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	518687	12/21/18 17:20	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/26/18 23:28	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:08	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 17:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Client Sample ID: DG-R1S-3.5-4

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 11:09	DCI	TAL IRV
Total/NA	Prep	5035			518692	12/17/18 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 11:09	DCI	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257669	12/27/18 20:29	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 20:14	DCH	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257492	12/22/18 10:23	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	518687	12/21/18 17:33	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/26/18 23:33	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:13	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 17:35	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Client Sample ID: DG-R1S-3.5-4

Date Collected: 12/17/18 14:25
Date Received: 12/17/18 18:40

Lab Sample ID: 720-90388-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	257283	12/19/18 15:12	TNL	TAL PLS

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90388-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3546	Solid	Chlordane (n.o.s.)
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90388-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90388-1	DG-X1S-0.5-1	Solid	12/17/18 10:30	12/17/18 18:40
720-90388-2	DG-X1S-3.5-4	Solid	12/17/18 10:30	12/17/18 18:40
720-90388-3	DUP-04	Solid	12/17/18 00:00	12/17/18 18:40
720-90388-4	DG-V1S-0.5-1	Solid	12/17/18 11:30	12/17/18 18:40
720-90388-5	DG-V1S-3.5-4	Solid	12/17/18 11:30	12/17/18 18:40
720-90388-6	DG-T1S-0.5-1	Solid	12/17/18 13:45	12/17/18 18:40
720-90388-7	DG-T1S-3.5-4	Solid	12/17/18 13:45	12/17/18 18:40
720-90388-8	DUP-03	Solid	12/17/18 00:00	12/17/18 18:40
720-90388-9	DG-R1S-0.5-1	Solid	12/17/18 14:25	12/17/18 18:40
720-90388-10	DG-R1S-3.5-4	Solid	12/17/18 14:25	12/17/18 18:40

eurofins | CEI

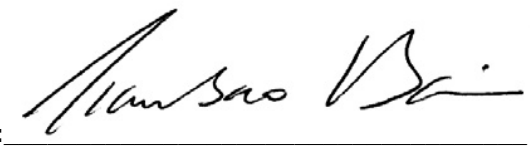
Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: B188989
Received: 12/19/2018
Reported: 12/26/2018
Analyst: Candace Burrus

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-X1S-0.5-1.0 (720-90388- 1)	B114215	No	None Detected	0.00
DG-X1S-3.5-4 (720-90388- 2)	B114216	No	None Detected	0.00
DUP-04 (720-90388- 3)	B114217	No	None Detected	0.00
DG-V1S-0.5-1 (720-90388- 4)	B114218	No	None Detected	0.00
DG-V1S-3.5-4 (720-90388- 5)	B114219	No	None Detected	0.00
DG-T1S-0.5-1 (720-90388- 6)	B114220	No	None Detected	0.00
DG-T1S-3.5-4 (720-90388- 7)	B114221	No	None Detected	0.00
DUP-03 (720-90388- 8)	B114222	No	None Detected	0.00
DG-R1S-0.5-1 (720-90388- 9)	B114223	No	None Detected	0.00
DG-R1S-3.5-4 (720-90388- 10)	B114224	No	None Detected	0.00

REVIEWED BY: 

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40554.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90388-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/2/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-T1S-0.5-1 (720-90388-6MSD)	12/17/18	13:45 Pacific	MSD	Solid			X	0	use same jar please
DG-T1S-3.5-4 (720-90388-7)	12/17/18	13:45 Pacific		Solid			X	1	
DUP-03 (720-90388-8)	12/17/18	Pacific		Solid			X	1	
DG-R1S-0.5-1 (720-90388-9)	12/17/18	14:25 Pacific		Solid			X	1	
DG-R1S-3.5-4 (720-90388-10)	12/17/18	14:25 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/18/18 1237	TAALS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

B188989 (10) B114215-B114224

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40554.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90388-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/2/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-X1S-0.5-1.0 (720-90388-1)	12/17/18	10:30 Pacific		Solid			X	1	
DG-X1S-3.5-4 (720-90388-2)	12/17/18	10:30 Pacific		Solid			X	1	
DG-X1S-3.5-4 (720-90388-2MS)	12/17/18	10:30 Pacific	MS	Solid			X	3	Use same jar please
DG-X1S-3.5-4 (720-90388-2MSD)	12/17/18	10:30 Pacific	MSD	Solid			X	3	
DUP-04 (720-90388-3)	12/17/18	Pacific		Solid			X	1	
DG-V1S-0.5-1 (720-90388-4)	12/17/18	11:30 Pacific		Solid			X	1	
DG-V1S-3.5-4 (720-90388-5)	12/17/18	11:30 Pacific		Solid			X	1	
DG-T1S-0.5-1 (720-90388-6)	12/17/18	13:45 Pacific		Solid			X	1	
DG-T1S-0.5-1 (720-90388-6MS)	12/17/18	13:45 Pacific	MS	Solid			X	3	Use same jar please

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		12/18/18 1737	TAPLS	CD	12/19 12:30	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600.3002

720-90388

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187420
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/17/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Billy Linker
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90388 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1.	DG-X1S-0.5-1	12/17/18	1030	G	S	7	N		X	X	X	X	X	X	X	
2.	DG-X1S-3.5-4		1030			12		X								
3.	DUP-04		—			7										
4.	DG-Y1S-0.5-1		1130			7										
5.	DG-Y1S-3.5-4		1130			7										
6.	DG-T1S-0.5-1		1345			12		X								
7.	DG-T1S-3.5-4		1345			7										
8.	DUP-03		—			7										
9.	DG-R1S-0.5-1		1425			7										
10.	DG-R1S-3.5-4		1425			7										
	—		—			—										
	—		—			—										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.3°C, 0.5°C, 4.0°C, 1.5°C, 2.7°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____	Corr'd ____	Therm ID No ____
Relinquished by	Company Geosyntec	Date/Time 12/17/18 1552	Received by	Company TA PLS	Date/Time 12-17-18 15:52
Relinquished by	Company TA PLS	Date/Time 18:46 12-17-18	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/17/18 1840

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Page 138 of 388

2/16/2019 (Rev. 1)

Reply all | Delete Junk |

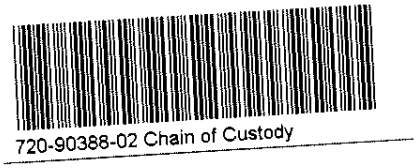
720-90388 Geosyntec-Brisbane Terra Cores sent to Irvine 12/17/18 without a COC

BT **Bullock, Tracy**
Today 3:53 AM
Patel, Urvashi; **Irvine - Sample Receiving**; Mullen, Joan; Dojlidko, Chris

Reply all |

Sent Items

SKM_454e18121803271...
95 KB



Download

FED-EX TRACKING # 4636 0276 5663

Shipped from 900 Gateway Blvd. So.San Francisco, CA 94080

720-90388 Geosyntec-Brisbane Terra Cores sent to Irvine 12/17/18 without a COC

From: sftai@testamericainc.com <sftai@testamericainc.com>
Sent: Tuesday, December 18, 2018 3:27 AM
To: Bullock, Tracy
Subject: Message from KM_454e

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080

Location: SQLA
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
463602765663

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Dec 17, 2018 4:32:17 PM

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40552.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90388-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/28/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW226 (MOD)-VOCs-1-ORO	8260B/CA_LUFTMS/5035A_F_FW226/CA-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 6082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-X1S-0.5-1.0 (720-90388-1)	12/17/18	10:30 Pacific		Solid			X	X	X	2	
DG-X1S-3.5-4 (720-90388-2)	12/17/18	10:30 Pacific		Solid			X	X	X	2	
DG-X1S-3.5-4 (720-90388-2MS)	12/17/18	10:30 Pacific	MS	Solid			X	X	X	2	
DG-X1S-3.5-4 (720-90388-2MSD)	12/17/18	10:30 Pacific	MSD	Solid			X	X	X	2	
DUP-04 (720-90388-3)	12/17/18	Pacific		Solid			X	X	X	2	
DG-V1S-0.5-1 (720-90388-4)	12/17/18	11:30 Pacific		Solid			X	X	X	2	
DG-V1S-3.5-4 (720-90388-5)	12/17/18	11:30 Pacific		Solid			X	X	X	2	
DG-T1S-0.5-1 (720-90388-6)	12/17/18	13:45 Pacific		Solid			X	X	X	2	
DG-T1S-0.5-1 (720-90388-6MS)	12/17/18	13:45 Pacific	MS	Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/18/18 1556	TAPS			
2					12/19/18 1030	TAPS
3						

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:
	9030 0270 5858	

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-40552.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90388-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/28/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project # 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_CA_LUFTMS/5035A_F_FW 8260 (MOD)_VOCs + 6HO-	8260B/CA_LUFTMS/5035A_F_FW 8260 C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-T1S-0.5-1 (720-90388-6MSD)	12/17/18	13:45 Pacific	MSD	Solid			X	X	X	5	
DG-T1S-3.5-4 (720-90388-7)	12/17/18	13:45 Pacific		Solid			X	X	X	5	
DUP-03 (720-90388-8)	12/17/18	Pacific		Solid			X	X	X	5	
DG-R1S-0.5-1 (720-90388-9)	12/17/18	14:25 Pacific		Solid			X	X	X	5	
DG-R1S-3.5-4 (720-90388-10)	12/17/18	14:25 Pacific		Solid			X	X	X	5	

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/18/18 1557	TAPS			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/19/18 0830	Company TAPS
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ○ Yes △ No | Custody Seal No.: 4963U 0770 5558

Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90388-1

Login Number: 90388
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90388-1

Login Number: 90388
List Number: 2
Creator: Avila, Stephanie 1

List Source: TestAmerica Irvine
List Creation: 12/18/18 04:40 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90410-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/7/2019 9:56:56 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90410-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90410-1

Comments
No additional comments.

Receipt
The samples were received on 12/18/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.2º C, 1.8º C, 2.6º C, 2.9º C, 3.9º C, 4.3º C and 5.0º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample FB-12.18 was marked for all analyses but lab only received 2 voas. Logged them for VOCs + GAS. Client instructed to proceed with VOC analysis for FB, see client email.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519965 recovered above the upper control limit for 4-Methyl-2-pentanone (MIBK), 2-Hexanone and Acetone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-N1W (720-90410-1), DG-O3W (720-90410-2), DG-S3W (720-90410-3), DG-U3W (720-90410-4), DG-W3W (720-90410-5), DG-Y3W (720-90410-6), FB-12.18.18 (720-90410-7), DG-AA3W (720-90410-8), DUP-15 (720-90410-9) and (CCVIS 440-519965/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: DG-U3W (720-90410-4) and DUP-15 (720-90410-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-518633 and analytical batch 440-518682. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-518633/2-A)

Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-518634 and analytical batch 440-518683. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-518634/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257456 and analytical batch 720-257686 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518634 for method 8015B.

Job ID: 720-90410-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume for method 8015B: DUP-15 (720-90410-9). The reporting limits (RLs) are elevated proportionately.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518633 method 8015B

Method 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume for method 8015B: DG-U3W (720-90410-4). The reporting limits (RLs) are elevated proportionately.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518777.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-N1W — Lab Sample ID: 720-90410-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.20		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	130	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	12		10	2.9	ug/L	1		6010B	Dissolved
Barium	51		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.85	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	5.0		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	5.1	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	7.5		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.6	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	8.4	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.0	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-O3W — Lab Sample ID: 720-90410-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	36		10	2.9	ug/L	1		6010B	Dissolved
Barium	40	J	50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.93	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.6	J	2.0	0.68	ug/L	1		6010B	Dissolved
Lead	6.8		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	7.1	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.1	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.5	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-S3W — Lab Sample ID: 720-90410-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.11	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1200		490	98	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1700		490	98	ug/L	1		8015B	Total/NA
Arsenic	24		10	2.9	ug/L	1		6010B	Dissolved
Barium	110		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.79	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.6	J	2.0	0.68	ug/L	1		6010B	Dissolved
Lead	12		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	8.7	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.4	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.0	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-U3W — Lab Sample ID: 720-90410-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.33	J	0.50	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	0.77		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	1.5		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Acenaphthene	0.25	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Phenanthrene	1.5		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Anthracene	0.36	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Chrysene	0.46		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[a]pyrene	0.26	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-U3W (Continued) — Lab Sample ID: 720-90410-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.46		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.24	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Fluoranthene	0.73		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Pyrene	0.77		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1000		970	190	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2600		970	190	ug/L	1		8015B	Total/NA
Arsenic	36		10	2.9	ug/L	1		6010B	Dissolved
Barium	14	J	50	1.6	ug/L	1		6010B	Dissolved
Lead	5.4		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	11		10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.4	J	10	1.0	ug/L	1		6010B	Dissolved

Client Sample ID: DG-W3W — Lab Sample ID: 720-90410-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.14	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.48		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.16	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.18	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.22		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.26		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.29		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.24		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.17	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	1.3		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	1.4		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	170	J	510	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130	J	510	100	ug/L	1		8015B	Total/NA
Arsenic	16		10	2.9	ug/L	1		6010B	Dissolved
Barium	42	J	50	1.6	ug/L	1		6010B	Dissolved
Cobalt	4.5		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	5.6	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	7.8		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	3.1	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	4.0	J	10	1.0	ug/L	1		6010B	Dissolved

Client Sample ID: DG-Y3W — Lab Sample ID: 720-90410-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.39	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.16	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.15	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.53		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.15	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.29		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.41		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.72		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.76		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.24		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.78		0.20	0.10	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-Y3W (Continued) — Lab Sample ID: 720-90410-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.63		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	1.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	1.5		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	240	J	530	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	180	J	530	110	ug/L	1		8015B	Total/NA
Arsenic	24		10	2.9	ug/L	1		6010B	Dissolved
Barium	79		50	1.6	ug/L	1		6010B	Dissolved
Cobalt	9.4		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	9.5		5.0	2.2	ug/L	1		6010B	Dissolved
Nickel	7.0	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	8.7	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: FB-12.18.18 — Lab Sample ID: 720-90410-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - RA	63		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: DG-AA3W — Lab Sample ID: 720-90410-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.7		0.50	0.25	ug/L	1		8260B	Total/NA
Phenanthrene	0.19	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.11	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.11	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.16	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.10	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.19	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.27		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	280	J	560	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	210	J	560	110	ug/L	1		8015B	Total/NA
Arsenic	27		10	2.9	ug/L	1		6010B	Dissolved
Barium	310		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.3	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	12		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	7.2	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	9.7		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	14		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.5	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DUP-15 — Lab Sample ID: 720-90410-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.71		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.87		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Acenaphthene	0.30	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Phenanthrene	1.1		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Anthracene	0.34	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Chrysene	0.43		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[a]pyrene	0.23	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DUP-15 (Continued)

Lab Sample ID: 720-90410-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.46		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.21	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Fluoranthene	0.64		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Pyrene	0.67		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	310	J	1100	220	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	750	J	1100	220	ug/L	1		8015B	Total/NA
Arsenic	38		10	2.9	ug/L	1		6010B	Dissolved
Barium	15	J	50	1.6	ug/L	1		6010B	Dissolved
Lead	4.3	J	5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	11		10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.2	J	10	1.0	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N1W
Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*12/29/18 09:37*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*12/29/18 09:37*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*12/29/18 09:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Acetone	ND		20	10	ug/L			12/29/18 09:37	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 09:37	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 09:37	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 09:37	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 09:37	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 09:37	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 09:37	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 09:37	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 09:37	1

Client Sample ID: DG-N1W
Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 09:37	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 09:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 09:37	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 09:37	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 09:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 09:37	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 09:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 09:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 09:37	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 09:37	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 09:37	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*12/29/18 09:37*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*12/29/18 09:37*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Acenaphthene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Acenaphthylene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Fluorene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Phenanthrene	**0.20**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Anthracene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Chrysene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Fluoranthene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Pyrene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 18:37	1

Client Sample ID: DG-N1W

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*62*		*21 - 120*	*12/21/18 14:11*	*12/26/18 18:37*	*1*
Nitrobenzene-d5	*83*		*10 - 120*	*12/21/18 14:11*	*12/26/18 18:37*	*1*
2-Fluorobiphenyl (Surr)	*89*		*38 - 120*	*12/21/18 14:11*	*12/26/18 18:37*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**	**J**	480	96	ug/L		12/21/18 06:02	12/28/18 19:39	1
Motor Oil Range Organics [C24-C36]	ND		480	96	ug/L		12/21/18 06:02	12/28/18 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*67*		*45 - 120*	*12/21/18 06:02*	*12/28/18 19:39*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 13:45	1
Arsenic	**12**		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:45	1
Barium	**51**		50	1.6	ug/L		12/21/18 14:27	12/27/18 13:45	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 13:45	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 13:45	1
Chromium	**0.85**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 13:45	1
Cobalt	**5.0**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 13:45	1
Copper	**5.1**	**J**	20	3.7	ug/L		12/21/18 14:27	12/27/18 13:45	1
Lead	**7.5**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 13:45	1
Molybdenum	**4.6**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 13:45	1
Nickel	**8.4**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 13:45	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 13:45	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 13:45	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 13:45	1
Vanadium	**1.0**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 13:45	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 13:45	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/20/18 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/18/18 21:54	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-O3W
Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 11:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*12/29/18 11:13*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*12/29/18 11:13*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*12/29/18 11:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Acetone	ND		20	10	ug/L			12/29/18 11:13	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 11:13	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 11:13	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 11:13	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 11:13	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 11:13	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 11:13	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 11:13	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 11:13	1

Client Sample ID: DG-O3W
Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 11:13	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 11:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 11:13	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 11:13	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 11:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 11:13	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 11:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 11:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 11:13	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 11:13	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 11:13	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 11:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*12/29/18 11:13*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*12/29/18 11:13*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Acenaphthene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Acenaphthylene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Fluorene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Phenanthrene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Anthracene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Chrysene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Fluoranthene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Pyrene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		12/21/18 14:11	12/26/18 19:26	1

Client Sample ID: DG-O3W

Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*58*		*21 - 120*	*12/21/18 14:11*	*12/26/18 19:26*	*1*
Nitrobenzene-d5	*81*		*10 - 120*	*12/21/18 14:11*	*12/26/18 19:26*	*1*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*	*12/21/18 14:11*	*12/26/18 19:26*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		560	110	ug/L		12/21/18 06:02	12/28/18 20:00	1
Motor Oil Range Organics [C24-C36]	ND		560	110	ug/L		12/21/18 06:02	12/28/18 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*72*		*45 - 120*	*12/21/18 06:02*	*12/28/18 20:00*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 13:50	1
Arsenic	**36**		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:50	1
Barium	**40**	**J**	50	1.6	ug/L		12/21/18 14:27	12/27/18 13:50	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 13:50	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 13:50	1
Chromium	**0.93**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 13:50	1
Cobalt	**1.6**	**J**	2.0	0.68	ug/L		12/21/18 14:27	12/27/18 13:50	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 13:50	1
Lead	**6.8**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 13:50	1
Molybdenum	**7.1**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 13:50	1
Nickel	**2.1**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 13:50	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 13:50	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 13:50	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 13:50	1
Vanadium	**1.5**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 13:50	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 13:50	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/20/18 19:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/18/18 21:54	1

Client Sample ID: DG-S3W
Date Collected: 12/18/18 13:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*12/29/18 11:36*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/29/18 11:36*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*12/29/18 11:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Acetone	ND		20	10	ug/L			12/29/18 11:36	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 11:36	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 11:36	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 11:36	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 11:36	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 11:36	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 11:36	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 11:36	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 11:36	1

Client Sample ID: DG-S3W
Date Collected: 12/18/18 13:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 11:36	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 11:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 11:36	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 11:36	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 11:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 11:36	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 11:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 11:36	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 11:36	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 11:36	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*12/29/18 11:36*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*12/29/18 11:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Acenaphthene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Fluorene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Phenanthrene	**0.11**	**J**	0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Anthracene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Chrysene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Fluoranthene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Pyrene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		12/21/18 14:11	12/26/18 19:02	1

Client Sample ID: DG-S3W

Date Collected: 12/18/18 13:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*42*		*21 - 120*	*12/21/18 14:11*	*12/26/18 19:02*	*1*
Nitrobenzene-d5	*92*		*10 - 120*	*12/21/18 14:11*	*12/26/18 19:02*	*1*
2-Fluorobiphenyl (Surr)	*87*		*38 - 120*	*12/21/18 14:11*	*12/26/18 19:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1200**		490	98	ug/L		12/21/18 06:02	12/28/18 23:44	1
Motor Oil Range Organics [C24-C36]	**1700**		490	98	ug/L		12/21/18 06:02	12/28/18 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*12/21/18 06:02*	*12/28/18 23:44*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 13:54	1
Arsenic	**24**		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:54	1
Barium	**110**		50	1.6	ug/L		12/21/18 14:27	12/27/18 13:54	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 13:54	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 13:54	1
Chromium	**0.79**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 13:54	1
Cobalt	**1.6**	**J**	2.0	0.68	ug/L		12/21/18 14:27	12/27/18 13:54	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 13:54	1
Lead	**12**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 13:54	1
Molybdenum	**8.7**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 13:54	1
Nickel	**1.4**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 13:54	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 13:54	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 13:54	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 13:54	1
Vanadium	**2.0**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 13:54	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 13:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/20/18 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/18/18 21:54	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-U3W
Date Collected: 12/18/18 13:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*12/29/18 12:00*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/29/18 12:00*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*12/29/18 12:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Acetone	ND		20	10	ug/L			12/29/18 12:00	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 12:00	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 12:00	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 12:00	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 12:00	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 12:00	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 12:00	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 12:00	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
cis-1,2-Dichloroethene	**0.33**	**J**	0.50	0.25	ug/L			12/29/18 12:00	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 12:00	1

Client Sample ID: DG-U3W

Date Collected: 12/18/18 13:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 12:00	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 12:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 12:00	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 12:00	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:00	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Trichloroethene	**0.77**		0.50	0.25	ug/L			12/29/18 12:00	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 12:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 12:00	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 12:00	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 12:00	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*12/29/18 12:00*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*12/29/18 12:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.5**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Acenaphthene	**0.25**	**J**	0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Acenaphthylene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Fluorene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Phenanthrene	**1.5**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Anthracene	**0.36**	**J**	0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Benzo[a]anthracene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Chrysene	**0.46**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Benzo[a]pyrene	**0.26**	**J**	0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Benzo[b]fluoranthene	**0.46**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Benzo[k]fluoranthene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Benzo[g,h,i]perylene	**0.24**	**J**	0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Indeno[1,2,3-cd]pyrene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Fluoranthene	**0.73**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Pyrene	**0.77**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2
Dibenz(a,h)anthracene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:00	2

Client Sample ID: DG-U3W

Date Collected: 12/18/18 13:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*53*		*21 - 120*	*12/21/18 14:11*	*12/31/18 15:00*	*2*
Nitrobenzene-d5	*84*		*10 - 120*	*12/21/18 14:11*	*12/31/18 15:00*	*2*
2-Fluorobiphenyl (Surr)	*66*		*38 - 120*	*12/21/18 14:11*	*12/31/18 15:00*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1000**		970	190	ug/L		12/21/18 06:02	12/29/18 00:04	1
Motor Oil Range Organics [C24-C36]	**2600**		970	190	ug/L		12/21/18 06:02	12/29/18 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*12/21/18 06:02*	*12/29/18 00:04*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 13:59	1
Arsenic	**36**		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:59	1
Barium	**14**	**J**	50	1.6	ug/L		12/21/18 14:27	12/27/18 13:59	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 13:59	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 13:59	1
Chromium	ND		10	0.70	ug/L		12/21/18 14:27	12/27/18 13:59	1
Cobalt	ND		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 13:59	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 13:59	1
Lead	**5.4**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 13:59	1
Molybdenum	**11**		10	2.9	ug/L		12/21/18 14:27	12/27/18 13:59	1
Nickel	**1.4**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 13:59	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 13:59	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 13:59	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 13:59	1
Vanadium	ND		10	0.87	ug/L		12/21/18 14:27	12/27/18 13:59	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 13:59	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/21/18 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/18/18 21:54	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-W3W
Date Collected: 12/18/18 14:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*12/29/18 12:25*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/29/18 12:25*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*12/29/18 12:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Acetone	ND		20	10	ug/L			12/29/18 12:25	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 12:25	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 12:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 12:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 12:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 12:25	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 12:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 12:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 12:25	1

Client Sample ID: DG-W3W

Date Collected: 12/18/18 14:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 12:25	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 12:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 12:25	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 12:25	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 12:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 12:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 12:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 12:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*12/29/18 12:25*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*12/29/18 12:25*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Acenaphthene	**0.14**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Acenaphthylene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Fluorene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Phenanthrene	**0.48**		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Anthracene	**0.16**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Benzo[a]anthracene	**0.18**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Chrysene	**0.22**		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Benzo[a]pyrene	**0.26**		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Benzo[b]fluoranthene	**0.29**		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Benzo[g,h,i]perylene	**0.24**		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Indeno[1,2,3-cd]pyrene	**0.17**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Fluoranthene	**1.3**		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Pyrene	**1.4**		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 19:51	1

Client Sample ID: DG-W3W

Date Collected: 12/18/18 14:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*64*		*21 - 120*	*12/21/18 14:11*	*12/26/18 19:51*	*1*
Nitrobenzene-d5	*72*		*10 - 120*	*12/21/18 14:11*	*12/26/18 19:51*	*1*
2-Fluorobiphenyl (Surr)	*79*		*38 - 120*	*12/21/18 14:11*	*12/26/18 19:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**	**J**	510	100	ug/L		12/21/18 06:13	12/27/18 11:57	1
Motor Oil Range Organics [C24-C36]	**130**	**J**	510	100	ug/L		12/21/18 06:13	12/27/18 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*58*		*45 - 120*	*12/21/18 06:13*	*12/27/18 11:57*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:04	1
Arsenic	**16**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:04	1
Barium	**42**	**J**	50	1.6	ug/L		12/21/18 14:27	12/27/18 14:04	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:04	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:04	1
Chromium	ND		10	0.70	ug/L		12/21/18 14:27	12/27/18 14:04	1
Cobalt	**4.5**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:04	1
Copper	**5.6**	**J**	20	3.7	ug/L		12/21/18 14:27	12/27/18 14:04	1
Lead	**7.8**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:04	1
Molybdenum	**3.1**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 14:04	1
Nickel	**4.0**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 14:04	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:04	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:04	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:04	1
Vanadium	ND		10	0.87	ug/L		12/21/18 14:27	12/27/18 14:04	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 14:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/21/18 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/18/18 21:54	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-Y3W
Date Collected: 12/18/18 15:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*12/29/18 12:48*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/29/18 12:48*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*12/29/18 12:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.39**	**J**	0.50	0.25	ug/L			12/29/18 12:48	1
Acetone	ND		20	10	ug/L			12/29/18 12:48	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 12:48	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 12:48	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 12:48	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 12:48	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 12:48	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 12:48	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 12:48	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 12:48	1

Client Sample ID: DG-Y3W

Date Collected: 12/18/18 15:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 12:48	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 12:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 12:48	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 12:48	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:48	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 12:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 12:48	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 12:48	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 12:48	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*12/29/18 12:48*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*12/29/18 12:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.16**	**J**	0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Acenaphthene	**0.15**	**J**	0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Acenaphthylene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Fluorene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Phenanthrene	**0.53**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Anthracene	**0.15**	**J**	0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Benzo[a]anthracene	**0.29**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Chrysene	**0.41**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Benzo[a]pyrene	**0.72**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Benzo[b]fluoranthene	**0.76**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Benzo[k]fluoranthene	**0.24**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Benzo[g,h,i]perylene	**0.78**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Indeno[1,2,3-cd]pyrene	**0.63**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Fluoranthene	**1.2**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Pyrene	**1.5**		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/26/18 20:15	1

Client Sample ID: DG-Y3W

Date Collected: 12/18/18 15:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*61*		*21 - 120*	*12/21/18 14:11*	*12/26/18 20:15*	*1*
Nitrobenzene-d5	*102*		*10 - 120*	*12/21/18 14:11*	*12/26/18 20:15*	*1*
2-Fluorobiphenyl (Surr)	*99*		*38 - 120*	*12/21/18 14:11*	*12/26/18 20:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**240**	**J**	530	110	ug/L		12/21/18 06:13	12/27/18 12:19	1
Motor Oil Range Organics [C24-C36]	**180**	**J**	530	110	ug/L		12/21/18 06:13	12/27/18 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*67*		*45 - 120*	*12/21/18 06:13*	*12/27/18 12:19*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:09	1
Arsenic	**24**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:09	1
Barium	**79**		50	1.6	ug/L		12/21/18 14:27	12/27/18 14:09	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:09	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:09	1
Chromium	ND		10	0.70	ug/L		12/21/18 14:27	12/27/18 14:09	1
Cobalt	**9.4**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:09	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 14:09	1
Lead	**9.5**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:09	1
Molybdenum	ND		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:09	1
Nickel	**7.0**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 14:09	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:09	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:09	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:09	1
Vanadium	ND		10	0.87	ug/L		12/21/18 14:27	12/27/18 14:09	1
Zinc	**8.7**	**J**	20	7.4	ug/L		12/21/18 14:27	12/27/18 14:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/31/18 09:26	12/31/18 16:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/18/18 22:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: FB-12.18.18
Date Collected: 12/18/18 15:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*12/29/18 13:13*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*12/29/18 13:13*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*12/29/18 13:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 13:13	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 13:13	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 13:13	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 13:13	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 13:13	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 13:13	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 13:13	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 13:13	1

Client Sample ID: FB-12.18.18
Date Collected: 12/18/18 15:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 13:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 13:13	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 13:13	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 13:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 13:13	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 13:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 13:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 13:13	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 13:13	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 13:13	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*12/29/18 13:13*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*12/29/18 13:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**63**		20	10	ug/L			12/31/18 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*		*12/31/18 15:23*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/31/18 15:23*	*1*

Client Sample ID: DG-AA3W
Date Collected: 12/18/18 15:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-8
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*12/29/18 13:36*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/29/18 13:36*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*12/29/18 13:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.7**		0.50	0.25	ug/L			12/29/18 13:36	1
Acetone	ND		20	10	ug/L			12/29/18 13:36	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 13:36	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 13:36	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 13:36	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 13:36	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 13:36	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 13:36	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 13:36	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 13:36	1

Client Sample ID: DG-AA3W
Date Collected: 12/18/18 15:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 13:36	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 13:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 13:36	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 13:36	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 13:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 13:36	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 13:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 13:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 13:36	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 13:36	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 13:36	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*12/29/18 13:36*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*12/29/18 13:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Acenaphthene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Acenaphthylene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Fluorene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Phenanthrene	**0.19**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Anthracene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Chrysene	**0.11**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Benzo[a]pyrene	**0.11**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Benzo[b]fluoranthene	**0.16**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Benzo[g,h,i]perylene	**0.10**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Fluoranthene	**0.19**	**J**	0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Pyrene	**0.27**		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		12/21/18 14:11	12/26/18 20:39	1

Client Sample ID: DG-AA3W

Date Collected: 12/18/18 15:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*76*		*21 - 120*	*12/21/18 14:11*	*12/26/18 20:39*	*1*
Nitrobenzene-d5	*87*		*10 - 120*	*12/21/18 14:11*	*12/26/18 20:39*	*1*
2-Fluorobiphenyl (Surr)	*101*		*38 - 120*	*12/21/18 14:11*	*12/26/18 20:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**280**	**J**	560	110	ug/L		12/21/18 06:13	12/27/18 12:41	1
Motor Oil Range Organics [C24-C36]	**210**	**J**	560	110	ug/L		12/21/18 06:13	12/27/18 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*53*		*45 - 120*	*12/21/18 06:13*	*12/27/18 12:41*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:13	1
Arsenic	**27**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:13	1
Barium	**310**		50	1.6	ug/L		12/21/18 14:27	12/27/18 14:13	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:13	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:13	1
Chromium	**1.3**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 14:13	1
Cobalt	**12**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:13	1
Copper	**7.2**	**J**	20	3.7	ug/L		12/21/18 14:27	12/27/18 14:13	1
Lead	**9.7**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:13	1
Molybdenum	**4.9**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 14:13	1
Nickel	**14**		10	1.0	ug/L		12/21/18 14:27	12/27/18 14:13	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:13	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:13	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:13	1
Vanadium	**1.5**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 14:13	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 14:13	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/31/18 09:26	12/31/18 16:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/18/18 22:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DUP-15
Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-9
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*12/29/18 14:00*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*12/29/18 14:00*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*12/29/18 14:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Acetone	ND		20	10	ug/L			12/29/18 14:00	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 14:00	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 14:00	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 14:00	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 14:00	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 14:00	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 14:00	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 14:00	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 14:00	1

Client Sample ID: DUP-15
Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 14:00	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 14:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 14:00	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 14:00	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 14:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 14:00	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Trichloroethene	**0.71**		0.50	0.25	ug/L			12/29/18 14:00	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 14:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 14:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 14:00	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 14:00	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 14:00	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*12/29/18 14:00*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*12/29/18 14:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.87**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Acenaphthene	**0.30**	**J**	0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Acenaphthylene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Fluorene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Phenanthrene	**1.1**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Anthracene	**0.34**	**J**	0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Benzo[a]anthracene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Chrysene	**0.43**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Benzo[a]pyrene	**0.23**	**J**	0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Benzo[b]fluoranthene	**0.46**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Benzo[k]fluoranthene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Benzo[g,h,i]perylene	**0.21**	**J**	0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Indeno[1,2,3-cd]pyrene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Fluoranthene	**0.64**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Pyrene	**0.67**		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2
Dibenz(a,h)anthracene	ND		0.40	0.20	ug/L		12/21/18 14:11	12/31/18 15:24	2

Client Sample ID: DUP-15

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*79*		*21 - 120*	*12/21/18 14:11*	*12/31/18 15:24*	*2*
Nitrobenzene-d5	*75*		*10 - 120*	*12/21/18 14:11*	*12/31/18 15:24*	*2*
2-Fluorobiphenyl (Surr)	*82*		*38 - 120*	*12/21/18 14:11*	*12/31/18 15:24*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**310**	**J**	1100	220	ug/L		12/21/18 06:13	12/27/18 10:08	1
Motor Oil Range Organics [C24-C36]	**750**	**J**	1100	220	ug/L		12/21/18 06:13	12/27/18 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*12/21/18 06:13*	*12/27/18 10:08*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:18	1
Arsenic	**38**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:18	1
Barium	**15**	**J**	50	1.6	ug/L		12/21/18 14:27	12/27/18 14:18	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:18	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:18	1
Chromium	ND		10	0.70	ug/L		12/21/18 14:27	12/27/18 14:18	1
Cobalt	ND		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:18	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 14:18	1
Lead	**4.3**	**J**	5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:18	1
Molybdenum	**11**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:18	1
Nickel	**1.2**	**J**	10	1.0	ug/L		12/21/18 14:27	12/27/18 14:18	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:18	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:18	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:18	1
Vanadium	ND		10	0.87	ug/L		12/21/18 14:27	12/27/18 14:18	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 14:18	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/31/18 09:26	12/31/18 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/18/18 22:00	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-228734-E-1 MS	Matrix Spike	119	101
440-228734-E-1 MSD	Matrix Spike Duplicate	113	95
720-90410-1	DG-N1W	108	104
720-90410-1 MS	DG-N1W	107	101
720-90410-1 MSD	DG-N1W	108	99
720-90410-2	DG-O3W	107	107
720-90410-3	DG-S3W	112	105
720-90410-4	DG-U3W	108	104
720-90410-5	DG-W3W	113	102
720-90410-6	DG-Y3W	114	101
720-90410-7	FB-12.18.18	113	103
720-90410-7 - RA	FB-12.18.18	124	98
720-90410-8	DG-AA3W	113	103
720-90410-9	DUP-15	113	103
LCS 440-519965/5	Lab Control Sample	110	101
LCS 440-520102/5	Lab Control Sample	117	103
MB 440-519965/4	Method Blank	111	102
MB 440-520102/4	Method Blank	125	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
720-90410-1	DG-N1W	102	109	104
720-90410-1 MS	DG-N1W	98	108	101
720-90410-1 MSD	DG-N1W	97	108	99
720-90410-2	DG-O3W	99	109	107
720-90410-3	DG-S3W	101	108	105
720-90410-4	DG-U3W	102	108	104
720-90410-5	DG-W3W	102	107	102
720-90410-6	DG-Y3W	103	107	101
720-90410-7	FB-12.18.18	101	110	103
720-90410-8	DG-AA3W	104	106	103
720-90410-9	DUP-15	101	109	103
LCS 440-519966/6	Lab Control Sample	101	109	105
MB 440-519966/4	Method Blank	101	106	102

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPHL	NBZ	FBP
Lab Sample ID	Client Sample ID	(21-120)	(10-120)	(38-120)
720-90410-1	DG-N1W	62	83	89
720-90410-2	DG-O3W	58	81	81
720-90410-3	DG-S3W	42	92	87
720-90410-4	DG-U3W	53	84	66
720-90410-5	DG-W3W	64	72	79
720-90410-6	DG-Y3W	61	102	99
720-90410-8	DG-AA3W	76	87	101
720-90410-9	DUP-15	79	75	82
LCS 440-518777/2-A	Lab Control Sample	94	81	84
LCSD 440-518777/3-A	Lab Control Sample Dup	79	73	79
MB 440-518777/1-A	Method Blank	93	82	87

Surrogate Legend

TPHL = Terphenyl-d14
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-90410-1	DG-N1W	67
720-90410-2	DG-O3W	72
720-90410-3	DG-S3W	70
720-90410-4	DG-U3W	69
720-90410-5	DG-W3W	58
720-90410-6	DG-Y3W	67
720-90410-8	DG-AA3W	53
720-90410-9	DUP-15	70
LCS 440-518633/2-A	Lab Control Sample	74
LCS 440-518634/2-A	Lab Control Sample	67
LCSD 440-518633/3-A	Lab Control Sample Dup	77
LCSD 440-518634/3-A	Lab Control Sample Dup	80
MB 440-518633/1-A	Method Blank	79
MB 440-518634/1-A	Method Blank	65

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-519965/4
Matrix: Water
Analysis Batch: 519965

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Acetone	ND		20	10	ug/L			12/29/18 08:25	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 08:25	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 08:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 08:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 08:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 08:25	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 08:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 08:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 08:25	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 08:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 08:25	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 08:25	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 08:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519965/4
Matrix: Water
Analysis Batch: 519965

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 08:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 08:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 08:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 08:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 08:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 08:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 08:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*12/29/18 08:25*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*12/29/18 08:25*	*1*

Lab Sample ID: LCS 440-519965/5
Matrix: Water
Analysis Batch: 519965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	22.3		ug/L		89	63 - 131
Acetone	25.0	30.9		ug/L		124	10 - 150
Benzene	25.0	23.3		ug/L		93	68 - 130
Dichlorobromomethane	25.0	25.1		ug/L		100	70 - 132
Bromobenzene	25.0	23.9		ug/L		96	70 - 130
Chlorobromomethane	25.0	22.9		ug/L		91	70 - 130
Bromoform	25.0	24.1		ug/L		96	60 - 148
Bromomethane	25.0	24.5		ug/L		98	64 - 139
2-Butanone (MEK)	25.0	24.0		ug/L		96	44 - 150
n-Butylbenzene	25.0	25.9		ug/L		103	65 - 150
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 138
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Carbon disulfide	25.0	23.6		ug/L		95	52 - 136
Carbon tetrachloride	25.0	22.8		ug/L		91	60 - 150
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130
Chloroethane	25.0	25.9		ug/L		104	64 - 135
Chloroform	25.0	23.8		ug/L		95	70 - 130
Chloromethane	25.0	23.3		ug/L		93	47 - 140
2-Chlorotoluene	25.0	25.1		ug/L		100	70 - 130
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519965/5
Matrix: Water
Analysis Batch: 519965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	25.0		ug/L		100	69 - 145
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,3-Dichloropropane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	23.0		ug/L		92	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.3		ug/L		105	52 - 140
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Dibromomethane	25.0	22.8		ug/L		91	70 - 130
Dichlorodifluoromethane	25.0	17.4		ug/L		70	29 - 150
1,1-Dichloroethane	25.0	25.4		ug/L		101	64 - 130
1,2-Dichloroethane	25.0	24.7		ug/L		99	57 - 138
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
cis-1,2-Dichloroethene	25.0	23.1		ug/L		93	70 - 133
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
1,2-Dichloropropane	25.0	27.6		ug/L		111	67 - 130
cis-1,3-Dichloropropene	25.0	27.8		ug/L		111	70 - 133
trans-1,3-Dichloropropene	25.0	27.4		ug/L		110	70 - 132
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130
Hexachlorobutadiene	25.0	19.9		ug/L		80	10 - 150
2-Hexanone	25.0	37.5		ug/L		150	10 - 150
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 136
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 132
Methylene Chloride	25.0	22.8		ug/L		91	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	36.9		ug/L		148	59 - 149
Naphthalene	25.0	22.0		ug/L		88	60 - 140
N-Propylbenzene	25.0	26.0		ug/L		104	67 - 139
Styrene	25.0	23.9		ug/L		95	70 - 134
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	60 - 141
1,1,2,2-Tetrachloroethane	25.0	27.9		ug/L		111	63 - 130
Tetrachloroethene	25.0	21.6		ug/L		86	70 - 130
Toluene	25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	25.0	20.7		ug/L		83	60 - 140
1,2,4-Trichlorobenzene	25.0	21.1		ug/L		84	60 - 140
1,1,1-Trichloroethane	25.0	23.3		ug/L		93	70 - 130
1,1,2-Trichloroethane	25.0	27.6		ug/L		110	70 - 130
Trichloroethene	25.0	21.8		ug/L		87	70 - 130
Trichlorofluoromethane	25.0	23.1		ug/L		93	60 - 150
1,2,3-Trichloropropane	25.0	27.3		ug/L		109	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.8		ug/L		91	60 - 140
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 135
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 136
Vinyl acetate	25.0	34.0		ug/L		136	48 - 140
Vinyl chloride	25.0	21.1		ug/L		84	59 - 133
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 130
o-Xylene	25.0	23.4		ug/L		94	70 - 130
2,2-Dichloropropane	25.0	23.5		ug/L		94	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519965/5
Matrix: Water
Analysis Batch: 519965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 720-90410-1 MS
Matrix: Water
Analysis Batch: 519965

Client Sample ID: DG-N1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	22.3		ug/L		89	70 - 130
Acetone	ND		25.0	36.0		ug/L		144	10 - 150
Benzene	ND		25.0	22.4		ug/L		90	66 - 130
Dichlorobromomethane	ND		25.0	23.7		ug/L		95	70 - 138
Bromobenzene	ND		25.0	23.7		ug/L		95	70 - 130
Chlorobromomethane	ND		25.0	22.0		ug/L		88	70 - 130
Bromoform	ND		25.0	22.7		ug/L		91	59 - 150
Bromomethane	ND		25.0	24.2		ug/L		97	62 - 131
2-Butanone (MEK)	ND		25.0	23.5		ug/L		94	48 - 140
n-Butylbenzene	ND		25.0	26.1		ug/L		104	61 - 149
sec-Butylbenzene	ND		25.0	25.3		ug/L		101	67 - 134
tert-Butylbenzene	ND		25.0	24.4		ug/L		98	70 - 130
Carbon disulfide	ND		25.0	23.7		ug/L		95	49 - 140
Carbon tetrachloride	ND		25.0	22.8		ug/L		91	60 - 150
Chlorobenzene	ND		25.0	22.5		ug/L		90	70 - 130
Chloroethane	ND		25.0	25.3		ug/L		101	68 - 130
Chloroform	ND		25.0	23.2		ug/L		93	70 - 130
Chloromethane	ND		25.0	23.0		ug/L		92	39 - 144
2-Chlorotoluene	ND		25.0	24.7		ug/L		99	70 - 130
4-Chlorotoluene	ND		25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	ND		25.0	23.9		ug/L		95	70 - 148
1,2-Dichlorobenzene	ND		25.0	23.1		ug/L		92	70 - 130
1,3-Dichlorobenzene	ND		25.0	23.6		ug/L		94	70 - 130
1,4-Dichlorobenzene	ND		25.0	23.6		ug/L		94	70 - 130
1,3-Dichloropropane	ND		25.0	25.1		ug/L		100	70 - 130
1,1-Dichloropropene	ND		25.0	23.0		ug/L		92	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	25.9		ug/L		103	48 - 140
Ethylene Dibromide	ND		25.0	23.6		ug/L		95	70 - 131
Dibromomethane	ND		25.0	21.7		ug/L		87	70 - 130
Dichlorodifluoromethane	ND		25.0	18.1		ug/L		72	25 - 142
1,1-Dichloroethane	ND		25.0	24.6		ug/L		98	65 - 130
1,2-Dichloroethane	ND		25.0	23.4		ug/L		93	56 - 146
1,1-Dichloroethene	ND		25.0	23.9		ug/L		96	70 - 130
cis-1,2-Dichloroethene	ND		25.0	22.4		ug/L		89	70 - 130
trans-1,2-Dichloroethene	ND		25.0	23.3		ug/L		93	70 - 130
1,2-Dichloropropane	ND		25.0	26.5		ug/L		106	69 - 130
cis-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	70 - 133
trans-1,3-Dichloropropene	ND		25.0	26.0		ug/L		104	70 - 138
Ethylbenzene	ND		25.0	23.5		ug/L		94	70 - 130
Hexachlorobutadiene	ND		25.0	19.3		ug/L		77	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90410-1 MS
Matrix: Water
Analysis Batch: 519965

Client Sample ID: DG-N1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	36.3		ug/L		145	10 - 150
Isopropylbenzene	ND		25.0	23.3		ug/L		93	70 - 132
4-Isopropyltoluene	ND		25.0	24.4		ug/L		98	70 - 130
Methylene Chloride	ND		25.0	22.3		ug/L		89	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	35.4		ug/L		142	52 - 150
Naphthalene	ND		25.0	21.4		ug/L		86	60 - 140
N-Propylbenzene	ND		25.0	25.8		ug/L		103	66 - 135
Styrene	ND		25.0	22.6		ug/L		90	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	23.3		ug/L		93	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	63 - 130
Tetrachloroethene	ND		25.0	21.7		ug/L		87	70 - 137
Toluene	ND		25.0	23.0		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	20.6		ug/L		82	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	20.7		ug/L		83	60 - 140
1,1,1-Trichloroethane	ND		25.0	23.2		ug/L		93	70 - 130
1,1,2-Trichloroethane	ND		25.0	26.1		ug/L		105	70 - 130
Trichloroethene	ND		25.0	21.0		ug/L		84	70 - 130
Trichlorofluoromethane	ND		25.0	23.2		ug/L		93	60 - 150
1,2,3-Trichloropropane	ND		25.0	26.2		ug/L		105	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.9		ug/L		92	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	24.5		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	24.6		ug/L		98	70 - 130
Vinyl acetate	ND		25.0	31.5		ug/L		126	23 - 150
Vinyl chloride	ND		25.0	21.4		ug/L		86	50 - 137
m-Xylene & p-Xylene	ND		25.0	23.5		ug/L		94	70 - 133
o-Xylene	ND		25.0	22.9		ug/L		91	70 - 133
2,2-Dichloropropane	ND		25.0	23.3		ug/L		93	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 720-90410-1 MSD
Matrix: Water
Analysis Batch: 519965

Client Sample ID: DG-N1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	21.4		ug/L		86	70 - 130	4	25
Acetone	ND		25.0	35.3		ug/L		141	10 - 150	2	35
Benzene	ND		25.0	22.0		ug/L		88	66 - 130	2	20
Dichlorobromomethane	ND		25.0	22.9		ug/L		92	70 - 138	3	20
Bromobenzene	ND		25.0	22.9		ug/L		92	70 - 130	3	20
Chlorobromomethane	ND		25.0	21.4		ug/L		86	70 - 130	3	25
Bromoform	ND		25.0	21.2		ug/L		85	59 - 150	7	25
Bromomethane	ND		25.0	23.4		ug/L		94	62 - 131	4	25
2-Butanone (MEK)	ND		25.0	23.8		ug/L		95	48 - 140	1	40
n-Butylbenzene	ND		25.0	24.9		ug/L		100	61 - 149	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90410-1 MSD
Matrix: Water
Analysis Batch: 519965

Client Sample ID: DG-N1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	24.6		ug/L		98	67 - 134	3	20
tert-Butylbenzene	ND		25.0	23.5		ug/L		94	70 - 130	4	20
Carbon disulfide	ND		25.0	22.6		ug/L		91	49 - 140	5	20
Carbon tetrachloride	ND		25.0	21.5		ug/L		86	60 - 150	6	25
Chlorobenzene	ND		25.0	21.2		ug/L		85	70 - 130	6	20
Chloroethane	ND		25.0	24.2		ug/L		97	68 - 130	4	25
Chloroform	ND		25.0	22.5		ug/L		90	70 - 130	3	20
Chloromethane	ND		25.0	22.8		ug/L		91	39 - 144	1	25
2-Chlorotoluene	ND		25.0	24.3		ug/L		97	70 - 130	1	20
4-Chlorotoluene	ND		25.0	24.5		ug/L		98	70 - 130	3	20
Chlorodibromomethane	ND		25.0	22.2		ug/L		89	70 - 148	7	25
1,2-Dichlorobenzene	ND		25.0	21.7		ug/L		87	70 - 130	6	20
1,3-Dichlorobenzene	ND		25.0	22.9		ug/L		91	70 - 130	3	20
1,4-Dichlorobenzene	ND		25.0	22.7		ug/L		91	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	23.6		ug/L		94	70 - 130	6	25
1,1-Dichloropropene	ND		25.0	22.4		ug/L		90	64 - 130	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.2		ug/L		97	48 - 140	7	30
Ethylene Dibromide	ND		25.0	21.8		ug/L		87	70 - 131	8	25
Dibromomethane	ND		25.0	21.0		ug/L		84	70 - 130	3	25
Dichlorodifluoromethane	ND		25.0	18.1		ug/L		72	25 - 142	0	30
1,1-Dichloroethane	ND		25.0	24.0		ug/L		96	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	22.4		ug/L		90	56 - 146	4	20
1,1-Dichloroethene	ND		25.0	23.1		ug/L		92	70 - 130	4	20
cis-1,2-Dichloroethene	ND		25.0	21.4		ug/L		85	70 - 130	5	20
trans-1,2-Dichloroethene	ND		25.0	22.4		ug/L		90	70 - 130	4	20
1,2-Dichloropropane	ND		25.0	25.8		ug/L		103	69 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	24.8		ug/L		99	70 - 133	4	20
trans-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	70 - 138	5	25
Ethylbenzene	ND		25.0	22.5		ug/L		90	70 - 130	5	20
Hexachlorobutadiene	ND		25.0	18.7		ug/L		75	10 - 150	3	20
2-Hexanone	ND		25.0	33.7		ug/L		135	10 - 150	8	35
Isopropylbenzene	ND		25.0	22.0		ug/L		88	70 - 132	6	20
4-Isopropyltoluene	ND		25.0	23.5		ug/L		94	70 - 130	4	20
Methylene Chloride	ND		25.0	21.3		ug/L		85	52 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	32.6		ug/L		130	52 - 150	8	35
Naphthalene	ND		25.0	21.3		ug/L		85	60 - 140	1	30
N-Propylbenzene	ND		25.0	25.0		ug/L		100	66 - 135	3	20
Styrene	ND		25.0	20.8		ug/L		83	29 - 150	8	35
1,1,1,2-Tetrachloroethane	ND		25.0	21.6		ug/L		86	60 - 149	8	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.9		ug/L		104	63 - 130	5	30
Tetrachloroethene	ND		25.0	19.9		ug/L		80	70 - 137	9	20
Toluene	ND		25.0	21.7		ug/L		87	70 - 130	6	20
1,2,3-Trichlorobenzene	ND		25.0	20.2		ug/L		81	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	20.0		ug/L		80	60 - 140	4	20
1,1,1-Trichloroethane	ND		25.0	22.4		ug/L		90	70 - 130	4	20
1,1,2-Trichloroethane	ND		25.0	25.7		ug/L		103	70 - 130	2	25
Trichloroethene	ND		25.0	20.3		ug/L		81	70 - 130	4	20
Trichlorofluoromethane	ND		25.0	22.8		ug/L		91	60 - 150	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90410-1 MSD
Matrix: Water
Analysis Batch: 519965

Client Sample ID: DG-N1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	24.4		ug/L		98	60 - 130	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.4		ug/L		90	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		25.0	23.2		ug/L		93	70 - 130	5	25
1,3,5-Trimethylbenzene	ND		25.0	23.3		ug/L		93	70 - 130	5	20
Vinyl acetate	ND		25.0	31.3		ug/L		125	23 - 150	1	30
Vinyl chloride	ND		25.0	21.1		ug/L		85	50 - 137	1	30
m-Xylene & p-Xylene	ND		25.0	22.0		ug/L		88	70 - 133	7	25
o-Xylene	ND		25.0	21.6		ug/L		86	70 - 133	6	20
2,2-Dichloropropane	ND		25.0	22.3		ug/L		89	69 - 138	5	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: MB 440-520102/4
Matrix: Water
Analysis Batch: 520102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			12/31/18 09:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*		*12/31/18 09:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*12/31/18 09:03*	*1*

Lab Sample ID: LCS 440-520102/5
Matrix: Water
Analysis Batch: 520102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			25.0	26.8		ug/L		107	10 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*103*		*80 - 128*

Lab Sample ID: 440-228734-E-1 MS
Matrix: Water
Analysis Batch: 520102

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	ND		25.0	33.3		ug/L		133	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228734-E-1 MSD
Matrix: Water
Analysis Batch: 520102

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	30.0		ug/L		120	10 - 150	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*95*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-519966/4
Matrix: Water
Analysis Batch: 519966

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*12/29/18 08:25*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*12/29/18 08:25*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*12/29/18 08:25*	*1*

Lab Sample ID: LCS 440-519966/6
Matrix: Water
Analysis Batch: 519966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	377		ug/L		75	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 128*

Lab Sample ID: 720-90410-1 MS
Matrix: Water
Analysis Batch: 519966

Client Sample ID: DG-N1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1600		ug/L		93	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*76 - 132*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90410-1 MSD
Matrix: Water
Analysis Batch: 519966

Client Sample ID: DG-N1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1560		ug/L		91	50 - 145	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*76 - 132*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-518777/1-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Acenaphthene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Acenaphthylene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Fluorene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Phenanthrene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Anthracene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Chrysene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Fluoranthene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Pyrene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/21/18 14:11	12/24/18 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*93*		*21 - 120*	*12/21/18 14:11*	*12/24/18 10:02*	*1*
Nitrobenzene-d5	*82*		*10 - 120*	*12/21/18 14:11*	*12/24/18 10:02*	*1*
2-Fluorobiphenyl (Surr)	*87*		*38 - 120*	*12/21/18 14:11*	*12/24/18 10:02*	*1*

Lab Sample ID: LCS 440-518777/2-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.733		ug/L		73	50 - 120
Acenaphthene	1.00	0.762		ug/L		76	55 - 120
Acenaphthylene	1.00	0.799		ug/L		80	53 - 120
Fluorene	1.00	0.859		ug/L		86	56 - 120
Phenanthrene	1.00	0.841		ug/L		84	56 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-518777/2-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518777

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene			1.00	0.796		ug/L		80	54 - 120		
Benzo[a]anthracene			1.00	0.818		ug/L		82	53 - 120		
Chrysene			1.00	0.852		ug/L		85	56 - 120		
Benzo[a]pyrene			1.00	0.764		ug/L		76	44 - 120		
Benzo[b]fluoranthene			1.00	0.800		ug/L		80	48 - 120		
Benzo[k]fluoranthene			1.00	0.832		ug/L		83	47 - 121		
Benzo[g,h,i]perylene			1.00	0.847		ug/L		85	41 - 123		
Indeno[1,2,3-cd]pyrene			1.00	1.05		ug/L		105	38 - 120		
Fluoranthene			1.00	0.852		ug/L		85	59 - 120		
Pyrene			1.00	0.870		ug/L		87	59 - 120		
Dibenz(a,h)anthracene			1.00	0.841		ug/L		84	38 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*94*		*21 - 120*
Nitrobenzene-d5	*81*		*10 - 120*
2-Fluorobiphenyl (Surr)	*84*		*38 - 120*

Lab Sample ID: LCSD 440-518777/3-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518777

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.00	0.664		ug/L		66	50 - 120	10	35
Acenaphthene			1.00	0.735		ug/L		74	55 - 120	4	35
Acenaphthylene			1.00	0.765		ug/L		76	53 - 120	4	35
Fluorene			1.00	0.802		ug/L		80	56 - 120	7	35
Phenanthrene			1.00	0.736		ug/L		74	56 - 120	13	35
Anthracene			1.00	0.718		ug/L		72	54 - 120	10	35
Benzo[a]anthracene			1.00	0.676		ug/L		68	53 - 120	19	35
Chrysene			1.00	0.708		ug/L		71	56 - 120	18	35
Benzo[a]pyrene			1.00	0.645		ug/L		64	44 - 120	17	35
Benzo[b]fluoranthene			1.00	0.669		ug/L		67	48 - 120	18	35
Benzo[k]fluoranthene			1.00	0.700		ug/L		70	47 - 121	17	35
Benzo[g,h,i]perylene			1.00	0.712		ug/L		71	41 - 123	17	35
Indeno[1,2,3-cd]pyrene			1.00	0.893		ug/L		89	38 - 120	16	35
Fluoranthene			1.00	0.726		ug/L		73	59 - 120	16	35
Pyrene			1.00	0.733		ug/L		73	59 - 120	17	35
Dibenz(a,h)anthracene			1.00	0.683		ug/L		68	38 - 122	21	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*79*		*21 - 120*
Nitrobenzene-d5	*73*		*10 - 120*
2-Fluorobiphenyl (Surr)	*79*		*38 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-518633/1-A
Matrix: Water
Analysis Batch: 518682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		12/21/18 06:02	12/21/18 20:03	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		12/21/18 06:02	12/21/18 20:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*79*		*45 - 120*	*12/21/18 06:02*	*12/21/18 20:03*	*1*

Lab Sample ID: LCS 440-518633/2-A
Matrix: Water
Analysis Batch: 518682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	1000	598		ug/L		60	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*74*		*45 - 120*

Lab Sample ID: LCSD 440-518633/3-A
Matrix: Water
Analysis Batch: 518682

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1000	656		ug/L		66	40 - 115	9	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*77*		*45 - 120*

Lab Sample ID: MB 440-518634/1-A
Matrix: Water
Analysis Batch: 518683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		12/21/18 06:13	12/21/18 21:58	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		12/21/18 06:13	12/21/18 21:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*65*		*45 - 120*	*12/21/18 06:13*	*12/21/18 21:58*	*1*

Lab Sample ID: LCS 440-518634/2-A
Matrix: Water
Analysis Batch: 518683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	1000	603		ug/L		60	40 - 115

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-518634/2-A
Matrix: Water
Analysis Batch: 518683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518634

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	*67*		*45 - 120*

Lab Sample ID: LCSD 440-518634/3-A
Matrix: Water
Analysis Batch: 518683

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518634

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	743		ug/L		74	40 - 115	21	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane	*80*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257456/1-A
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 12:45	1
Arsenic	ND		10	2.9	ug/L		12/21/18 14:27	12/27/18 12:45	1
Barium	ND		50	1.6	ug/L		12/21/18 14:27	12/27/18 12:45	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 12:45	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 12:45	1
Chromium	ND		10	0.70	ug/L		12/21/18 14:27	12/27/18 12:45	1
Cobalt	ND		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 12:45	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 12:45	1
Lead	ND		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 12:45	1
Molybdenum	ND		10	2.9	ug/L		12/21/18 14:27	12/27/18 12:45	1
Nickel	ND		10	1.0	ug/L		12/21/18 14:27	12/27/18 12:45	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 12:45	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 12:45	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 12:45	1
Vanadium	ND		10	0.87	ug/L		12/21/18 14:27	12/27/18 12:45	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 12:45	1

Lab Sample ID: LCS 720-257456/2-A
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 257456

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			1000	897		ug/L		90	80 - 120		
Arsenic			1000	914		ug/L		91	80 - 120		
Barium			1000	837		ug/L		84	80 - 120		
Beryllium			1000	894		ug/L		89	80 - 120		
Cadmium			1000	916		ug/L		92	80 - 120		
Chromium			1000	894		ug/L		89	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257456/2-A
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 257456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	1000	943		ug/L		94	80 - 120
Copper	1000	882		ug/L		88	80 - 120
Lead	1000	927		ug/L		93	80 - 120
Molybdenum	1000	914		ug/L		91	80 - 120
Nickel	1000	903		ug/L		90	80 - 120
Selenium	1000	924		ug/L		92	80 - 120
Silver	500	417		ug/L		83	80 - 120
Thallium	1000	927		ug/L		93	80 - 120
Vanadium	1000	891		ug/L		89	80 - 120
Zinc	1000	871		ug/L		87	80 - 120

Lab Sample ID: 720-90382-H-3-B MS
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 257456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	893		ug/L		89	75 - 125
Arsenic	9.5	J	1000	939		ug/L		93	75 - 125
Barium	48	J	1000	852		ug/L		80	75 - 125
Beryllium	1.1	J	1000	876		ug/L		87	75 - 125
Cadmium	0.90	J	1000	885		ug/L		88	75 - 125
Chromium	2.0	J	1000	870		ug/L		87	75 - 125
Cobalt	7.5		1000	907		ug/L		90	75 - 125
Copper	4.8	J	1000	873		ug/L		87	75 - 125
Lead	6.7		1000	891		ug/L		88	75 - 125
Molybdenum	4.1	J	1000	911		ug/L		91	75 - 125
Nickel	7.1	J	1000	868		ug/L		86	75 - 125
Selenium	ND		1000	917		ug/L		92	75 - 125
Silver	ND	F1 F2	500	180	F1	ug/L		36	75 - 125
Thallium	ND		1000	864		ug/L		86	75 - 125
Vanadium	1.6	J	1000	889		ug/L		89	75 - 125
Zinc	ND		1000	849		ug/L		85	75 - 125

Lab Sample ID: 720-90382-H-3-C MSD
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 257456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	897		ug/L		90	75 - 125	1	20
Arsenic	9.5	J	1000	931		ug/L		92	75 - 125	1	20
Barium	48	J	1000	890		ug/L		84	75 - 125	4	20
Beryllium	1.1	J	1000	884		ug/L		88	75 - 125	1	20
Cadmium	0.90	J	1000	888		ug/L		89	75 - 125	0	20
Chromium	2.0	J	1000	876		ug/L		87	75 - 125	1	20
Cobalt	7.5		1000	899		ug/L		89	75 - 125	1	20
Copper	4.8	J	1000	885		ug/L		88	75 - 125	1	20
Lead	6.7		1000	882		ug/L		88	75 - 125	1	20
Molybdenum	4.1	J	1000	907		ug/L		90	75 - 125	0	20
Nickel	7.1	J	1000	874		ug/L		87	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90382-H-3-C MSD
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 257456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		1000	924		ug/L		92	75 - 125	1	20
Silver	ND	F1 F2	500	423	F2	ug/L		85	75 - 125	81	20
Thallium	ND		1000	861		ug/L		86	75 - 125	0	20
Vanadium	1.6	J	1000	883		ug/L		88	75 - 125	1	20
Zinc	ND		1000	867		ug/L		87	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-257304/1-A
Matrix: Water
Analysis Batch: 257423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/19/18 21:50	12/20/18 18:11	1

Lab Sample ID: LCS 720-257304/2-A
Matrix: Water
Analysis Batch: 257423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	8.96		ug/L		90	85 - 115

Lab Sample ID: MB 720-257790/1-A
Matrix: Water
Analysis Batch: 257824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		12/31/18 09:26	12/31/18 16:19	1

Lab Sample ID: LCS 720-257790/2-A
Matrix: Water
Analysis Batch: 257824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257790

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.58		ug/L		96	85 - 115

Lab Sample ID: 720-90382-H-1-A MS
Matrix: Water
Analysis Batch: 257423

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 257304

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	8.74		ug/L		87	75 - 125

Lab Sample ID: 720-90382-H-1-B MSD
Matrix: Water
Analysis Batch: 257423

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 257304

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	8.64		ug/L		86	75 - 125	1	20

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 440-228643-C-1-A MS
Matrix: Water
Analysis Batch: 257824

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 257790

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.86		ug/L		99	75 - 125

Lab Sample ID: 440-228643-C-1-B MSD
Matrix: Water
Analysis Batch: 257824

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 257790

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.80		ug/L		98	75 - 125	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-257212/9
Matrix: Water
Analysis Batch: 257212

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/18/18 21:54	1

Lab Sample ID: LCS 720-257212/10
Matrix: Water
Analysis Batch: 257212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	250	254		ug/L		101	90 - 110

Lab Sample ID: LCSD 720-257212/11
Matrix: Water
Analysis Batch: 257212

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	250	254		ug/L		102	90 - 110	0	20

Lab Sample ID: 720-90410-1 MS
Matrix: Water
Analysis Batch: 257212

Client Sample ID: DG-N1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		250	258		ug/L		103	85 - 115

Lab Sample ID: 720-90410-1 MSD
Matrix: Water
Analysis Batch: 257212

Client Sample ID: DG-N1W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	258		ug/L		103	85 - 115	0	20

GC/MS VOA

Analysis Batch: 519965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Total/NA	Water	8260B	
720-90410-2	DG-O3W	Total/NA	Water	8260B	
720-90410-3	DG-S3W	Total/NA	Water	8260B	
720-90410-4	DG-U3W	Total/NA	Water	8260B	
720-90410-5	DG-W3W	Total/NA	Water	8260B	
720-90410-6	DG-Y3W	Total/NA	Water	8260B	
720-90410-7	FB-12.18.18	Total/NA	Water	8260B	
720-90410-8	DG-AA3W	Total/NA	Water	8260B	
720-90410-9	DUP-15	Total/NA	Water	8260B	
MB 440-519965/4	Method Blank	Total/NA	Water	8260B	
LCS 440-519965/5	Lab Control Sample	Total/NA	Water	8260B	
720-90410-1 MS	DG-N1W	Total/NA	Water	8260B	
720-90410-1 MSD	DG-N1W	Total/NA	Water	8260B	

Analysis Batch: 519966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-2	DG-O3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-3	DG-S3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-4	DG-U3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-5	DG-W3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-6	DG-Y3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-7	FB-12.18.18	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-8	DG-AA3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-9	DUP-15	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-519966/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-519966/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-1 MS	DG-N1W	Total/NA	Water	8260B/CA_LUFT MS	
720-90410-1 MSD	DG-N1W	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 520102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-7 - RA	FB-12.18.18	Total/NA	Water	8260B	
MB 440-520102/4	Method Blank	Total/NA	Water	8260B	
LCS 440-520102/5	Lab Control Sample	Total/NA	Water	8260B	
440-228734-E-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-228734-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 518777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Total/NA	Water	3520C	
720-90410-2	DG-O3W	Total/NA	Water	3520C	
720-90410-3	DG-S3W	Total/NA	Water	3520C	
720-90410-4	DG-U3W	Total/NA	Water	3520C	
720-90410-5	DG-W3W	Total/NA	Water	3520C	
720-90410-6	DG-Y3W	Total/NA	Water	3520C	
720-90410-8	DG-AA3W	Total/NA	Water	3520C	
720-90410-9	DUP-15	Total/NA	Water	3520C	
MB 440-518777/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-518777/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-518777/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 519025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-518777/1-A	Method Blank	Total/NA	Water	8270C SIM	518777
LCS 440-518777/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	518777
LCSD 440-518777/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	518777

Analysis Batch: 519273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Total/NA	Water	8270C SIM	518777
720-90410-2	DG-O3W	Total/NA	Water	8270C SIM	518777
720-90410-3	DG-S3W	Total/NA	Water	8270C SIM	518777
720-90410-5	DG-W3W	Total/NA	Water	8270C SIM	518777
720-90410-6	DG-Y3W	Total/NA	Water	8270C SIM	518777
720-90410-8	DG-AA3W	Total/NA	Water	8270C SIM	518777

Analysis Batch: 520151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-4	DG-U3W	Total/NA	Water	8270C SIM	518777
720-90410-9	DUP-15	Total/NA	Water	8270C SIM	518777

GC Semi VOA

Prep Batch: 518633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Total/NA	Water	3510C	
720-90410-2	DG-O3W	Total/NA	Water	3510C	
720-90410-3	DG-S3W	Total/NA	Water	3510C	
720-90410-4	DG-U3W	Total/NA	Water	3510C	
MB 440-518633/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-518633/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-518633/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 518634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-5	DG-W3W	Total/NA	Water	3510C	
720-90410-6	DG-Y3W	Total/NA	Water	3510C	
720-90410-8	DG-AA3W	Total/NA	Water	3510C	
720-90410-9	DUP-15	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 518634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-518634/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-518634/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-518634/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 518682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-518633/1-A	Method Blank	Total/NA	Water	8015B	518633
LCS 440-518633/2-A	Lab Control Sample	Total/NA	Water	8015B	518633
LCSD 440-518633/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	518633

Analysis Batch: 518683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-518634/1-A	Method Blank	Total/NA	Water	8015B	518634
LCS 440-518634/2-A	Lab Control Sample	Total/NA	Water	8015B	518634
LCSD 440-518634/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	518634

Analysis Batch: 519500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-5	DG-W3W	Total/NA	Water	8015B	518634
720-90410-6	DG-Y3W	Total/NA	Water	8015B	518634
720-90410-8	DG-AA3W	Total/NA	Water	8015B	518634
720-90410-9	DUP-15	Total/NA	Water	8015B	518634

Analysis Batch: 519777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Total/NA	Water	8015B	518633
720-90410-2	DG-O3W	Total/NA	Water	8015B	518633
720-90410-3	DG-S3W	Total/NA	Water	8015B	518633
720-90410-4	DG-U3W	Total/NA	Water	8015B	518633

Metals

Prep Batch: 257304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Dissolved	Water	7470A	
720-90410-2	DG-O3W	Dissolved	Water	7470A	
720-90410-3	DG-S3W	Dissolved	Water	7470A	
720-90410-4	DG-U3W	Dissolved	Water	7470A	
720-90410-5	DG-W3W	Dissolved	Water	7470A	
MB 720-257304/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-257304/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90382-H-1-A MS	Matrix Spike	Dissolved	Water	7470A	
720-90382-H-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 257423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Dissolved	Water	7470A	257304
720-90410-2	DG-O3W	Dissolved	Water	7470A	257304
720-90410-3	DG-S3W	Dissolved	Water	7470A	257304
MB 720-257304/1-A	Method Blank	Total/NA	Water	7470A	257304

Metals (Continued)

Analysis Batch: 257423 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-257304/2-A	Lab Control Sample	Total/NA	Water	7470A	257304
720-90382-H-1-A MS	Matrix Spike	Dissolved	Water	7470A	257304
720-90382-H-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	257304

Analysis Batch: 257444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-4	DG-U3W	Dissolved	Water	7470A	257304
720-90410-5	DG-W3W	Dissolved	Water	7470A	257304

Prep Batch: 257456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Dissolved	Water	3005A	
720-90410-2	DG-O3W	Dissolved	Water	3005A	
720-90410-3	DG-S3W	Dissolved	Water	3005A	
720-90410-4	DG-U3W	Dissolved	Water	3005A	
720-90410-5	DG-W3W	Dissolved	Water	3005A	
720-90410-6	DG-Y3W	Dissolved	Water	3005A	
720-90410-8	DG-AA3W	Dissolved	Water	3005A	
720-90410-9	DUP-15	Dissolved	Water	3005A	
MB 720-257456/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-257456/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90382-H-3-B MS	Matrix Spike	Dissolved	Water	3005A	
720-90382-H-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 257686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Dissolved	Water	6010B	257456
720-90410-2	DG-O3W	Dissolved	Water	6010B	257456
720-90410-3	DG-S3W	Dissolved	Water	6010B	257456
720-90410-4	DG-U3W	Dissolved	Water	6010B	257456
720-90410-5	DG-W3W	Dissolved	Water	6010B	257456
720-90410-6	DG-Y3W	Dissolved	Water	6010B	257456
720-90410-8	DG-AA3W	Dissolved	Water	6010B	257456
720-90410-9	DUP-15	Dissolved	Water	6010B	257456
MB 720-257456/1-A	Method Blank	Total Recoverable	Water	6010B	257456
LCS 720-257456/2-A	Lab Control Sample	Total Recoverable	Water	6010B	257456
720-90382-H-3-B MS	Matrix Spike	Dissolved	Water	6010B	257456
720-90382-H-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	257456

Prep Batch: 257790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-6	DG-Y3W	Dissolved	Water	7470A	
720-90410-8	DG-AA3W	Dissolved	Water	7470A	
720-90410-9	DUP-15	Dissolved	Water	7470A	
MB 720-257790/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-257790/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-228643-C-1-A MS	Matrix Spike	Dissolved	Water	7470A	
440-228643-C-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Metals (Continued)

Analysis Batch: 257824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-6	DG-Y3W	Dissolved	Water	7470A	257790
720-90410-8	DG-AA3W	Dissolved	Water	7470A	257790
720-90410-9	DUP-15	Dissolved	Water	7470A	257790
MB 720-257790/1-A	Method Blank	Total/NA	Water	7470A	257790
LCS 720-257790/2-A	Lab Control Sample	Total/NA	Water	7470A	257790
440-228643-C-1-A MS	Matrix Spike	Dissolved	Water	7470A	257790
440-228643-C-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	257790

General Chemistry

Analysis Batch: 257212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90410-1	DG-N1W	Total/NA	Water	7196A	
720-90410-2	DG-O3W	Total/NA	Water	7196A	
720-90410-3	DG-S3W	Total/NA	Water	7196A	
720-90410-4	DG-U3W	Total/NA	Water	7196A	
720-90410-5	DG-W3W	Total/NA	Water	7196A	
720-90410-6	DG-Y3W	Total/NA	Water	7196A	
720-90410-8	DG-AA3W	Total/NA	Water	7196A	
720-90410-9	DUP-15	Total/NA	Water	7196A	
MB 720-257212/9	Method Blank	Total/NA	Water	7196A	
LCS 720-257212/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-257212/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90410-1 MS	DG-N1W	Total/NA	Water	7196A	
720-90410-1 MSD	DG-N1W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-N1W

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519965	12/29/18 09:37	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519966	12/29/18 09:37	WC	TAL IRV
Total/NA	Prep	3520C			518777	12/21/18 14:11	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 18:37	HN	TAL IRV
Total/NA	Prep	3510C			518633	12/21/18 06:02	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 19:39	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 13:45	BKR	TAL PLS
Dissolved	Prep	7470A			257304	12/19/18 21:50	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257423	12/20/18 19:40	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 21:54	ECB	TAL PLS

Client Sample ID: DG-O3W

Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519965	12/29/18 11:13	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519966	12/29/18 11:13	WC	TAL IRV
Total/NA	Prep	3520C			518777	12/21/18 14:11	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 19:26	HN	TAL IRV
Total/NA	Prep	3510C			518633	12/21/18 06:02	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 20:00	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 13:50	BKR	TAL PLS
Dissolved	Prep	7470A			257304	12/19/18 21:50	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257423	12/20/18 19:42	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 21:54	ECB	TAL PLS

Client Sample ID: DG-S3W

Date Collected: 12/18/18 13:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519965	12/29/18 11:36	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519966	12/29/18 11:36	WC	TAL IRV
Total/NA	Prep	3520C			518777	12/21/18 14:11	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 19:02	HN	TAL IRV
Total/NA	Prep	3510C			518633	12/21/18 06:02	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 23:44	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 13:54	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-S3W

Date Collected: 12/18/18 13:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			257304	12/19/18 21:50	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257423	12/20/18 19:45	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 21:54	ECB	TAL PLS

Client Sample ID: DG-U3W

Date Collected: 12/18/18 13:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519965	12/29/18 12:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519966	12/29/18 12:00	WC	TAL IRV
Total/NA	Prep	3520C			518777	12/21/18 14:11	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		2	520151	12/31/18 15:00	HN	TAL IRV
Total/NA	Prep	3510C			518633	12/21/18 06:02	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/29/18 00:04	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 13:59	BKR	TAL PLS
Dissolved	Prep	7470A			257304	12/19/18 21:50	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257444	12/21/18 10:03	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 21:54	ECB	TAL PLS

Client Sample ID: DG-W3W

Date Collected: 12/18/18 14:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519965	12/29/18 12:25	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519966	12/29/18 12:25	WC	TAL IRV
Total/NA	Prep	3520C			518777	12/21/18 14:11	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 19:51	HN	TAL IRV
Total/NA	Prep	3510C			518634	12/21/18 06:13	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519500	12/27/18 11:57	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:04	BKR	TAL PLS
Dissolved	Prep	7470A			257304	12/19/18 21:50	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257444	12/21/18 10:05	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 21:54	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DG-Y3W

Date Collected: 12/18/18 15:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519965	12/29/18 12:48	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519966	12/29/18 12:48	WC	TAL IRV
Total/NA	Prep	3520C			518777	12/21/18 14:11	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 20:15	HN	TAL IRV
Total/NA	Prep	3510C			518634	12/21/18 06:13	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519500	12/27/18 12:19	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:09	BKR	TAL PLS
Dissolved	Prep	7470A			257790	12/31/18 09:26	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257824	12/31/18 16:50	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 22:00	ECB	TAL PLS

Client Sample ID: FB-12.18.18

Date Collected: 12/18/18 15:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519965	12/29/18 13:13	WC	TAL IRV
Total/NA	Analysis	8260B	RA	1	520102	12/31/18 15:23	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519966	12/29/18 13:13	WC	TAL IRV

Client Sample ID: DG-AA3W

Date Collected: 12/18/18 15:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519965	12/29/18 13:36	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519966	12/29/18 13:36	WC	TAL IRV
Total/NA	Prep	3520C			518777	12/21/18 14:11	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 20:39	HN	TAL IRV
Total/NA	Prep	3510C			518634	12/21/18 06:13	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519500	12/27/18 12:41	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:13	BKR	TAL PLS
Dissolved	Prep	7470A			257790	12/31/18 09:26	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257824	12/31/18 16:52	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 22:00	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Client Sample ID: DUP-15

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90410-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519965	12/29/18 14:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519966	12/29/18 14:00	WC	TAL IRV
Total/NA	Prep	3520C			518777	12/21/18 14:11	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		2	520151	12/31/18 15:24	HN	TAL IRV
Total/NA	Prep	3510C			518634	12/21/18 06:13	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519500	12/27/18 10:08	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:18	BKR	TAL PLS
Dissolved	Prep	7470A			257790	12/31/18 09:26	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257824	12/31/18 16:54	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 22:00	ECB	TAL PLS

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90410-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90410-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90410-1	DG-N1W	Water	12/18/18 09:00	12/18/18 19:10
720-90410-2	DG-O3W	Water	12/18/18 10:00	12/18/18 19:10
720-90410-3	DG-S3W	Water	12/18/18 13:00	12/18/18 19:10
720-90410-4	DG-U3W	Water	12/18/18 13:30	12/18/18 19:10
720-90410-5	DG-W3W	Water	12/18/18 14:25	12/18/18 19:10
720-90410-6	DG-Y3W	Water	12/18/18 15:00	12/18/18 19:10
720-90410-7	FB-12.18.18	Water	12/18/18 15:15	12/18/18 19:10
720-90410-8	DG-AA3W	Water	12/18/18 15:30	12/18/18 19:10
720-90410-9	DUP-15	Water	12/18/18 00:00	12/18/18 19:10

720-90410

Chain of Custody Record

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

187445

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler (Melissa Buchman)
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90410 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-N 1W	12/19/18	1120	G	GW	10 (9)	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-03W	12/19/18	1600	G	GW	9	Y		X	X	X	X	X	
~~DG-Q3W~~	~~12/19/18~~	~~1645~~	~~G~~	~~GW~~	~~9~~	~~Y~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
DG-S3W	12/19/18	1320	G	GW	9	Y		X	X	X	X	X	
DG-U3W	12/19/18	1330	G	GW	9	Y		X	X	X	X	X	
DG-W3W	12/19/18	1425	G	GW	9	Y		X	X	X	X	X	
DG-Y3W	12/19/18	1500	G	GW	9	Y		X	X	X	X	X	
FB-12.19	12/19/18	1515	G	W	2	N		X	X	X	X	X	not filtered
DG-AA3W	12/19/18	1530	G	GW	9	Y		X	X	X	X	X	Metals & Cr samples filtered
DUP-15	12/19/18	—	G	GW	9	Y		X	X	X	X	X	Metals & chromium filtered

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

2.6, 1.2, 5.0, 2.9, 3.5, 4.3, 1.8 °C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No.:

	Company	Date/Time		Company	Date/Time
Relinquished by	Geosyntec	12/19/18 1630	Received by	TA-PLS	12/18/18 1630
Relinquished by	TA-PLS	12/18/18 1910	Received by		
Relinquished by			Received in Laboratory by	TA-PLS	12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No 720-40581.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90410-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU2 Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-N1W (720-90410-1)	12/18/18	09:00 Pacific		Water			X	X	X	X	8	check for 2 phases
DG-O3W (720-90410-2)	12/18/18	10:00 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-S3W (720-90410-3)	12/18/18	13:00 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-U3W (720-90410-4)	12/18/18	13.30 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-W3W (720-90410-5)	12/18/18	14:25 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-Y3W (720-90410-6)	12/18/18	15.00 Pacific		Water			X	X	X	X	7	check for 2 phases
FB-12.18.18 (720-90410-7)	12/18/18	15:15 Pacific		Water			X	X			2	check for 2 phases
DG-AA3W (720-90410-8)	12/18/18	15:30 Pacific		Water			X	X	X	X	7	check for 2 phases
DUP-15 (720-90410-9)	12/18/18	Pacific		Water			X	X	X	X	7	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12-19-18 1600	Company: Pleas	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/20/18 1050	Company: FAIR
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 4608 0770 3440

Cooler Temperature(s) °C and Other Remarks: 1.8/1.9/1.8 4.0/4.2 1.9/2.1 IR-88 1.1/1.3

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90410-1

Login Number: 90410
List Number: 1
Creator: Perry, Janae R

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90410-1

Login Number: 90410
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/20/18 02:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90410-1

Login Number: 90410
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/20/18 02:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90410-1

Login Number: 90410
List Number: 4
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/20/18 02:32 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Bill Chen <BChen@Geosyntec.com>
Sent: Wednesday, December 19, 2018 10:15 PM
To: Patel, Urvashi; Bondoc, Christian M.
Cc: Anthony Smith; Miranda Kahrilas; Krzysztof Jesionek
Subject: Re: PLEASE READ- TestAmerica sample confirmation files from 720-90410-1 Brisbane OU2 Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Christian and Urvashi,

Yes, please proceed with VOCs + GRO for FB-12.18.18.

Everything else looks good.

Thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Wednesday, December 19, 2018 9:30 AM
To: Bill Chen; Krzysztof Jesionek; Miranda Kahrilas; Anthony Smith; Ms. Urvashi Patel
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90410-1 Brisbane OU2 Investigation

Hello,

Attached please find the sample confirmation files for job 720-90410-1; Brisbane OU2 Investigation

Please note that the sample ID for the FB has been edited to the requested format, with entire date. FB-12.18.18

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample, FB-12.18.18 was marked for all analyses but lab only received 2 voas. Logged them for VOCs + GRO.

Please confirm these changes.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [489701]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90411-1
Client Project/Site: Brisbane OU2

For:
Geosyntec Consultants, Inc.
1111 Broadway
6th Floor
Oakland, California 94607

Attn: Mr. Tony Smith

Authorized for release by:
12/31/2018 4:06:42 PM

Micah Smith, Project Manager II
(925)484-1919
micah.smith@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Job ID: 720-90411-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90411-1

Comments
No additional comments.

Receipt
The samples were received on 12/18/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.6º C, 0.6º C, 1.0º C and 1.5º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-17A. The container labels list MK-17A (time 12:01), while the COC lists MW-17A (time 12:01). Sample was logged in based on the COC.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: Surrogate recovery for the following sample was outside control limits: MK-2A (720-90411-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010B: The following sample was diluted due to the abundance of non-target analytes: MK-2A (720-90411-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 720-257384.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 720-257452.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: KMW-4A — Lab Sample ID: 720-90411-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	6.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	450		47		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	240		94		ug/L	1		8015B	Total/NA
Arsenic	0.043		0.010		mg/L	1		6010B	Total/NA
Barium	0.11		0.010		mg/L	1		6010B	Total/NA
Cobalt	0.012		0.0020		mg/L	1		6010B	Total/NA
Lead	0.0092		0.0050		mg/L	1		6010B	Total/NA
Nickel	0.012		0.010		mg/L	1		6010B	Total/NA

Client Sample ID: LF-3A — Lab Sample ID: 720-90411-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.047		0.010		mg/L	1		6010B	Total/NA
Lead	0.012		0.0050		mg/L	1		6010B	Total/NA

Client Sample ID: LF-4A — Lab Sample ID: 720-90411-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5300		48		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1800		96		ug/L	1		8015B	Total/NA
Arsenic	0.39		0.010		mg/L	1		6010B	Total/NA
Barium	2.4		0.010		mg/L	1		6010B	Total/NA
Copper	0.074		0.020		mg/L	1		6010B	Total/NA
Lead	0.030		0.0050		mg/L	1		6010B	Total/NA
Nickel	0.048		0.010		mg/L	1		6010B	Total/NA
Cr (VI)	0.012		0.010		mg/L	1		7196A	Total/NA

Client Sample ID: MK-2A — Lab Sample ID: 720-90411-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1.4		0.040		mg/L	4		6010B	Total/NA
Cobalt	0.38		0.0020		mg/L	1		6010B	Total/NA
Lead	0.12		0.020		mg/L	4		6010B	Total/NA
Nickel	0.23		0.010		mg/L	1		6010B	Total/NA
Vanadium	0.032		0.010		mg/L	1		6010B	Total/NA

Client Sample ID: MW-9A — Lab Sample ID: 720-90411-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.093		0.010		mg/L	1		6010B	Total/NA
Lead	0.013		0.0050		mg/L	1		6010B	Total/NA

Client Sample ID: MW-11AR — Lab Sample ID: 720-90411-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	190		47		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	210		94		ug/L	1		8015B	Total/NA
Arsenic	0.026		0.010		mg/L	1		6010B	Total/NA
Barium	0.065		0.010		mg/L	1		6010B	Total/NA
Cobalt	0.0048		0.0020		mg/L	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: MW-11AR (Continued) — Lab Sample ID: 720-90411-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0078		0.0050		mg/L	1		6010B	Total/NA

Client Sample ID: MW-13A — Lab Sample ID: 720-90411-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	1.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	1300		48		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	700		96		ug/L	1		8015B	Total/NA
Barium	0.096		0.010		mg/L	1		6010B	Total/NA
Cobalt	0.0033		0.0020		mg/L	1		6010B	Total/NA
Lead	0.0088		0.0050		mg/L	1		6010B	Total/NA

Client Sample ID: MW-15A — Lab Sample ID: 720-90411-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4700		48		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2400		96		ug/L	1		8015B	Total/NA
Barium	0.55		0.010		mg/L	1		6010B	Total/NA
Lead	0.016		0.0050		mg/L	1		6010B	Total/NA
Nickel	0.042		0.010		mg/L	1		6010B	Total/NA

Client Sample ID: MW-17A — Lab Sample ID: 720-90411-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	370		48		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	250		95		ug/L	1		8015B	Total/NA
Barium	0.097		0.010		mg/L	1		6010B	Total/NA
Lead	0.0085		0.0050		mg/L	1		6010B	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 720-90411-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	380		49		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	200		98		ug/L	1		8015B	Total/NA
Barium	0.10		0.010		mg/L	1		6010B	Total/NA
Lead	0.011		0.0050		mg/L	1		6010B	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 720-90411-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.048		0.010		mg/L	1		6010B	Total/NA
Lead	0.014		0.0050		mg/L	1		6010B	Total/NA

Client Sample ID: FB-1 — Lab Sample ID: 720-90411-12

No Detections.

Client Sample ID: TB-1 — Lab Sample ID: 720-90411-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: KMW-4A
Date Collected: 12/18/18 12:01
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 14:00	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 14:00	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 14:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 14:00	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 14:00	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 14:00	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 14:00	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 14:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 14:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 14:00	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 14:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 14:00	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 14:00	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 14:00	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 14:00	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 14:00	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 14:00	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 14:00	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 14:00	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 14:00	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 14:00	1
2-Hexanone	ND		50		ug/L			12/19/18 14:00	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 14:00	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 14:00	1
Acetone	ND		50		ug/L			12/19/18 14:00	1
Benzene	ND		0.50		ug/L			12/19/18 14:00	1
Bromobenzene	ND		1.0		ug/L			12/19/18 14:00	1
Bromoform	ND		1.0		ug/L			12/19/18 14:00	1
Bromomethane	ND		1.0		ug/L			12/19/18 14:00	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 14:00	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 14:00	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 14:00	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 14:00	1
Chloroethane	ND		1.0		ug/L			12/19/18 14:00	1
Chloroform	ND		1.0		ug/L			12/19/18 14:00	1
Chloromethane	ND		1.0		ug/L			12/19/18 14:00	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 14:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 14:00	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 14:00	1
Dibromomethane	ND		0.50		ug/L			12/19/18 14:00	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 14:00	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 14:00	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 14:00	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 14:00	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 14:00	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 14:00	1
Methyl tert-butyl ether	**6.5**		0.50		ug/L			12/19/18 14:00	1
Naphthalene	ND		1.0		ug/L			12/19/18 14:00	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 14:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: KMW-4A
Date Collected: 12/18/18 12:01
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 14:00	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 14:00	1
Styrene	ND		0.50		ug/L			12/19/18 14:00	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 14:00	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 14:00	1
Toluene	ND		0.50		ug/L			12/19/18 14:00	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 14:00	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 14:00	1
Trichloroethene	ND		0.50		ug/L			12/19/18 14:00	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 14:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 14:00	1
Vinyl acetate	ND		10		ug/L			12/19/18 14:00	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 14:00	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 14:00	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 14:00	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 14:00	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 14:00	1
C4-C12	ND		50		ug/L			12/19/18 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*12/19/18 14:00*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/19/18 14:00*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*12/19/18 14:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*12/19/18 14:00*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
2-Chlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Benzyl alcohol	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
2-Methylphenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
Methylphenol, 3 & 4	ND		7.6		ug/L		12/21/18 13:52	12/23/18 19:50	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Isophorone	ND		3.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
2,4-Dimethylphenol	ND		2.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
Bis(2-chloroethoxy)methane	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
2,4-Dichlorophenol	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Naphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
4-Chloro-3-methylphenol	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1

Client Sample ID: KMW-4A
Date Collected: 12/18/18 12:01
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.5		ug/L		12/21/18 13:52	12/23/18 19:50	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
2,4,5-Trichlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
2-Chloronaphthalene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
2-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 19:50	1
Dimethyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
Acenaphthylene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
3-Nitroaniline	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
Acenaphthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 13:52	12/23/18 19:50	1
4-Nitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 19:50	1
Dibenzofuran	ND		3.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
2,4-Dinitrotoluene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
2,6-Dinitrotoluene	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
Diethyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
4-Chlorophenyl phenyl ether	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
Fluorene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 19:50	1
4-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 19:50	1
2-Methyl-4,6-dinitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 19:50	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
4-Bromophenyl phenyl ether	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Pentachlorophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 19:50	1
Phenanthrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Di-n-butyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
Fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Butyl benzyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
3,3'-Dichlorobenzidine	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
Benzo[a]anthracene	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		12/21/18 13:52	12/23/18 19:50	1
Chrysene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Di-n-octyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 19:50	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Benzoic acid	ND		19		ug/L		12/21/18 13:52	12/23/18 19:50	1
Azobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*54*		*11 - 92*	*12/21/18 13:52*	*12/23/18 19:50*	*1*
2-Fluorobiphenyl	*72*		*10 - 101*	*12/21/18 13:52*	*12/23/18 19:50*	*1*
Terphenyl-d14	*73*		*34 - 128*	*12/21/18 13:52*	*12/23/18 19:50*	*1*
2-Fluorophenol	*34*		*10 - 65*	*12/21/18 13:52*	*12/23/18 19:50*	*1*
Phenol-d5	*25*		*10 - 46*	*12/21/18 13:52*	*12/23/18 19:50*	*1*

Client Sample ID: KMW-4A

Date Collected: 12/18/18 12:01
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-1

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*17 - 115*	*12/21/18 13:52*	*12/23/18 19:50*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**450**		47		ug/L		12/20/18 16:30	12/21/18 10:53	1
Motor Oil Range Organics [C24-C36]	**240**		94		ug/L		12/20/18 16:30	12/21/18 10:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*23 - 156*	*12/20/18 16:30*	*12/21/18 10:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:28	1
Arsenic	**0.043**		0.010		mg/L		12/21/18 15:26	12/24/18 17:28	1
Barium	**0.11**		0.010		mg/L		12/21/18 15:26	12/26/18 10:56	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:28	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 17:28	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:28	1
Cobalt	**0.012**		0.0020		mg/L		12/21/18 15:26	12/24/18 17:28	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:28	1
Lead	**0.0092**		0.0050		mg/L		12/21/18 15:26	12/24/18 17:28	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:28	1
Nickel	**0.012**		0.010		mg/L		12/21/18 15:26	12/24/18 17:28	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:28	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/26/18 10:56	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:28	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:28	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 22:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: LF-3A
Date Collected: 12/18/18 14:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 14:29	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 14:29	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 14:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 14:29	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 14:29	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 14:29	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 14:29	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 14:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 14:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 14:29	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 14:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 14:29	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 14:29	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 14:29	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 14:29	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 14:29	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 14:29	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 14:29	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 14:29	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 14:29	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 14:29	1
2-Hexanone	ND		50		ug/L			12/19/18 14:29	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 14:29	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 14:29	1
Acetone	ND		50		ug/L			12/19/18 14:29	1
Benzene	ND		0.50		ug/L			12/19/18 14:29	1
Bromobenzene	ND		1.0		ug/L			12/19/18 14:29	1
Bromoform	ND		1.0		ug/L			12/19/18 14:29	1
Bromomethane	ND		1.0		ug/L			12/19/18 14:29	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 14:29	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 14:29	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 14:29	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 14:29	1
Chloroethane	ND		1.0		ug/L			12/19/18 14:29	1
Chloroform	ND		1.0		ug/L			12/19/18 14:29	1
Chloromethane	ND		1.0		ug/L			12/19/18 14:29	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 14:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 14:29	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 14:29	1
Dibromomethane	ND		0.50		ug/L			12/19/18 14:29	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 14:29	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 14:29	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 14:29	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 14:29	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 14:29	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 14:29	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 14:29	1
Naphthalene	ND		1.0		ug/L			12/19/18 14:29	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 14:29	1

Client Sample ID: LF-3A
Date Collected: 12/18/18 14:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 14:29	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 14:29	1
Styrene	ND		0.50		ug/L			12/19/18 14:29	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 14:29	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 14:29	1
Toluene	ND		0.50		ug/L			12/19/18 14:29	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 14:29	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 14:29	1
Trichloroethene	ND		0.50		ug/L			12/19/18 14:29	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 14:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 14:29	1
Vinyl acetate	ND		10		ug/L			12/19/18 14:29	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 14:29	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 14:29	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 14:29	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 14:29	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 14:29	1
C4-C12	ND		50		ug/L			12/19/18 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/19/18 14:29*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/19/18 14:29*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*12/19/18 14:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*12/19/18 14:29*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
2-Chlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Benzyl alcohol	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
2-Methylphenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
Methylphenol, 3 & 4	ND		7.6		ug/L		12/21/18 13:52	12/23/18 20:16	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Isophorone	ND		3.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
2,4-Dimethylphenol	ND		2.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
Bis(2-chloroethoxy)methane	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
2,4-Dichlorophenol	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Naphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
4-Chloro-3-methylphenol	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1

Client Sample ID: LF-3A
Date Collected: 12/18/18 14:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.5		ug/L		12/21/18 13:52	12/23/18 20:16	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
2,4,5-Trichlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
2-Chloronaphthalene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
2-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 20:16	1
Dimethyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
Acenaphthylene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
3-Nitroaniline	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
Acenaphthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 13:52	12/23/18 20:16	1
4-Nitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 20:16	1
Dibenzofuran	ND		3.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
2,4-Dinitrotoluene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
2,6-Dinitrotoluene	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
Diethyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
4-Chlorophenyl phenyl ether	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
Fluorene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 20:16	1
4-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 20:16	1
2-Methyl-4,6-dinitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 20:16	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
4-Bromophenyl phenyl ether	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Pentachlorophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 20:16	1
Phenanthrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Di-n-butyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
Fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Butyl benzyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
3,3'-Dichlorobenzidine	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
Benzo[a]anthracene	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		12/21/18 13:52	12/23/18 20:16	1
Chrysene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Di-n-octyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 20:16	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Benzoic acid	ND		19		ug/L		12/21/18 13:52	12/23/18 20:16	1
Azobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*45*		*11 - 92*	*12/21/18 13:52*	*12/23/18 20:16*	*1*
2-Fluorobiphenyl	*58*		*10 - 101*	*12/21/18 13:52*	*12/23/18 20:16*	*1*
Terphenyl-d14	*86*		*34 - 128*	*12/21/18 13:52*	*12/23/18 20:16*	*1*
2-Fluorophenol	*28*		*10 - 65*	*12/21/18 13:52*	*12/23/18 20:16*	*1*
Phenol-d5	*20*		*10 - 46*	*12/21/18 13:52*	*12/23/18 20:16*	*1*

Client Sample ID: LF-3A

Date Collected: 12/18/18 14:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-2

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*17 - 115*	*12/21/18 13:52*	*12/23/18 20:16*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		47		ug/L		12/20/18 16:30	12/21/18 11:17	1
Motor Oil Range Organics [C24-C36]	ND		94		ug/L		12/20/18 16:30	12/21/18 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*23 - 156*	*12/20/18 16:30*	*12/21/18 11:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:33	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:33	1
Barium	**0.047**		0.010		mg/L		12/21/18 15:26	12/26/18 11:01	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:33	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 17:33	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:33	1
Cobalt	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:33	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:33	1
Lead	**0.012**		0.0050		mg/L		12/21/18 15:26	12/24/18 17:33	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:33	1
Nickel	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:33	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:33	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/26/18 11:01	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:33	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:33	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 22:00	1

Client Sample ID: LF-4A
Date Collected: 12/18/18 14:36
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 14:58	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 14:58	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 14:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 14:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 14:58	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 14:58	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 14:58	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 14:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 14:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 14:58	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 14:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 14:58	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 14:58	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 14:58	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 14:58	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 14:58	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 14:58	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 14:58	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 14:58	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 14:58	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 14:58	1
2-Hexanone	ND		50		ug/L			12/19/18 14:58	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 14:58	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 14:58	1
Acetone	ND		50		ug/L			12/19/18 14:58	1
Benzene	ND		0.50		ug/L			12/19/18 14:58	1
Bromobenzene	ND		1.0		ug/L			12/19/18 14:58	1
Bromoform	ND		1.0		ug/L			12/19/18 14:58	1
Bromomethane	ND		1.0		ug/L			12/19/18 14:58	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 14:58	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 14:58	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 14:58	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 14:58	1
Chloroethane	ND		1.0		ug/L			12/19/18 14:58	1
Chloroform	ND		1.0		ug/L			12/19/18 14:58	1
Chloromethane	ND		1.0		ug/L			12/19/18 14:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 14:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 14:58	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 14:58	1
Dibromomethane	ND		0.50		ug/L			12/19/18 14:58	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 14:58	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 14:58	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 14:58	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 14:58	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 14:58	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 14:58	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 14:58	1
Naphthalene	ND		1.0		ug/L			12/19/18 14:58	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 14:58	1

Client Sample ID: LF-4A
Date Collected: 12/18/18 14:36
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 14:58	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 14:58	1
Styrene	ND		0.50		ug/L			12/19/18 14:58	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 14:58	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 14:58	1
Toluene	ND		0.50		ug/L			12/19/18 14:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 14:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 14:58	1
Trichloroethene	ND		0.50		ug/L			12/19/18 14:58	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 14:58	1
Vinyl acetate	ND		10		ug/L			12/19/18 14:58	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 14:58	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 14:58	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 14:58	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 14:58	1
C4-C12	ND		50		ug/L			12/19/18 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*12/19/18 14:58*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/19/18 14:58*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*12/19/18 14:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*		*12/19/18 14:58*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Bis(2-chloroethyl)ether	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
2-Chlorophenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
1,3-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
1,4-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Benzyl alcohol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
1,2-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
2-Methylphenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Methylphenol, 3 & 4	ND		7.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
N-Nitrosodi-n-propylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Hexachloroethane	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Nitrobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Isophorone	ND		3.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
2-Nitrophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
2,4-Dimethylphenol	ND		3.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Bis(2-chloroethoxy)methane	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
2,4-Dichlorophenol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Naphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
4-Chloroaniline	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Hexachlorobutadiene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
4-Chloro-3-methylphenol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
2-Methylnaphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: LF-4A
Date Collected: 12/18/18 14:36
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.8		ug/L		12/21/18 13:52	12/23/18 20:41	1
2,4,6-Trichlorophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
2,4,5-Trichlorophenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
2-Chloronaphthalene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
2-Nitroaniline	ND		9.8		ug/L		12/21/18 13:52	12/23/18 20:41	1
Dimethyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Acenaphthylene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
3-Nitroaniline	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Acenaphthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
2,4-Dinitrophenol	ND		20		ug/L		12/21/18 13:52	12/23/18 20:41	1
4-Nitrophenol	ND		9.8		ug/L		12/21/18 13:52	12/23/18 20:41	1
Dibenzofuran	ND		3.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
2,4-Dinitrotoluene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
2,6-Dinitrotoluene	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Diethyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
4-Chlorophenyl phenyl ether	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Fluorene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
4-Nitroaniline	ND		9.8		ug/L		12/21/18 13:52	12/23/18 20:41	1
2-Methyl-4,6-dinitrophenol	ND		9.8		ug/L		12/21/18 13:52	12/23/18 20:41	1
N-Nitrosodiphenylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
4-Bromophenyl phenyl ether	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Hexachlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Pentachlorophenol	ND		9.8		ug/L		12/21/18 13:52	12/23/18 20:41	1
Phenanthrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Di-n-butyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Butyl benzyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
3,3'-Dichlorobenzidine	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Benzo[a]anthracene	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Bis(2-ethylhexyl) phthalate	ND		9.8		ug/L		12/21/18 13:52	12/23/18 20:41	1
Chrysene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Di-n-octyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 20:41	1
Benzo[b]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Benzo[a]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Benzo[k]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Benzo[g,h,i]perylene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Benzoic acid	ND		20		ug/L		12/21/18 13:52	12/23/18 20:41	1
Azobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1
Dibenz(a,h)anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*50*		*11 - 92*	*12/21/18 13:52*	*12/23/18 20:41*	*1*
2-Fluorobiphenyl	*69*		*10 - 101*	*12/21/18 13:52*	*12/23/18 20:41*	*1*
Terphenyl-d14	*62*		*34 - 128*	*12/21/18 13:52*	*12/23/18 20:41*	*1*
2-Fluorophenol	*35*		*10 - 65*	*12/21/18 13:52*	*12/23/18 20:41*	*1*
Phenol-d5	*28*		*10 - 46*	*12/21/18 13:52*	*12/23/18 20:41*	*1*

Client Sample ID: LF-4A

Date Collected: 12/18/18 14:36
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*17 - 115*	*12/21/18 13:52*	*12/23/18 20:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5300**		48		ug/L		12/20/18 16:30	12/21/18 11:42	1
Motor Oil Range Organics [C24-C36]	**1800**		96		ug/L		12/20/18 16:30	12/21/18 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*85*		*23 - 156*	*12/20/18 16:30*	*12/21/18 11:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:37	1
Arsenic	**0.39**		0.010		mg/L		12/21/18 15:26	12/24/18 17:37	1
Barium	**2.4**		0.010		mg/L		12/21/18 15:26	12/27/18 09:07	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:37	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 17:37	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:37	1
Cobalt	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:37	1
Copper	**0.074**		0.020		mg/L		12/21/18 15:26	12/24/18 17:37	1
Lead	**0.030**		0.0050		mg/L		12/21/18 15:26	12/24/18 17:37	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:37	1
Nickel	**0.048**		0.010		mg/L		12/21/18 15:26	12/24/18 17:37	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:37	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/27/18 09:07	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:37	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:37	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	**0.012**		0.010		mg/L			12/18/18 22:00	1

Client Sample ID: MK-2A
Date Collected: 12/18/18 13:46
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 15:27	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 15:27	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 15:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 15:27	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 15:27	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 15:27	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 15:27	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 15:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 15:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 15:27	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 15:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 15:27	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:27	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 15:27	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 15:27	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 15:27	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:27	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 15:27	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:27	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 15:27	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 15:27	1
2-Hexanone	ND		50		ug/L			12/19/18 15:27	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 15:27	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 15:27	1
Acetone	ND		50		ug/L			12/19/18 15:27	1
Benzene	ND		0.50		ug/L			12/19/18 15:27	1
Bromobenzene	ND		1.0		ug/L			12/19/18 15:27	1
Bromoform	ND		1.0		ug/L			12/19/18 15:27	1
Bromomethane	ND		1.0		ug/L			12/19/18 15:27	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 15:27	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 15:27	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 15:27	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 15:27	1
Chloroethane	ND		1.0		ug/L			12/19/18 15:27	1
Chloroform	ND		1.0		ug/L			12/19/18 15:27	1
Chloromethane	ND		1.0		ug/L			12/19/18 15:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 15:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 15:27	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 15:27	1
Dibromomethane	ND		0.50		ug/L			12/19/18 15:27	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 15:27	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 15:27	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 15:27	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 15:27	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 15:27	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 15:27	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 15:27	1
Naphthalene	ND		1.0		ug/L			12/19/18 15:27	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 15:27	1

Client Sample ID: MK-2A
Date Collected: 12/18/18 13:46
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 15:27	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 15:27	1
Styrene	ND		0.50		ug/L			12/19/18 15:27	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 15:27	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 15:27	1
Toluene	ND		0.50		ug/L			12/19/18 15:27	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 15:27	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 15:27	1
Trichloroethene	ND		0.50		ug/L			12/19/18 15:27	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 15:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 15:27	1
Vinyl acetate	ND		10		ug/L			12/19/18 15:27	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 15:27	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 15:27	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 15:27	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 15:27	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 15:27	1
C4-C12	ND		50		ug/L			12/19/18 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*12/19/18 15:27*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/19/18 15:27*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*12/19/18 15:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*12/19/18 15:27*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
2-Chlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Benzyl alcohol	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
2-Methylphenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
Methylphenol, 3 & 4	ND		7.6		ug/L		12/21/18 13:52	12/23/18 21:07	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Isophorone	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
2,4-Dimethylphenol	ND		2.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
Bis(2-chloroethoxy)methane	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
2,4-Dichlorophenol	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Naphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
4-Chloro-3-methylphenol	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: MK-2A
Date Collected: 12/18/18 13:46
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:07	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
2,4,5-Trichlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
2-Chloronaphthalene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
2-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:07	1
Dimethyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
Acenaphthylene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
3-Nitroaniline	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
Acenaphthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 13:52	12/23/18 21:07	1
4-Nitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:07	1
Dibenzofuran	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
2,4-Dinitrotoluene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
2,6-Dinitrotoluene	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
Diethyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
4-Chlorophenyl phenyl ether	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
Fluorene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:07	1
4-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:07	1
2-Methyl-4,6-dinitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:07	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
4-Bromophenyl phenyl ether	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Pentachlorophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:07	1
Phenanthrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Di-n-butyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
Fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Butyl benzyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
3,3'-Dichlorobenzidine	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
Benzo[a]anthracene	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:07	1
Chrysene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Di-n-octyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/23/18 21:07	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Benzoic acid	ND		19		ug/L		12/21/18 13:52	12/23/18 21:07	1
Azobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*46*		*11 - 92*	*12/21/18 13:52*	*12/23/18 21:07*	*1*
2-Fluorobiphenyl	*59*		*10 - 101*	*12/21/18 13:52*	*12/23/18 21:07*	*1*
Terphenyl-d14	*82*		*34 - 128*	*12/21/18 13:52*	*12/23/18 21:07*	*1*
2-Fluorophenol	*11*		*10 - 65*	*12/21/18 13:52*	*12/23/18 21:07*	*1*
Phenol-d5	*7*	*X*	*10 - 46*	*12/21/18 13:52*	*12/23/18 21:07*	*1*

Client Sample ID: MK-2A

Date Collected: 12/18/18 13:46
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-4

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*50*		*17 - 115*	*12/21/18 13:52*	*12/23/18 21:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		47		ug/L		12/20/18 16:30	12/21/18 12:06	1
Motor Oil Range Organics [C24-C36]	ND		94		ug/L		12/20/18 16:30	12/21/18 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*82*		*23 - 156*	*12/20/18 16:30*	*12/21/18 12:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:42	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:42	1
Barium	**1.4**		0.040		mg/L		12/21/18 15:26	12/27/18 09:12	4
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:42	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 17:42	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:42	1
Cobalt	**0.38**		0.0020		mg/L		12/21/18 15:26	12/24/18 17:42	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:42	1
Lead	**0.12**		0.020		mg/L		12/21/18 15:26	12/26/18 11:20	4
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:42	1
Nickel	**0.23**		0.010		mg/L		12/21/18 15:26	12/24/18 17:42	1
Selenium	ND		0.080		mg/L		12/21/18 15:26	12/26/18 11:20	4
Silver	ND		0.020		mg/L		12/21/18 15:26	12/27/18 09:12	4
Thallium	ND		0.040		mg/L		12/21/18 15:26	12/26/18 11:20	4
Vanadium	**0.032**		0.010		mg/L		12/21/18 15:26	12/24/18 17:42	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 22:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: MW-9A
Date Collected: 12/18/18 15:32
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 15:56	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 15:56	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 15:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 15:56	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 15:56	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 15:56	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 15:56	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 15:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 15:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 15:56	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 15:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 15:56	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:56	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 15:56	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 15:56	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 15:56	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:56	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 15:56	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:56	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 15:56	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 15:56	1
2-Hexanone	ND		50		ug/L			12/19/18 15:56	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 15:56	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 15:56	1
Acetone	ND		50		ug/L			12/19/18 15:56	1
Benzene	ND		0.50		ug/L			12/19/18 15:56	1
Bromobenzene	ND		1.0		ug/L			12/19/18 15:56	1
Bromoform	ND		1.0		ug/L			12/19/18 15:56	1
Bromomethane	ND		1.0		ug/L			12/19/18 15:56	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 15:56	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 15:56	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 15:56	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 15:56	1
Chloroethane	ND		1.0		ug/L			12/19/18 15:56	1
Chloroform	ND		1.0		ug/L			12/19/18 15:56	1
Chloromethane	ND		1.0		ug/L			12/19/18 15:56	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 15:56	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 15:56	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 15:56	1
Dibromomethane	ND		0.50		ug/L			12/19/18 15:56	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 15:56	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 15:56	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 15:56	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 15:56	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 15:56	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 15:56	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 15:56	1
Naphthalene	ND		1.0		ug/L			12/19/18 15:56	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 15:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: MW-9A
Date Collected: 12/18/18 15:32
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 15:56	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 15:56	1
Styrene	ND		0.50		ug/L			12/19/18 15:56	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 15:56	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 15:56	1
Toluene	ND		0.50		ug/L			12/19/18 15:56	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 15:56	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 15:56	1
Trichloroethene	ND		0.50		ug/L			12/19/18 15:56	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 15:56	1
Vinyl acetate	ND		10		ug/L			12/19/18 15:56	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 15:56	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 15:56	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 15:56	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 15:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 15:56	1
C4-C12	ND		50		ug/L			12/19/18 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*12/19/18 15:56*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/19/18 15:56*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*12/19/18 15:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*12/19/18 15:56*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
2-Chlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Benzyl alcohol	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
2-Methylphenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Methylphenol, 3 & 4	ND		7.6		ug/L		12/21/18 13:52	12/23/18 21:33	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Isophorone	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Bis(2-chloroethoxy)methane	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
2,4-Dichlorophenol	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Naphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
4-Chloro-3-methylphenol	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: MW-9A
Date Collected: 12/18/18 15:32
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:33	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
2,4,5-Trichlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
2-Chloronaphthalene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
2-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:33	1
Dimethyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Acenaphthylene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
3-Nitroaniline	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Acenaphthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 13:52	12/23/18 21:33	1
4-Nitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:33	1
Dibenzofuran	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
2,4-Dinitrotoluene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
2,6-Dinitrotoluene	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Diethyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
4-Chlorophenyl phenyl ether	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Fluorene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
4-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:33	1
2-Methyl-4,6-dinitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:33	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
4-Bromophenyl phenyl ether	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Pentachlorophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:33	1
Phenanthrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Di-n-butyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Butyl benzyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
3,3'-Dichlorobenzidine	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Benzo[a]anthracene	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:33	1
Chrysene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Di-n-octyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:33	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Benzoic acid	ND		19		ug/L		12/21/18 13:52	12/23/18 21:33	1
Azobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*46*		*11 - 92*	*12/21/18 13:52*	*12/23/18 21:33*	*1*
2-Fluorobiphenyl	*61*		*10 - 101*	*12/21/18 13:52*	*12/23/18 21:33*	*1*
Terphenyl-d14	*76*		*34 - 128*	*12/21/18 13:52*	*12/23/18 21:33*	*1*
2-Fluorophenol	*28*		*10 - 65*	*12/21/18 13:52*	*12/23/18 21:33*	*1*
Phenol-d5	*21*		*10 - 46*	*12/21/18 13:52*	*12/23/18 21:33*	*1*

Client Sample ID: MW-9A

Date Collected: 12/18/18 15:32
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-5

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*17 - 115*	*12/21/18 13:52*	*12/23/18 21:33*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		47		ug/L		12/20/18 16:30	12/21/18 12:31	1
Motor Oil Range Organics [C24-C36]	ND		94		ug/L		12/20/18 16:30	12/21/18 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*81*		*23 - 156*	*12/20/18 16:30*	*12/21/18 12:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:47	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:47	1
Barium	**0.093**		0.010		mg/L		12/21/18 15:26	12/27/18 09:17	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:47	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 17:47	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:47	1
Cobalt	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:47	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:47	1
Lead	**0.013**		0.0050		mg/L		12/21/18 15:26	12/24/18 17:47	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:47	1
Nickel	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:47	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:47	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/27/18 09:17	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:47	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:47	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 22:00	1

Client Sample ID: MW-11AR
Date Collected: 12/18/18 12:49
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 16:25	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 16:25	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 16:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 16:25	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 16:25	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 16:25	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 16:25	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 16:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 16:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 16:25	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 16:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 16:25	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 16:25	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 16:25	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 16:25	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 16:25	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 16:25	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 16:25	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 16:25	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 16:25	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 16:25	1
2-Hexanone	ND		50		ug/L			12/19/18 16:25	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 16:25	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 16:25	1
Acetone	ND		50		ug/L			12/19/18 16:25	1
Benzene	ND		0.50		ug/L			12/19/18 16:25	1
Bromobenzene	ND		1.0		ug/L			12/19/18 16:25	1
Bromoform	ND		1.0		ug/L			12/19/18 16:25	1
Bromomethane	ND		1.0		ug/L			12/19/18 16:25	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 16:25	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 16:25	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 16:25	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 16:25	1
Chloroethane	ND		1.0		ug/L			12/19/18 16:25	1
Chloroform	ND		1.0		ug/L			12/19/18 16:25	1
Chloromethane	ND		1.0		ug/L			12/19/18 16:25	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 16:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 16:25	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 16:25	1
Dibromomethane	ND		0.50		ug/L			12/19/18 16:25	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 16:25	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 16:25	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 16:25	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 16:25	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 16:25	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 16:25	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 16:25	1
Naphthalene	ND		1.0		ug/L			12/19/18 16:25	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 16:25	1

Client Sample ID: MW-11AR
Date Collected: 12/18/18 12:49
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 16:25	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 16:25	1
Styrene	ND		0.50		ug/L			12/19/18 16:25	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 16:25	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 16:25	1
Toluene	ND		0.50		ug/L			12/19/18 16:25	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 16:25	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 16:25	1
Trichloroethene	ND		0.50		ug/L			12/19/18 16:25	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 16:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 16:25	1
Vinyl acetate	ND		10		ug/L			12/19/18 16:25	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 16:25	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 16:25	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 16:25	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 16:25	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 16:25	1
C4-C12	ND		50		ug/L			12/19/18 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/19/18 16:25*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/19/18 16:25*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*12/19/18 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*12/19/18 16:25*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
2-Chlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Benzyl alcohol	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
2-Methylphenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Methylphenol, 3 & 4	ND		7.6		ug/L		12/21/18 13:52	12/23/18 21:58	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Isophorone	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Bis(2-chloroethoxy)methane	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
2,4-Dichlorophenol	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Naphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
4-Chloro-3-methylphenol	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: MW-11AR
Date Collected: 12/18/18 12:49
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:58	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
2,4,5-Trichlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
2-Chloronaphthalene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
2-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:58	1
Dimethyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Acenaphthylene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
3-Nitroaniline	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Acenaphthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 13:52	12/23/18 21:58	1
4-Nitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:58	1
Dibenzofuran	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
2,4-Dinitrotoluene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
2,6-Dinitrotoluene	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Diethyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
4-Chlorophenyl phenyl ether	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Fluorene	ND		3.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
4-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:58	1
2-Methyl-4,6-dinitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:58	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
4-Bromophenyl phenyl ether	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Pentachlorophenol	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:58	1
Phenanthrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Di-n-butyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Butyl benzyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
3,3'-Dichlorobenzidine	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Benzo[a]anthracene	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		12/21/18 13:52	12/23/18 21:58	1
Chrysene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Di-n-octyl phthalate	ND		4.8		ug/L		12/21/18 13:52	12/23/18 21:58	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Benzoic acid	ND		19		ug/L		12/21/18 13:52	12/23/18 21:58	1
Azobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*45*		*11 - 92*	*12/21/18 13:52*	*12/23/18 21:58*	*1*
2-Fluorobiphenyl	*59*		*10 - 101*	*12/21/18 13:52*	*12/23/18 21:58*	*1*
Terphenyl-d14	*81*		*34 - 128*	*12/21/18 13:52*	*12/23/18 21:58*	*1*
2-Fluorophenol	*28*		*10 - 65*	*12/21/18 13:52*	*12/23/18 21:58*	*1*
Phenol-d5	*22*		*10 - 46*	*12/21/18 13:52*	*12/23/18 21:58*	*1*

Client Sample ID: MW-11AR

Date Collected: 12/18/18 12:49
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-6

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*17 - 115*	*12/21/18 13:52*	*12/23/18 21:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**190**		47		ug/L		12/20/18 16:30	12/21/18 12:55	1
Motor Oil Range Organics [C24-C36]	**210**		94		ug/L		12/20/18 16:30	12/21/18 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*23 - 156*	*12/20/18 16:30*	*12/21/18 12:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:52	1
Arsenic	**0.026**		0.010		mg/L		12/21/18 15:26	12/24/18 17:52	1
Barium	**0.065**		0.010		mg/L		12/21/18 15:26	12/27/18 09:22	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:52	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 17:52	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:52	1
Cobalt	**0.0048**		0.0020		mg/L		12/21/18 15:26	12/24/18 17:52	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:52	1
Lead	**0.0078**		0.0050		mg/L		12/21/18 15:26	12/24/18 17:52	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:52	1
Nickel	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:52	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:52	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/27/18 09:22	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:52	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:52	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 23:00	1

Client Sample ID: MW-13A
Date Collected: 12/18/18 13:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 15:24	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 15:24	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 15:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 15:24	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 15:24	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 15:24	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 15:24	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 15:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 15:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 15:24	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 15:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 15:24	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:24	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 15:24	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 15:24	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 15:24	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:24	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 15:24	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:24	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 15:24	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 15:24	1
2-Hexanone	ND		50		ug/L			12/19/18 15:24	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 15:24	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 15:24	1
Acetone	ND		50		ug/L			12/19/18 15:24	1
Benzene	ND		0.50		ug/L			12/19/18 15:24	1
Bromobenzene	ND		1.0		ug/L			12/19/18 15:24	1
Bromoform	ND		1.0		ug/L			12/19/18 15:24	1
Bromomethane	ND		1.0		ug/L			12/19/18 15:24	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 15:24	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 15:24	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 15:24	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 15:24	1
Chloroethane	ND		1.0		ug/L			12/19/18 15:24	1
Chloroform	ND		1.0		ug/L			12/19/18 15:24	1
Chloromethane	ND		1.0		ug/L			12/19/18 15:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 15:24	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 15:24	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 15:24	1
Dibromomethane	ND		0.50		ug/L			12/19/18 15:24	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 15:24	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 15:24	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 15:24	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 15:24	1
Isopropylbenzene	**1.0**		0.50		ug/L			12/19/18 15:24	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 15:24	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 15:24	1
Naphthalene	ND		1.0		ug/L			12/19/18 15:24	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 15:24	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: MW-13A

Date Collected: 12/18/18 13:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-7

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 15:24	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 15:24	1
Styrene	ND		0.50		ug/L			12/19/18 15:24	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 15:24	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 15:24	1
Toluene	ND		0.50		ug/L			12/19/18 15:24	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 15:24	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 15:24	1
Trichloroethene	ND		0.50		ug/L			12/19/18 15:24	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 15:24	1
Vinyl acetate	ND		10		ug/L			12/19/18 15:24	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 15:24	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 15:24	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 15:24	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 15:24	1
C4-C12	ND		50		ug/L			12/19/18 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/19/18 15:24*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*12/19/18 15:24*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*12/19/18 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*12/19/18 15:24*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2-Chlorophenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Benzyl alcohol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2-Methylphenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Methylphenol, 3 & 4	ND		7.8		ug/L		12/21/18 13:52	12/23/18 22:24	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Isophorone	ND		3.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Bis(2-chloroethoxy)methane	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2,4-Dichlorophenol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Naphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
4-Chloro-3-methylphenol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1

Client Sample ID: MW-13A
Date Collected: 12/18/18 13:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.7		ug/L		12/21/18 13:52	12/23/18 22:24	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2,4,5-Trichlorophenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2-Chloronaphthalene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2-Nitroaniline	ND		9.7		ug/L		12/21/18 13:52	12/23/18 22:24	1
Dimethyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Acenaphthylene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
3-Nitroaniline	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Acenaphthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 13:52	12/23/18 22:24	1
4-Nitrophenol	ND		9.7		ug/L		12/21/18 13:52	12/23/18 22:24	1
Dibenzofuran	ND		3.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2,4-Dinitrotoluene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
2,6-Dinitrotoluene	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Diethyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
4-Chlorophenyl phenyl ether	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Fluorene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
4-Nitroaniline	ND		9.7		ug/L		12/21/18 13:52	12/23/18 22:24	1
2-Methyl-4,6-dinitrophenol	ND		9.7		ug/L		12/21/18 13:52	12/23/18 22:24	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
4-Bromophenyl phenyl ether	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Pentachlorophenol	ND		9.7		ug/L		12/21/18 13:52	12/23/18 22:24	1
Phenanthrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Di-n-butyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Butyl benzyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
3,3'-Dichlorobenzidine	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Benzo[a]anthracene	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Bis(2-ethylhexyl) phthalate	ND		9.7		ug/L		12/21/18 13:52	12/23/18 22:24	1
Chrysene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Di-n-octyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Benzoic acid	ND		19		ug/L		12/21/18 13:52	12/23/18 22:24	1
Azobenzene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 13:52	12/23/18 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*42*		*11 - 92*	*12/21/18 13:52*	*12/23/18 22:24*	*1*
2-Fluorobiphenyl	*55*		*10 - 101*	*12/21/18 13:52*	*12/23/18 22:24*	*1*
Terphenyl-d14	*67*		*34 - 128*	*12/21/18 13:52*	*12/23/18 22:24*	*1*
2-Fluorophenol	*31*		*10 - 65*	*12/21/18 13:52*	*12/23/18 22:24*	*1*
Phenol-d5	*25*		*10 - 46*	*12/21/18 13:52*	*12/23/18 22:24*	*1*

Client Sample ID: MW-13A

Date Collected: 12/18/18 13:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-7

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*17 - 115*	*12/21/18 13:52*	*12/23/18 22:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1300**		48		ug/L		12/20/18 16:30	12/21/18 13:20	1
Motor Oil Range Organics [C24-C36]	**700**		96		ug/L		12/20/18 16:30	12/21/18 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*23 - 156*	*12/20/18 16:30*	*12/21/18 13:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:56	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:56	1
Barium	**0.096**		0.010		mg/L		12/21/18 15:26	12/27/18 09:26	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 17:56	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 17:56	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:56	1
Cobalt	**0.0033**		0.0020		mg/L		12/21/18 15:26	12/24/18 17:56	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:56	1
Lead	**0.0088**		0.0050		mg/L		12/21/18 15:26	12/24/18 17:56	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:56	1
Nickel	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:56	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:56	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/27/18 09:26	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:56	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 17:56	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 17:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 23:00	1

Client Sample ID: MW-15A
Date Collected: 12/18/18 15:32
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 15:53	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 15:53	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 15:53	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 15:53	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 15:53	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 15:53	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 15:53	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 15:53	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 15:53	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 15:53	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 15:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 15:53	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:53	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 15:53	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 15:53	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 15:53	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:53	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 15:53	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 15:53	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 15:53	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 15:53	1
2-Hexanone	ND		50		ug/L			12/19/18 15:53	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 15:53	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 15:53	1
Acetone	ND		50		ug/L			12/19/18 15:53	1
Benzene	ND		0.50		ug/L			12/19/18 15:53	1
Bromobenzene	ND		1.0		ug/L			12/19/18 15:53	1
Bromoform	ND		1.0		ug/L			12/19/18 15:53	1
Bromomethane	ND		1.0		ug/L			12/19/18 15:53	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 15:53	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 15:53	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 15:53	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 15:53	1
Chloroethane	ND		1.0		ug/L			12/19/18 15:53	1
Chloroform	ND		1.0		ug/L			12/19/18 15:53	1
Chloromethane	ND		1.0		ug/L			12/19/18 15:53	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 15:53	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 15:53	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 15:53	1
Dibromomethane	ND		0.50		ug/L			12/19/18 15:53	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 15:53	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 15:53	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 15:53	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 15:53	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 15:53	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 15:53	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 15:53	1
Naphthalene	ND		1.0		ug/L			12/19/18 15:53	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 15:53	1

Client Sample ID: MW-15A
Date Collected: 12/18/18 15:32
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 15:53	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 15:53	1
Styrene	ND		0.50		ug/L			12/19/18 15:53	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 15:53	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 15:53	1
Toluene	ND		0.50		ug/L			12/19/18 15:53	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 15:53	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 15:53	1
Trichloroethene	ND		0.50		ug/L			12/19/18 15:53	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 15:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 15:53	1
Vinyl acetate	ND		10		ug/L			12/19/18 15:53	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 15:53	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 15:53	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 15:53	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 15:53	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 15:53	1
C4-C12	ND		50		ug/L			12/19/18 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/19/18 15:53*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/19/18 15:53*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*12/19/18 15:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*12/19/18 15:53*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Bis(2-chloroethyl)ether	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2-Chlorophenol	ND		4.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
1,3-Dichlorobenzene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
1,4-Dichlorobenzene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Benzyl alcohol	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
1,2-Dichlorobenzene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2-Methylphenol	ND		4.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Methylphenol, 3 & 4	ND		8.3		ug/L		12/21/18 13:52	12/23/18 22:50	1
N-Nitrosodi-n-propylamine	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Hexachloroethane	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Nitrobenzene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Isophorone	ND		4.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2-Nitrophenol	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2,4-Dimethylphenol	ND		3.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Bis(2-chloroethoxy)methane	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
2,4-Dichlorophenol	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
1,2,4-Trichlorobenzene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Naphthalene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
4-Chloroaniline	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Hexachlorobutadiene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
4-Chloro-3-methylphenol	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
2-Methylnaphthalene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1

Client Sample ID: MW-15A
Date Collected: 12/18/18 15:32
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-8
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		10		ug/L		12/21/18 13:52	12/23/18 22:50	1
2,4,6-Trichlorophenol	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2,4,5-Trichlorophenol	ND		4.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2-Chloronaphthalene	ND		4.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2-Nitroaniline	ND		10		ug/L		12/21/18 13:52	12/23/18 22:50	1
Dimethyl phthalate	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
Acenaphthylene	ND		4.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
3-Nitroaniline	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
Acenaphthene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2,4-Dinitrophenol	ND		21		ug/L		12/21/18 13:52	12/23/18 22:50	1
4-Nitrophenol	ND		10		ug/L		12/21/18 13:52	12/23/18 22:50	1
Dibenzofuran	ND		4.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2,4-Dinitrotoluene	ND		4.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
2,6-Dinitrotoluene	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
Diethyl phthalate	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
4-Chlorophenyl phenyl ether	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
Fluorene	ND		4.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
4-Nitroaniline	ND		10		ug/L		12/21/18 13:52	12/23/18 22:50	1
2-Methyl-4,6-dinitrophenol	ND		10		ug/L		12/21/18 13:52	12/23/18 22:50	1
N-Nitrosodiphenylamine	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
4-Bromophenyl phenyl ether	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
Hexachlorobenzene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Pentachlorophenol	ND		10		ug/L		12/21/18 13:52	12/23/18 22:50	1
Phenanthrene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Anthracene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Di-n-butyl phthalate	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
Fluoranthene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Pyrene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Butyl benzyl phthalate	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
3,3'-Dichlorobenzidine	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
Benzo[a]anthracene	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		12/21/18 13:52	12/23/18 22:50	1
Chrysene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Di-n-octyl phthalate	ND		5.2		ug/L		12/21/18 13:52	12/23/18 22:50	1
Benzo[b]fluoranthene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Benzo[a]pyrene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Benzo[k]fluoranthene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Indeno[1,2,3-cd]pyrene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Benzo[g,h,i]perylene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Benzoic acid	ND		21		ug/L		12/21/18 13:52	12/23/18 22:50	1
Azobenzene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1
Dibenz(a,h)anthracene	ND		2.1		ug/L		12/21/18 13:52	12/23/18 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*49*		*11 - 92*	*12/21/18 13:52*	*12/23/18 22:50*	*1*
2-Fluorobiphenyl	*67*		*10 - 101*	*12/21/18 13:52*	*12/23/18 22:50*	*1*
Terphenyl-d14	*87*		*34 - 128*	*12/21/18 13:52*	*12/23/18 22:50*	*1*
2-Fluorophenol	*34*		*10 - 65*	*12/21/18 13:52*	*12/23/18 22:50*	*1*
Phenol-d5	*28*		*10 - 46*	*12/21/18 13:52*	*12/23/18 22:50*	*1*

Client Sample ID: MW-15A

Date Collected: 12/18/18 15:32
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-8

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*17 - 115*	*12/21/18 13:52*	*12/23/18 22:50*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4700**		48		ug/L		12/20/18 16:30	12/21/18 13:44	1
Motor Oil Range Organics [C24-C36]	**2400**		96		ug/L		12/20/18 16:30	12/21/18 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*82*		*23 - 156*	*12/20/18 16:30*	*12/21/18 13:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:11	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:11	1
Barium	**0.55**		0.010		mg/L		12/21/18 15:26	12/27/18 09:31	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 18:11	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 18:11	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:11	1
Cobalt	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 18:11	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:11	1
Lead	**0.016**		0.0050		mg/L		12/21/18 15:26	12/24/18 18:11	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:11	1
Nickel	**0.042**		0.010		mg/L		12/21/18 15:26	12/24/18 18:11	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:11	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/27/18 09:31	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:11	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:11	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 23:00	1

Client Sample ID: MW-17A
Date Collected: 12/18/18 12:01
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-9
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 16:21	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 16:21	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 16:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 16:21	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 16:21	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 16:21	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 16:21	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 16:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 16:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 16:21	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 16:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 16:21	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 16:21	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 16:21	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 16:21	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 16:21	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 16:21	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 16:21	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 16:21	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 16:21	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 16:21	1
2-Hexanone	ND		50		ug/L			12/19/18 16:21	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 16:21	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 16:21	1
Acetone	ND		50		ug/L			12/19/18 16:21	1
Benzene	ND		0.50		ug/L			12/19/18 16:21	1
Bromobenzene	ND		1.0		ug/L			12/19/18 16:21	1
Bromoform	ND		1.0		ug/L			12/19/18 16:21	1
Bromomethane	ND		1.0		ug/L			12/19/18 16:21	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 16:21	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 16:21	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 16:21	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 16:21	1
Chloroethane	ND		1.0		ug/L			12/19/18 16:21	1
Chloroform	ND		1.0		ug/L			12/19/18 16:21	1
Chloromethane	ND		1.0		ug/L			12/19/18 16:21	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 16:21	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 16:21	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 16:21	1
Dibromomethane	ND		0.50		ug/L			12/19/18 16:21	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 16:21	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 16:21	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 16:21	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 16:21	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 16:21	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 16:21	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 16:21	1
Naphthalene	ND		1.0		ug/L			12/19/18 16:21	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 16:21	1

Client Sample ID: MW-17A
Date Collected: 12/18/18 12:01
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-9
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 16:21	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 16:21	1
Styrene	ND		0.50		ug/L			12/19/18 16:21	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 16:21	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 16:21	1
Toluene	ND		0.50		ug/L			12/19/18 16:21	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 16:21	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 16:21	1
Trichloroethene	ND		0.50		ug/L			12/19/18 16:21	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 16:21	1
Vinyl acetate	ND		10		ug/L			12/19/18 16:21	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 16:21	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 16:21	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 16:21	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 16:21	1
C4-C12	ND		50		ug/L			12/19/18 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/19/18 16:21*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/19/18 16:21*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*12/19/18 16:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*12/19/18 16:21*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Bis(2-chloroethyl)ether	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
2-Chlorophenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
1,3-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
1,4-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Benzyl alcohol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
1,2-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
2-Methylphenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Methylphenol, 3 & 4	ND		7.8		ug/L		12/21/18 13:52	12/23/18 23:15	1
N-Nitrosodi-n-propylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Hexachloroethane	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Nitrobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Isophorone	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
2-Nitrophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Bis(2-chloroethoxy)methane	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
2,4-Dichlorophenol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Naphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
4-Chloroaniline	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Hexachlorobutadiene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
4-Chloro-3-methylphenol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
2-Methylnaphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1

Client Sample ID: MW-17A
Date Collected: 12/18/18 12:01
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-9
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:15	1
2,4,6-Trichlorophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
2,4,5-Trichlorophenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
2-Chloronaphthalene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
2-Nitroaniline	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:15	1
Dimethyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Acenaphthylene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
3-Nitroaniline	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Acenaphthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
2,4-Dinitrophenol	ND		20		ug/L		12/21/18 13:52	12/23/18 23:15	1
4-Nitrophenol	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:15	1
Dibenzofuran	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
2,4-Dinitrotoluene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
2,6-Dinitrotoluene	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Diethyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
4-Chlorophenyl phenyl ether	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Fluorene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
4-Nitroaniline	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:15	1
2-Methyl-4,6-dinitrophenol	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:15	1
N-Nitrosodiphenylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
4-Bromophenyl phenyl ether	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Hexachlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Pentachlorophenol	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:15	1
Phenanthrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Di-n-butyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Butyl benzyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
3,3'-Dichlorobenzidine	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Benzo[a]anthracene	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Bis(2-ethylhexyl) phthalate	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:15	1
Chrysene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Di-n-octyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:15	1
Benzo[b]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Benzo[a]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Benzo[k]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Benzo[g,h,i]perylene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Benzoic acid	ND		20		ug/L		12/21/18 13:52	12/23/18 23:15	1
Azobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1
Dibenz(a,h)anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*51*		*11 - 92*	*12/21/18 13:52*	*12/23/18 23:15*	*1*
2-Fluorobiphenyl	*69*		*10 - 101*	*12/21/18 13:52*	*12/23/18 23:15*	*1*
Terphenyl-d14	*75*		*34 - 128*	*12/21/18 13:52*	*12/23/18 23:15*	*1*
2-Fluorophenol	*33*		*10 - 65*	*12/21/18 13:52*	*12/23/18 23:15*	*1*
Phenol-d5	*24*		*10 - 46*	*12/21/18 13:52*	*12/23/18 23:15*	*1*

Client Sample ID: MW-17A

Date Collected: 12/18/18 12:01
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-9

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*17 - 115*	*12/21/18 13:52*	*12/23/18 23:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**370**		48		ug/L		12/20/18 16:30	12/21/18 14:08	1
Motor Oil Range Organics [C24-C36]	**250**		95		ug/L		12/20/18 16:30	12/21/18 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*82*		*23 - 156*	*12/20/18 16:30*	*12/21/18 14:08*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:15	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:15	1
Barium	**0.097**		0.010		mg/L		12/21/18 15:26	12/27/18 09:36	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 18:15	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 18:15	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:15	1
Cobalt	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 18:15	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:15	1
Lead	**0.0085**		0.0050		mg/L		12/21/18 15:26	12/24/18 18:15	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:15	1
Nickel	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:15	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:15	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/27/18 09:36	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:15	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:15	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 23:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: DUP-1
Date Collected: 12/18/18 12:06
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-10
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 16:50	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 16:50	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 16:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 16:50	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 16:50	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 16:50	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 16:50	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 16:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 16:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 16:50	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 16:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 16:50	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 16:50	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 16:50	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 16:50	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 16:50	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 16:50	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 16:50	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 16:50	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 16:50	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 16:50	1
2-Hexanone	ND		50		ug/L			12/19/18 16:50	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 16:50	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 16:50	1
Acetone	ND		50		ug/L			12/19/18 16:50	1
Benzene	ND		0.50		ug/L			12/19/18 16:50	1
Bromobenzene	ND		1.0		ug/L			12/19/18 16:50	1
Bromoform	ND		1.0		ug/L			12/19/18 16:50	1
Bromomethane	ND		1.0		ug/L			12/19/18 16:50	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 16:50	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 16:50	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 16:50	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 16:50	1
Chloroethane	ND		1.0		ug/L			12/19/18 16:50	1
Chloroform	ND		1.0		ug/L			12/19/18 16:50	1
Chloromethane	ND		1.0		ug/L			12/19/18 16:50	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 16:50	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 16:50	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 16:50	1
Dibromomethane	ND		0.50		ug/L			12/19/18 16:50	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 16:50	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 16:50	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 16:50	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 16:50	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 16:50	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 16:50	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 16:50	1
Naphthalene	ND		1.0		ug/L			12/19/18 16:50	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 16:50	1

Client Sample ID: DUP-1
Date Collected: 12/18/18 12:06
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-10
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 16:50	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 16:50	1
Styrene	ND		0.50		ug/L			12/19/18 16:50	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 16:50	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 16:50	1
Toluene	ND		0.50		ug/L			12/19/18 16:50	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 16:50	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 16:50	1
Trichloroethene	ND		0.50		ug/L			12/19/18 16:50	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 16:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 16:50	1
Vinyl acetate	ND		10		ug/L			12/19/18 16:50	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 16:50	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 16:50	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 16:50	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 16:50	1
C4-C12	ND		50		ug/L			12/19/18 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/19/18 16:50*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/19/18 16:50*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*12/19/18 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*12/19/18 16:50*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Bis(2-chloroethyl)ether	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
2-Chlorophenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
1,3-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
1,4-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Benzyl alcohol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
1,2-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
2-Methylphenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Methylphenol, 3 & 4	ND		7.8		ug/L		12/21/18 13:52	12/23/18 23:41	1
N-Nitrosodi-n-propylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Hexachloroethane	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Nitrobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Isophorone	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
2-Nitrophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Bis(2-chloroethoxy)methane	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
2,4-Dichlorophenol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Naphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
4-Chloroaniline	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Hexachlorobutadiene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
4-Chloro-3-methylphenol	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
2-Methylnaphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: DUP-1
Date Collected: 12/18/18 12:06
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-10
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:41	1
2,4,6-Trichlorophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
2,4,5-Trichlorophenol	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
2-Chloronaphthalene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
2-Nitroaniline	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:41	1
Dimethyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Acenaphthylene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
3-Nitroaniline	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Acenaphthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
2,4-Dinitrophenol	ND		20		ug/L		12/21/18 13:52	12/23/18 23:41	1
4-Nitrophenol	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:41	1
Dibenzofuran	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
2,4-Dinitrotoluene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
2,6-Dinitrotoluene	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Diethyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
4-Chlorophenyl phenyl ether	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Fluorene	ND		3.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
4-Nitroaniline	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:41	1
2-Methyl-4,6-dinitrophenol	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:41	1
N-Nitrosodiphenylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
4-Bromophenyl phenyl ether	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Hexachlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Pentachlorophenol	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:41	1
Phenanthrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Di-n-butyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Butyl benzyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
3,3'-Dichlorobenzidine	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Benzo[a]anthracene	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Bis(2-ethylhexyl) phthalate	ND		9.8		ug/L		12/21/18 13:52	12/23/18 23:41	1
Chrysene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Di-n-octyl phthalate	ND		4.9		ug/L		12/21/18 13:52	12/23/18 23:41	1
Benzo[b]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Benzo[a]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Benzo[k]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Benzo[g,h,i]perylene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Benzoic acid	ND		20		ug/L		12/21/18 13:52	12/23/18 23:41	1
Azobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1
Dibenz(a,h)anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*53*		*11 - 92*	*12/21/18 13:52*	*12/23/18 23:41*	*1*
2-Fluorobiphenyl	*69*		*10 - 101*	*12/21/18 13:52*	*12/23/18 23:41*	*1*
Terphenyl-d14	*83*		*34 - 128*	*12/21/18 13:52*	*12/23/18 23:41*	*1*
2-Fluorophenol	*34*		*10 - 65*	*12/21/18 13:52*	*12/23/18 23:41*	*1*
Phenol-d5	*24*		*10 - 46*	*12/21/18 13:52*	*12/23/18 23:41*	*1*

Client Sample ID: DUP-1

Date Collected: 12/18/18 12:06
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-10

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*17 - 115*	*12/21/18 13:52*	*12/23/18 23:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**380**		49		ug/L		12/20/18 16:30	12/21/18 14:33	1
Motor Oil Range Organics [C24-C36]	**200**		98		ug/L		12/20/18 16:30	12/21/18 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*86*		*23 - 156*	*12/20/18 16:30*	*12/21/18 14:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:20	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:20	1
Barium	**0.10**		0.010		mg/L		12/21/18 15:26	12/27/18 09:41	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 18:20	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 18:20	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:20	1
Cobalt	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 18:20	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:20	1
Lead	**0.011**		0.0050		mg/L		12/21/18 15:26	12/24/18 18:20	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:20	1
Nickel	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:20	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:20	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/27/18 09:41	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:20	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:20	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 23:00	1

Client Sample ID: DUP-2
Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-11
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 17:19	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 17:19	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 17:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 17:19	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 17:19	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 17:19	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 17:19	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 17:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 17:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 17:19	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 17:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 17:19	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 17:19	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 17:19	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 17:19	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 17:19	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 17:19	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 17:19	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 17:19	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 17:19	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 17:19	1
2-Hexanone	ND		50		ug/L			12/19/18 17:19	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 17:19	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 17:19	1
Acetone	ND		50		ug/L			12/19/18 17:19	1
Benzene	ND		0.50		ug/L			12/19/18 17:19	1
Bromobenzene	ND		1.0		ug/L			12/19/18 17:19	1
Bromoform	ND		1.0		ug/L			12/19/18 17:19	1
Bromomethane	ND		1.0		ug/L			12/19/18 17:19	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 17:19	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 17:19	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 17:19	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 17:19	1
Chloroethane	ND		1.0		ug/L			12/19/18 17:19	1
Chloroform	ND		1.0		ug/L			12/19/18 17:19	1
Chloromethane	ND		1.0		ug/L			12/19/18 17:19	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 17:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 17:19	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 17:19	1
Dibromomethane	ND		0.50		ug/L			12/19/18 17:19	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 17:19	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 17:19	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 17:19	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 17:19	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 17:19	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 17:19	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 17:19	1
Naphthalene	ND		1.0		ug/L			12/19/18 17:19	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 17:19	1

Client Sample ID: DUP-2
Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-11
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 17:19	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 17:19	1
Styrene	ND		0.50		ug/L			12/19/18 17:19	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 17:19	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 17:19	1
Toluene	ND		0.50		ug/L			12/19/18 17:19	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 17:19	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 17:19	1
Trichloroethene	ND		0.50		ug/L			12/19/18 17:19	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 17:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 17:19	1
Vinyl acetate	ND		10		ug/L			12/19/18 17:19	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 17:19	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 17:19	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 17:19	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 17:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 17:19	1
C4-C12	ND		50		ug/L			12/19/18 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/19/18 17:19*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/19/18 17:19*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*12/19/18 17:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*12/19/18 17:19*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
2-Chlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Benzyl alcohol	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
2-Methylphenol	ND		3.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
Methylphenol, 3 & 4	ND		7.6		ug/L		12/21/18 13:52	12/24/18 00:07	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Isophorone	ND		3.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
2,4-Dimethylphenol	ND		2.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
Bis(2-chloroethoxy)methane	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
2,4-Dichlorophenol	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Naphthalene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
4-Chloro-3-methylphenol	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: DUP-2
Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-11
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.5		ug/L		12/21/18 13:52	12/24/18 00:07	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
2,4,5-Trichlorophenol	ND		3.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
2-Chloronaphthalene	ND		3.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
2-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/24/18 00:07	1
Dimethyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
Acenaphthylene	ND		3.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
3-Nitroaniline	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
Acenaphthene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 13:52	12/24/18 00:07	1
4-Nitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/24/18 00:07	1
Dibenzofuran	ND		3.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
2,4-Dinitrotoluene	ND		3.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
2,6-Dinitrotoluene	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
Diethyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
4-Chlorophenyl phenyl ether	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
Fluorene	ND		3.8		ug/L		12/21/18 13:52	12/24/18 00:07	1
4-Nitroaniline	ND		9.5		ug/L		12/21/18 13:52	12/24/18 00:07	1
2-Methyl-4,6-dinitrophenol	ND		9.5		ug/L		12/21/18 13:52	12/24/18 00:07	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
4-Bromophenyl phenyl ether	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Pentachlorophenol	ND		9.5		ug/L		12/21/18 13:52	12/24/18 00:07	1
Phenanthrene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Anthracene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Di-n-butyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
Fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Pyrene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Butyl benzyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
3,3'-Dichlorobenzidine	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
Benzo[a]anthracene	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		12/21/18 13:52	12/24/18 00:07	1
Chrysene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Di-n-octyl phthalate	ND		4.7		ug/L		12/21/18 13:52	12/24/18 00:07	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Benzoic acid	ND		19		ug/L		12/21/18 13:52	12/24/18 00:07	1
Azobenzene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 13:52	12/24/18 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*50*		*11 - 92*	*12/21/18 13:52*	*12/24/18 00:07*	*1*
2-Fluorobiphenyl	*69*		*10 - 101*	*12/21/18 13:52*	*12/24/18 00:07*	*1*
Terphenyl-d14	*80*		*34 - 128*	*12/21/18 13:52*	*12/24/18 00:07*	*1*
2-Fluorophenol	*33*		*10 - 65*	*12/21/18 13:52*	*12/24/18 00:07*	*1*
Phenol-d5	*23*		*10 - 46*	*12/21/18 13:52*	*12/24/18 00:07*	*1*

Client Sample ID: DUP-2

Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-11

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*17 - 115*	*12/21/18 13:52*	*12/24/18 00:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		47		ug/L		12/20/18 16:30	12/21/18 14:57	1
Motor Oil Range Organics [C24-C36]	ND		94		ug/L		12/20/18 16:30	12/21/18 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*89*		*23 - 156*	*12/20/18 16:30*	*12/21/18 14:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:25	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:25	1
Barium	**0.048**		0.010		mg/L		12/21/18 15:26	12/27/18 09:45	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 18:25	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 18:25	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:25	1
Cobalt	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 18:25	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:25	1
Lead	**0.014**		0.0050		mg/L		12/21/18 15:26	12/24/18 18:25	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:25	1
Nickel	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:25	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:25	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/27/18 09:45	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:25	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 18:25	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 18:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 23:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: FB-1
Date Collected: 12/18/18 12:36
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-12
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 12:04	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 12:04	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 12:04	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 12:04	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 12:04	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 12:04	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 12:04	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 12:04	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 12:04	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 12:04	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 12:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 12:04	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 12:04	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 12:04	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 12:04	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 12:04	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 12:04	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 12:04	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 12:04	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 12:04	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 12:04	1
2-Hexanone	ND		50		ug/L			12/19/18 12:04	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 12:04	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 12:04	1
Acetone	ND		50		ug/L			12/19/18 12:04	1
Benzene	ND		0.50		ug/L			12/19/18 12:04	1
Bromobenzene	ND		1.0		ug/L			12/19/18 12:04	1
Bromoform	ND		1.0		ug/L			12/19/18 12:04	1
Bromomethane	ND		1.0		ug/L			12/19/18 12:04	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 12:04	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 12:04	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 12:04	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 12:04	1
Chloroethane	ND		1.0		ug/L			12/19/18 12:04	1
Chloroform	ND		1.0		ug/L			12/19/18 12:04	1
Chloromethane	ND		1.0		ug/L			12/19/18 12:04	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 12:04	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 12:04	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 12:04	1
Dibromomethane	ND		0.50		ug/L			12/19/18 12:04	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 12:04	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 12:04	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 12:04	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 12:04	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 12:04	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 12:04	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 12:04	1
Naphthalene	ND		1.0		ug/L			12/19/18 12:04	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 12:04	1

Client Sample ID: FB-1
Date Collected: 12/18/18 12:36
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-12
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 12:04	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 12:04	1
Styrene	ND		0.50		ug/L			12/19/18 12:04	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 12:04	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 12:04	1
Toluene	ND		0.50		ug/L			12/19/18 12:04	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 12:04	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 12:04	1
Trichloroethene	ND		0.50		ug/L			12/19/18 12:04	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 12:04	1
Vinyl acetate	ND		10		ug/L			12/19/18 12:04	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 12:04	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 12:04	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 12:04	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 12:04	1
C4-C12	ND		50		ug/L			12/19/18 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*12/19/18 12:04*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/19/18 12:04*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*12/19/18 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*		*12/19/18 12:04*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: TB-1
Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-13
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 12:33	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 12:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 12:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 12:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 12:33	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 12:33	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 12:33	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 12:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 12:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 12:33	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 12:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 12:33	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 12:33	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 12:33	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 12:33	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 12:33	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 12:33	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 12:33	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 12:33	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 12:33	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 12:33	1
2-Hexanone	ND		50		ug/L			12/19/18 12:33	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 12:33	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 12:33	1
Acetone	ND		50		ug/L			12/19/18 12:33	1
Benzene	ND		0.50		ug/L			12/19/18 12:33	1
Bromobenzene	ND		1.0		ug/L			12/19/18 12:33	1
Bromoform	ND		1.0		ug/L			12/19/18 12:33	1
Bromomethane	ND		1.0		ug/L			12/19/18 12:33	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 12:33	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 12:33	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 12:33	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 12:33	1
Chloroethane	ND		1.0		ug/L			12/19/18 12:33	1
Chloroform	ND		1.0		ug/L			12/19/18 12:33	1
Chloromethane	ND		1.0		ug/L			12/19/18 12:33	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 12:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 12:33	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 12:33	1
Dibromomethane	ND		0.50		ug/L			12/19/18 12:33	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 12:33	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 12:33	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 12:33	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 12:33	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 12:33	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 12:33	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 12:33	1
Naphthalene	ND		1.0		ug/L			12/19/18 12:33	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 12:33	1

Client Sample ID: TB-1
Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-13
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/19/18 12:33	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 12:33	1
Styrene	ND		0.50		ug/L			12/19/18 12:33	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 12:33	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 12:33	1
Toluene	ND		0.50		ug/L			12/19/18 12:33	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 12:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 12:33	1
Trichloroethene	ND		0.50		ug/L			12/19/18 12:33	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 12:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 12:33	1
Vinyl acetate	ND		10		ug/L			12/19/18 12:33	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 12:33	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 12:33	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 12:33	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 12:33	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 12:33	1
C4-C12	ND		50		ug/L			12/19/18 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*12/19/18 12:33*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/19/18 12:33*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*12/19/18 12:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*12/19/18 12:33*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DBFM	DCA
Lab Sample ID	Client Sample ID	(67-130)	(70-130)	(70-130)	(72-130)
720-90322-B-3 MS	Matrix Spike	100	98	108	107
720-90322-B-3 MSD	Matrix Spike Duplicate	100	97	105	103
720-90324-B-3 MS	Matrix Spike	101	106	111	96
720-90324-B-3 MSD	Matrix Spike Duplicate	101	106	112	101
720-90411-1	KMW-4A	100	105	105	102
720-90411-2	LF-3A	98	104	107	104
720-90411-3	LF-4A	101	105	105	98
720-90411-4	MK-2A	102	106	108	104
720-90411-5	MW-9A	99	105	108	105
720-90411-6	MW-11AR	98	105	107	100
720-90411-7	MW-13A	98	97	104	107
720-90411-8	MW-15A	98	98	103	107
720-90411-9	MW-17A	98	99	104	107
720-90411-10	DUP-1	98	98	102	109
720-90411-11	DUP-2	98	98	103	109
720-90411-12	FB-1	99	106	107	106
720-90411-13	TB-1	99	105	106	102
LCS 720-257216/5	Lab Control Sample	102	99	101	100
LCS 720-257216/7	Lab Control Sample	101	100	101	104
LCS 720-257218/4	Lab Control Sample	101	105	110	96
LCS 720-257218/6	Lab Control Sample	102	107	108	98
LCSD 720-257216/6	Lab Control Sample Dup	101	98	103	102
LCSD 720-257216/8	Lab Control Sample Dup	100	99	99	99
LCSD 720-257218/5	Lab Control Sample Dup	101	105	110	98
LCSD 720-257218/7	Lab Control Sample Dup	102	107	106	95
MB 720-257216/4	Method Blank	99	98	100	103
MB 720-257218/8	Method Blank	99	106	107	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHL	2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(11-92)	(10-101)	(34-128)	(10-65)	(10-46)	(17-115)
720-90411-1	KMW-4A	54	72	73	34	25	88
720-90411-2	LF-3A	45	58	86	28	20	77
720-90411-3	LF-4A	50	69	62	35	28	88
720-90411-4	MK-2A	46	59	82	11	7 X	50
720-90411-5	MW-9A	46	61	76	28	21	75
720-90411-6	MW-11AR	45	59	81	28	22	72
720-90411-7	MW-13A	42	55	67	31	25	73
720-90411-8	MW-15A	49	67	87	34	28	86
720-90411-9	MW-17A	51	69	75	33	24	73

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHL	2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(11-92)	(10-101)	(34-128)	(10-65)	(10-46)	(17-115)
720-90411-10	DUP-1	53	69	83	34	24	73
720-90411-11	DUP-2	50	69	80	33	23	78
LCS 720-257452/2-A	Lab Control Sample	66	75	95	41	29	92
LCSD 720-257452/3-A	Lab Control Sample Dup	69	81	97	41	30	97
MB 720-257452/1-A	Method Blank	56	67	84	38	27	75

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14
2FP = 2-Fluorophenol
PHL = Phenol-d5
TBP = 2,4,6-Tribromophenol

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPH1
Lab Sample ID	Client Sample ID	(23-156)
720-90411-1	KMW-4A	87
720-90411-2	LF-3A	87
720-90411-3	LF-4A	85
720-90411-4	MK-2A	82
720-90411-5	MW-9A	81
720-90411-6	MW-11AR	90
720-90411-7	MW-13A	87
720-90411-8	MW-15A	82
720-90411-9	MW-17A	82
720-90411-10	DUP-1	86
720-90411-11	DUP-2	89
LCS 720-257384/2-A	Lab Control Sample	100
LCSD 720-257384/3-A	Lab Control Sample Dup	100
MB 720-257384/1-A	Method Blank	85

Surrogate Legend

TPH = p-Terphenyl

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-257216/4
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 10:07	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 10:07	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 10:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 10:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 10:07	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 10:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 10:07	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 10:07	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 10:07	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 10:07	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 10:07	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 10:07	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 10:07	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 10:07	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 10:07	1
2-Hexanone	ND		50		ug/L			12/19/18 10:07	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 10:07	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 10:07	1
Acetone	ND		50		ug/L			12/19/18 10:07	1
Benzene	ND		0.50		ug/L			12/19/18 10:07	1
Bromobenzene	ND		1.0		ug/L			12/19/18 10:07	1
Bromoform	ND		1.0		ug/L			12/19/18 10:07	1
Bromomethane	ND		1.0		ug/L			12/19/18 10:07	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 10:07	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 10:07	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 10:07	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 10:07	1
Chloroethane	ND		1.0		ug/L			12/19/18 10:07	1
Chloroform	ND		1.0		ug/L			12/19/18 10:07	1
Chloromethane	ND		1.0		ug/L			12/19/18 10:07	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 10:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 10:07	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 10:07	1
Dibromomethane	ND		0.50		ug/L			12/19/18 10:07	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 10:07	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 10:07	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 10:07	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 10:07	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 10:07	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 10:07	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 10:07	1
Naphthalene	ND		1.0		ug/L			12/19/18 10:07	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-257216/4
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			12/19/18 10:07	1
N-Propylbenzene	ND		1.0		ug/L			12/19/18 10:07	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 10:07	1
Styrene	ND		0.50		ug/L			12/19/18 10:07	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 10:07	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 10:07	1
Toluene	ND		0.50		ug/L			12/19/18 10:07	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 10:07	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 10:07	1
Trichloroethene	ND		0.50		ug/L			12/19/18 10:07	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 10:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 10:07	1
Vinyl acetate	ND		10		ug/L			12/19/18 10:07	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 10:07	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 10:07	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 10:07	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 10:07	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 10:07	1
C4-C12	ND		50		ug/L			12/19/18 10:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*12/19/18 10:07*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/19/18 10:07*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*12/19/18 10:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*12/19/18 10:07*	*1*

Lab Sample ID: LCS 720-257216/5
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	77 - 120
1,1,1,2-Tetrachloroethane	25.0	27.4		ug/L		110	81 - 121
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	74 - 130
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 115
1,1,2-Trichloroethane	25.0	27.4		ug/L		110	80 - 117
1,1-Dichloroethane	25.0	27.0		ug/L		108	77 - 119
1,1-Dichloroethene	25.0	27.4		ug/L		109	69 - 119
1,1-Dichloropropene	25.0	26.7		ug/L		107	83 - 130
1,2,3-Trichlorobenzene	25.0	25.8		ug/L		103	87 - 123
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	78 - 120
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		106	75 - 115
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	74 - 126
1,2-Dichlorobenzene	25.0	26.9		ug/L		108	77 - 117
1,2-Dichloroethane	25.0	26.6		ug/L		106	73 - 122
1,2-Dichloropropane	25.0	27.9		ug/L		112	79 - 119
1,3,5-Trimethylbenzene	25.0	26.3		ug/L		105	77 - 117
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	76 - 116

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-257216/5
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	25.0	26.3		ug/L		105	77 - 117
1,4-Dichlorobenzene	25.0	27.1		ug/L		108	76 - 116
2,2-Dichloropropane	25.0	26.4		ug/L		106	74 - 156
2-Chlorotoluene	25.0	26.4		ug/L		106	75 - 115
2-Hexanone	125	123		ug/L		98	63 - 140
4-Chlorotoluene	25.0	26.9		ug/L		107	73 - 119
4-Isopropyltoluene	25.0	26.7		ug/L		107	80 - 120
Acetone	125	119		ug/L		95	61 - 147
Benzene	25.0	26.1		ug/L		105	79 - 119
Bromobenzene	25.0	26.0		ug/L		104	77 - 117
Bromoform	25.0	27.1		ug/L		108	75 - 127
Bromomethane	25.0	24.8		ug/L		99	70 - 132
Carbon disulfide	25.0	27.7		ug/L		111	64 - 127
Carbon tetrachloride	25.0	26.7		ug/L		107	72 - 142
Chlorobenzene	25.0	26.7		ug/L		107	76 - 116
Chlorobromomethane	25.0	26.4		ug/L		106	81 - 122
Chloroethane	25.0	25.1		ug/L		101	70 - 131
Chloroform	25.0	27.2		ug/L		109	82 - 119
Chloromethane	25.0	23.6		ug/L		94	49 - 134
cis-1,2-Dichloroethene	25.0	27.2		ug/L		109	77 - 117
cis-1,3-Dichloropropene	25.0	28.4		ug/L		113	82 - 119
Chlorodibromomethane	25.0	28.5		ug/L		114	77 - 133
Dibromomethane	25.0	26.3		ug/L		105	79 - 117
Dichlorobromomethane	25.0	28.1		ug/L		112	81 - 130
Dichlorodifluoromethane	25.0	23.9		ug/L		95	21 - 150
Ethylbenzene	25.0	26.3		ug/L		105	77 - 117
Hexachlorobutadiene	25.0	25.9		ug/L		104	78 - 140
Isopropylbenzene	25.0	26.9		ug/L		108	77 - 130
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	74 - 119
Methylene Chloride	25.0	24.5		ug/L		98	75 - 117
Methyl tert-butyl ether	25.0	25.1		ug/L		100	70 - 130
Naphthalene	25.0	24.6		ug/L		98	81 - 121
n-Butylbenzene	25.0	26.6		ug/L		107	78 - 119
N-Propylbenzene	25.0	26.7		ug/L		107	77 - 117
o-Xylene	25.0	26.9		ug/L		108	77 - 118
sec-Butylbenzene	25.0	26.2		ug/L		105	78 - 118
Styrene	25.0	25.6		ug/L		102	76 - 116
tert-Butylbenzene	25.0	25.8		ug/L		103	78 - 118
Tetrachloroethene	25.0	26.6		ug/L		106	81 - 130
Toluene	25.0	25.5		ug/L		102	75 - 120
trans-1,2-Dichloroethene	25.0	28.0		ug/L		112	79 - 117
trans-1,3-Dichloropropene	25.0	26.9		ug/L		107	76 - 122
Trichloroethene	25.0	26.3		ug/L		105	80 - 123
Trichlorofluoromethane	25.0	25.4		ug/L		102	75 - 141
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.2		ug/L		109	70 - 133
Vinyl acetate	25.0	23.7		ug/L		95	50 - 126
Vinyl chloride	25.0	26.0		ug/L		104	58 - 138

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-257216/5
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	25.0	26.6		ug/L		106	80 - 121
2-Butanone (MEK)	125	120		ug/L		96	66 - 133
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	66 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*

Lab Sample ID: LCS 720-257216/7
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C4-C12	500	412		ug/L		82	77 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*

Lab Sample ID: LCSD 720-257216/6
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	25.0	25.8		ug/L		103	77 - 120	4	20
1,1,1,2-Tetrachloroethane	25.0	27.7		ug/L		111	81 - 121	1	20
1,1,1-Trichloroethane	25.0	26.6		ug/L		107	74 - 130	0	20
1,1,2,2-Tetrachloroethane	25.0	27.4		ug/L		110	70 - 115	3	20
1,1,2-Trichloroethane	25.0	28.3		ug/L		113	80 - 117	3	20
1,1-Dichloroethane	25.0	27.0		ug/L		108	77 - 119	0	20
1,1-Dichloroethene	25.0	27.2		ug/L		109	69 - 119	0	20
1,1-Dichloropropene	25.0	26.4		ug/L		106	83 - 130	1	20
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	87 - 123	3	20
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	78 - 120	3	20
1,2,4-Trimethylbenzene	25.0	26.3		ug/L		105	75 - 115	0	20
1,2-Dibromo-3-Chloropropane	25.0	23.1		ug/L		92	74 - 126	1	20
1,2-Dichlorobenzene	25.0	27.1		ug/L		108	77 - 117	1	20
1,2-Dichloroethane	25.0	27.0		ug/L		108	73 - 122	1	20
1,2-Dichloropropane	25.0	27.9		ug/L		112	79 - 119	0	20
1,3,5-Trimethylbenzene	25.0	26.4		ug/L		106	77 - 117	1	20
1,3-Dichlorobenzene	25.0	27.2		ug/L		109	76 - 116	1	20
1,3-Dichloropropane	25.0	26.8		ug/L		107	77 - 117	2	20
1,4-Dichlorobenzene	25.0	27.5		ug/L		110	76 - 116	1	20
2,2-Dichloropropane	25.0	26.2		ug/L		105	74 - 156	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-257216/6
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	25.0	26.9		ug/L		108	75 - 115	2	20
2-Hexanone	125	124		ug/L		99	63 - 140	1	24
4-Chlorotoluene	25.0	27.2		ug/L		109	73 - 119	1	20
4-Isopropyltoluene	25.0	26.6		ug/L		107	80 - 120	0	20
Acetone	125	115		ug/L		92	61 - 147	4	30
Benzene	25.0	26.2		ug/L		105	79 - 119	0	20
Bromobenzene	25.0	26.6		ug/L		107	77 - 117	2	20
Bromoform	25.0	27.5		ug/L		110	75 - 127	1	20
Bromomethane	25.0	24.4		ug/L		98	70 - 132	2	20
Carbon disulfide	25.0	27.5		ug/L		110	64 - 127	1	20
Carbon tetrachloride	25.0	26.4		ug/L		106	72 - 142	1	20
Chlorobenzene	25.0	26.6		ug/L		106	76 - 116	1	20
Chlorobromomethane	25.0	26.8		ug/L		107	81 - 122	2	20
Chloroethane	25.0	24.3		ug/L		97	70 - 131	3	20
Chloroform	25.0	27.5		ug/L		110	82 - 119	1	20
Chloromethane	25.0	23.4		ug/L		94	49 - 134	1	20
cis-1,2-Dichloroethene	25.0	27.3		ug/L		109	77 - 117	1	20
cis-1,3-Dichloropropene	25.0	29.0		ug/L		116	82 - 119	2	20
Chlorodibromomethane	25.0	29.1		ug/L		116	77 - 133	2	20
Dibromomethane	25.0	27.0		ug/L		108	79 - 117	3	20
Dichlorobromomethane	25.0	28.3		ug/L		113	81 - 130	1	20
Dichlorodifluoromethane	25.0	23.0		ug/L		92	21 - 150	4	20
Ethylbenzene	25.0	26.0		ug/L		104	77 - 117	1	20
Hexachlorobutadiene	25.0	24.6		ug/L		99	78 - 140	5	20
Isopropylbenzene	25.0	26.7		ug/L		107	77 - 130	1	20
m-Xylene & p-Xylene	25.0	25.9		ug/L		103	74 - 119	1	20
Methylene Chloride	25.0	25.0		ug/L		100	75 - 117	2	20
Methyl tert-butyl ether	25.0	25.6		ug/L		102	70 - 130	2	20
Naphthalene	25.0	24.2		ug/L		97	81 - 121	2	20
n-Butylbenzene	25.0	26.2		ug/L		105	78 - 119	2	20
N-Propylbenzene	25.0	26.8		ug/L		107	77 - 117	0	20
o-Xylene	25.0	26.8		ug/L		107	77 - 118	1	20
sec-Butylbenzene	25.0	26.1		ug/L		104	78 - 118	0	20
Styrene	25.0	25.5		ug/L		102	76 - 116	0	20
tert-Butylbenzene	25.0	26.0		ug/L		104	78 - 118	1	20
Tetrachloroethene	25.0	26.1		ug/L		105	81 - 130	2	20
Toluene	25.0	25.5		ug/L		102	75 - 120	0	20
trans-1,2-Dichloroethene	25.0	28.1		ug/L		113	79 - 117	1	20
trans-1,3-Dichloropropene	25.0	27.5		ug/L		110	76 - 122	3	20
Trichloroethene	25.0	26.4		ug/L		105	80 - 123	0	20
Trichlorofluoromethane	25.0	25.0		ug/L		100	75 - 141	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.5		ug/L		106	70 - 133	3	20
Vinyl acetate	25.0	23.9		ug/L		96	50 - 126	1	20
Vinyl chloride	25.0	25.6		ug/L		103	58 - 138	2	20
Ethylene Dibromide	25.0	27.3		ug/L		109	80 - 121	3	20
2-Butanone (MEK)	125	116		ug/L		92	66 - 133	4	22
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	66 - 140	0	21

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-257216/6
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*101*		*67 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*

Lab Sample ID: LCSD 720-257216/8
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C4-C12			500	453		ug/L		91	77 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*100*		*67 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*72 - 130*

Lab Sample ID: 720-90322-B-3 MS
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		25.0	26.7		ug/L		107	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	28.6		ug/L		114	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.8		ug/L		111	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	28.7		ug/L		115	60 - 140
1,1,2-Trichloroethane	ND		25.0	30.4		ug/L		121	60 - 140
1,1-Dichloroethane	ND		25.0	28.2		ug/L		113	60 - 140
1,1-Dichloroethene	ND		25.0	28.1		ug/L		112	60 - 140
1,1-Dichloropropene	ND		25.0	26.8		ug/L		107	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.3		ug/L		101	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	26.3		ug/L		105	60 - 140
1,2-Dibromo-3-Chloropropane	ND		25.0	23.7		ug/L		95	60 - 140
1,2-Dichlorobenzene	ND		25.0	28.1		ug/L		112	60 - 140
1,2-Dichloroethane	ND		25.0	29.2		ug/L		117	60 - 140
1,2-Dichloropropane	ND		25.0	29.7		ug/L		119	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	26.4		ug/L		106	60 - 140
1,3-Dichlorobenzene	ND		25.0	27.4		ug/L		110	60 - 140
1,3-Dichloropropane	ND		25.0	28.8		ug/L		115	60 - 140
1,4-Dichlorobenzene	ND		25.0	27.6		ug/L		110	60 - 140
2,2-Dichloropropane	ND		25.0	24.1		ug/L		96	60 - 140
2-Chlorotoluene	ND		25.0	27.0		ug/L		108	60 - 140
2-Hexanone	ND		125	128		ug/L		103	60 - 140
4-Chlorotoluene	ND		25.0	27.2		ug/L		109	60 - 140
4-Isopropyltoluene	ND		25.0	26.5		ug/L		106	60 - 140
Acetone	ND		125	108		ug/L		87	60 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90322-B-3 MS
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	27.4		ug/L		109	60 - 140
Bromobenzene	ND		25.0	27.6		ug/L		110	60 - 140
Bromoform	ND		25.0	27.8		ug/L		111	56 - 140
Bromomethane	ND		25.0	26.6		ug/L		106	23 - 140
Carbon disulfide	ND		25.0	28.4		ug/L		113	38 - 140
Carbon tetrachloride	ND		25.0	27.0		ug/L		108	60 - 140
Chlorobenzene	ND		25.0	27.2		ug/L		109	60 - 140
Chlorobromomethane	ND		25.0	29.0		ug/L		116	60 - 140
Chloroethane	ND		25.0	26.8		ug/L		107	51 - 140
Chloroform	ND		25.0	29.5		ug/L		118	60 - 140
Chloromethane	ND		25.0	25.1		ug/L		99	52 - 140
cis-1,2-Dichloroethene	ND		25.0	29.1		ug/L		116	60 - 140
cis-1,3-Dichloropropene	ND		25.0	29.5		ug/L		118	60 - 140
Chlorodibromomethane	ND		25.0	30.7		ug/L		123	60 - 140
Dibromomethane	ND		25.0	29.3		ug/L		117	60 - 140
Dichlorobromomethane	ND		25.0	30.1		ug/L		120	60 - 140
Dichlorodifluoromethane	ND		25.0	24.8		ug/L		99	38 - 140
Ethylbenzene	ND		25.0	26.3		ug/L		105	60 - 140
Hexachlorobutadiene	ND		25.0	23.9		ug/L		96	60 - 140
Isopropylbenzene	ND		25.0	26.8		ug/L		107	60 - 140
m-Xylene & p-Xylene	ND		25.0	26.0		ug/L		104	60 - 140
Methylene Chloride	ND		25.0	26.7		ug/L		107	40 - 140
Methyl tert-butyl ether	ND		25.0	24.9		ug/L		100	60 - 138
Naphthalene	ND		25.0	25.9		ug/L		104	56 - 140
n-Butylbenzene	ND		25.0	25.5		ug/L		102	60 - 140
N-Propylbenzene	ND		25.0	26.6		ug/L		106	60 - 140
o-Xylene	ND		25.0	27.5		ug/L		110	60 - 140
sec-Butylbenzene	ND		25.0	26.0		ug/L		104	60 - 140
Styrene	ND		25.0	25.2		ug/L		101	60 - 140
tert-Butylbenzene	ND		25.0	26.1		ug/L		105	60 - 140
Tetrachloroethene	ND		25.0	26.2		ug/L		105	60 - 140
Toluene	ND		25.0	25.8		ug/L		103	60 - 140
trans-1,2-Dichloroethene	ND		25.0	28.6		ug/L		115	60 - 140
trans-1,3-Dichloropropene	ND		25.0	27.9		ug/L		112	60 - 140
Trichloroethene	ND		25.0	26.9		ug/L		108	60 - 140
Trichlorofluoromethane	ND		25.0	26.3		ug/L		105	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	0.86		25.0	27.5		ug/L		107	60 - 140
Vinyl acetate	ND		25.0	23.6		ug/L		94	40 - 140
Vinyl chloride	ND		25.0	27.0		ug/L		108	58 - 140
Ethylene Dibromide	ND		25.0	29.7		ug/L		119	60 - 140
2-Butanone (MEK)	ND		125	124		ug/L		99	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	131		ug/L		105	58 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90322-B-3 MS
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*

Lab Sample ID: 720-90322-B-3 MSD
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	25.2		ug/L		101	60 - 140	6	20
1,1,1,2-Tetrachloroethane	ND		25.0	28.3		ug/L		113	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	27.7		ug/L		111	60 - 140	0	20
1,1,2,2-Tetrachloroethane	ND		25.0	27.5		ug/L		110	60 - 140	4	20
1,1,2-Trichloroethane	ND		25.0	29.0		ug/L		116	60 - 140	4	20
1,1-Dichloroethane	ND		25.0	28.1		ug/L		113	60 - 140	0	20
1,1-Dichloroethene	ND		25.0	28.0		ug/L		112	60 - 140	0	20
1,1-Dichloropropene	ND		25.0	26.7		ug/L		107	60 - 140	0	20
1,2,3-Trichlorobenzene	ND		25.0	25.9		ug/L		103	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		25.0	26.7		ug/L		107	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	22.4		ug/L		90	60 - 140	6	20
1,2-Dichlorobenzene	ND		25.0	27.8		ug/L		111	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	28.0		ug/L		112	60 - 140	4	20
1,2-Dichloropropane	ND		25.0	29.4		ug/L		118	60 - 140	1	20
1,3,5-Trimethylbenzene	ND		25.0	26.4		ug/L		106	60 - 140	0	20
1,3-Dichlorobenzene	ND		25.0	27.5		ug/L		110	60 - 140	0	20
1,3-Dichloropropane	ND		25.0	27.7		ug/L		111	60 - 140	4	20
1,4-Dichlorobenzene	ND		25.0	27.5		ug/L		110	60 - 140	0	20
2,2-Dichloropropane	ND		25.0	24.9		ug/L		99	60 - 140	3	20
2-Chlorotoluene	ND		25.0	27.2		ug/L		109	60 - 140	1	20
2-Hexanone	ND		125	116		ug/L		93	60 - 140	10	20
4-Chlorotoluene	ND		25.0	27.3		ug/L		109	60 - 140	0	20
4-Isopropyltoluene	ND		25.0	26.6		ug/L		106	60 - 140	0	20
Acetone	ND		125	104		ug/L		84	60 - 140	4	20
Benzene	ND		25.0	27.2		ug/L		109	60 - 140	1	20
Bromobenzene	ND		25.0	27.3		ug/L		109	60 - 140	1	20
Bromoform	ND		25.0	26.8		ug/L		107	56 - 140	4	20
Bromomethane	ND		25.0	26.3		ug/L		105	23 - 140	1	20
Carbon disulfide	ND		25.0	28.3		ug/L		113	38 - 140	0	20
Carbon tetrachloride	ND		25.0	27.0		ug/L		108	60 - 140	0	20
Chlorobenzene	ND		25.0	27.1		ug/L		108	60 - 140	0	20
Chlorobromomethane	ND		25.0	28.1		ug/L		112	60 - 140	3	20
Chloroethane	ND		25.0	25.9		ug/L		104	51 - 140	3	20
Chloroform	ND		25.0	29.0		ug/L		116	60 - 140	2	20
Chloromethane	ND		25.0	24.8		ug/L		98	52 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	28.6		ug/L		114	60 - 140	2	20
cis-1,3-Dichloropropene	ND		25.0	28.9		ug/L		116	60 - 140	2	20
Chlorodibromomethane	ND		25.0	29.6		ug/L		118	60 - 140	4	20
Dibromomethane	ND		25.0	27.9		ug/L		112	60 - 140	5	20
Dichlorobromomethane	ND		25.0	29.6		ug/L		118	60 - 140	2	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90322-B-3 MSD
Matrix: Water
Analysis Batch: 257216

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND		25.0	24.3		ug/L		97	38 - 140	2	20
Ethylbenzene	ND		25.0	26.4		ug/L		105	60 - 140	0	20
Hexachlorobutadiene	ND		25.0	24.1		ug/L		96	60 - 140	1	20
Isopropylbenzene	ND		25.0	26.6		ug/L		107	60 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	26.0		ug/L		104	60 - 140	0	20
Methylene Chloride	ND		25.0	26.2		ug/L		105	40 - 140	2	20
Methyl tert-butyl ether	ND		25.0	21.6		ug/L		86	60 - 138	14	20
Naphthalene	ND		25.0	24.8		ug/L		99	56 - 140	4	20
n-Butylbenzene	ND		25.0	26.0		ug/L		104	60 - 140	2	20
N-Propylbenzene	ND		25.0	26.9		ug/L		108	60 - 140	1	20
o-Xylene	ND		25.0	27.3		ug/L		109	60 - 140	1	20
sec-Butylbenzene	ND		25.0	26.3		ug/L		105	60 - 140	1	20
Styrene	ND		25.0	24.4		ug/L		97	60 - 140	3	20
tert-Butylbenzene	ND		25.0	26.5		ug/L		106	60 - 140	1	20
Tetrachloroethene	ND		25.0	26.2		ug/L		105	60 - 140	0	20
Toluene	ND		25.0	25.7		ug/L		103	60 - 140	0	20
trans-1,2-Dichloroethene	ND		25.0	28.5		ug/L		114	60 - 140	0	20
trans-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	60 - 140	3	20
Trichloroethene	ND		25.0	26.8		ug/L		107	60 - 140	1	20
Trichlorofluoromethane	ND		25.0	25.9		ug/L		103	60 - 140	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	0.86		25.0	27.8		ug/L		108	60 - 140	1	20
Vinyl acetate	ND		25.0	22.2		ug/L		89	40 - 140	6	20
Vinyl chloride	ND		25.0	26.4		ug/L		106	58 - 140	2	20
Ethylene Dibromide	ND		25.0	27.9		ug/L		112	60 - 140	6	20
2-Butanone (MEK)	ND		125	114		ug/L		91	60 - 140	8	20
4-Methyl-2-pentanone (MIBK)	ND		125	119		ug/L		95	58 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*

Lab Sample ID: MB 720-257218/8
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 10:09	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 10:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 10:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 10:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 10:09	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 10:09	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 10:09	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 10:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 10:09	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-257218/8
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 10:09	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 10:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 10:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 10:09	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 10:09	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 10:09	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 10:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 10:09	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 10:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 10:09	1
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 10:09	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 10:09	1
2-Hexanone	ND		50		ug/L			12/19/18 10:09	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 10:09	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 10:09	1
Acetone	ND		50		ug/L			12/19/18 10:09	1
Benzene	ND		0.50		ug/L			12/19/18 10:09	1
Bromobenzene	ND		1.0		ug/L			12/19/18 10:09	1
Bromoform	ND		1.0		ug/L			12/19/18 10:09	1
Bromomethane	ND		1.0		ug/L			12/19/18 10:09	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 10:09	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 10:09	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 10:09	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 10:09	1
Chloroethane	ND		1.0		ug/L			12/19/18 10:09	1
Chloroform	ND		1.0		ug/L			12/19/18 10:09	1
Chloromethane	ND		1.0		ug/L			12/19/18 10:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 10:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 10:09	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 10:09	1
Dibromomethane	ND		0.50		ug/L			12/19/18 10:09	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 10:09	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 10:09	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 10:09	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 10:09	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 10:09	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 10:09	1
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 10:09	1
Naphthalene	ND		1.0		ug/L			12/19/18 10:09	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 10:09	1
N-Propylbenzene	ND		1.0		ug/L			12/19/18 10:09	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 10:09	1
Styrene	ND		0.50		ug/L			12/19/18 10:09	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 10:09	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 10:09	1
Toluene	ND		0.50		ug/L			12/19/18 10:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 10:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 10:09	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-257218/8
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.50		ug/L			12/19/18 10:09	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 10:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 10:09	1
Vinyl acetate	ND		10		ug/L			12/19/18 10:09	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 10:09	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 10:09	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 10:09	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 10:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 10:09	1
C4-C12	ND		50		ug/L			12/19/18 10:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*12/19/18 10:09*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/19/18 10:09*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*12/19/18 10:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*		*12/19/18 10:09*	*1*

Lab Sample ID: LCS 720-257218/4
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	25.0	22.7		ug/L		91	77 - 120
1,1,1,2-Tetrachloroethane	25.0	27.6		ug/L		110	81 - 121
1,1,1-Trichloroethane	25.0	26.9		ug/L		108	74 - 130
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	70 - 115
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	80 - 117
1,1-Dichloroethane	25.0	25.0		ug/L		100	77 - 119
1,1-Dichloroethene	25.0	26.7		ug/L		107	69 - 119
1,1-Dichloropropene	25.0	25.2		ug/L		101	83 - 130
1,2,3-Trichlorobenzene	25.0	27.6		ug/L		110	87 - 123
1,2,4-Trichlorobenzene	25.0	28.0		ug/L		112	78 - 120
1,2,4-Trimethylbenzene	25.0	25.5		ug/L		102	75 - 115
1,2-Dibromo-3-Chloropropane	25.0	25.6		ug/L		103	74 - 126
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	77 - 117
1,2-Dichloroethane	25.0	25.2		ug/L		101	73 - 122
1,2-Dichloropropane	25.0	25.2		ug/L		101	79 - 119
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	77 - 117
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	76 - 116
1,3-Dichloropropane	25.0	25.9		ug/L		104	77 - 117
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	76 - 116
2,2-Dichloropropane	25.0	28.7		ug/L		115	74 - 156
2-Chlorotoluene	25.0	24.1		ug/L		96	75 - 115
2-Hexanone	125	110		ug/L		88	63 - 140
4-Chlorotoluene	25.0	24.7		ug/L		99	73 - 119
4-Isopropyltoluene	25.0	25.7		ug/L		103	80 - 120
Acetone	125	115		ug/L		92	61 - 147
Benzene	25.0	25.2		ug/L		101	79 - 119

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-257218/4
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	25.0	26.0		ug/L		104	77 - 117
Bromoform	25.0	27.5		ug/L		110	75 - 127
Bromomethane	25.0	29.9		ug/L		120	70 - 132
Carbon disulfide	25.0	26.7		ug/L		107	64 - 127
Carbon tetrachloride	25.0	28.1		ug/L		112	72 - 142
Chlorobenzene	25.0	25.6		ug/L		102	76 - 116
Chlorobromomethane	25.0	28.2		ug/L		113	81 - 122
Chloroethane	25.0	26.9		ug/L		108	70 - 131
Chloroform	25.0	26.7		ug/L		107	82 - 119
Chloromethane	25.0	23.3		ug/L		93	49 - 134
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	77 - 117
cis-1,3-Dichloropropene	25.0	27.3		ug/L		109	82 - 119
Chlorodibromomethane	25.0	29.6		ug/L		118	77 - 133
Dibromomethane	25.0	25.9		ug/L		104	79 - 117
Dichlorobromomethane	25.0	27.0		ug/L		108	81 - 130
Dichlorodifluoromethane	25.0	27.8		ug/L		111	21 - 150
Ethylbenzene	25.0	25.6		ug/L		102	77 - 117
Hexachlorobutadiene	25.0	28.6		ug/L		115	78 - 140
Isopropylbenzene	25.0	27.1		ug/L		109	77 - 130
m-Xylene & p-Xylene	25.0	25.6		ug/L		102	74 - 119
Methylene Chloride	25.0	24.9		ug/L		99	75 - 117
Methyl tert-butyl ether	25.0	24.5		ug/L		98	70 - 130
Naphthalene	25.0	23.6		ug/L		95	81 - 121
n-Butylbenzene	25.0	25.4		ug/L		101	78 - 119
N-Propylbenzene	25.0	23.4		ug/L		94	77 - 117
o-Xylene	25.0	25.9		ug/L		104	77 - 118
sec-Butylbenzene	25.0	24.2		ug/L		97	78 - 118
Styrene	25.0	25.3		ug/L		101	76 - 116
tert-Butylbenzene	25.0	25.3		ug/L		101	78 - 118
Tetrachloroethene	25.0	29.6		ug/L		118	81 - 130
Toluene	25.0	24.2		ug/L		97	75 - 120
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	79 - 117
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	76 - 122
Trichloroethene	25.0	28.6		ug/L		114	80 - 123
Trichlorofluoromethane	25.0	27.1		ug/L		108	75 - 141
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.6		ug/L		119	70 - 133
Vinyl acetate	25.0	22.1		ug/L		88	50 - 126
Vinyl chloride	25.0	26.8		ug/L		107	58 - 138
Ethylene Dibromide	25.0	26.8		ug/L		107	80 - 121
2-Butanone (MEK)	125	121		ug/L		97	66 - 133
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	66 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*

Lab Sample ID: LCS 720-257218/6
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C4-C12			500	480		ug/L		96	77 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*

Lab Sample ID: LCSD 720-257218/5
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane			25.0	23.0		ug/L		92	77 - 120	1	20
1,1,1,2-Tetrachloroethane			25.0	27.4		ug/L		110	81 - 121	1	20
1,1,1-Trichloroethane			25.0	26.4		ug/L		105	74 - 130	2	20
1,1,2,2-Tetrachloroethane			25.0	23.3		ug/L		93	70 - 115	3	20
1,1,2-Trichloroethane			25.0	25.7		ug/L		103	80 - 117	1	20
1,1-Dichloroethane			25.0	24.7		ug/L		99	77 - 119	1	20
1,1-Dichloroethene			25.0	26.0		ug/L		104	69 - 119	3	20
1,1-Dichloropropene			25.0	24.8		ug/L		99	83 - 130	2	20
1,2,3-Trichlorobenzene			25.0	28.1		ug/L		112	87 - 123	2	20
1,2,4-Trichlorobenzene			25.0	28.4		ug/L		114	78 - 120	1	20
1,2,4-Trimethylbenzene			25.0	25.3		ug/L		101	75 - 115	1	20
1,2-Dibromo-3-Chloropropane			25.0	26.1		ug/L		104	74 - 126	2	20
1,2-Dichlorobenzene			25.0	25.6		ug/L		102	77 - 117	1	20
1,2-Dichloroethane			25.0	25.1		ug/L		101	73 - 122	0	20
1,2-Dichloropropane			25.0	25.2		ug/L		101	79 - 119	0	20
1,3,5-Trimethylbenzene			25.0	25.3		ug/L		101	77 - 117	2	20
1,3-Dichlorobenzene			25.0	25.9		ug/L		104	76 - 116	1	20
1,3-Dichloropropane			25.0	25.8		ug/L		103	77 - 117	0	20
1,4-Dichlorobenzene			25.0	26.2		ug/L		105	76 - 116	1	20
2,2-Dichloropropane			25.0	27.6		ug/L		111	74 - 156	4	20
2-Chlorotoluene			25.0	23.7		ug/L		95	75 - 115	2	20
2-Hexanone			125	115		ug/L		92	63 - 140	5	24
4-Chlorotoluene			25.0	24.6		ug/L		98	73 - 119	1	20
4-Isopropyltoluene			25.0	25.3		ug/L		101	80 - 120	1	20
Acetone			125	122		ug/L		97	61 - 147	5	30
Benzene			25.0	24.7		ug/L		99	79 - 119	2	20
Bromobenzene			25.0	25.8		ug/L		103	77 - 117	1	20
Bromoform			25.0	27.9		ug/L		112	75 - 127	1	20
Bromomethane			25.0	28.6		ug/L		114	70 - 132	5	20
Carbon disulfide			25.0	25.9		ug/L		104	64 - 127	3	20
Carbon tetrachloride			25.0	27.5		ug/L		110	72 - 142	2	20
Chlorobenzene			25.0	25.3		ug/L		101	76 - 116	1	20
Chlorobromomethane			25.0	28.6		ug/L		114	81 - 122	1	20
Chloroethane			25.0	26.5		ug/L		106	70 - 131	1	20
Chloroform			25.0	26.5		ug/L		106	82 - 119	1	20
Chloromethane			25.0	22.2		ug/L		89	49 - 134	5	20
cis-1,2-Dichloroethene			25.0	25.5		ug/L		102	77 - 117	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-257218/5
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			25.0	27.5		ug/L		110	82 - 119	1	20
Chlorodibromomethane			25.0	30.2		ug/L		121	77 - 133	2	20
Dibromomethane			25.0	25.9		ug/L		104	79 - 117	0	20
Dichlorobromomethane			25.0	27.0		ug/L		108	81 - 130	0	20
Dichlorodifluoromethane			25.0	26.8		ug/L		107	21 - 150	3	20
Ethylbenzene			25.0	25.2		ug/L		101	77 - 117	2	20
Hexachlorobutadiene			25.0	27.9		ug/L		111	78 - 140	3	20
Isopropylbenzene			25.0	26.6		ug/L		106	77 - 130	2	20
m-Xylene & p-Xylene			25.0	25.0		ug/L		100	74 - 119	2	20
Methylene Chloride			25.0	24.3		ug/L		97	75 - 117	2	20
Methyl tert-butyl ether			25.0	25.1		ug/L		100	70 - 130	2	20
Naphthalene			25.0	24.5		ug/L		98	81 - 121	4	20
n-Butylbenzene			25.0	24.9		ug/L		100	78 - 119	2	20
N-Propylbenzene			25.0	23.1		ug/L		92	77 - 117	1	20
o-Xylene			25.0	25.7		ug/L		103	77 - 118	1	20
sec-Butylbenzene			25.0	23.9		ug/L		95	78 - 118	1	20
Styrene			25.0	25.0		ug/L		100	76 - 116	1	20
tert-Butylbenzene			25.0	24.9		ug/L		100	78 - 118	1	20
Tetrachloroethene			25.0	28.7		ug/L		115	81 - 130	3	20
Toluene			25.0	24.0		ug/L		96	75 - 120	1	20
trans-1,2-Dichloroethene			25.0	26.1		ug/L		104	79 - 117	2	20
trans-1,3-Dichloropropene			25.0	26.6		ug/L		106	76 - 122	1	20
Trichloroethene			25.0	27.9		ug/L		112	80 - 123	2	20
Trichlorofluoromethane			25.0	26.3		ug/L		105	75 - 141	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	28.7		ug/L		115	70 - 133	3	20
Vinyl acetate			25.0	23.1		ug/L		92	50 - 126	4	20
Vinyl chloride			25.0	25.7		ug/L		103	58 - 138	4	20
Ethylene Dibromide			25.0	27.0		ug/L		108	80 - 121	1	20
2-Butanone (MEK)			125	122		ug/L		98	66 - 133	1	22
4-Methyl-2-pentanone (MIBK)			125	114		ug/L		91	66 - 140	4	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*

Lab Sample ID: LCSD 720-257218/7
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C4-C12			500	452		ug/L		90	77 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-257218/7
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*

Lab Sample ID: 720-90324-B-3 MS
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		50.0	45.4		ug/L		91	60 - 140
1,1,1,2-Tetrachloroethane	ND		50.0	56.6		ug/L		113	60 - 140
1,1,1-Trichloroethane	ND		50.0	55.3		ug/L		111	60 - 140
1,1,2,2-Tetrachloroethane	ND		50.0	45.4		ug/L		91	60 - 140
1,1,2-Trichloroethane	ND		50.0	52.6		ug/L		105	60 - 140
1,1-Dichloroethane	ND		50.0	51.7		ug/L		103	60 - 140
1,1-Dichloroethene	ND		50.0	54.3		ug/L		109	60 - 140
1,1-Dichloropropene	ND		50.0	50.9		ug/L		102	60 - 140
1,2,3-Trichlorobenzene	ND		50.0	56.3		ug/L		113	60 - 140
1,2,4-Trichlorobenzene	ND		50.0	58.4		ug/L		117	60 - 140
1,2,4-Trimethylbenzene	11		50.0	63.1		ug/L		104	60 - 140
1,2-Dibromo-3-Chloropropane	ND		50.0	51.3		ug/L		103	60 - 140
1,2-Dichlorobenzene	ND		50.0	53.7		ug/L		107	60 - 140
1,2-Dichloroethane	ND		50.0	51.1		ug/L		102	60 - 140
1,2-Dichloropropane	ND		50.0	53.2		ug/L		106	60 - 140
1,3,5-Trimethylbenzene	3.2		50.0	55.9		ug/L		106	60 - 140
1,3-Dichlorobenzene	ND		50.0	54.0		ug/L		108	60 - 140
1,3-Dichloropropane	ND		50.0	52.1		ug/L		104	60 - 140
1,4-Dichlorobenzene	ND		50.0	53.3		ug/L		107	60 - 140
2,2-Dichloropropane	ND		50.0	54.8		ug/L		110	60 - 140
2-Chlorotoluene	ND		50.0	50.5		ug/L		101	60 - 140
2-Hexanone	ND		250	212		ug/L		85	60 - 140
4-Chlorotoluene	ND		50.0	51.2		ug/L		102	60 - 140
4-Isopropyltoluene	ND		50.0	53.0		ug/L		106	60 - 140
Acetone	ND		250	216		ug/L		87	60 - 140
Benzene	79		50.0	124		ug/L		90	60 - 140
Bromobenzene	ND		50.0	52.7		ug/L		105	60 - 140
Bromoform	ND		50.0	54.4		ug/L		109	56 - 140
Bromomethane	ND		50.0	68.1		ug/L		136	23 - 140
Carbon disulfide	ND		50.0	53.7		ug/L		107	38 - 140
Carbon tetrachloride	ND		50.0	57.7		ug/L		115	60 - 140
Chlorobenzene	ND		50.0	52.0		ug/L		104	60 - 140
Chlorobromomethane	ND		50.0	58.1		ug/L		116	60 - 140
Chloroethane	ND		50.0	63.7		ug/L		127	51 - 140
Chloroform	ND		50.0	55.3		ug/L		111	60 - 140
Chloromethane	ND		50.0	51.5		ug/L		103	52 - 140
cis-1,2-Dichloroethene	ND		50.0	52.9		ug/L		106	60 - 140
cis-1,3-Dichloropropene	ND		50.0	55.8		ug/L		112	60 - 140
Chlorodibromomethane	ND		50.0	61.1		ug/L		122	60 - 140
Dibromomethane	ND		50.0	52.0		ug/L		104	60 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90324-B-3 MS
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	ND		50.0	56.8		ug/L		114	60 - 140
Dichlorodifluoromethane	ND		50.0	54.6		ug/L		109	38 - 140
Ethylbenzene	24		50.0	72.8		ug/L		97	60 - 140
Hexachlorobutadiene	ND		50.0	59.2		ug/L		118	60 - 140
Isopropylbenzene	16		50.0	69.3		ug/L		106	60 - 140
m-Xylene & p-Xylene	28		50.0	77.7		ug/L		99	60 - 140
Methylene Chloride	ND		50.0	50.5		ug/L		101	40 - 140
Methyl tert-butyl ether	110		50.0	158		ug/L		96	60 - 138
Naphthalene	8.0		50.0	57.1		ug/L		98	56 - 140
n-Butylbenzene	3.5		50.0	54.9		ug/L		103	60 - 140
N-Propylbenzene	29		50.0	69.4		ug/L		81	60 - 140
o-Xylene	8.8		50.0	61.6		ug/L		106	60 - 140
sec-Butylbenzene	3.1		50.0	52.6		ug/L		99	60 - 140
Styrene	ND		50.0	51.2		ug/L		102	60 - 140
tert-Butylbenzene	ND		50.0	52.7		ug/L		105	60 - 140
Tetrachloroethene	ND		50.0	58.6		ug/L		117	60 - 140
Toluene	5.6		50.0	54.9		ug/L		99	60 - 140
trans-1,2-Dichloroethene	ND		50.0	53.2		ug/L		106	60 - 140
trans-1,3-Dichloropropene	ND		50.0	53.5		ug/L		107	60 - 140
Trichloroethene	ND		50.0	57.5		ug/L		115	60 - 140
Trichlorofluoromethane	ND		50.0	54.1		ug/L		108	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	58.8		ug/L		118	60 - 140
Vinyl acetate	ND		50.0	49.3		ug/L		84	40 - 140
Vinyl chloride	ND		50.0	58.6		ug/L		117	58 - 140
Ethylene Dibromide	ND		50.0	54.5		ug/L		109	60 - 140
2-Butanone (MEK)	ND		250	228		ug/L		91	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		250	223		ug/L		89	58 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*

Lab Sample ID: 720-90324-B-3 MSD
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		50.0	51.5		ug/L		103	60 - 140	13	20
1,1,1,2-Tetrachloroethane	ND		50.0	57.7		ug/L		115	60 - 140	2	20
1,1,1-Trichloroethane	ND		50.0	55.9		ug/L		112	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		50.0	51.1		ug/L		102	60 - 140	12	20
1,1,2-Trichloroethane	ND		50.0	57.5		ug/L		115	60 - 140	9	20
1,1-Dichloroethane	ND		50.0	53.5		ug/L		107	60 - 140	4	20
1,1-Dichloroethene	ND		50.0	54.6		ug/L		109	60 - 140	0	20
1,1-Dichloropropene	ND		50.0	51.6		ug/L		103	60 - 140	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90324-B-3 MSD
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	ND		50.0	61.0		ug/L		122	60 - 140	8	20
1,2,4-Trichlorobenzene	ND		50.0	60.8		ug/L		122	60 - 140	4	20
1,2,4-Trimethylbenzene	11		50.0	64.0		ug/L		106	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		50.0	61.2		ug/L		122	60 - 140	18	20
1,2-Dichlorobenzene	ND		50.0	56.3		ug/L		113	60 - 140	5	20
1,2-Dichloroethane	ND		50.0	54.6		ug/L		109	60 - 140	7	20
1,2-Dichloropropane	ND		50.0	55.1		ug/L		110	60 - 140	4	20
1,3,5-Trimethylbenzene	3.2		50.0	57.0		ug/L		108	60 - 140	2	20
1,3-Dichlorobenzene	ND		50.0	55.0		ug/L		110	60 - 140	2	20
1,3-Dichloropropane	ND		50.0	55.4		ug/L		111	60 - 140	6	20
1,4-Dichlorobenzene	ND		50.0	54.9		ug/L		110	60 - 140	3	20
2,2-Dichloropropane	ND		50.0	55.4		ug/L		111	60 - 140	1	20
2-Chlorotoluene	ND		50.0	52.0		ug/L		104	60 - 140	3	20
2-Hexanone	ND		250	240		ug/L		96	60 - 140	12	20
4-Chlorotoluene	ND		50.0	52.3		ug/L		105	60 - 140	2	20
4-Isopropyltoluene	ND		50.0	53.7		ug/L		107	60 - 140	1	20
Acetone	ND		250	236		ug/L		94	60 - 140	9	20
Benzene	79		50.0	123		ug/L		89	60 - 140	0	20
Bromobenzene	ND		50.0	55.7		ug/L		111	60 - 140	6	20
Bromoform	ND		50.0	59.5		ug/L		119	56 - 140	9	20
Bromomethane	ND		50.0	64.4		ug/L		129	23 - 140	6	20
Carbon disulfide	ND		50.0	53.9		ug/L		108	38 - 140	0	20
Carbon tetrachloride	ND		50.0	57.8		ug/L		116	60 - 140	0	20
Chlorobenzene	ND		50.0	52.8		ug/L		106	60 - 140	2	20
Chlorobromomethane	ND		50.0	61.0		ug/L		122	60 - 140	5	20
Chloroethane	ND		50.0	60.7		ug/L		121	51 - 140	5	20
Chloroform	ND		50.0	56.4		ug/L		113	60 - 140	2	20
Chloromethane	ND		50.0	48.6		ug/L		97	52 - 140	6	20
cis-1,2-Dichloroethene	ND		50.0	54.3		ug/L		109	60 - 140	3	20
cis-1,3-Dichloropropene	ND		50.0	57.4		ug/L		115	60 - 140	3	20
Chlorodibromomethane	ND		50.0	64.0		ug/L		128	60 - 140	5	20
Dibromomethane	ND		50.0	56.2		ug/L		112	60 - 140	8	20
Dichlorobromomethane	ND		50.0	57.9		ug/L		116	60 - 140	2	20
Dichlorodifluoromethane	ND		50.0	54.4		ug/L		109	38 - 140	0	20
Ethylbenzene	24		50.0	72.8		ug/L		97	60 - 140	0	20
Hexachlorobutadiene	ND		50.0	61.1		ug/L		122	60 - 140	3	20
Isopropylbenzene	16		50.0	68.3		ug/L		104	60 - 140	1	20
m-Xylene & p-Xylene	28		50.0	77.7		ug/L		99	60 - 140	0	20
Methylene Chloride	ND		50.0	52.2		ug/L		104	40 - 140	3	20
Methyl tert-butyl ether	110		50.0	172		ug/L		124	60 - 138	8	20
Naphthalene	8.0		50.0	65.4		ug/L		115	56 - 140	14	20
n-Butylbenzene	3.5		50.0	56.2		ug/L		105	60 - 140	2	20
N-Propylbenzene	29		50.0	70.1		ug/L		82	60 - 140	1	20
o-Xylene	8.8		50.0	61.8		ug/L		106	60 - 140	0	20
sec-Butylbenzene	3.1		50.0	53.3		ug/L		101	60 - 140	1	20
Styrene	ND		50.0	51.5		ug/L		103	60 - 140	1	20
tert-Butylbenzene	ND		50.0	53.6		ug/L		107	60 - 140	2	20
Tetrachloroethene	ND		50.0	58.8		ug/L		118	60 - 140	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90324-B-3 MSD
Matrix: Water
Analysis Batch: 257218

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	5.6		50.0	56.1		ug/L		101	60 - 140	2	20
trans-1,2-Dichloroethene	ND		50.0	54.1		ug/L		108	60 - 140	2	20
trans-1,3-Dichloropropene	ND		50.0	56.5		ug/L		113	60 - 140	5	20
Trichloroethene	ND		50.0	58.7		ug/L		117	60 - 140	2	20
Trichlorofluoromethane	ND		50.0	53.9		ug/L		108	60 - 140	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	59.1		ug/L		118	60 - 140	0	20
Vinyl acetate	ND		50.0	53.1		ug/L		92	40 - 140	7	20
Vinyl chloride	ND		50.0	55.6		ug/L		111	58 - 140	5	20
Ethylene Dibromide	ND		50.0	57.2		ug/L		114	60 - 140	5	20
2-Butanone (MEK)	ND		250	258		ug/L		103	60 - 140	13	20
4-Methyl-2-pentanone (MIBK)	ND		250	247		ug/L		99	58 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-257452/1-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Bis(2-chloroethyl)ether	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Chlorophenol	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
1,3-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
1,4-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzyl alcohol	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
1,2-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Methylphenol	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Methylphenol, 3 & 4	ND		8.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
N-Nitrosodi-n-propylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Hexachloroethane	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Nitrobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Isophorone	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Nitrophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4-Dimethylphenol	ND		3.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Bis(2-chloroethoxy)methane	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4-Dichlorophenol	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Naphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Chloroaniline	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Hexachlorobutadiene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Chloro-3-methylphenol	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-257452/1-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Hexachlorocyclopentadiene	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4,6-Trichlorophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4,5-Trichlorophenol	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Chloronaphthalene	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Nitroaniline	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
Dimethyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Acenaphthylene	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
3-Nitroaniline	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Acenaphthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4-Dinitrophenol	ND		20		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Nitrophenol	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
Dibenzofuran	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4-Dinitrotoluene	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,6-Dinitrotoluene	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Diethyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Chlorophenyl phenyl ether	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Fluorene	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Nitroaniline	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Methyl-4,6-dinitrophenol	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
N-Nitrosodiphenylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Bromophenyl phenyl ether	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Hexachlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Pentachlorophenol	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
Phenanthrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Di-n-butyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Butyl benzyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
3,3'-Dichlorobenzidine	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[a]anthracene	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
Chrysene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Di-n-octyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[b]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[a]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[k]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[g,h,i]perylene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzoic acid	ND		20		ug/L		12/21/18 13:52	12/23/18 18:33	1
Azobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Dibenz(a,h)anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*56*		*11 - 92*	*12/21/18 13:52*	*12/23/18 18:33*	*1*
2-Fluorobiphenyl	*67*		*10 - 101*	*12/21/18 13:52*	*12/23/18 18:33*	*1*
Terphenyl-d14	*84*		*34 - 128*	*12/21/18 13:52*	*12/23/18 18:33*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-257452/1-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257452

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	38		10 - 65	12/21/18 13:52	12/23/18 18:33	1
Phenol-d5	27		10 - 46	12/21/18 13:52	12/23/18 18:33	1
2,4,6-Tribromophenol	75		17 - 115	12/21/18 13:52	12/23/18 18:33	1

Lab Sample ID: LCS 720-257452/2-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	40.0	12.3		ug/L		31	10 - 110
Bis(2-chloroethyl)ether	40.0	31.7		ug/L		79	38 - 110
2-Chlorophenol	40.0	29.7		ug/L		74	37 - 110
1,3-Dichlorobenzene	40.0	25.9		ug/L		65	35 - 110
1,4-Dichlorobenzene	40.0	26.7		ug/L		67	36 - 110
Benzyl alcohol	40.0	29.0		ug/L		73	37 - 110
1,2-Dichlorobenzene	40.0	27.0		ug/L		68	36 - 110
2-Methylphenol	40.0	26.2		ug/L		66	34 - 110
Methylphenol, 3 & 4	40.0	23.9		ug/L		60	31 - 110
N-Nitrosodi-n-propylamine	40.0	33.1		ug/L		83	42 - 110
Hexachloroethane	40.0	26.3		ug/L		66	34 - 110
Nitrobenzene	40.0	29.7		ug/L		74	41 - 110
Isophorone	40.0	32.6		ug/L		82	47 - 110
2-Nitrophenol	40.0	31.2		ug/L		78	40 - 100
2,4-Dimethylphenol	40.0	31.7		ug/L		79	42 - 110
Bis(2-chloroethoxy)methane	40.0	32.5		ug/L		81	41 - 110
2,4-Dichlorophenol	40.0	30.4		ug/L		76	44 - 110
1,2,4-Trichlorobenzene	40.0	27.7		ug/L		69	40 - 110
Naphthalene	40.0	29.1		ug/L		73	41 - 110
4-Chloroaniline	40.0	31.0		ug/L		78	41 - 110
Hexachlorobutadiene	40.0	27.2		ug/L		68	40 - 110
4-Chloro-3-methylphenol	40.0	33.3		ug/L		83	50 - 110
2-Methylnaphthalene	40.0	29.4		ug/L		74	44 - 110
Hexachlorocyclopentadiene	40.0	21.7		ug/L		54	10 - 110
2,4,6-Trichlorophenol	40.0	31.6		ug/L		79	50 - 100
2,4,5-Trichlorophenol	40.0	32.4		ug/L		81	53 - 101
2-Chloronaphthalene	40.0	29.4		ug/L		73	46 - 110
2-Nitroaniline	40.0	33.9		ug/L		85	55 - 105
Dimethyl phthalate	40.0	37.5		ug/L		94	61 - 101
Acenaphthylene	40.0	31.0		ug/L		77	47 - 110
3-Nitroaniline	40.0	32.8		ug/L		82	56 - 110
Acenaphthene	40.0	30.5		ug/L		76	47 - 103
2,4-Dinitrophenol	80.0	79.1		ug/L		99	23 - 128
4-Nitrophenol	80.0	35.4		ug/L		44	15 - 110
Dibenzofuran	40.0	31.7		ug/L		79	51 - 110
2,4-Dinitrotoluene	40.0	37.3		ug/L		93	64 - 104
2,6-Dinitrotoluene	40.0	32.5		ug/L		81	57 - 102
Diethyl phthalate	40.0	37.7		ug/L		94	65 - 105
4-Chlorophenyl phenyl ether	40.0	31.1		ug/L		78	56 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-257452/2-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	40.0	32.5		ug/L		81	54 - 100
4-Nitroaniline	40.0	36.9		ug/L		92	57 - 105
2-Methyl-4,6-dinitrophenol	80.0	75.5		ug/L		94	42 - 121
N-Nitrosodiphenylamine	40.0	33.7		ug/L		84	60 - 100
4-Bromophenyl phenyl ether	40.0	32.7		ug/L		82	58 - 110
Hexachlorobenzene	40.0	33.2		ug/L		83	60 - 100
Pentachlorophenol	80.0	75.9		ug/L		95	54 - 105
Phenanthrene	40.0	33.5		ug/L		84	62 - 102
Anthracene	40.0	33.9		ug/L		85	63 - 103
Di-n-butyl phthalate	40.0	39.1		ug/L		98	69 - 109
Fluoranthene	40.0	34.0		ug/L		85	65 - 106
Pyrene	40.0	37.3		ug/L		93	68 - 115
Butyl benzyl phthalate	40.0	40.6		ug/L		101	72 - 115
3,3'-Dichlorobenzidine	40.0	31.5		ug/L		79	59 - 110
Benzo[a]anthracene	40.0	35.9		ug/L		90	67 - 107
Bis(2-ethylhexyl) phthalate	40.0	40.3		ug/L		101	72 - 115
Chrysene	40.0	35.5		ug/L		89	67 - 107
Di-n-octyl phthalate	40.0	37.7		ug/L		94	70 - 115
Benzo[b]fluoranthene	40.0	37.6		ug/L		94	68 - 115
Benzo[a]pyrene	40.0	34.9		ug/L		87	67 - 107
Benzo[k]fluoranthene	40.0	34.3		ug/L		86	67 - 109
Indeno[1,2,3-cd]pyrene	40.0	36.2		ug/L		90	66 - 111
Benzo[g,h,i]perylene	40.0	35.8		ug/L		89	63 - 115
Benzoic acid	40.0	14.6	J	ug/L		37	10 - 110
Azobenzene	40.0	31.5		ug/L		79	55 - 101
Dibenz(a,h)anthracene	40.0	36.7		ug/L		92	67 - 111

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*66*		*11 - 92*
2-Fluorobiphenyl	*75*		*10 - 101*
Terphenyl-d14	*95*		*34 - 128*
2-Fluorophenol	*41*		*10 - 65*
Phenol-d5	*29*		*10 - 46*
2,4,6-Tribromophenol	*92*		*17 - 115*

Lab Sample ID: LCSD 720-257452/3-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257452

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	40.0	12.7		ug/L		32	10 - 110	3	35
Bis(2-chloroethyl)ether	40.0	31.3		ug/L		78	38 - 110	1	35
2-Chlorophenol	40.0	30.4		ug/L		76	37 - 110	2	35
1,3-Dichlorobenzene	40.0	29.3		ug/L		73	35 - 110	12	35
1,4-Dichlorobenzene	40.0	28.8		ug/L		72	36 - 110	8	35
Benzyl alcohol	40.0	30.2		ug/L		76	37 - 110	4	35
1,2-Dichlorobenzene	40.0	28.5		ug/L		71	36 - 110	5	35
2-Methylphenol	40.0	27.3		ug/L		68	34 - 110	4	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-257452/3-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257452

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylphenol, 3 & 4			40.0	25.3		ug/L		63	31 - 110	6	35
N-Nitrosodi-n-propylamine			40.0	34.0		ug/L		85	42 - 110	3	35
Hexachloroethane			40.0	27.4		ug/L		68	34 - 110	4	35
Nitrobenzene			40.0	30.4		ug/L		76	41 - 110	3	35
Isophorone			40.0	33.9		ug/L		85	47 - 110	4	35
2-Nitrophenol			40.0	33.0		ug/L		82	40 - 100	6	35
2,4-Dimethylphenol			40.0	33.0		ug/L		82	42 - 110	4	35
Bis(2-chloroethoxy)methane			40.0	33.2		ug/L		83	41 - 110	2	35
2,4-Dichlorophenol			40.0	31.4		ug/L		78	44 - 110	3	35
1,2,4-Trichlorobenzene			40.0	29.4		ug/L		74	40 - 110	6	35
Naphthalene			40.0	30.3		ug/L		76	41 - 110	4	35
4-Chloroaniline			40.0	32.2		ug/L		81	41 - 110	4	35
Hexachlorobutadiene			40.0	29.8		ug/L		74	40 - 110	9	35
4-Chloro-3-methylphenol			40.0	33.9		ug/L		85	50 - 110	2	35
2-Methylnaphthalene			40.0	30.9		ug/L		77	44 - 110	5	35
Hexachlorocyclopentadiene			40.0	25.8		ug/L		65	10 - 110	17	35
2,4,6-Trichlorophenol			40.0	34.6		ug/L		87	50 - 100	9	35
2,4,5-Trichlorophenol			40.0	35.1		ug/L		88	53 - 101	8	35
2-Chloronaphthalene			40.0	32.7		ug/L		82	46 - 110	11	35
2-Nitroaniline			40.0	36.5		ug/L		91	55 - 105	7	35
Dimethyl phthalate			40.0	39.0		ug/L		97	61 - 101	4	35
Acenaphthylene			40.0	33.3		ug/L		83	47 - 110	7	35
3-Nitroaniline			40.0	35.1		ug/L		88	56 - 110	7	35
Acenaphthene			40.0	33.3		ug/L		83	47 - 103	9	35
2,4-Dinitrophenol			80.0	84.1		ug/L		105	23 - 128	6	35
4-Nitrophenol			80.0	35.3		ug/L		44	15 - 110	0	35
Dibenzofuran			40.0	33.1		ug/L		83	51 - 110	4	35
2,4-Dinitrotoluene			40.0	38.4		ug/L		96	64 - 104	3	35
2,6-Dinitrotoluene			40.0	35.1		ug/L		88	57 - 102	8	35
Diethyl phthalate			40.0	39.3		ug/L		98	65 - 105	4	35
4-Chlorophenyl phenyl ether			40.0	33.4		ug/L		83	56 - 110	7	35
Fluorene			40.0	34.7		ug/L		87	54 - 100	7	35
4-Nitroaniline			40.0	38.8		ug/L		97	57 - 105	5	35
2-Methyl-4,6-dinitrophenol			80.0	80.8		ug/L		101	42 - 121	7	35
N-Nitrosodiphenylamine			40.0	35.6		ug/L		89	60 - 100	5	35
4-Bromophenyl phenyl ether			40.0	34.1		ug/L		85	58 - 110	4	35
Hexachlorobenzene			40.0	34.1		ug/L		85	60 - 100	3	35
Pentachlorophenol			80.0	80.9		ug/L		101	54 - 105	6	35
Phenanthrene			40.0	35.0		ug/L		88	62 - 102	4	35
Anthracene			40.0	35.6		ug/L		89	63 - 103	5	35
Di-n-butyl phthalate			40.0	39.7		ug/L		99	69 - 109	2	35
Fluoranthene			40.0	36.3		ug/L		91	65 - 106	6	35
Pyrene			40.0	38.8		ug/L		97	68 - 115	4	35
Butyl benzyl phthalate			40.0	40.2		ug/L		101	72 - 115	1	35
3,3'-Dichlorobenzidine			40.0	34.0		ug/L		85	59 - 110	8	35
Benzo[a]anthracene			40.0	36.8		ug/L		92	67 - 107	2	35
Bis(2-ethylhexyl) phthalate			40.0	40.2		ug/L		100	72 - 115	0	35
Chrysene			40.0	36.1		ug/L		90	67 - 107	2	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-257452/3-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257452

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-octyl phthalate			40.0	37.7		ug/L		94	70 - 115	0	35
Benzo[b]fluoranthene			40.0	38.9		ug/L		97	68 - 115	3	35
Benzo[a]pyrene			40.0	36.8		ug/L		92	67 - 107	5	35
Benzo[k]fluoranthene			40.0	35.6		ug/L		89	67 - 109	4	35
Indeno[1,2,3-cd]pyrene			40.0	37.6		ug/L		94	66 - 111	4	35
Benzo[g,h,i]perylene			40.0	36.9		ug/L		92	63 - 115	3	35
Benzoic acid			40.0	12.3	J	ug/L		31	10 - 110	17	35
Azobenzene			40.0	33.1		ug/L		83	55 - 101	5	35
Dibenz(a,h)anthracene			40.0	38.2		ug/L		95	67 - 111	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*69*		*11 - 92*
2-Fluorobiphenyl	*81*		*10 - 101*
Terphenyl-d14	*97*		*34 - 128*
2-Fluorophenol	*41*		*10 - 65*
Phenol-d5	*30*		*10 - 46*
2,4,6-Tribromophenol	*97*		*17 - 115*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-257384/1-A
Matrix: Water
Analysis Batch: 257411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		12/20/18 16:30	12/21/18 10:53	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		12/20/18 16:30	12/21/18 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*85*		*23 - 156*	*12/20/18 16:30*	*12/21/18 10:53*	*1*

Lab Sample ID: LCS 720-257384/2-A
Matrix: Water
Analysis Batch: 257411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257384

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			2500	2060		ug/L		82	34 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*100*		*23 - 156*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-257384/3-A
Matrix: Water
Analysis Batch: 257411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257384

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	2190		ug/L		88	34 - 115	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*100*		*23 - 156*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257462/1-A
Matrix: Water
Analysis Batch: 257567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/24/18 16:18	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/24/18 16:18	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 16:18	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/24/18 16:18	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 16:18	1
Cobalt	ND		0.0020		mg/L		12/21/18 15:26	12/24/18 16:18	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/24/18 16:18	1
Lead	ND		0.0050		mg/L		12/21/18 15:26	12/24/18 16:18	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/24/18 16:18	1
Nickel	ND		0.010		mg/L		12/21/18 15:26	12/24/18 16:18	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/24/18 16:18	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 16:18	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/24/18 16:18	1
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/24/18 16:18	1

Lab Sample ID: MB 720-257462/1-A
Matrix: Water
Analysis Batch: 257607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/21/18 15:26	12/26/18 10:20	1
Arsenic	ND		0.010		mg/L		12/21/18 15:26	12/26/18 10:20	1
Barium	ND		0.010		mg/L		12/21/18 15:26	12/26/18 10:20	1
Beryllium	ND		0.0020		mg/L		12/21/18 15:26	12/26/18 10:20	1
Cadmium	ND		0.0025		mg/L		12/21/18 15:26	12/26/18 10:20	1
Chromium	ND		0.010		mg/L		12/21/18 15:26	12/26/18 10:20	1
Cobalt	ND		0.0020		mg/L		12/21/18 15:26	12/26/18 10:20	1
Copper	ND		0.020		mg/L		12/21/18 15:26	12/26/18 10:20	1
Lead	ND		0.0050		mg/L		12/21/18 15:26	12/26/18 10:20	1
Molybdenum	ND		0.010		mg/L		12/21/18 15:26	12/26/18 10:20	1
Nickel	ND		0.010		mg/L		12/21/18 15:26	12/26/18 10:20	1
Selenium	ND		0.020		mg/L		12/21/18 15:26	12/26/18 10:20	1
Silver	ND		0.0050		mg/L		12/21/18 15:26	12/26/18 10:20	1
Thallium	ND		0.010		mg/L		12/21/18 15:26	12/26/18 10:20	1
Vanadium	ND		0.010		mg/L		12/21/18 15:26	12/26/18 10:20	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257462/1-A
Matrix: Water
Analysis Batch: 257607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.020		mg/L		12/21/18 15:26	12/26/18 10:20	1

Lab Sample ID: LCS 720-257462/2-A
Matrix: Water
Analysis Batch: 257567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	0.963		mg/L		96	80 - 120
Arsenic	1.00	0.985		mg/L		98	80 - 120
Beryllium	1.00	0.966		mg/L		97	80 - 120
Cadmium	1.00	0.974		mg/L		97	80 - 120
Chromium	1.00	0.957		mg/L		96	80 - 120
Cobalt	1.00	1.03		mg/L		103	80 - 120
Copper	1.00	0.942		mg/L		94	80 - 120
Lead	1.00	0.995		mg/L		100	80 - 120
Molybdenum	1.00	1.01		mg/L		101	80 - 120
Nickel	1.00	0.965		mg/L		96	80 - 120
Selenium	1.00	0.953		mg/L		95	80 - 120
Thallium	1.00	0.988		mg/L		99	80 - 120
Vanadium	1.00	0.975		mg/L		98	80 - 120
Zinc	1.00	0.884		mg/L		88	80 - 120

Lab Sample ID: LCS 720-257462/2-A
Matrix: Water
Analysis Batch: 257607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	0.976		mg/L		98	80 - 120
Arsenic	1.00	0.995		mg/L		99	80 - 120
Barium	1.00	0.930		mg/L		93	80 - 120
Beryllium	1.00	0.975		mg/L		97	80 - 120
Cadmium	1.00	0.990		mg/L		99	80 - 120
Chromium	1.00	1.00		mg/L		100	80 - 120
Cobalt	1.00	1.03		mg/L		103	80 - 120
Copper	1.00	0.965		mg/L		96	80 - 120
Lead	1.00	1.01		mg/L		101	80 - 120
Molybdenum	1.00	1.02		mg/L		102	80 - 120
Nickel	1.00	0.994		mg/L		99	80 - 120
Selenium	1.00	0.958		mg/L		96	80 - 120
Silver	0.500	0.448		mg/L		90	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120
Vanadium	1.00	0.986		mg/L		99	80 - 120
Zinc	1.00	0.943		mg/L		94	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90488-J-1-A MS
Matrix: Water
Analysis Batch: 257567

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	0.961		mg/L		96	75 - 125
Arsenic	ND		1.00	0.994		mg/L		99	75 - 125
Beryllium	ND		1.00	0.958		mg/L		96	75 - 125
Cadmium	ND		1.00	0.956		mg/L		95	75 - 125
Chromium	ND		1.00	0.946		mg/L		94	75 - 125
Cobalt	0.0047		1.00	1.01		mg/L		100	75 - 125
Copper	ND		1.00	0.942		mg/L		94	75 - 125
Lead	0.0057		1.00	0.968		mg/L		96	75 - 125
Molybdenum	0.018		1.00	1.01		mg/L		99	75 - 125
Nickel	0.017		1.00	0.961		mg/L		94	75 - 125
Selenium	ND		1.00	0.954		mg/L		95	75 - 125
Thallium	ND		1.00	0.947		mg/L		95	75 - 125
Vanadium	0.023		1.00	0.982		mg/L		96	75 - 125
Zinc	ND		1.00	0.896		mg/L		88	75 - 125

Lab Sample ID: 720-90488-J-1-A MS
Matrix: Water
Analysis Batch: 257607

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	1.00		mg/L		100	75 - 125
Arsenic	0.011		1.00	1.05		mg/L		104	75 - 125
Barium	0.027		1.00	0.923		mg/L		90	75 - 125
Beryllium	ND		1.00	0.984		mg/L		98	75 - 125
Cadmium	ND		1.00	0.997		mg/L		100	75 - 125
Chromium	ND		1.00	1.00		mg/L		100	75 - 125
Cobalt	0.0049		1.00	1.06		mg/L		105	75 - 125
Copper	ND		1.00	0.981		mg/L		98	75 - 125
Lead	0.0061		1.00	1.02		mg/L		101	75 - 125
Molybdenum	0.018		1.00	1.06		mg/L		105	75 - 125
Nickel	0.018		1.00	1.01		mg/L		99	75 - 125
Selenium	ND		1.00	0.992		mg/L		99	75 - 125
Silver	ND		0.500	0.442		mg/L		88	75 - 125
Thallium	ND		1.00	1.00		mg/L		100	75 - 125
Vanadium	0.024		1.00	1.03		mg/L		101	75 - 125
Zinc	ND		1.00	0.946		mg/L		93	75 - 125

Lab Sample ID: 720-90488-J-1-B MSD
Matrix: Water
Analysis Batch: 257567

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1.00	0.988		mg/L		99	75 - 125	3	20
Arsenic	ND		1.00	1.03		mg/L		102	75 - 125	4	20
Beryllium	ND		1.00	0.980		mg/L		98	75 - 125	2	20
Cadmium	ND		1.00	0.982		mg/L		98	75 - 125	3	20
Chromium	ND		1.00	0.975		mg/L		97	75 - 125	3	20
Cobalt	0.0047		1.00	1.04		mg/L		104	75 - 125	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90488-J-1-B MSD
Matrix: Water
Analysis Batch: 257567

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	ND		1.00	0.961		mg/L		96	75 - 125	2	20
Lead	0.0057		1.00	0.995		mg/L		99	75 - 125	3	20
Molybdenum	0.018		1.00	1.04		mg/L		102	75 - 125	3	20
Nickel	0.017		1.00	0.985		mg/L		97	75 - 125	2	20
Selenium	ND		1.00	0.982		mg/L		98	75 - 125	3	20
Thallium	ND		1.00	0.980		mg/L		98	75 - 125	3	20
Vanadium	0.023		1.00	1.01		mg/L		99	75 - 125	3	20
Zinc	ND		1.00	0.909		mg/L		89	75 - 125	1	20

Lab Sample ID: 720-90488-J-1-B MSD
Matrix: Water
Analysis Batch: 257607

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1.00	0.992		mg/L		99	75 - 125	1	20
Arsenic	0.011		1.00	1.03		mg/L		102	75 - 125	2	20
Barium	0.027		1.00	0.935		mg/L		91	75 - 125	1	20
Beryllium	ND		1.00	0.978		mg/L		98	75 - 125	1	20
Cadmium	ND		1.00	0.988		mg/L		99	75 - 125	1	20
Chromium	ND		1.00	0.993		mg/L		99	75 - 125	1	20
Cobalt	0.0049		1.00	1.04		mg/L		103	75 - 125	2	20
Copper	ND		1.00	0.980		mg/L		98	75 - 125	0	20
Lead	0.0061		1.00	1.00		mg/L		99	75 - 125	2	20
Molybdenum	0.018		1.00	1.04		mg/L		102	75 - 125	2	20
Nickel	0.018		1.00	1.00		mg/L		99	75 - 125	1	20
Selenium	ND		1.00	0.975		mg/L		97	75 - 125	2	20
Silver	ND		0.500	0.443		mg/L		89	75 - 125	0	20
Thallium	ND		1.00	0.989		mg/L		99	75 - 125	1	20
Vanadium	0.024		1.00	1.01		mg/L		98	75 - 125	2	20
Zinc	ND		1.00	0.953		mg/L		94	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-257578/1-A
Matrix: Water
Analysis Batch: 257676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/26/18 21:00	12/27/18 11:09	1

Lab Sample ID: LCS 720-257578/2-A
Matrix: Water
Analysis Batch: 257676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257578

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.0100	0.00906		mg/L		91	85 - 115		

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90402-A-1-F MS
Matrix: Water
Analysis Batch: 257676

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.0100	0.00940		mg/L		94	75 - 125

Lab Sample ID: 720-90402-A-1-G MSD
Matrix: Water
Analysis Batch: 257676

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.0100	0.00963		mg/L		96	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-257212/9
Matrix: Water
Analysis Batch: 257212

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/18/18 21:54	1

Lab Sample ID: LCS 720-257212/10
Matrix: Water
Analysis Batch: 257212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.250	0.254		mg/L		101	90 - 110

Lab Sample ID: LCSD 720-257212/11
Matrix: Water
Analysis Batch: 257212

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	0.250	0.254		mg/L		102	90 - 110	0	20

Lab Sample ID: 720-90411-6 MS
Matrix: Water
Analysis Batch: 257212

Client Sample ID: MW-11AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		0.250	0.259		mg/L		103	85 - 115

Lab Sample ID: 720-90411-6 MSD
Matrix: Water
Analysis Batch: 257212

Client Sample ID: MW-11AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		0.250	0.260		mg/L		104	85 - 115	0	20

GC/MS VOA

Analysis Batch: 257216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-7	MW-13A	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-8	MW-15A	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-9	MW-17A	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-10	DUP-1	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-11	DUP-2	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-257216/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-257216/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-257216/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-257216/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-257216/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-90322-B-3 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
720-90322-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 257218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-2	LF-3A	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-3	LF-4A	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-4	MK-2A	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-5	MW-9A	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-6	MW-11AR	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-12	FB-1	Total/NA	Water	8260B/CA_LUFT MS	
720-90411-13	TB-1	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-257218/8	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-257218/4	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-257218/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-257218/5	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-257218/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-90324-B-3 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
720-90324-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 257452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	3510C	
720-90411-2	LF-3A	Total/NA	Water	3510C	
720-90411-3	LF-4A	Total/NA	Water	3510C	
720-90411-4	MK-2A	Total/NA	Water	3510C	
720-90411-5	MW-9A	Total/NA	Water	3510C	
720-90411-6	MW-11AR	Total/NA	Water	3510C	
720-90411-7	MW-13A	Total/NA	Water	3510C	
720-90411-8	MW-15A	Total/NA	Water	3510C	
720-90411-9	MW-17A	Total/NA	Water	3510C	
720-90411-10	DUP-1	Total/NA	Water	3510C	
720-90411-11	DUP-2	Total/NA	Water	3510C	
MB 720-257452/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-257452/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-257452/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 257503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	8270C	257452
720-90411-2	LF-3A	Total/NA	Water	8270C	257452
720-90411-3	LF-4A	Total/NA	Water	8270C	257452
720-90411-4	MK-2A	Total/NA	Water	8270C	257452
720-90411-5	MW-9A	Total/NA	Water	8270C	257452
720-90411-6	MW-11AR	Total/NA	Water	8270C	257452
720-90411-7	MW-13A	Total/NA	Water	8270C	257452
720-90411-8	MW-15A	Total/NA	Water	8270C	257452
720-90411-9	MW-17A	Total/NA	Water	8270C	257452
720-90411-10	DUP-1	Total/NA	Water	8270C	257452
720-90411-11	DUP-2	Total/NA	Water	8270C	257452
MB 720-257452/1-A	Method Blank	Total/NA	Water	8270C	257452
LCS 720-257452/2-A	Lab Control Sample	Total/NA	Water	8270C	257452
LCSD 720-257452/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	257452

GC Semi VOA

Prep Batch: 257384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	3510C	
720-90411-2	LF-3A	Total/NA	Water	3510C	
720-90411-3	LF-4A	Total/NA	Water	3510C	
720-90411-4	MK-2A	Total/NA	Water	3510C	
720-90411-5	MW-9A	Total/NA	Water	3510C	
720-90411-6	MW-11AR	Total/NA	Water	3510C	
720-90411-7	MW-13A	Total/NA	Water	3510C	
720-90411-8	MW-15A	Total/NA	Water	3510C	
720-90411-9	MW-17A	Total/NA	Water	3510C	
720-90411-10	DUP-1	Total/NA	Water	3510C	
720-90411-11	DUP-2	Total/NA	Water	3510C	
MB 720-257384/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-257384/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-257384/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Analysis Batch: 257410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	8015B	257384
720-90411-2	LF-3A	Total/NA	Water	8015B	257384
720-90411-3	LF-4A	Total/NA	Water	8015B	257384
720-90411-4	MK-2A	Total/NA	Water	8015B	257384
720-90411-5	MW-9A	Total/NA	Water	8015B	257384
720-90411-6	MW-11AR	Total/NA	Water	8015B	257384
720-90411-7	MW-13A	Total/NA	Water	8015B	257384
720-90411-8	MW-15A	Total/NA	Water	8015B	257384
720-90411-9	MW-17A	Total/NA	Water	8015B	257384
720-90411-10	DUP-1	Total/NA	Water	8015B	257384
720-90411-11	DUP-2	Total/NA	Water	8015B	257384

Analysis Batch: 257411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257384/1-A	Method Blank	Total/NA	Water	8015B	257384
LCS 720-257384/2-A	Lab Control Sample	Total/NA	Water	8015B	257384
LCSD 720-257384/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	257384

Metals

Prep Batch: 257462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	3010A	
720-90411-2	LF-3A	Total/NA	Water	3010A	
720-90411-3	LF-4A	Total/NA	Water	3010A	
720-90411-4	MK-2A	Total/NA	Water	3010A	
720-90411-5	MW-9A	Total/NA	Water	3010A	
720-90411-6	MW-11AR	Total/NA	Water	3010A	
720-90411-7	MW-13A	Total/NA	Water	3010A	
720-90411-8	MW-15A	Total/NA	Water	3010A	
720-90411-9	MW-17A	Total/NA	Water	3010A	
720-90411-10	DUP-1	Total/NA	Water	3010A	
720-90411-11	DUP-2	Total/NA	Water	3010A	
MB 720-257462/1-A	Method Blank	Total/NA	Water	3010A	
LCS 720-257462/2-A	Lab Control Sample	Total/NA	Water	3010A	
720-90488-J-1-A MS	Matrix Spike	Total/NA	Water	3010A	
720-90488-J-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 257567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	6010B	257462
720-90411-2	LF-3A	Total/NA	Water	6010B	257462
720-90411-3	LF-4A	Total/NA	Water	6010B	257462
720-90411-4	MK-2A	Total/NA	Water	6010B	257462
720-90411-5	MW-9A	Total/NA	Water	6010B	257462
720-90411-6	MW-11AR	Total/NA	Water	6010B	257462
720-90411-7	MW-13A	Total/NA	Water	6010B	257462
720-90411-8	MW-15A	Total/NA	Water	6010B	257462
720-90411-9	MW-17A	Total/NA	Water	6010B	257462
720-90411-10	DUP-1	Total/NA	Water	6010B	257462

Metals (Continued)

Analysis Batch: 257567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-11	DUP-2	Total/NA	Water	6010B	257462
MB 720-257462/1-A	Method Blank	Total/NA	Water	6010B	257462
LCS 720-257462/2-A	Lab Control Sample	Total/NA	Water	6010B	257462
720-90488-J-1-A MS	Matrix Spike	Total/NA	Water	6010B	257462
720-90488-J-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	257462

Prep Batch: 257578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	7470A	
720-90411-2	LF-3A	Total/NA	Water	7470A	
720-90411-3	LF-4A	Total/NA	Water	7470A	
720-90411-4	MK-2A	Total/NA	Water	7470A	
720-90411-5	MW-9A	Total/NA	Water	7470A	
720-90411-6	MW-11AR	Total/NA	Water	7470A	
720-90411-7	MW-13A	Total/NA	Water	7470A	
720-90411-8	MW-15A	Total/NA	Water	7470A	
720-90411-9	MW-17A	Total/NA	Water	7470A	
720-90411-10	DUP-1	Total/NA	Water	7470A	
720-90411-11	DUP-2	Total/NA	Water	7470A	
MB 720-257578/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-257578/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90402-A-1-F MS	Matrix Spike	Total/NA	Water	7470A	
720-90402-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 257607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	6010B	257462
720-90411-2	LF-3A	Total/NA	Water	6010B	257462
720-90411-4	MK-2A	Total/NA	Water	6010B	257462
MB 720-257462/1-A	Method Blank	Total/NA	Water	6010B	257462
LCS 720-257462/2-A	Lab Control Sample	Total/NA	Water	6010B	257462
720-90488-J-1-A MS	Matrix Spike	Total/NA	Water	6010B	257462
720-90488-J-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	257462

Analysis Batch: 257666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-3	LF-4A	Total/NA	Water	6010B	257462
720-90411-4	MK-2A	Total/NA	Water	6010B	257462
720-90411-5	MW-9A	Total/NA	Water	6010B	257462
720-90411-6	MW-11AR	Total/NA	Water	6010B	257462
720-90411-7	MW-13A	Total/NA	Water	6010B	257462
720-90411-8	MW-15A	Total/NA	Water	6010B	257462
720-90411-9	MW-17A	Total/NA	Water	6010B	257462
720-90411-10	DUP-1	Total/NA	Water	6010B	257462
720-90411-11	DUP-2	Total/NA	Water	6010B	257462

Analysis Batch: 257676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	7470A	257578
720-90411-2	LF-3A	Total/NA	Water	7470A	257578
720-90411-3	LF-4A	Total/NA	Water	7470A	257578

Metals (Continued)

Analysis Batch: 257676 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-4	MK-2A	Total/NA	Water	7470A	257578
720-90411-5	MW-9A	Total/NA	Water	7470A	257578
720-90411-6	MW-11AR	Total/NA	Water	7470A	257578
720-90411-7	MW-13A	Total/NA	Water	7470A	257578
720-90411-8	MW-15A	Total/NA	Water	7470A	257578
720-90411-9	MW-17A	Total/NA	Water	7470A	257578
720-90411-10	DUP-1	Total/NA	Water	7470A	257578
720-90411-11	DUP-2	Total/NA	Water	7470A	257578
MB 720-257578/1-A	Method Blank	Total/NA	Water	7470A	257578
LCS 720-257578/2-A	Lab Control Sample	Total/NA	Water	7470A	257578
720-90402-A-1-F MS	Matrix Spike	Total/NA	Water	7470A	257578
720-90402-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	257578

General Chemistry

Analysis Batch: 257212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90411-1	KMW-4A	Total/NA	Water	7196A	
720-90411-2	LF-3A	Total/NA	Water	7196A	
720-90411-3	LF-4A	Total/NA	Water	7196A	
720-90411-4	MK-2A	Total/NA	Water	7196A	
720-90411-5	MW-9A	Total/NA	Water	7196A	
720-90411-6	MW-11AR	Total/NA	Water	7196A	
720-90411-7	MW-13A	Total/NA	Water	7196A	
720-90411-8	MW-15A	Total/NA	Water	7196A	
720-90411-9	MW-17A	Total/NA	Water	7196A	
720-90411-10	DUP-1	Total/NA	Water	7196A	
720-90411-11	DUP-2	Total/NA	Water	7196A	
MB 720-257212/9	Method Blank	Total/NA	Water	7196A	
LCS 720-257212/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-257212/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90411-6 MS	MW-11AR	Total/NA	Water	7196A	
720-90411-6 MSD	MW-11AR	Total/NA	Water	7196A	

Client Sample ID: KMW-4A

Lab Sample ID: 720-90411-1

Date Collected: 12/18/18 12:01

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257218	12/19/18 14:00	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 19:50	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 10:53	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 17:28	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257607	12/26/18 10:56	MAG	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 11:44	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 22:00	ECB	TAL PLS

Client Sample ID: LF-3A

Lab Sample ID: 720-90411-2

Date Collected: 12/18/18 14:30

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257218	12/19/18 14:29	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 20:16	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 11:17	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 17:33	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257607	12/26/18 11:01	MAG	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 11:46	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 22:00	ECB	TAL PLS

Client Sample ID: LF-4A

Lab Sample ID: 720-90411-3

Date Collected: 12/18/18 14:36

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257218	12/19/18 14:58	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 20:41	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 11:42	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 17:37	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257666	12/27/18 09:07	BKR	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 11:48	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 22:00	ECB	TAL PLS

Client Sample ID: MK-2A

Date Collected: 12/18/18 13:46
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257218	12/19/18 15:27	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 21:07	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 12:06	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 17:42	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257607	12/26/18 11:20	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257666	12/27/18 09:12	BKR	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 11:51	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 22:00	ECB	TAL PLS

Client Sample ID: MW-9A

Date Collected: 12/18/18 15:32
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90411-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257218	12/19/18 15:56	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 21:33	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 12:31	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 17:47	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257666	12/27/18 09:17	BKR	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 11:53	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 22:00	ECB	TAL PLS

Client Sample ID: MW-11AR

Lab Sample ID: 720-90411-6

Date Collected: 12/18/18 12:49

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257218	12/19/18 16:25	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 21:58	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 12:55	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 17:52	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257666	12/27/18 09:22	BKR	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 11:55	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 23:00	ECB	TAL PLS

Client Sample ID: MW-13A

Lab Sample ID: 720-90411-7

Date Collected: 12/18/18 13:35

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257216	12/19/18 15:24	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 22:24	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 13:20	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 17:56	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257666	12/27/18 09:26	BKR	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 11:57	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 23:00	ECB	TAL PLS

Client Sample ID: MW-15A

Lab Sample ID: 720-90411-8

Date Collected: 12/18/18 15:32

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257216	12/19/18 15:53	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 22:50	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 13:44	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 18:11	MAG	TAL PLS

Client Sample ID: MW-15A

Lab Sample ID: 720-90411-8

Date Collected: 12/18/18 15:32

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257666	12/27/18 09:31	BKR	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 12:04	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 23:00	ECB	TAL PLS

Client Sample ID: MW-17A

Lab Sample ID: 720-90411-9

Date Collected: 12/18/18 12:01

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257216	12/19/18 16:21	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 23:15	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 14:08	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 18:15	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257666	12/27/18 09:36	BKR	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 12:07	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 23:00	ECB	TAL PLS

Client Sample ID: DUP-1

Lab Sample ID: 720-90411-10

Date Collected: 12/18/18 12:06

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257216	12/19/18 16:50	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/23/18 23:41	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 14:33	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 18:20	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257666	12/27/18 09:41	BKR	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 12:09	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 23:00	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Client Sample ID: DUP-2

Lab Sample ID: 720-90411-11

Date Collected: 12/18/18 14:40

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257216	12/19/18 17:19	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 13:52	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257503	12/24/18 00:07	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257410	12/21/18 14:57	DCH	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257567	12/24/18 18:25	MAG	TAL PLS
Total/NA	Prep	3010A			257462	12/21/18 15:26	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257666	12/27/18 09:45	BKR	TAL PLS
Total/NA	Prep	7470A			257578	12/26/18 21:00	MAA	TAL PLS
Total/NA	Analysis	7470A		1	257676	12/27/18 12:11	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257212	12/18/18 23:00	ECB	TAL PLS

Client Sample ID: FB-1

Lab Sample ID: 720-90411-12

Date Collected: 12/18/18 12:36

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257218	12/19/18 12:04	A1C	TAL PLS

Client Sample ID: TB-1

Lab Sample ID: 720-90411-13

Date Collected: 12/18/18 10:00

Matrix: Water

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257218	12/19/18 12:33	A1C	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90411-1
Project/Site: Brisbane OU2

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3010A	Preparation, Total Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL PLS
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90411-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90411-1	KMW-4A	Water	12/18/18 12:01	12/18/18 19:10
720-90411-2	LF-3A	Water	12/18/18 14:30	12/18/18 19:10
720-90411-3	LF-4A	Water	12/18/18 14:36	12/18/18 19:10
720-90411-4	MK-2A	Water	12/18/18 13:46	12/18/18 19:10
720-90411-5	MW-9A	Water	12/18/18 15:32	12/18/18 19:10
720-90411-6	MW-11AR	Water	12/18/18 12:49	12/18/18 19:10
720-90411-7	MW-13A	Water	12/18/18 13:35	12/18/18 19:10
720-90411-8	MW-15A	Water	12/18/18 15:32	12/18/18 19:10
720-90411-9	MW-17A	Water	12/18/18 12:01	12/18/18 19:10
720-90411-10	DUP-1	Water	12/18/18 12:06	12/18/18 19:10
720-90411-11	DUP-2	Water	12/18/18 14:40	12/18/18 19:10
720-90411-12	FB-1	Water	12/18/18 12:36	12/18/18 19:10
720-90411-13	TB-1	Water	12/18/18 10:00	12/18/18 19:10

BLAINE
TECH SERVICES, INC

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 181218-JS1

CLIENT Geosyntec Consultants

SITE Brisbane OU2

Brisbane, CA

Client P.O..

CONDUCT ANALYSIS TO DETECT

LAB TA-SF | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION _____

187444

SPECIAL INSTRUCTIONS 720-90411

COC to Geosyntec Consultants Attn: Anthony Smith

after log in: asmith@geosyntec.com

Report to : Geosyntec Consultants
PDF, EDD & EDF Required

SAMPLE I D	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL		VOCs + GRO (8260B)	CAM-17 (6010B, 7471)	Hexavalent Chromium (7196) Short Hold Time	TPH-D/MO (8015B)	SVOCs (8270C)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
KMW-4A	12/18/18	1201	W	9	VARIOUS	X	X	X	X	X				1
LF-3A		1430	W	9		X	X	X	X	X				2
LF-4A		1436	W	9		X	X	X	X	X				3
MW-2A		1346	W	9		X	X	X	X	X				4
MW-9A		1532	W	9		X	X	X	X	X				5
MW-11AR		1249	W	9		X	X	X	X	X				6
MW-13A		1335	W	9		X	X	X	X	X				7
MW-15A		1532	W	9		X	X	X	X	X				8
MW-17A		1201	W	9		X	X	X	X	X				9
DUP-1		1206	W	9		X	X	X	X	X				10

SAMPLING COMPLETED	DATE	TIME
	12/18/18	1550

SAMPLING PERFORMED BY Jeff Stuckey, Tyler Ramey, Tia Neal, Brad Spano

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	12/19/18	1600	TA PCS	12/18/18	1600
TA PCS	12/18/18	1810		12/18/18	19:10

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
			0.4 0.6, 1.0, 1.5 °C

720-90411 Chain of Custody

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12/31/2018

Page 1 of 2

BLAINE
TECH SERVICES, INC

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 181218-JS1

CLIENT: Geosyntec Consultants

SITE: Brisbane OU2

Brisbane, CA

Client P.O.:

CONDUCT ANALYSIS TO DETECT

LAB: TA-SF DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION

187444

SPECIAL INSTRUCTIONS 720-90411

COC to Geosyntec Consultants Attn: Anthony Smith

after log in: asmith@geosyntec.com

Report to : Geosyntec Consultants
PDF, EDD & EDF Required

SAMPLE I D	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL		VOCs + GRO (8260B)	CAM-17 (6010B, 7471)	Hexavalent Chromium (7196) Short Hold Time	TPH-D/MO (8015B)	SVOCs (8270C)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
DUP-2	12/18/18	1440	W	9	VARIOUS	X	X	X	X	X				11
FB-1	"	1230	W	3	HCl VOA	X								12
TB-1	"	1000	W	2	HCl VOA	X								13

SAMPLING COMPLETED: DATE 12/18/18 TIME 1550

SAMPLING PERFORMED BY: Jeff Stemberg Tim Nesbit Brad Spence Tyler Romey

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	12/18/18	1600	TAPLS	12/18/18	1600
TAPLS	12/18/18	1910	TAPLS	12/18/18	1910

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

12/31/2018

Page 2 of 2

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90411-1

Login Number: 90411
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90412-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/8/2019 6:02:32 PM

Urvashi Patel, Manager of Project Management
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90412-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90412-1

Comments
See client email in Correspondences to address the descrepancies listed below from Receipt exceptions.

Receipt
The samples were received on 12/18/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.2º C, 1.8º C, 2.8º C, 2.9º C, 3.9º C, 4.3º C and 5.0º C.

Receipt Exceptions

Sampler name not indicated on COC.
A majority of the 8oz soil jars were not filled completely and there were rocks in some of the jars.

The following samples did not match the information listed on the Chain-of-Custody (COC):
• (#21 DG-AA3S-7-7.5. Received only 1x4oz jar in Pleasanton whereas teh COC lists 7 containers. Logged on HOLD.

• (#23) DG-AH4S-6-6.5. Received only 2x4oz jar, while the COC lists # containers (2). Logged only one 4 oz on this submission for PAH-SIM and DRO/MO. This sample is repeated on another 4 pg COC sample (#17) received today for CAM 17 Metals.

• (#2) DG-P1S-3.5-4.0 and (#3) DUP-02. Only logged for VOC+GAS; only received Terra cores.

• (#24) DG-AH4S-4-4.5. Received 2x4oz jar in Pleasanton , and also 4-Terra Cores in Irvine, while the COC lists # containers (2).

GC/MS VOA
Method 8260B/CA_LUFTMS: Surrogate recovery for Dibromofluoromethane the following sample were outside the upper control limits: DG-N1S-0.5-1 (720-90412-4) and DG-Q3S-0.5-1 (720-90412-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B/CA_LUFTMS: Surrogate recovery for Dibromofluoromethane and 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-O3S-3.5-4 (720-90412-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-N1S-3.5-4 (720-90412-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B/CA_LUFTMS: Surrogate recovery for the following samples were outside control limits: (440-228365-A-1), (440-228365-A-1 MS) and (440-228365-A-1 MSD). Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

Method 8260B/CA_LUFTMS: Surrogate 4-Bromofluorobenzene (123%=79-120) and Dibromofluoromethane (126%=60-120) recovery for the following sample was outside control limits: DG-S3S-3.5-4 (720-90412-11). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method 8260B/CA_LUFTMS: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 (28.50%=50-200), Chlorobenzene-d5 (32.16%=50-200), and Fluorobenzene (36.01%=50-200) response for the following sample was outside control limits: DG-S3S-3.5-4 (720-90412-11). The sample(s) was re-extracted and/or re-analyzed with concurring results.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518870 recovered above the upper control limit for

Job ID: 720-90412-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Toluene, Chloroform, 1,1-Dichloroethene, trans-1,2-Dichloroethene and Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518651 recovered above the upper control limit for Vinyl chloride and 1,1-Dichloroethene . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-518870 recovered outside control limits for the following analyte: Bromobenzene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-518651 recovered outside control limits for the following analyte: Tetrachloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518913 and analytical batch 440-518870 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: The matrix spike duplicate (MSD) recovery for preparation batch 440-518913 and analytical batch 440-518870 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: Surrogate recovery for Dibromofluoromethane.for the following sample were outside the upper control limits: DG-N1S-0.5-1 (720-90412-4) and DG-Q3S-0.5-1 (720-90412-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed

Method 8260B: Surrogate recovery for 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-N1S-3.5-4 (720-90412-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed

Method 8260B: Surrogate recovery for Dibromofluoromethane and 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-O3S-3.5-4 (720-90412-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed

Method 8260B: Surrogate recovery for 4-Bromofluorobenzene for the following sample was outside the upper control limit: (720-90388-B-2-C). Re-analysis were performed with concurring results. Matrix interference was confirmed. The original analysis has been reported

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518646 recovered above the upper control limit for 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-U3S-0.5-1 (720-90412-12), DG-U3S-3.5-4 (720-90412-13), DUP-15 (720-90412-14), DG-W3S-0.5-1 (720-90412-15), DG-W3S-3.5-4 (720-90412-16), DG-Y3S-0.5-1 (720-90412-17), DG-Y3S-3.5-4 (720-90412-18), DG-AA3S-0.5-1 (720-90412-19), DG-AA3S-3.5-4 (720-90412-20), DG-AA3S-7-7.5 (720-90412-21), DUP-16 (720-90412-22) and (CCVIS 440-518646/2).

Method 8260B: Surrogate recovery for 1,2-Dichloroethane-d4 for the following samples was outside the upper control limit: DG-P1S-0.5-1 (720-90412-1), DG-N1S-3.5-4 (720-90412-5), DG-O3S-3.5-4 (720-90412-7), DG-Q3S-0.5-1 (720-90412-8) and (720-90388-B-2-C). These samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 720-90412-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 8260B: Surrogate 4-Bromofluorobenzene (123%=79-120) and Dibromofluoromethane (126%=60-120) recovery for the following sample was outside control limits: DG-S3S-3.5-4 (720-90412-11). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method 8260B: Internal standard (ISTD)1,4-Dichlorobenzene-d4 (36.88%=50-200), Chlorobenzene-d5 (41.91%=50-200), and Fluorobenzene (47.19%=50-200) response for the following sample was outside control limits: DG-S3S-3.5-4 (720-90412-11). The sample(s) was re-extracted and/or re-analyzed with concurring results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C SIM: The method blank for preparation batch 720-257530 and analytical batch 720-257593 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-257381 and analytical batch 720-257669 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-257608 and analytical batch 720-257703 contained Benzo[b]fluoranthene and 2-Methylnaphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257608 and analytical batch 720-257703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257381 and analytical batch 720-257766 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-N1S-0.5-1 (720-90412-4), DG-S3S-3.5-4 (720-90412-11), DG-U3S-0.5-1 (720-90412-12), DUP-15 (720-90412-14), DG-W3S-0.5-1 (720-90412-15), DG-Y3S-0.5-1 (720-90412-17), DG-AA3S-0.5-1 (720-90412-19) and DUP-16 (720-90412-22). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-AH4S-4-4.5 (720-90412-24). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-AH4S-4-4.5 (720-90412-24). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-S3S-3.5-4 (720-90412-11) and DUP-15 (720-90412-14). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The method blank for preparation batches 720-257342 and 720-257349 and analytical batch 720-257324 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: (720-90388-E-6-I), (720-90388-E-6-G

Job ID: 720-90412-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

MS) and (720-90388-E-6-H MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-Y3S-0.5-1 (720-90412-17) and DG-AH4S-4-4.5 (720-90412-24). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: Surrogate recovery for the following samples were outside control limits: DG-O3S-3.5-4 (720-90412-7), (720-90388-E-6-F) and (720-90388-E-6-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257336 and analytical batch 720-257557 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 8081A: The %RPD between the primary and confirmation column / detector exceeded 40% for cis-Chlordane for the following sample: DG-N1S-0.5-1 (720-90412-4). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The continuing calibration verification (CCV) associated with batch 720-257557 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-O3S-3.5-4 (720-90412-7), (MB 720-257336/1-A) and (720-90388-E-6-F).

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT for the following sample: DG-U3S-0.5-1 (720-90412-12). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257270 and analytical batch 720-257644 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-N1S-0.5-1 (720-90412-4), DG-N1S-3.5-4 (720-90412-5), DG-O3S-0.5-1 (720-90412-6), DG-O3S-3.5-4 (720-90412-7), DG-Q3S-0.5-1 (720-90412-8), DG-Q3S-3.5-4 (720-90412-9), DG-S3S-0.5-1 (720-90412-10), DG-S3S-3.5-4 (720-90412-11), DG-U3S-0.5-1 (720-90412-12), DG-U3S-3.5-4 (720-90412-13), DUP-15 (720-90412-14), DG-W3S-0.5-1 (720-90412-15), DG-W3S-3.5-4 (720-90412-16), DG-Y3S-0.5-1 (720-90412-17), DG-Y3S-3.5-4 (720-90412-18), DG-AA3S-0.5-1 (720-90412-19) and (720-90388-A-6-C). Elevated reporting limits (RLs) are provided.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257723 was outside of control limits. As-131%, Ba-138%, Be-127%, Cr-127%, Cu-139%, Pb-129%, V-132%, Zn-132%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257723 was outside control limits for As-104%, Ba-12%, Co-25%, Cr-18%, Ni-17%, Pb-17%, V-13%, Zn-17%: (720-90388-A-6-C SD ^20)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257270 and analytical batch 720-257723 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257285 and analytical batch 720-257864 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257864 was outside of control limits. Silver-126%, Cobalt-128%, Nickel-128%, Selenium-127%, Vanadium-150%, Zinc-189%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257864 was outside control limits for

Job ID: 720-90412-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Arsenic-16%, Barium-19%, Cobalt-19%, Chromium-24%, Copper-20%, Nickel-19%, Lead-21%, Vanadium-23%, Zinc-20%: (720-90413-A-6-F SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257285 and analytical batch 720-257864 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample(LCS) was within acceptance limits.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AA3S-3.5-4 (720-90412-20), DG-AA3S-7-7.5 (720-90412-21), DUP-16 (720-90412-22) and (720-90413-A-6-F). Elevated reporting limits (RLs) are provided.

Method 7471A: The method blank for preparation batch 720-257258 and analytical batch 720-257939 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: 8015_3456: Due to sample viscosity the following sample was volumed up to 5 mL: DG-S3S-3.5-4 (720-90412-11)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-P1S-0.5-1 — Lab Sample ID: 720-90412-1

No Detections.

Client Sample ID: DG-P1S-3.5-4 — Lab Sample ID: 720-90412-2

No Detections.

Client Sample ID: DUP-02 — Lab Sample ID: 720-90412-3

No Detections.

Client Sample ID: DG-N1S-0.5-1 — Lab Sample ID: 720-90412-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	31	J	40	20	ug/Kg	4		8270C SIM	Total/NA
Acenaphthylene	23		20	9.5	ug/Kg	4		8270C SIM	Total/NA
Anthracene	58		20	7.9	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]anthracene	50		20	5.9	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]pyrene	70		20	7.5	ug/Kg	4		8270C SIM	Total/NA
Benzo[b]fluoranthene	130	B	20	8.3	ug/Kg	4		8270C SIM	Total/NA
Benzo[g,h,i]perylene	50		20	17	ug/Kg	4		8270C SIM	Total/NA
Benzo[k]fluoranthene	47		20	8.3	ug/Kg	4		8270C SIM	Total/NA
Chrysene	81		20	5.5	ug/Kg	4		8270C SIM	Total/NA
Dibenz(a,h)anthracene	19	J	20	14	ug/Kg	4		8270C SIM	Total/NA
Fluoranthene	91		20	5.5	ug/Kg	4		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	44		20	17	ug/Kg	4		8270C SIM	Total/NA
Naphthalene	33		20	14	ug/Kg	4		8270C SIM	Total/NA
Phenanthrene	53		20	7.1	ug/Kg	4		8270C SIM	Total/NA
Pyrene	100		20	6.7	ug/Kg	4		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	82	B	4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	210		100	20	mg/Kg	2		8015B	Total/NA
4,4'-DDE	2.7		2.0	0.41	ug/Kg	1		8081A	Total/NA
4,4'-DDT	10		2.0	0.40	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	1.4	J p	2.0	0.39	ug/Kg	1		8081A	Total/NA
Aroclor 1260	50		49	17	ug/Kg	1		8082	Total/NA
Antimony	2.5		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	28		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	56		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.89		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	21		1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	120		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	180		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	26		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.89	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Silver	0.27	J B	0.73	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	65		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	300		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.37	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N1S-3.5-4 — Lab Sample ID: 720-90412-5

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N1S-3.5-4 (Continued)

Lab Sample ID: 720-90412-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	2.7	J	4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.2	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	9.2	B	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.6		4.9	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.9	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	7.0		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	3.6	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	3.6	J	4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	11		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	5.8		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.2	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	8.2		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	39		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	110		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J	0.30	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.30	J	0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	320		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	24		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	21		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	5.8		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.43	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	330		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	3.0	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	54		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	9.4	B	0.15	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-O3S-0.5-1

Lab Sample ID: 720-90412-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	4.3	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.2		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	7.2	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.8		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.4	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	3.3	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	5.4		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	3.1	J	5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	6.2		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	4.2	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	13	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	0.58	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	37		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	23		1.4	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.35		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	8.1		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	89		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	14		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.41	J	1.4	0.18	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-O3S-0.5-1 (Continued) — Lab Sample ID: 720-90412-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	5.6		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.72	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	72		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.061	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O3S-3.5-4 — Lab Sample ID: 720-90412-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	6.8	J	10	5.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	3.3	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.1		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	8.1	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.6		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.3	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	4.5	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	8.2		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	4.7	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	10		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.9		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.8	J B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	4.5		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	39		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	55		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	190		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	20		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	6.0		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	170		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Silver	0.20	J B	0.90	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	50		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	4.0	B	0.14	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-Q3S-0.5-1 — Lab Sample ID: 720-90412-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.2	J	9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.5	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	3.0	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	6.0		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.7		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	11	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.6		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.9	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	6.9		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q3S-0.5-1 (Continued) — Lab Sample ID: 720-90412-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	12		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	5.9		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	7.5		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	15		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	11	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	31	J	50	10	mg/Kg	1		8015B	Total/NA
Antimony	0.68	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	86		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	42		1.2	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	7.6		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	85		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	30		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	4.6		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.53	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	50		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.046	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q3S-3.5-4 — Lab Sample ID: 720-90412-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	2.5	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	3.3	J B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	1.6	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.5	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	1.6		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	2.5		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	23		1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.20	0.065	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	45		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	7.9		0.40	0.040	mg/Kg	4		6010B	Total/NA
Copper	6.2		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	2.6		1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.34	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	32		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	0.72	J	2.0	0.30	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	23		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.013	J B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S3S-0.5-1 — Lab Sample ID: 720-90412-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	22		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	8.9		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	12		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S3S-0.5-1 (Continued)

Lab Sample ID: 720-90412-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	21		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	28		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	42	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	18		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	13		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	30		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.1		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	42		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	15		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	17		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	31		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	57		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	90	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	230		50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	10		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	210		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	58		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.98		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	12		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	170		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	290		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.63	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	24		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.99	J	3.6	0.55	mg/Kg	4		6010B	Total/NA
Silver	0.24	J B	0.91	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	78		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	170		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.11	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S3S-3.5-4

Lab Sample ID: 720-90412-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	31	J	99	30	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	84	J	99	38	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	130	B	99	42	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	43	J	99	42	ug/Kg	20		8270C SIM	Total/NA
Chrysene	70	J	99	28	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	75	J	99	28	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	97	J	99	36	ug/Kg	20		8270C SIM	Total/NA
Pyrene	81	J	99	34	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	740	B	50	19	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4700		1200	250	mg/Kg	10		8015B	Total/NA
Antimony	3.2		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	48		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	73		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.37	J	0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	86		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.63	0.063	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S3S-3.5-4 (Continued) — Lab Sample ID: 720-90412-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	36		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	82		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.43	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	130		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	76		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	3.3	B	0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-U3S-0.5-1 — Lab Sample ID: 720-90412-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	70		20	10	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	26		10	4.8	ug/Kg	2		8270C SIM	Total/NA
Anthracene	65		10	4.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	55		10	3.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	61		10	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	130	B	10	4.2	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	32		10	8.6	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	47		10	4.2	ug/Kg	2		8270C SIM	Total/NA
Chrysene	81		10	2.8	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	11		10	7.0	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	130		10	2.8	ug/Kg	2		8270C SIM	Total/NA
Fluorene	5.2	J	10	4.4	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	32		10	8.4	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	72		10	7.0	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	110		10	3.6	ug/Kg	2		8270C SIM	Total/NA
Pyrene	130		10	3.4	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	98	B	4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	220		100	20	mg/Kg	2		8015B	Total/NA
4,4'-DDT	7.1	p	1.9	0.39	ug/Kg	1		8081A	Total/NA
Aroclor 1260	33	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	3.0		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	200		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	99		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	2.0		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	25		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	200		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	1600		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	31		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.7	0.55	mg/Kg	4		6010B	Total/NA
Silver	0.58	J B	0.92	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	420		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.30	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U3S-3.5-4 — Lab Sample ID: 720-90412-13

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U3S-3.5-4 (Continued)

Lab Sample ID: 720-90412-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.3		1.1	0.55	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	130		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	20		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	11		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	27		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	16		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	10		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	110	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	17		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	13		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	130		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	14		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	140		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	12		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	13		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	280		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	650		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	70		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	12	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	36	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	1.2		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	65		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	36		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.92		0.23	0.074	mg/Kg	4		6010B	Total/NA
Cadmium	0.30		0.29	0.028	mg/Kg	4		6010B	Total/NA
Chromium	32		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	49		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	12		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.61	J	1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	40		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.60	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	90		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.11	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-15

Lab Sample ID: 720-90412-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	180		73	51	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Trichloroethene	2.1		0.73	0.36	ug/Kg	1		8260B	Total/NA
Anthracene	110		100	40	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	79	J	100	30	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	140		100	38	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	210	B	100	42	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110		100	86	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	75	J	100	42	ug/Kg	20		8270C SIM	Total/NA
Chrysene	120		100	28	ug/Kg	20		8270C SIM	Total/NA
Dibenz(a,h)anthracene	70	J	100	70	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	140		100	28	ug/Kg	20		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-15 (Continued)

Lab Sample ID: 720-90412-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	92	J	100	70	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	230		100	36	ug/Kg	20		8270C SIM	Total/NA
Pyrene	140		100	34	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	330	B	20	7.5	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2200		500	100	mg/Kg	10		8015B	Total/NA
Antimony	3.3		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	84		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	64		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.35	J	0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	79		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	34		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	25		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.59	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	100		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	69		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.47		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W3S-0.5-1

Lab Sample ID: 720-90412-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	15	J	25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	32		25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	27		25	7.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	36		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	45	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	25		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	21	J	25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	25		25	7.0	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	44		25	7.0	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	17	J	25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	26		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	55		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	62	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160		50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	3.7		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	140		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	34		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.35	0.034	mg/Kg	4		6010B	Total/NA
Chromium	12		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	99		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	120		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.50	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	12		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.77	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	0.31	J B	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.4	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W3S-0.5-1 (Continued) — Lab Sample ID: 720-90412-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	92		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.078		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W3S-3.5-4 — Lab Sample ID: 720-90412-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.6	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	4.8	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.0		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	60	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	9.0		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.2		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	60		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	6.8		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	27		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	7.0		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	8.6		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	78		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	19		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	9.4	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	12	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	1.6	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	140		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	86		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.99		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.44	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	30		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	32		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	55		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	21		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.89	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	48		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.73	J	3.6	0.55	mg/Kg	4		6010B	Total/NA
Thallium	0.79	J	1.8	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	97		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y3S-0.5-1 — Lab Sample ID: 720-90412-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	140	J	250	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]anthracene	210	J	250	75	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	300		250	95	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	470	B	250	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	230	J	250	210	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	200	J	250	100	ug/Kg	50		8270C SIM	Total/NA
Chrysene	200	J	250	70	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	410		250	70	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	210	J	250	90	ug/Kg	50		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y3S-0.5-1 (Continued)

Lab Sample ID: 720-90412-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	470		250	85	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	930	B	20	7.5	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1900		500	100	mg/Kg	10		8015B	Total/NA
Antimony	12		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	110		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	200		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	12		0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	82		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	440		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	940		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	9.4		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	140		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	3.1	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Silver	1.1	B	0.95	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	1500		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	1.2		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y3S-3.5-4

Lab Sample ID: 720-90412-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	2.4	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.3	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	25	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.3		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.9	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	22		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	11		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	7.3		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	35		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	9.0		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.1	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	1.5	J	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	34		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	61		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.60		0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.30	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	33		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	32		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	12		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.44	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	37		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.68	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	73		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.082		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-AA3S-0.5-1 — Lab Sample ID: 720-90412-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	35		12	6.0	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	31		20	10	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	17		10	4.8	ug/Kg	2		8270C SIM	Total/NA
Anthracene	31		10	4.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	80		10	3.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	100		10	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	150	B	10	4.2	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	57		10	8.6	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	62		10	4.2	ug/Kg	2		8270C SIM	Total/NA
Chrysene	99		10	2.8	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	15		10	7.0	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	130		10	2.8	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	42		10	8.4	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	24		10	7.0	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	67		10	3.6	ug/Kg	2		8270C SIM	Total/NA
Pyrene	160		10	3.4	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	76	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	3.9		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	87		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	150		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	1.9		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	27		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	210		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	310		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.8		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	30		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Silver	0.39	J B	0.84	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	360		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.34		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA3S-3.5-4 — Lab Sample ID: 720-90412-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	2.2	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.1	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	7.6	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.3	J	5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.9	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	4.1	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	3.6	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	8.5		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	5.0		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.9	J B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	14	J	50	10	mg/Kg	1		8015B	Total/NA
Arsenic	4.8		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	110		1.9	0.28	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AA3S-3.5-4 (Continued)

Lab Sample ID: 720-90412-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.21	J	0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	140		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	36		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	11		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.63	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	190		1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	83		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	56		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.85		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA3S-7-7.5

Lab Sample ID: 720-90412-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	11	B	10	5.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.0		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	2.4	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	20	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.8	J	5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.2	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	8.8		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	6.4		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	16		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	6.9		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	24		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	19		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.0	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	1.1	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	40		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	36		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.10	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	33		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	19		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	10		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.67	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	28		1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	53		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.075		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-16

Lab Sample ID: 720-90412-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	53	B	50	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	23	J	25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	47		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	74		25	7.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	98		25	9.5	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-16 (Continued) — Lab Sample ID: 720-90412-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	130	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	270		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	53		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	100		25	7.0	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	18	J	25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	150		25	7.0	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	65		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	47		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	130		25	9.0	ug/Kg	5		8270C SIM	Total/NA
Pyrene	220		25	8.5	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	97	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	180		50	10	mg/Kg	1		8015B	Total/NA
Antimony	4.7		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	93		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	120		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	4.2		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	59		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	240		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	520		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	2.2		1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	52		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Silver	0.40	J	0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	510		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.95		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH4S-6-6.5 — Lab Sample ID: 720-90412-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	11	B	9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Anthracene	3.1	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	3.6	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.2		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	21	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	12		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.9	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	20		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.2	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	13		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.5		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	19		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	46		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	15		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	13	B	2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	34	J	50	9.9	mg/Kg	1		8015B	Total/NA

Client Sample ID: DG-AH4S-4-4.5 — Lab Sample ID: 720-90412-24

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH4S-4-4.5 (Continued)

Lab Sample ID: 720-90412-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	250000		9600	6700	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1100		96	48	ug/Kg	100		8260B	Total/NA
1,3,5-Trimethylbenzene	320		96	48	ug/Kg	100		8260B	Total/NA
4-Isopropyltoluene	500		96	48	ug/Kg	100		8260B	Total/NA
Ethylbenzene	75	J	96	48	ug/Kg	100		8260B	Total/NA
Isopropylbenzene	2300		96	48	ug/Kg	100		8260B	Total/NA
Naphthalene	570		240	96	ug/Kg	100		8260B	Total/NA
n-Butylbenzene	680		240	96	ug/Kg	100		8260B	Total/NA
N-Propylbenzene	340		96	48	ug/Kg	100		8260B	Total/NA
sec-Butylbenzene	650		240	48	ug/Kg	100		8260B	Total/NA
tert-Butylbenzene	1100		240	96	ug/Kg	100		8260B	Total/NA
Xylenes, Total	340		190	96	ug/Kg	100		8260B	Total/NA
2-Methylnaphthalene	20000	B	1000	500	ug/Kg	100		8270C SIM	Total/NA
Acenaphthene	3100		500	280	ug/Kg	100		8270C SIM	Total/NA
Acenaphthylene	460	J	500	240	ug/Kg	100		8270C SIM	Total/NA
Anthracene	4600		500	200	ug/Kg	100		8270C SIM	Total/NA
Benzo[a]anthracene	2700		500	150	ug/Kg	100		8270C SIM	Total/NA
Benzo[a]pyrene	1600		500	190	ug/Kg	100		8270C SIM	Total/NA
Benzo[b]fluoranthene	940	B	500	210	ug/Kg	100		8270C SIM	Total/NA
Benzo[g,h,i]perylene	510		500	430	ug/Kg	100		8270C SIM	Total/NA
Benzo[k]fluoranthene	350	J	500	210	ug/Kg	100		8270C SIM	Total/NA
Chrysene	4200		500	140	ug/Kg	100		8270C SIM	Total/NA
Fluoranthene	1900		500	140	ug/Kg	100		8270C SIM	Total/NA
Fluorene	3400		500	220	ug/Kg	100		8270C SIM	Total/NA
Naphthalene	1100		500	350	ug/Kg	100		8270C SIM	Total/NA
Phenanthrene	14000		500	180	ug/Kg	100		8270C SIM	Total/NA
Pyrene	9200		500	170	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3700	B	40	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	3600		1000	200	mg/Kg	20		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-P1S-0.5-1

Date Collected: 12/18/18 08:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		12/18/18 20:00	12/21/18 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*60 - 120*	*12/18/18 20:00*	*12/21/18 14:57*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*12/18/18 20:00*	*12/21/18 14:57*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/18/18 20:00*	*12/21/18 14:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,1,1-Trichloroethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.2	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,1,2-Trichloroethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,1-Dichloroethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,1-Dichloropropene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,2,4-Trichlorobenzene	ND		4.2	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,2-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,2-Dichloroethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,2-Dichloropropane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,3-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,3-Dichloropropane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
1,4-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
2-Butanone (MEK)	ND		8.3	4.2	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
2-Hexanone	ND		8.3	4.2	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
4-Isopropyltoluene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Benzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Bromobenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Bromoform	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Bromomethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Carbon disulfide	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Chlorobenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Chlorodibromomethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Chloroethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Chloroform	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Chloromethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
cis-1,2-Dichloroethene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1

Client Sample ID: DG-P1S-0.5-1
Date Collected: 12/18/18 08:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Dibromomethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Dichlorobromomethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Ethylbenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Ethylene Dibromide	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Isopropylbenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Methyl tert-butyl ether	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Methylene Chloride	ND		8.3	4.2	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Naphthalene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
N-Propylbenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Styrene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Tetrachloroethene	ND	*	0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Toluene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
trans-1,2-Dichloroethene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
trans-1,3-Dichloropropene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Trichloroethene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Vinyl acetate	ND		6.7	3.3	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 14:57	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/18/18 20:00	12/21/18 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*132*	*X*	*70 - 130*	*12/18/18 20:00*	*12/21/18 14:57*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/18/18 20:00*	*12/21/18 14:57*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-P1S-3.5-4
Date Collected: 12/18/18 08:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		84	59	ug/Kg		12/18/18 19:30	12/22/18 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*12/18/18 19:30*	*12/22/18 13:28*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*12/18/18 19:30*	*12/22/18 13:28*	*1*
Toluene-d8 (Surr)	*113*		*79 - 123*	*12/18/18 19:30*	*12/22/18 13:28*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,1,1-Trichloroethane	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.4	4.2	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,1,2-Trichloroethane	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,1-Dichloroethane	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,1-Dichloropropene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,2,3-Trichlorobenzene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,2,3-Trichloropropane	ND		8.4	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,2,4-Trichlorobenzene	ND		4.2	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,2,4-Trimethylbenzene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,2-Dichlorobenzene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,2-Dichloroethane	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,2-Dichloropropane	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,3,5-Trimethylbenzene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,3-Dichlorobenzene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,3-Dichloropropane	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
1,4-Dichlorobenzene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
2,2-Dichloropropane	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
2-Butanone (MEK)	ND		8.4	4.2	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
2-Chlorotoluene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
2-Hexanone	ND		8.4	4.2	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
4-Chlorotoluene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
4-Isopropyltoluene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Benzene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Bromobenzene	ND	*	1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Bromoform	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Bromomethane	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Carbon disulfide	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Chlorobenzene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Chlorobromomethane	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Chlorodibromomethane	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Chloroethane	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Chloroform	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Chloromethane	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
cis-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1

Client Sample ID: DG-P1S-3.5-4
Date Collected: 12/18/18 08:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Dibromomethane	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Dichlorobromomethane	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Dichlorodifluoromethane	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Ethylbenzene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Ethylene Dibromide	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Hexachlorobutadiene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Isopropylbenzene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Methyl tert-butyl ether	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Methylene Chloride	ND		8.4	4.2	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Naphthalene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
n-Butylbenzene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
N-Propylbenzene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
sec-Butylbenzene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Styrene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
tert-Butylbenzene	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Tetrachloroethene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Toluene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
trans-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
trans-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Trichloroethene	ND		0.84	0.42	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Trichlorofluoromethane	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Vinyl acetate	ND		6.7	3.4	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Vinyl chloride	ND		1.7	0.84	ug/Kg		12/18/18 19:30	12/22/18 13:28	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/18/18 19:30	12/22/18 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*12/18/18 19:30*	*12/22/18 13:28*	*1*
Toluene-d8 (Surr)	*113*		*79 - 123*	*12/18/18 19:30*	*12/22/18 13:28*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DUP-02

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	51	ug/Kg		12/18/18 20:00	12/21/18 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*60 - 120*	*12/18/18 20:00*	*12/21/18 15:54*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*12/18/18 20:00*	*12/21/18 15:54*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*12/18/18 20:00*	*12/21/18 15:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,2,4-Trichlorobenzene	ND		3.6	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,2,4-Trimethylbenzene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,3,5-Trimethylbenzene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
2,2-Dichloropropane	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
2-Butanone (MEK)	ND		7.2	3.6	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
2-Chlorotoluene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
2-Hexanone	ND		7.2	3.6	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
4-Chlorotoluene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
4-Isopropyltoluene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Benzene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Bromobenzene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Bromoform	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Bromomethane	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Chloroethane	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Chloroform	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Chloromethane	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1

Client Sample ID: DUP-02
Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Dibromomethane	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Hexachlorobutadiene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Naphthalene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
n-Butylbenzene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
N-Propylbenzene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
sec-Butylbenzene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Styrene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
tert-Butylbenzene	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Tetrachloroethene	ND	*	0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Toluene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Trichloroethene	ND		0.72	0.36	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		12/18/18 20:00	12/21/18 15:54	1
Xylenes, Total	ND		1.4	0.94	ug/Kg		12/18/18 20:00	12/21/18 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*12/18/18 20:00*	*12/21/18 15:54*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*12/18/18 20:00*	*12/21/18 15:54*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-N1S-0.5-1

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		89	62	ug/Kg		12/18/18 20:00	12/21/18 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*123*	*X*	*60 - 120*	*12/18/18 20:00*	*12/21/18 16:51*	*1*
4-Bromofluorobenzene (Surr)	*120*		*79 - 120*	*12/18/18 20:00*	*12/21/18 16:51*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/18/18 20:00*	*12/21/18 16:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,1,1-Trichloroethane	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.9	4.4	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,1,2-Trichloroethane	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,1-Dichloroethane	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,1-Dichloropropene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,2,3-Trichlorobenzene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,2,3-Trichloropropane	ND		8.9	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,2,4-Trichlorobenzene	ND		4.4	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,2,4-Trimethylbenzene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,2-Dichlorobenzene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,2-Dichloroethane	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,2-Dichloropropane	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,3,5-Trimethylbenzene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,3-Dichlorobenzene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,3-Dichloropropane	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
1,4-Dichlorobenzene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
2,2-Dichloropropane	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
2-Butanone (MEK)	ND		8.9	4.4	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
2-Chlorotoluene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
2-Hexanone	ND		8.9	4.4	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
4-Chlorotoluene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
4-Isopropyltoluene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Benzene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Bromobenzene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Bromoform	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Bromomethane	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Carbon disulfide	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Chlorobenzene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Chlorobromomethane	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Chlorodibromomethane	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Chloroethane	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Chloroform	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Chloromethane	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
cis-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1

Client Sample ID: DG-N1S-0.5-1

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Dibromomethane	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Dichlorobromomethane	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Dichlorodifluoromethane	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Ethylbenzene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Ethylene Dibromide	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Hexachlorobutadiene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Isopropylbenzene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Methyl tert-butyl ether	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Methylene Chloride	ND		8.9	4.4	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Naphthalene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
n-Butylbenzene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
N-Propylbenzene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
sec-Butylbenzene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Styrene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
tert-Butylbenzene	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Tetrachloroethene	ND	*	0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Toluene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
trans-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
trans-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Trichloroethene	ND		0.89	0.44	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Trichlorofluoromethane	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Vinyl acetate	ND		7.1	3.6	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Vinyl chloride	ND		1.8	0.89	ug/Kg		12/18/18 20:00	12/21/18 16:51	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*	*12/18/18 20:00*	*12/21/18 16:51*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/18/18 20:00*	*12/21/18 16:51*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**31**	**J**	40	20	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Acenaphthene	ND		20	11	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Acenaphthylene	**23**		20	9.5	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Anthracene	**58**		20	7.9	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Benzo[a]anthracene	**50**		20	5.9	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Benzo[a]pyrene	**70**		20	7.5	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Benzo[b]fluoranthene	**130**	**B**	20	8.3	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Benzo[g,h,i]perylene	**50**		20	17	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Benzo[k]fluoranthene	**47**		20	8.3	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Chrysene	**81**		20	5.5	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Dibenz(a,h)anthracene	**19**	**J**	20	14	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Fluoranthene	**91**		20	5.5	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Fluorene	ND		20	8.7	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Indeno[1,2,3-cd]pyrene	**44**		20	17	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Naphthalene	**33**		20	14	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Phenanthrene	**53**		20	7.1	ug/Kg		12/20/18 16:21	12/29/18 06:43	4
Pyrene	**100**		20	6.7	ug/Kg		12/20/18 16:21	12/29/18 06:43	4

Client Sample ID: DG-N1S-0.5-1

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-4

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		33 - 120	12/20/18 16:21	12/29/18 06:43	4
Terphenyl-d14	105		35 - 146	12/20/18 16:21	12/29/18 06:43	4

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**82**	**B**	4.0	1.5	mg/Kg		12/20/18 09:45	12/21/18 04:19	2
Motor Oil Range Organics [C24-C36]	**210**		100	20	mg/Kg		12/20/18 09:45	12/21/18 04:19	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	92		40 - 130	12/20/18 09:45	12/21/18 04:19	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
4,4'-DDE	**2.7**		2.0	0.41	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
4,4'-DDT	**10**		2.0	0.40	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Aldrin	ND		2.0	0.49	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
alpha-Chlordane	**1.4**	**J p**	2.0	0.39	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Endrin	ND		2.0	0.45	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/20/18 08:47	12/22/18 09:19	1
Toxaphene	ND		39	6.7	ug/Kg		12/20/18 08:47	12/22/18 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		21 - 136	12/20/18 08:47	12/22/18 09:19	1
Tetrachloro-m-xylene	79		21 - 145	12/20/18 08:47	12/22/18 09:19	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:31	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:31	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:31	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:31	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:31	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:31	1
Aroclor 1260	**50**		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:31	1

Client Sample ID: DG-N1S-0.5-1

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*45 - 120*	*12/20/18 14:02*	*12/24/18 16:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.5**		1.5	0.24	mg/Kg		12/19/18 15:49	12/27/18 20:17	4
Arsenic	**28**		2.9	0.25	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Barium	**56**		1.5	0.21	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Beryllium	ND		0.29	0.095	mg/Kg		12/19/18 15:49	12/27/18 20:17	4
Cadmium	**0.89**		0.36	0.036	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Chromium	**21**		1.5	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Cobalt	**9.6**		0.58	0.058	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Copper	**120**		4.4	2.1	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Lead	**180**		1.5	0.31	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Molybdenum	**1.4**	**J**	1.5	0.19	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Nickel	**26**		1.5	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Selenium	**0.89**	**J**	2.9	0.44	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Silver	**0.27**	**J B**	0.73	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Thallium	ND		1.5	0.42	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Vanadium	**65**		1.5	0.20	mg/Kg		12/19/18 15:49	12/26/18 23:37	4
Zinc	**300**		4.4	1.9	mg/Kg		12/19/18 15:49	12/26/18 23:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.37**	**B**	0.016	0.0024	mg/Kg		12/19/18 12:26	01/03/19 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.05	%			12/20/18 09:34	1

Client Sample ID: DG-N1S-3.5-4

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		94	66	ug/Kg		12/18/18 20:00	12/21/18 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*60 - 120*	*12/18/18 20:00*	*12/21/18 17:19*	*1*
4-Bromofluorobenzene (Surr)	*131*	*X*	*79 - 120*	*12/18/18 20:00*	*12/21/18 17:19*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*12/18/18 20:00*	*12/21/18 17:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,1,1-Trichloroethane	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.4	4.7	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,1,2-Trichloroethane	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,1-Dichloroethane	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,1-Dichloropropene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,2,3-Trichlorobenzene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,2,3-Trichloropropane	ND		9.4	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,2,4-Trichlorobenzene	ND		4.7	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,2,4-Trimethylbenzene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,2-Dichlorobenzene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,2-Dichloroethane	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,2-Dichloropropane	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,3,5-Trimethylbenzene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,3-Dichlorobenzene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,3-Dichloropropane	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
1,4-Dichlorobenzene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
2-Chlorotoluene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
2-Hexanone	ND		9.4	4.7	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
4-Chlorotoluene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
4-Isopropyltoluene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.3	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Benzene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Bromobenzene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Bromoform	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Bromomethane	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Carbon disulfide	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Chlorobenzene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Chlorobromomethane	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Chlorodibromomethane	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Chloroethane	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Chloroform	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Chloromethane	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
cis-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1

Client Sample ID: DG-N1S-3.5-4

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Dibromomethane	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Dichlorobromomethane	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Dichlorodifluoromethane	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Ethylbenzene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Ethylene Dibromide	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Hexachlorobutadiene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Isopropylbenzene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Methyl tert-butyl ether	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Methylene Chloride	ND		9.4	4.7	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Naphthalene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
n-Butylbenzene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
N-Propylbenzene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
sec-Butylbenzene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Styrene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
tert-Butylbenzene	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Tetrachloroethene	ND	*	0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Toluene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
trans-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
trans-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Trichloroethene	ND		0.94	0.47	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Trichlorofluoromethane	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Vinyl acetate	ND		7.5	3.8	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Vinyl chloride	ND		1.9	0.94	ug/Kg		12/18/18 20:00	12/21/18 17:19	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		12/18/18 20:00	12/21/18 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*132*	*X*	*70 - 130*	*12/18/18 20:00*	*12/21/18 17:19*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*12/18/18 20:00*	*12/21/18 17:19*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Acenaphthene	ND		4.9	2.8	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Anthracene	ND		4.9	2.0	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Benzo[a]anthracene	**2.7**	**J**	4.9	1.5	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Benzo[a]pyrene	**4.2**	**J**	4.9	1.9	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Benzo[b]fluoranthene	**9.2**	**B**	4.9	2.1	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Benzo[g,h,i]perylene	**5.6**		4.9	4.3	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Benzo[k]fluoranthene	**2.9**	**J**	4.9	2.1	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Chrysene	**7.0**		4.9	1.4	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Dibenz(a,h)anthracene	ND		4.9	3.5	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Fluoranthene	**3.6**	**J**	4.9	1.4	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Fluorene	ND		4.9	2.2	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.2	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Naphthalene	**3.6**	**J**	4.9	3.5	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Phenanthrene	**11**		4.9	1.8	ug/Kg		12/20/18 16:21	12/28/18 03:30	1
Pyrene	**5.8**		4.9	1.7	ug/Kg		12/20/18 16:21	12/28/18 03:30	1

Client Sample ID: DG-N1S-3.5-4

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*33 - 120*	*12/20/18 16:21*	*12/28/18 03:30*	*1*
Terphenyl-d14	*88*		*35 - 146*	*12/20/18 16:21*	*12/28/18 03:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.2**	**B**	2.0	0.75	mg/Kg		12/20/18 09:45	12/20/18 22:48	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 09:45	12/20/18 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*94*		*40 - 130*	*12/20/18 09:45*	*12/20/18 22:48*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Aldrin	ND		2.0	0.50	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Endrin	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/20/18 08:47	12/22/18 09:37	1
Toxaphene	ND		40	6.8	ug/Kg		12/20/18 08:47	12/22/18 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*12/20/18 08:47*	*12/22/18 09:37*	*1*
Tetrachloro-m-xylene	*69*		*21 - 145*	*12/20/18 08:47*	*12/22/18 09:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:44	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:44	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:44	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:44	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:44	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:44	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:44	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-N1S-3.5-4

Date Collected: 12/18/18 09:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*45 - 120*	*12/20/18 14:02*	*12/24/18 16:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.2		1.5	0.25	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Arsenic	39		3.0	0.25	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Barium	110		1.5	0.21	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Beryllium	0.25	J	0.30	0.096	mg/Kg		12/19/18 15:49	12/27/18 20:22	4
Cadmium	0.30	J	0.37	0.037	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Chromium	320		1.5	0.16	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Cobalt	24		0.59	0.059	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Copper	21		4.4	2.1	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Lead	5.8		1.5	0.31	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Molybdenum	0.43	J	1.5	0.19	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Nickel	330		1.5	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Selenium	1.0	J	3.0	0.44	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Silver	ND		0.74	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Thallium	ND		1.5	0.43	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Vanadium	67		1.5	0.20	mg/Kg		12/19/18 15:49	12/26/18 23:42	4
Zinc	54		4.4	1.9	mg/Kg		12/19/18 15:49	12/26/18 23:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.4	B	0.15	0.021	mg/Kg		12/19/18 12:26	01/03/19 16:58	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		0.1	0.05	%			12/20/18 09:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-O3S-0.5-1
Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-6
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		87	61	ug/Kg		12/18/18 20:00	12/21/18 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*60 - 120*	*12/18/18 20:00*	*12/21/18 17:48*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*12/18/18 20:00*	*12/21/18 17:48*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/18/18 20:00*	*12/21/18 17:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,1,1-Trichloroethane	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.7	4.3	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,1,2-Trichloroethane	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,1-Dichloroethane	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,1-Dichloropropene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,2,3-Trichlorobenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,2,3-Trichloropropane	ND		8.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,2,4-Trichlorobenzene	ND		4.3	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,2,4-Trimethylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,2-Dichlorobenzene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,2-Dichloroethane	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,2-Dichloropropane	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,3,5-Trimethylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,3-Dichlorobenzene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,3-Dichloropropane	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
1,4-Dichlorobenzene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
2,2-Dichloropropane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
2-Butanone (MEK)	ND		8.7	4.3	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
2-Chlorotoluene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
2-Hexanone	ND		8.7	4.3	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
4-Chlorotoluene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
4-Isopropyltoluene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.2	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Benzene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Bromobenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Bromoform	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Bromomethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Carbon disulfide	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Chlorobenzene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Chlorobromomethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Chlorodibromomethane	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Chloroethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Chloroform	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Chloromethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
cis-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1

Client Sample ID: DG-O3S-0.5-1

Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Dibromomethane	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Dichlorobromomethane	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Dichlorodifluoromethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Ethylbenzene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Ethylene Dibromide	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Hexachlorobutadiene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Isopropylbenzene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Methyl tert-butyl ether	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Methylene Chloride	ND		8.7	4.3	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Naphthalene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
n-Butylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
N-Propylbenzene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
sec-Butylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Styrene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
tert-Butylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Tetrachloroethene	ND	*	0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Toluene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
trans-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
trans-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Trichloroethene	ND		0.87	0.43	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Trichlorofluoromethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Vinyl acetate	ND		6.9	3.5	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Vinyl chloride	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 17:48	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/18/18 20:00	12/21/18 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*	*12/18/18 20:00*	*12/21/18 17:48*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/18/18 20:00*	*12/21/18 17:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Anthracene	ND		5.0	2.0	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Benzo[a]anthracene	**4.3**	**J**	5.0	1.5	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Benzo[a]pyrene	**5.2**		5.0	1.9	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Benzo[b]fluoranthene	**7.2**	**B**	5.0	2.1	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Benzo[g,h,i]perylene	**5.8**		5.0	4.3	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Benzo[k]fluoranthene	**3.4**	**J**	5.0	2.1	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Chrysene	**3.3**	**J**	5.0	1.4	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Fluoranthene	**5.4**		5.0	1.4	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Fluorene	ND		5.0	2.2	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Phenanthrene	**3.1**	**J**	5.0	1.8	ug/Kg		12/20/18 16:21	12/28/18 03:54	1
Pyrene	**6.2**		5.0	1.7	ug/Kg		12/20/18 16:21	12/28/18 03:54	1

Client Sample ID: DG-O3S-0.5-1

Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*12/20/18 16:21*	*12/28/18 03:54*	*1*
Terphenyl-d14	*93*		*35 - 146*	*12/20/18 16:21*	*12/28/18 03:54*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.2**	**B**	2.0	0.75	mg/Kg		12/20/18 09:45	12/20/18 23:12	1
Motor Oil Range Organics [C24-C36]	**13**	**J**	50	9.9	mg/Kg		12/20/18 09:45	12/20/18 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*105*		*40 - 130*	*12/20/18 09:45*	*12/20/18 23:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Aldrin	ND		2.0	0.50	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Endrin	ND		2.0	0.46	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/20/18 09:20	12/27/18 13:55	1
Toxaphene	ND		40	6.7	ug/Kg		12/20/18 09:20	12/27/18 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*21 - 136*	*12/20/18 09:20*	*12/27/18 13:55*	*1*
Tetrachloro-m-xylene	*88*		*21 - 145*	*12/20/18 09:20*	*12/27/18 13:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:57	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:57	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:57	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:57	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:57	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:57	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 16:57	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-O3S-0.5-1

Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*	*12/20/18 14:02*	*12/24/18 16:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.58**	**J**	1.4	0.23	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Arsenic	**37**		2.7	0.23	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Barium	**23**		1.4	0.19	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Beryllium	ND		0.27	0.089	mg/Kg		12/19/18 15:49	12/27/18 20:27	4
Cadmium	**0.35**		0.34	0.034	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Chromium	**8.1**		1.4	0.15	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Cobalt	**11**		0.55	0.055	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Copper	**89**		4.1	2.0	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Lead	**14**		1.4	0.29	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Molybdenum	**0.41**	**J**	1.4	0.18	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Nickel	**5.6**		1.4	0.14	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Selenium	**0.72**	**J**	2.7	0.41	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Silver	ND		0.68	0.14	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Thallium	ND		1.4	0.40	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Vanadium	**79**		1.4	0.19	mg/Kg		12/19/18 15:49	12/26/18 23:47	4
Zinc	**72**		4.1	1.7	mg/Kg		12/19/18 15:49	12/26/18 23:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**	**B**	0.015	0.0022	mg/Kg		12/19/18 12:26	01/03/19 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.0**		0.1	0.05	%			12/20/18 09:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-O3S-3.5-4
Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-7
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		88	62	ug/Kg		12/18/18 20:00	12/21/18 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*126*	*X*	*60 - 120*	*12/18/18 20:00*	*12/21/18 18:16*	*1*
4-Bromofluorobenzene (Surr)	*125*	*X*	*79 - 120*	*12/18/18 20:00*	*12/21/18 18:16*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/18/18 20:00*	*12/21/18 18:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
2-Hexanone	ND		8.8	4.4	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Benzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Bromobenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Bromoform	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Bromomethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Chloroethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Chloroform	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Chloromethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1

Client Sample ID: DG-O3S-3.5-4
Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Dibromomethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Naphthalene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Styrene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Tetrachloroethene	ND	*	0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Toluene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Trichloroethene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 18:16	1
Xylenes, Total	ND		1.8	1.1	ug/Kg		12/18/18 20:00	12/21/18 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*137*	*X*	*70 - 130*	*12/18/18 20:00*	*12/21/18 18:16*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/18/18 20:00*	*12/21/18 18:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**6.8**	**J**	10	5.0	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Anthracene	ND		5.0	2.0	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Benzo[a]anthracene	**3.3**	**J**	5.0	1.5	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Benzo[a]pyrene	**5.1**		5.0	1.9	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Benzo[b]fluoranthene	**8.1**	**B**	5.0	2.1	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Benzo[g,h,i]perylene	**5.6**		5.0	4.3	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Benzo[k]fluoranthene	**3.3**	**J**	5.0	2.1	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Chrysene	**4.5**	**J**	5.0	1.4	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Fluoranthene	**8.2**		5.0	1.4	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Fluorene	ND		5.0	2.2	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Naphthalene	**4.7**	**J**	5.0	3.5	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Phenanthrene	**10**		5.0	1.8	ug/Kg		12/20/18 16:21	12/28/18 04:17	1
Pyrene	**8.9**		5.0	1.7	ug/Kg		12/20/18 16:21	12/28/18 04:17	1

Client Sample ID: DG-O3S-3.5-4

Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/20/18 16:21*	*12/28/18 04:17*	*1*
Terphenyl-d14	*88*		*35 - 146*	*12/20/18 16:21*	*12/28/18 04:17*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.8**	**J B**	2.0	0.75	mg/Kg		12/20/18 09:45	12/20/18 23:12	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 09:45	12/20/18 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*93*		*40 - 130*	*12/20/18 09:45*	*12/20/18 23:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Aldrin	ND		1.9	0.47	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Chlordane (technical)	ND		38	3.0	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Endosulfan I	ND		1.9	0.30	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Endosulfan II	ND		1.9	0.46	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Endrin	ND		1.9	0.44	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/20/18 09:20	12/25/18 04:58	1
Toxaphene	ND		38	6.5	ug/Kg		12/20/18 09:20	12/25/18 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*140*	*p X*	*21 - 136*	*12/20/18 09:20*	*12/25/18 04:58*	*1*
Tetrachloro-m-xylene	*89*		*21 - 145*	*12/20/18 09:20*	*12/25/18 04:58*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 17:11	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 17:11	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 17:11	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 17:11	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 17:11	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 17:11	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 17:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-O3S-3.5-4

Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*45 - 120*	*12/20/18 14:02*	*12/24/18 17:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.5		1.8	0.30	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Arsenic	39		3.6	0.31	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Barium	55		1.8	0.26	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Beryllium	0.15	J	0.36	0.12	mg/Kg		12/19/18 15:49	12/27/18 20:31	4
Cadmium	0.23	J	0.45	0.045	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Chromium	190		1.8	0.19	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Cobalt	14		0.72	0.072	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Copper	20		5.4	2.6	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Lead	6.0		1.8	0.38	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Molybdenum	0.40	J	1.8	0.23	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Nickel	170		1.8	0.18	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Selenium	1.6	J	3.6	0.54	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Silver	0.20	J B	0.90	0.18	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Thallium	ND		1.8	0.52	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Vanadium	43		1.8	0.25	mg/Kg		12/19/18 15:49	12/26/18 23:51	4
Zinc	50		5.4	2.3	mg/Kg		12/19/18 15:49	12/26/18 23:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.0	B	0.14	0.021	mg/Kg		12/19/18 12:26	01/03/19 17:03	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		0.1	0.05	%			12/20/18 09:34	1

Client Sample ID: DG-Q3S-0.5-1

Date Collected: 12/18/18 10:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		12/18/18 20:00	12/21/18 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*126*	*X*	*60 - 120*	*12/18/18 20:00*	*12/21/18 18:45*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*12/18/18 20:00*	*12/21/18 18:45*	*1*
Toluene-d8 (Surr)	*113*		*79 - 123*	*12/18/18 20:00*	*12/21/18 18:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
2-Hexanone	ND		7.4	3.7	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.8	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Benzene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Bromobenzene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Bromoform	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Bromomethane	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Chloroethane	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Chloroform	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Chloromethane	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1

Client Sample ID: DG-Q3S-0.5-1

Date Collected: 12/18/18 10:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-8

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Dibromomethane	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Naphthalene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Styrene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Tetrachloroethene	ND	*	0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Toluene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Trichloroethene	ND		0.74	0.37	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Vinyl acetate	ND		5.9	2.9	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		12/18/18 20:00	12/21/18 18:45	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		12/18/18 20:00	12/21/18 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*135*	*X*	*70 - 130*	*12/18/18 20:00*	*12/21/18 18:45*	*1*
Toluene-d8 (Surr)	*113*		*79 - 123*	*12/18/18 20:00*	*12/21/18 18:45*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.2**	**J**	9.9	5.0	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Acenaphthylene	**2.5**	**J**	5.0	2.4	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Anthracene	**3.0**	**J**	5.0	2.0	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Benzo[a]anthracene	**6.0**		5.0	1.5	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Benzo[a]pyrene	**8.7**		5.0	1.9	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Benzo[b]fluoranthene	**11**	**B**	5.0	2.1	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Benzo[g,h,i]perylene	**8.6**		5.0	4.3	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Benzo[k]fluoranthene	**4.9**	**J**	5.0	2.1	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Chrysene	**6.9**		5.0	1.4	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Fluoranthene	**12**		5.0	1.4	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Fluorene	ND		5.0	2.2	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Indeno[1,2,3-cd]pyrene	**5.9**		5.0	4.2	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Phenanthrene	**7.5**		5.0	1.8	ug/Kg		12/20/18 16:21	12/28/18 04:40	1
Pyrene	**15**		5.0	1.7	ug/Kg		12/20/18 16:21	12/28/18 04:40	1

Client Sample ID: DG-Q3S-0.5-1

Date Collected: 12/18/18 10:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*12/20/18 16:21*	*12/28/18 04:40*	*1*
Terphenyl-d14	*92*		*35 - 146*	*12/20/18 16:21*	*12/28/18 04:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**	**B**	2.0	0.75	mg/Kg		12/20/18 09:45	12/20/18 23:37	1
Motor Oil Range Organics [C24-C36]	**31**	**J**	50	10	mg/Kg		12/20/18 09:45	12/20/18 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*91*		*40 - 130*	*12/20/18 09:45*	*12/20/18 23:37*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Aldrin	ND		2.0	0.49	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Endrin	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Methoxychlor	ND		2.0	0.66	ug/Kg		12/20/18 09:20	12/27/18 14:12	1
Toxaphene	ND		39	6.7	ug/Kg		12/20/18 09:20	12/27/18 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*21 - 136*	*12/20/18 09:20*	*12/27/18 14:12*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*12/20/18 09:20*	*12/27/18 14:12*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 18:14	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 18:14	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 18:14	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 18:14	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 18:14	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 18:14	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/18 14:02	12/24/18 18:14	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-Q3S-0.5-1

Date Collected: 12/18/18 10:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*45 - 120*	*12/20/18 14:02*	*12/24/18 18:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.68**	**J**	1.2	0.20	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Arsenic	**86**		2.5	0.21	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Barium	**42**		1.2	0.18	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Beryllium	ND		0.25	0.080	mg/Kg		12/19/18 15:49	12/27/18 20:36	4
Cadmium	**0.23**	**J**	0.31	0.031	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Chromium	**7.6**		1.2	0.13	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Cobalt	**11**		0.49	0.049	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Copper	**85**		3.7	1.8	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Lead	**30**		1.2	0.26	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Molybdenum	**0.39**	**J**	1.2	0.16	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Nickel	**4.6**		1.2	0.13	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Selenium	**0.53**	**J**	2.5	0.37	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Silver	ND		0.62	0.12	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Thallium	ND		1.2	0.36	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Vanadium	**81**		1.2	0.17	mg/Kg		12/19/18 15:49	12/26/18 23:56	4
Zinc	**50**		3.7	1.6	mg/Kg		12/19/18 15:49	12/26/18 23:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**	**B**	0.016	0.0023	mg/Kg		12/19/18 12:26	01/03/19 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.05	%			12/20/18 09:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-Q3S-3.5-4
Date Collected: 12/18/18 10:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-9
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		12/18/18 19:30	12/22/18 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*12/18/18 19:30*	*12/22/18 13:56*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*12/18/18 19:30*	*12/22/18 13:56*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/18/18 19:30*	*12/22/18 13:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,1,1-Trichloroethane	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.5	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,1,2-Trichloroethane	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,1-Dichloroethane	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,1-Dichloropropene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,2,4-Trichlorobenzene	ND		3.5	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,2-Dichlorobenzene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,2-Dichloroethane	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,2-Dichloropropane	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,3-Dichlorobenzene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,3-Dichloropropane	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
1,4-Dichlorobenzene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
2-Butanone (MEK)	ND		6.9	3.5	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
2-Hexanone	ND		6.9	3.5	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
4-Isopropyltoluene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.7	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Benzene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Bromobenzene	ND	*	1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Bromoform	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Bromomethane	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Chlorobenzene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Chlorodibromomethane	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Chloroethane	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Chloroform	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Chloromethane	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
cis-1,2-Dichloroethene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1

Client Sample ID: DG-Q3S-3.5-4

Date Collected: 12/18/18 10:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Dibromomethane	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Dichlorobromomethane	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Ethylbenzene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Ethylene Dibromide	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Isopropylbenzene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Methylene Chloride	ND		6.9	3.5	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Naphthalene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
N-Propylbenzene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Styrene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Tetrachloroethene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Toluene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
trans-1,2-Dichloroethene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
trans-1,3-Dichloropropene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Trichloroethene	ND		0.69	0.35	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		12/18/18 19:30	12/22/18 13:56	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		12/18/18 19:30	12/22/18 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*12/18/18 19:30*	*12/22/18 13:56*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/18/18 19:30*	*12/22/18 13:56*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Anthracene	ND		5.0	2.0	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Benzo[a]pyrene	**2.5**	**J**	5.0	1.9	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Benzo[b]fluoranthene	**3.3**	**J B**	5.0	2.1	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Chrysene	ND		5.0	1.4	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Fluoranthene	**1.6**	**J**	5.0	1.4	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Fluorene	ND		5.0	2.2	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/20/18 16:21	12/28/18 05:04	1
Pyrene	ND		5.0	1.7	ug/Kg		12/20/18 16:21	12/28/18 05:04	1

Client Sample ID: DG-Q3S-3.5-4

Date Collected: 12/18/18 10:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/20/18 16:21*	*12/28/18 05:04*	*1*
Terphenyl-d14	*90*		*35 - 146*	*12/20/18 16:21*	*12/28/18 05:04*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.5**	**B**	2.0	0.75	mg/Kg		12/20/18 09:45	12/21/18 00:01	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 09:45	12/21/18 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*93*		*40 - 130*	*12/20/18 09:45*	*12/21/18 00:01*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Aldrin	ND		1.9	0.48	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
delta-BHC	ND		1.9	0.43	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Endosulfan II	ND		1.9	0.48	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Endrin	ND		1.9	0.45	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Heptachlor	ND		1.9	0.45	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/28/18 08:29	12/29/18 14:14	1
Toxaphene	ND		39	6.6	ug/Kg		12/28/18 08:29	12/29/18 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*12/28/18 08:29*	*12/29/18 14:14*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*12/28/18 08:29*	*12/29/18 14:14*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/18 14:02	12/24/18 18:27	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/18 14:02	12/24/18 18:27	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/18 14:02	12/24/18 18:27	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/18 14:02	12/24/18 18:27	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/18 14:02	12/24/18 18:27	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/18 14:02	12/24/18 18:27	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/18 14:02	12/24/18 18:27	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-Q3S-3.5-4

Date Collected: 12/18/18 10:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*	*12/20/18 14:02*	*12/24/18 18:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.6**		1.0	0.17	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Arsenic	**2.5**		2.0	0.17	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Barium	**23**		1.0	0.14	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Beryllium	**0.17**	**J**	0.20	0.065	mg/Kg		12/19/18 15:49	12/27/18 20:40	4
Cadmium	**0.18**	**J**	0.25	0.025	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Chromium	**45**		1.0	0.11	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Cobalt	**7.9**		0.40	0.040	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Copper	**6.2**		3.0	1.4	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Lead	**2.6**		1.0	0.21	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Molybdenum	**0.34**	**J**	1.0	0.13	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Nickel	**32**		1.0	0.10	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Selenium	**0.72**	**J**	2.0	0.30	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Silver	ND		0.50	0.10	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Thallium	ND		1.0	0.29	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Vanadium	**39**		1.0	0.14	mg/Kg		12/19/18 15:49	12/27/18 00:01	4
Zinc	**23**		3.0	1.3	mg/Kg		12/19/18 15:49	12/27/18 00:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J B**	0.015	0.0022	mg/Kg		12/19/18 12:26	01/03/19 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.0**		0.1	0.05	%			12/20/18 09:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-S3S-0.5-1

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	56	ug/Kg		12/18/18 19:30	12/22/18 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*12/18/18 19:30*	*12/22/18 14:23*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*12/18/18 19:30*	*12/22/18 14:23*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/18/18 19:30*	*12/22/18 14:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,1,1-Trichloroethane	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	4.0	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,1,2-Trichloroethane	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,1-Dichloroethane	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,1-Dichloropropene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,2,4-Trichlorobenzene	ND		4.0	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,2-Dichlorobenzene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,2-Dichloroethane	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,2-Dichloropropane	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,3-Dichlorobenzene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,3-Dichloropropane	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
1,4-Dichlorobenzene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
2-Butanone (MEK)	ND		7.9	4.0	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
2-Hexanone	ND		7.9	4.0	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
4-Isopropyltoluene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Benzene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Bromobenzene	ND	*	1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Bromoform	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Bromomethane	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Chlorobenzene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Chlorodibromomethane	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Chloroethane	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Chloroform	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Chloromethane	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
cis-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1

Client Sample ID: DG-S3S-0.5-1

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Dibromomethane	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Dichlorobromomethane	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Ethylbenzene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Ethylene Dibromide	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Isopropylbenzene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Methylene Chloride	ND		7.9	4.0	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Naphthalene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
N-Propylbenzene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Styrene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Tetrachloroethene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Toluene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
trans-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
trans-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Trichloroethene	ND		0.79	0.40	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		12/18/18 19:30	12/22/18 14:23	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		12/18/18 19:30	12/22/18 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*12/18/18 19:30*	*12/22/18 14:23*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/18/18 19:30*	*12/22/18 14:23*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**22**		9.9	5.0	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Acenaphthylene	**8.9**		5.0	2.4	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Anthracene	**12**		5.0	2.0	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Benzo[a]anthracene	**21**		5.0	1.5	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Benzo[a]pyrene	**28**		5.0	1.9	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Benzo[b]fluoranthene	**42**	**B**	5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Benzo[g,h,i]perylene	**18**		5.0	4.3	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Benzo[k]fluoranthene	**13**		5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Chrysene	**30**		5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Dibenz(a,h)anthracene	**5.1**		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Fluoranthene	**42**		5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Fluorene	ND		5.0	2.2	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Indeno[1,2,3-cd]pyrene	**15**		5.0	4.2	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Naphthalene	**17**		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Phenanthrene	**31**		5.0	1.8	ug/Kg		12/24/18 10:19	12/28/18 16:18	1
Pyrene	**57**		5.0	1.7	ug/Kg		12/24/18 10:19	12/28/18 16:18	1

Client Sample ID: DG-S3S-0.5-1

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-10

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		33 - 120	12/24/18 10:19	12/28/18 16:18	1
Terphenyl-d14	84		35 - 146	12/24/18 10:19	12/28/18 16:18	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	90	B	2.0	0.75	mg/Kg		12/20/18 09:45	12/21/18 03:21	1
Motor Oil Range Organics [C24-C36]	230		50	9.9	mg/Kg		12/20/18 09:45	12/21/18 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	74		40 - 130	12/20/18 09:45	12/21/18 03:21	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Aldrin	ND		2.0	0.49	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Endrin	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/20/18 09:20	12/28/18 10:30	1
Toxaphene	ND		39	6.7	ug/Kg		12/20/18 09:20	12/28/18 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		21 - 136	12/20/18 09:20	12/28/18 10:30	1
Tetrachloro-m-xylene	94		21 - 145	12/20/18 09:20	12/28/18 10:30	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:04	1
Aroclor 1221	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:04	1
Aroclor 1232	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:04	1
Aroclor 1242	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:04	1
Aroclor 1248	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:04	1
Aroclor 1254	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:04	1
Aroclor 1260	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:04	1

Client Sample ID: DG-S3S-0.5-1

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*12/27/18 18:48*	*12/28/18 12:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**10**		1.8	0.30	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Arsenic	**210**		3.6	0.31	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Barium	**58**		1.8	0.26	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Beryllium	ND		0.36	0.12	mg/Kg		12/19/18 15:49	12/27/18 20:45	4
Cadmium	**0.98**		0.45	0.045	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Chromium	**12**		1.8	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Cobalt	**12**		0.73	0.073	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Copper	**170**		5.5	2.6	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Lead	**290**		1.8	0.38	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Molybdenum	**0.63**	**J**	1.8	0.23	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Nickel	**24**		1.8	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Selenium	**0.99**	**J**	3.6	0.55	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Silver	**0.24**	**J B**	0.91	0.18	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Thallium	ND		1.8	0.53	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Vanadium	**78**		1.8	0.25	mg/Kg		12/19/18 15:49	12/27/18 00:15	4
Zinc	**170**		5.5	2.3	mg/Kg		12/19/18 15:49	12/27/18 00:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**	**B**	0.016	0.0023	mg/Kg		12/19/18 12:26	01/03/19 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.5**		0.1	0.05	%			12/20/18 09:34	1

Client Sample ID: DG-S3S-3.5-4

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND	*	98	68	ug/Kg		12/18/18 21:00	12/24/18 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*	*	*60 - 120*	*12/18/18 21:00*	*12/24/18 13:08*	*1*
4-Bromofluorobenzene (Surr)	*114*	*	*79 - 120*	*12/18/18 21:00*	*12/24/18 13:08*	*1*
Toluene-d8 (Surr)	*117*	*	*79 - 123*	*12/18/18 21:00*	*12/24/18 13:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,1,1-Trichloroethane	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,1,2,2-Tetrachloroethane	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	8.7	4.4	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,1,2-Trichloroethane	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,1-Dichloroethane	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,1-Dichloroethene	ND	*	1.7	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,1-Dichloropropene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,2,3-Trichlorobenzene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,2,3-Trichloropropane	ND	*	8.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,2,4-Trichlorobenzene	ND	*	4.4	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,2,4-Trimethylbenzene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,2-Dibromo-3-Chloropropane	ND	*	4.4	1.7	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,2-Dichlorobenzene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,2-Dichloroethane	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,2-Dichloropropane	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,3,5-Trimethylbenzene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,3-Dichlorobenzene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,3-Dichloropropane	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
1,4-Dichlorobenzene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
2,2-Dichloropropane	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
2-Butanone (MEK)	ND	*	8.7	4.4	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
2-Chlorotoluene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
2-Hexanone	ND	*	8.7	4.4	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
4-Chlorotoluene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
4-Isopropyltoluene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
4-Methyl-2-pentanone (MIBK)	ND	*	4.4	2.2	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Benzene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Bromobenzene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Bromoform	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Bromomethane	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Carbon disulfide	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Carbon tetrachloride	ND	*	1.7	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Chlorobenzene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Chlorobromomethane	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Chlorodibromomethane	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Chloroethane	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Chloroform	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Chloromethane	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
cis-1,2-Dichloroethene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1

Client Sample ID: DG-S3S-3.5-4

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Dibromomethane	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Dichlorobromomethane	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Dichlorodifluoromethane	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Ethylbenzene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Ethylene Dibromide	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Hexachlorobutadiene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Isopropylbenzene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Methyl tert-butyl ether	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Methylene Chloride	ND	*	8.7	4.4	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Naphthalene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
n-Butylbenzene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
N-Propylbenzene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
sec-Butylbenzene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Styrene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
tert-Butylbenzene	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Tetrachloroethene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Toluene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
trans-1,2-Dichloroethene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
trans-1,3-Dichloropropene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Trichloroethene	ND	*	0.87	0.44	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Trichlorofluoromethane	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Vinyl acetate	ND	*	7.0	3.5	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Vinyl chloride	ND	*	1.7	0.87	ug/Kg		12/18/18 19:30	12/22/18 14:51	1
Xylenes, Total	ND	*	1.7	1.1	ug/Kg		12/18/18 19:30	12/22/18 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*	*	*70 - 130*	*12/18/18 19:30*	*12/22/18 14:51*	*1*
Toluene-d8 (Surr)	*109*	*	*79 - 123*	*12/18/18 19:30*	*12/22/18 14:51*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	99	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Acenaphthene	ND		99	56	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Acenaphthylene	ND		99	48	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Anthracene	ND		99	40	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Benzo[a]anthracene	**31**	**J**	99	30	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Benzo[a]pyrene	**84**	**J**	99	38	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Benzo[b]fluoranthene	**130**	**B**	99	42	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Benzo[g,h,i]perylene	ND		99	86	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Benzo[k]fluoranthene	**43**	**J**	99	42	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Chrysene	**70**	**J**	99	28	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Dibenz(a,h)anthracene	ND		99	70	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Fluoranthene	**75**	**J**	99	28	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Fluorene	ND		99	44	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Indeno[1,2,3-cd]pyrene	ND		99	84	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Naphthalene	ND		99	70	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Phenanthrene	**97**	**J**	99	36	ug/Kg		12/24/18 10:19	12/29/18 07:53	20
Pyrene	**81**	**J**	99	34	ug/Kg		12/24/18 10:19	12/29/18 07:53	20

Client Sample ID: DG-S3S-3.5-4

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-11

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		33 - 120	12/24/18 10:19	12/29/18 07:53	20
Terphenyl-d14	91		35 - 146	12/24/18 10:19	12/29/18 07:53	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	740	B	50	19	mg/Kg		12/20/18 09:45	12/21/18 04:05	10
Motor Oil Range Organics [C24-C36]	4700		1200	250	mg/Kg		12/20/18 09:45	12/21/18 04:05	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	12/20/18 09:45	12/21/18 04:05	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	1.2	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
4,4'-DDE	ND		3.9	0.82	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
4,4'-DDT	ND		3.9	0.80	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Aldrin	ND		3.9	0.98	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
alpha-BHC	ND		3.9	1.1	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
alpha-Chlordane	ND		3.9	0.78	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
beta-BHC	ND		3.9	0.70	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Chlordane (n.o.s.)	ND		78	5.7	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Chlordane (technical)	ND		78	6.2	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
delta-BHC	ND		3.9	0.86	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Dieldrin	ND		3.9	1.2	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Endosulfan I	ND		3.9	0.62	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Endosulfan II	ND		3.9	0.96	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Endosulfan sulfate	ND		3.9	0.74	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Endrin	ND		3.9	0.90	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Endrin ketone	ND		3.9	0.64	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
gamma-Chlordane	ND		3.9	0.90	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Heptachlor	ND		3.9	0.90	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Heptachlor epoxide	ND		3.9	0.68	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Methoxychlor	ND		3.9	1.3	ug/Kg		12/20/18 09:20	12/28/18 10:48	2
Toxaphene	ND		78	13	ug/Kg		12/20/18 09:20	12/28/18 10:48	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		21 - 136	12/20/18 09:20	12/28/18 10:48	2
Tetrachloro-m-xylene	89		21 - 145	12/20/18 09:20	12/28/18 10:48	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 13:44	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 13:44	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 13:44	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 13:44	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 13:44	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 13:44	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 13:44	1

Client Sample ID: DG-S3S-3.5-4

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*12/27/18 18:48*	*12/28/18 13:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2		1.6	0.26	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Arsenic	48		3.2	0.27	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Barium	73		1.6	0.23	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Beryllium	0.44		0.32	0.10	mg/Kg		12/19/18 15:49	12/27/18 20:50	4
Cadmium	0.37	J	0.40	0.039	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Chromium	86		1.6	0.17	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Cobalt	20		0.63	0.063	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Copper	36		4.8	2.3	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Lead	82		1.6	0.33	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Molybdenum	0.43	J	1.6	0.20	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Nickel	130		1.6	0.16	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Selenium	1.2	J	3.2	0.48	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Silver	ND		0.79	0.16	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Thallium	ND		1.6	0.46	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Vanadium	64		1.6	0.22	mg/Kg		12/19/18 15:49	12/27/18 00:20	4
Zinc	76		4.8	2.0	mg/Kg		12/19/18 15:49	12/27/18 00:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.3	B	0.15	0.022	mg/Kg		12/19/18 12:26	01/03/19 17:07	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.05	%			12/20/18 09:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-U3S-0.5-1

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-12

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	60	ug/Kg		12/18/18 20:00	12/21/18 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*12/18/18 20:00*	*12/21/18 13:22*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*12/18/18 20:00*	*12/21/18 13:22*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*	*12/18/18 20:00*	*12/21/18 13:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,1,1-Trichloroethane	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.3	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,1,2-Trichloroethane	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,1-Dichloroethane	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,1-Dichloropropene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,2,4-Trichlorobenzene	ND		4.3	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,2-Dichlorobenzene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,2-Dichloroethane	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,2-Dichloropropane	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,3-Dichlorobenzene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,3-Dichloropropane	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
1,4-Dichlorobenzene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
2-Butanone (MEK)	ND		8.5	4.3	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
2-Hexanone	ND		8.5	4.3	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
4-Isopropyltoluene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Benzene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Bromobenzene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Bromoform	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Bromomethane	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Chlorobenzene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Chlorodibromomethane	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Chloroethane	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Chloroform	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Chloromethane	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
cis-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1

Client Sample ID: DG-U3S-0.5-1

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Dibromomethane	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Dichlorobromomethane	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Ethylbenzene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Ethylene Dibromide	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Isopropylbenzene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Methylene Chloride	ND		8.5	4.3	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Naphthalene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
N-Propylbenzene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Styrene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Tetrachloroethene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Toluene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
trans-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
trans-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Trichloroethene	ND		0.85	0.43	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		12/18/18 20:00	12/21/18 13:22	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*	*12/18/18 20:00*	*12/21/18 13:22*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*	*12/18/18 20:00*	*12/21/18 13:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**70**		20	10	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Acenaphthene	ND		10	5.6	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Acenaphthylene	**26**		10	4.8	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Anthracene	**65**		10	4.0	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Benzo[a]anthracene	**55**		10	3.0	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Benzo[a]pyrene	**61**		10	3.8	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Benzo[b]fluoranthene	**130**	**B**	10	4.2	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Benzo[g,h,i]perylene	**32**		10	8.6	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Benzo[k]fluoranthene	**47**		10	4.2	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Chrysene	**81**		10	2.8	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Dibenz(a,h)anthracene	**11**		10	7.0	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Fluoranthene	**130**		10	2.8	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Fluorene	**5.2**	**J**	10	4.4	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Indeno[1,2,3-cd]pyrene	**32**		10	8.4	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Naphthalene	**72**		10	7.0	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Phenanthrene	**110**		10	3.6	ug/Kg		12/24/18 10:19	12/29/18 08:16	2
Pyrene	**130**		10	3.4	ug/Kg		12/24/18 10:19	12/29/18 08:16	2

Client Sample ID: DG-U3S-0.5-1

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-12

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		33 - 120	12/24/18 10:19	12/29/18 08:16	2
Terphenyl-d14	100		35 - 146	12/24/18 10:19	12/29/18 08:16	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**98**	**B**	4.0	1.5	mg/Kg		12/20/18 09:45	12/21/18 04:48	2
Motor Oil Range Organics [C24-C36]	**220**		100	20	mg/Kg		12/20/18 09:45	12/21/18 04:48	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	99		40 - 130	12/20/18 09:45	12/21/18 04:48	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
4,4'-DDT	**7.1**	**p**	1.9	0.39	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Aldrin	ND		1.9	0.47	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Chlordane (technical)	ND		38	3.0	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Endosulfan I	ND		1.9	0.30	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Endosulfan II	ND		1.9	0.46	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Endrin	ND		1.9	0.44	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/20/18 09:20	12/28/18 11:07	1
Toxaphene	ND		38	6.5	ug/Kg		12/20/18 09:20	12/28/18 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	128		21 - 136	12/20/18 09:20	12/28/18 11:07	1
Tetrachloro-m-xylene	90		21 - 145	12/20/18 09:20	12/28/18 11:07	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:30	1
Aroclor 1221	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:30	1
Aroclor 1232	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:30	1
Aroclor 1242	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:30	1
Aroclor 1248	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:30	1
Aroclor 1254	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:30	1
Aroclor 1260	**33**	**J**	49	17	ug/Kg		12/27/18 18:48	12/28/18 12:30	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-U3S-0.5-1

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*12/27/18 18:48*	*12/28/18 12:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0		1.8	0.30	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Arsenic	200		3.7	0.31	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Barium	99		1.8	0.26	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Beryllium	0.17	J	0.37	0.12	mg/Kg		12/19/18 15:49	12/27/18 21:04	4
Cadmium	2.0		0.46	0.046	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Chromium	25		1.8	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Cobalt	11		0.73	0.073	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Copper	200		5.5	2.6	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Lead	1600		1.8	0.39	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Molybdenum	1.4	J	1.8	0.23	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Nickel	31		1.8	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Selenium	1.2	J	3.7	0.55	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Silver	0.58	J B	0.92	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Thallium	ND		1.8	0.53	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Vanadium	60		1.8	0.25	mg/Kg		12/19/18 15:49	12/27/18 00:25	4
Zinc	420		5.5	2.3	mg/Kg		12/19/18 15:49	12/27/18 00:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30	B	0.015	0.0022	mg/Kg		12/19/18 12:26	01/03/19 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.05	%			12/20/18 09:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-U3S-3.5-4
Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-13
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		110	77	ug/Kg		12/18/18 20:00	12/21/18 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*12/18/18 20:00*	*12/21/18 13:49*	*1*
4-Bromofluorobenzene (Surr)	*118*		*79 - 120*	*12/18/18 20:00*	*12/21/18 13:49*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/18/18 20:00*	*12/21/18 13:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,1,1-Trichloroethane	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,1,2,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.5	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,1,2-Trichloroethane	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,1-Dichloroethane	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,1-Dichloroethene	ND		2.2	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,1-Dichloropropene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,2,3-Trichlorobenzene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,2,4-Trichlorobenzene	ND		5.5	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,2,4-Trimethylbenzene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,2-Dibromo-3-Chloropropane	ND		5.5	2.2	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,2-Dichlorobenzene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,2-Dichloroethane	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,2-Dichloropropane	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,3,5-Trimethylbenzene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,3-Dichlorobenzene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,3-Dichloropropane	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
1,4-Dichlorobenzene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
2,2-Dichloropropane	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
2-Butanone (MEK)	ND		11	5.5	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
2-Chlorotoluene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
2-Hexanone	ND		11	5.5	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
4-Chlorotoluene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
4-Isopropyltoluene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.5	2.8	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Benzene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Bromobenzene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Bromoform	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Bromomethane	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Carbon disulfide	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Carbon tetrachloride	ND		2.2	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Chlorobenzene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Chlorobromomethane	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Chlorodibromomethane	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Chloroethane	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Chloroform	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Chloromethane	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
cis-1,2-Dichloroethene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1

Client Sample ID: DG-U3S-3.5-4

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-13

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Dibromomethane	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Dichlorobromomethane	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Dichlorodifluoromethane	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Ethylbenzene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Ethylene Dibromide	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Hexachlorobutadiene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Isopropylbenzene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Methyl tert-butyl ether	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Methylene Chloride	ND		11	5.5	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Naphthalene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
n-Butylbenzene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
N-Propylbenzene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
sec-Butylbenzene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Styrene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
tert-Butylbenzene	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Tetrachloroethene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Toluene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
trans-1,2-Dichloroethene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
trans-1,3-Dichloropropene	ND		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Trichloroethene	**2.3**		1.1	0.55	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Trichlorofluoromethane	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Vinyl acetate	ND		8.8	4.4	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Vinyl chloride	ND		2.2	1.1	ug/Kg		12/18/18 20:00	12/21/18 13:49	1
Xylenes, Total	ND		2.2	1.4	ug/Kg		12/18/18 20:00	12/21/18 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*12/18/18 20:00*	*12/21/18 13:49*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/18/18 20:00*	*12/21/18 13:49*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**130**		9.9	5.0	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Acenaphthene	**20**		5.0	2.8	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Acenaphthylene	**11**		5.0	2.4	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Anthracene	**27**		5.0	2.0	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Benzo[a]anthracene	**16**		5.0	1.5	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Benzo[a]pyrene	**10**		5.0	1.9	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Benzo[b]fluoranthene	**110**	**B**	5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Benzo[g,h,i]perylene	**17**		5.0	4.3	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Benzo[k]fluoranthene	**13**		5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Chrysene	**130**		5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Dibenz(a,h)anthracene	**14**		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Fluoranthene	**140**		5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Fluorene	**12**		5.0	2.2	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Indeno[1,2,3-cd]pyrene	**13**		5.0	4.2	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Naphthalene	**280**		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Phenanthrene	**650**		5.0	1.8	ug/Kg		12/24/18 10:19	12/28/18 07:48	1
Pyrene	**70**		5.0	1.7	ug/Kg		12/24/18 10:19	12/28/18 07:48	1

Client Sample ID: DG-U3S-3.5-4

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-13

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120	12/24/18 10:19	12/28/18 07:48	1
Terphenyl-d14	91		35 - 146	12/24/18 10:19	12/28/18 07:48	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12	B	2.0	0.75	mg/Kg		12/20/18 09:45	12/21/18 02:51	1
Motor Oil Range Organics [C24-C36]	36	J	50	9.9	mg/Kg		12/20/18 09:45	12/21/18 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	92		40 - 130	12/20/18 09:45	12/21/18 02:51	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Aldrin	ND		2.0	0.49	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Endrin	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/20/18 09:20	12/28/18 11:25	1
Toxaphene	ND		39	6.7	ug/Kg		12/20/18 09:20	12/28/18 11:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		21 - 136	12/20/18 09:20	12/28/18 11:25	1
Tetrachloro-m-xylene	75		21 - 145	12/20/18 09:20	12/28/18 11:25	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:43	1
Aroclor 1221	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:43	1
Aroclor 1232	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:43	1
Aroclor 1242	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:43	1
Aroclor 1248	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:43	1
Aroclor 1254	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:43	1
Aroclor 1260	ND		49	17	ug/Kg		12/27/18 18:48	12/28/18 12:43	1

Client Sample ID: DG-U3S-3.5-4

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*12/27/18 18:48*	*12/28/18 12:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**		1.1	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Arsenic	**65**		2.3	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Barium	**36**		1.1	0.16	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Beryllium	**0.92**		0.23	0.074	mg/Kg		12/19/18 15:49	12/27/18 21:08	4
Cadmium	**0.30**		0.29	0.028	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Chromium	**32**		1.1	0.12	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Cobalt	**15**		0.46	0.046	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Copper	**49**		3.4	1.6	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Lead	**12**		1.1	0.24	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Molybdenum	**0.61**	**J**	1.1	0.15	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Nickel	**40**		1.1	0.12	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Selenium	**0.60**	**J**	2.3	0.34	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Silver	ND		0.57	0.12	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Thallium	ND		1.1	0.33	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Vanadium	**35**		1.1	0.16	mg/Kg		12/19/18 15:49	12/27/18 00:29	4
Zinc	**90**		3.4	1.5	mg/Kg		12/19/18 15:49	12/27/18 00:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**	**B**	0.015	0.0021	mg/Kg		12/19/18 12:26	01/03/19 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.05	%			12/20/18 09:34	1

Client Sample ID: DUP-15

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-14

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	180		73	51	ug/Kg		12/18/18 20:00	12/21/18 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*12/18/18 20:00*	*12/21/18 14:15*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*12/18/18 20:00*	*12/21/18 14:15*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*12/18/18 20:00*	*12/21/18 14:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
2-Hexanone	ND		7.3	3.6	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
4-Isopropyltoluene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Benzene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Bromobenzene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Bromoform	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Bromomethane	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Chloroethane	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Chloroform	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Chloromethane	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1

Client Sample ID: DUP-15

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-14

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Dibromomethane	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Naphthalene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Styrene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Tetrachloroethene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Toluene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Trichloroethene	**2.1**		0.73	0.36	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		12/18/18 20:00	12/21/18 14:15	1
Xylenes, Total	ND		1.5	0.94	ug/Kg		12/18/18 20:00	12/21/18 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*	*12/18/18 20:00*	*12/21/18 14:15*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*12/18/18 20:00*	*12/21/18 14:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	100	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Acenaphthene	ND		100	56	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Acenaphthylene	ND		100	48	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Anthracene	**110**		100	40	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Benzo[a]anthracene	**79**	**J**	100	30	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Benzo[a]pyrene	**140**		100	38	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Benzo[b]fluoranthene	**210**	**B**	100	42	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Benzo[g,h,i]perylene	**110**		100	86	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Benzo[k]fluoranthene	**75**	**J**	100	42	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Chrysene	**120**		100	28	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Dibenz(a,h)anthracene	**70**	**J**	100	70	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Fluoranthene	**140**		100	28	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Fluorene	ND		100	44	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Indeno[1,2,3-cd]pyrene	ND		100	84	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Naphthalene	**92**	**J**	100	70	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Phenanthrene	**230**		100	36	ug/Kg		12/24/18 10:19	12/29/18 04:24	20
Pyrene	**140**		100	34	ug/Kg		12/24/18 10:19	12/29/18 04:24	20

Client Sample ID: DUP-15

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*12/24/18 10:19*	*12/29/18 04:24*	*20*
Terphenyl-d14	*112*		*35 - 146*	*12/24/18 10:19*	*12/29/18 04:24*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**330**	**B**	20	7.5	mg/Kg		12/20/18 09:45	12/21/18 04:29	10
Motor Oil Range Organics [C24-C36]	**2200**		500	100	mg/Kg		12/20/18 09:45	12/21/18 04:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/20/18 09:45*	*12/21/18 04:29*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.3**		1.7	0.28	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Arsenic	**84**		3.3	0.28	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Barium	**64**		1.7	0.24	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Beryllium	**0.46**		0.33	0.11	mg/Kg		12/19/18 15:49	12/27/18 21:13	4
Cadmium	**0.35**	**J**	0.42	0.041	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Chromium	**79**		1.7	0.18	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Cobalt	**19**		0.67	0.067	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Copper	**34**		5.0	2.4	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Lead	**25**		1.7	0.35	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Molybdenum	**0.59**	**J**	1.7	0.21	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Nickel	**100**		1.7	0.17	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Selenium	ND		3.3	0.50	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Silver	ND		0.83	0.17	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Thallium	ND		1.7	0.48	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Vanadium	**53**		1.7	0.23	mg/Kg		12/19/18 15:49	12/27/18 00:34	4
Zinc	**69**		5.0	2.1	mg/Kg		12/19/18 15:49	12/27/18 00:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.47**		0.015	0.0022	mg/Kg		12/19/18 14:09	01/03/19 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.05	%			12/20/18 10:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-W3S-0.5-1
Date Collected: 12/18/18 14:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-15
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		87	61	ug/Kg		12/18/18 20:00	12/21/18 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*12/18/18 20:00*	*12/21/18 14:42*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*	*12/18/18 20:00*	*12/21/18 14:42*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*12/18/18 20:00*	*12/21/18 14:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,1,1-Trichloroethane	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.7	4.4	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,1,2-Trichloroethane	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,1-Dichloroethane	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,1-Dichloroethene	ND		1.7	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,1-Dichloropropene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,2,3-Trichlorobenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,2,3-Trichloropropane	ND		8.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,2,4-Trichlorobenzene	ND		4.4	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,2,4-Trimethylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.7	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,2-Dichlorobenzene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,2-Dichloroethane	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,2-Dichloropropane	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,3,5-Trimethylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,3-Dichlorobenzene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,3-Dichloropropane	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
1,4-Dichlorobenzene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
2,2-Dichloropropane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
2-Butanone (MEK)	ND		8.7	4.4	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
2-Chlorotoluene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
2-Hexanone	ND		8.7	4.4	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
4-Chlorotoluene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
4-Isopropyltoluene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Benzene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Bromobenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Bromoform	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Bromomethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Carbon disulfide	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Carbon tetrachloride	ND		1.7	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Chlorobenzene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Chlorobromomethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Chlorodibromomethane	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Chloroethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Chloroform	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Chloromethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
cis-1,2-Dichloroethene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1

Client Sample ID: DG-W3S-0.5-1

Date Collected: 12/18/18 14:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Dibromomethane	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Dichlorobromomethane	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Dichlorodifluoromethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Ethylbenzene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Ethylene Dibromide	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Hexachlorobutadiene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Isopropylbenzene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Methyl tert-butyl ether	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Methylene Chloride	ND		8.7	4.4	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Naphthalene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
n-Butylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
N-Propylbenzene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
sec-Butylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Styrene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
tert-Butylbenzene	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Tetrachloroethene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Toluene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
trans-1,2-Dichloroethene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
trans-1,3-Dichloropropene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Trichloroethene	ND		0.87	0.44	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Trichlorofluoromethane	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Vinyl chloride	ND		1.7	0.87	ug/Kg		12/18/18 20:00	12/21/18 14:42	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/18/18 20:00	12/21/18 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*12/18/18 20:00*	*12/21/18 14:42*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*12/18/18 20:00*	*12/21/18 14:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		50	25	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Acenaphthene	ND		25	14	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Acenaphthylene	**15**	**J**	25	12	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Anthracene	**32**		25	9.9	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Benzo[a]anthracene	**27**		25	7.5	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Benzo[a]pyrene	**36**		25	9.4	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Benzo[b]fluoranthene	**45**	**B**	25	10	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Benzo[g,h,i]perylene	**25**		25	21	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Benzo[k]fluoranthene	**21**	**J**	25	10	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Chrysene	**25**		25	7.0	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Dibenz(a,h)anthracene	ND		25	17	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Fluoranthene	**44**		25	7.0	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Fluorene	ND		25	11	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Indeno[1,2,3-cd]pyrene	ND		25	21	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Naphthalene	**17**	**J**	25	17	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Phenanthrene	**26**		25	8.9	ug/Kg		12/24/18 10:19	12/29/18 04:47	5
Pyrene	**55**		25	8.4	ug/Kg		12/24/18 10:19	12/29/18 04:47	5

Client Sample ID: DG-W3S-0.5-1

Date Collected: 12/18/18 14:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*12/24/18 10:19*	*12/29/18 04:47*	*5*
Terphenyl-d14	*107*		*35 - 146*	*12/24/18 10:19*	*12/29/18 04:47*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**62**	**B**	2.0	0.74	mg/Kg		12/20/18 11:14	12/24/18 14:54	1
Motor Oil Range Organics [C24-C36]	**160**		50	9.9	mg/Kg		12/20/18 11:14	12/24/18 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*68*		*40 - 130*	*12/20/18 11:14*	*12/24/18 14:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.7**		1.4	0.23	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Arsenic	**140**		2.8	0.24	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Barium	**34**		1.4	0.20	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Beryllium	ND		0.28	0.090	mg/Kg		12/19/18 15:49	12/27/18 21:18	4
Cadmium	**0.46**		0.35	0.034	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Chromium	**12**		1.4	0.15	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Cobalt	**12**		0.56	0.056	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Copper	**99**		4.2	2.0	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Lead	**120**		1.4	0.29	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Molybdenum	**0.50**	**J**	1.4	0.18	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Nickel	**12**		1.4	0.14	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Selenium	**0.77**	**J**	2.8	0.42	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Silver	**0.31**	**J B**	0.69	0.14	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Thallium	ND		1.4	0.40	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Vanadium	**66**		1.4	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:39	4
Zinc	**92**		4.2	1.8	mg/Kg		12/19/18 15:49	12/27/18 00:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.078**		0.015	0.0021	mg/Kg		12/19/18 14:09	01/03/19 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.2**		0.1	0.05	%			12/20/18 10:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-W3S-3.5-4
Date Collected: 12/18/18 14:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-16
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		120	85	ug/Kg		12/18/18 20:00	12/21/18 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*12/18/18 20:00*	*12/21/18 15:08*	*1*
4-Bromofluorobenzene (Surr)	*119*		*79 - 120*	*12/18/18 20:00*	*12/21/18 15:08*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*12/18/18 20:00*	*12/21/18 15:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,1,1-Trichloroethane	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,1,2,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	6.1	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,1,2-Trichloroethane	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,1-Dichloroethane	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,1-Dichloroethene	ND		2.4	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,1-Dichloropropene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,2,3-Trichlorobenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,2,3-Trichloropropane	ND		12	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,2,4-Trichlorobenzene	ND		6.1	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,2,4-Trimethylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,2-Dibromo-3-Chloropropane	ND		6.1	2.4	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,2-Dichlorobenzene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,2-Dichloroethane	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,2-Dichloropropane	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,3,5-Trimethylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,3-Dichlorobenzene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,3-Dichloropropane	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
1,4-Dichlorobenzene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
2,2-Dichloropropane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
2-Butanone (MEK)	ND		12	6.1	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
2-Chlorotoluene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
2-Hexanone	ND		12	6.1	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
4-Chlorotoluene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
4-Isopropyltoluene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
4-Methyl-2-pentanone (MIBK)	ND		6.1	3.0	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Benzene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Bromobenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Bromoform	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Bromomethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Carbon disulfide	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Carbon tetrachloride	ND		2.4	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Chlorobenzene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Chlorobromomethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Chlorodibromomethane	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Chloroethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Chloroform	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Chloromethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
cis-1,2-Dichloroethene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1

Client Sample ID: DG-W3S-3.5-4

Date Collected: 12/18/18 14:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-16

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Dibromomethane	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Dichlorobromomethane	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Dichlorodifluoromethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Ethylbenzene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Ethylene Dibromide	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Hexachlorobutadiene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Isopropylbenzene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Methyl tert-butyl ether	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Methylene Chloride	ND		12	6.1	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Naphthalene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
n-Butylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
N-Propylbenzene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
sec-Butylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Styrene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
tert-Butylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Tetrachloroethene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Toluene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
trans-1,2-Dichloroethene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
trans-1,3-Dichloropropene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Trichloroethene	ND		1.2	0.61	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Trichlorofluoromethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Vinyl acetate	ND		9.7	4.9	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Vinyl chloride	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 15:08	1
Xylenes, Total	ND		2.4	1.6	ug/Kg		12/18/18 20:00	12/21/18 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*	*12/18/18 20:00*	*12/21/18 15:08*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*12/18/18 20:00*	*12/21/18 15:08*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Anthracene	**2.6**	**J**	5.0	2.0	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Benzo[a]anthracene	**4.8**	**J**	5.0	1.5	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Benzo[a]pyrene	**7.0**		5.0	1.9	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Benzo[b]fluoranthene	**60**	**B**	5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Benzo[g,h,i]perylene	**9.0**		5.0	4.3	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Benzo[k]fluoranthene	**5.2**		5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Chrysene	**60**		5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Dibenz(a,h)anthracene	**6.8**		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Fluoranthene	**27**		5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Fluorene	ND		5.0	2.2	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Indeno[1,2,3-cd]pyrene	**7.0**		5.0	4.2	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Naphthalene	**8.6**		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Phenanthrene	**78**		5.0	1.8	ug/Kg		12/24/18 10:19	12/28/18 06:37	1
Pyrene	**19**		5.0	1.7	ug/Kg		12/24/18 10:19	12/28/18 06:37	1

Client Sample ID: DG-W3S-3.5-4

Date Collected: 12/18/18 14:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*12/24/18 10:19*	*12/28/18 06:37*	*1*
Terphenyl-d14	*88*		*35 - 146*	*12/24/18 10:19*	*12/28/18 06:37*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.4	B	2.0	0.74	mg/Kg		12/20/18 11:14	12/24/18 17:49	1
Motor Oil Range Organics [C24-C36]	12	J	50	9.9	mg/Kg		12/20/18 11:14	12/24/18 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*40 - 130*	*12/20/18 11:14*	*12/24/18 17:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	1.8	0.30	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Arsenic	140		3.6	0.31	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Barium	86		1.8	0.26	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Beryllium	0.99		0.36	0.12	mg/Kg		12/19/18 15:49	12/27/18 21:22	4
Cadmium	0.44	J	0.45	0.045	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Chromium	30		1.8	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Cobalt	32		0.73	0.073	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Copper	55		5.5	2.6	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Lead	21		1.8	0.38	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Molybdenum	0.89	J	1.8	0.23	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Nickel	48		1.8	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Selenium	0.73	J	3.6	0.55	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Silver	ND		0.91	0.18	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Thallium	0.79	J	1.8	0.53	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Vanadium	37		1.8	0.25	mg/Kg		12/19/18 15:49	12/27/18 00:44	4
Zinc	97		5.5	2.3	mg/Kg		12/19/18 15:49	12/27/18 00:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.016	0.0023	mg/Kg		12/19/18 14:09	01/03/19 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.1	0.05	%			12/20/18 10:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-Y3S-0.5-1
Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-17
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		88	61	ug/Kg		12/18/18 20:00	12/21/18 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*12/18/18 20:00*	*12/21/18 15:35*	*1*
4-Bromofluorobenzene (Surr)	*116*		*79 - 120*	*12/18/18 20:00*	*12/21/18 15:35*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*	*12/18/18 20:00*	*12/21/18 15:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
2-Hexanone	ND		8.8	4.4	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Benzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Bromobenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Bromoform	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Bromomethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Chloroethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Chloroform	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Chloromethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1

Client Sample ID: DG-Y3S-0.5-1
Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-17
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Dibromomethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Naphthalene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Styrene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Tetrachloroethene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Toluene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Trichloroethene	ND		0.88	0.44	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		12/18/18 20:00	12/21/18 15:35	1
Xylenes, Total	ND		1.8	1.1	ug/Kg		12/18/18 20:00	12/21/18 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*	*12/18/18 20:00*	*12/21/18 15:35*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*	*12/18/18 20:00*	*12/21/18 15:35*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		500	250	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Acenaphthene	ND		250	140	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Acenaphthylene	ND		250	120	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Anthracene	**140**	**J**	250	100	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Benzo[a]anthracene	**210**	**J**	250	75	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Benzo[a]pyrene	**300**		250	95	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Benzo[b]fluoranthene	**470**	**B**	250	100	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Benzo[g,h,i]perylene	**230**	**J**	250	210	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Benzo[k]fluoranthene	**200**	**J**	250	100	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Chrysene	**200**	**J**	250	70	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Dibenz(a,h)anthracene	ND		250	170	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Fluoranthene	**410**		250	70	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Fluorene	ND		250	110	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Indeno[1,2,3-cd]pyrene	ND		250	210	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Naphthalene	ND		250	170	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Phenanthrene	**210**	**J**	250	90	ug/Kg		12/24/18 10:19	12/29/18 07:06	50
Pyrene	**470**		250	85	ug/Kg		12/24/18 10:19	12/29/18 07:06	50

Client Sample ID: DG-Y3S-0.5-1

Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*33 - 120*	*12/24/18 10:19*	*12/29/18 07:06*	*50*
Terphenyl-d14	*89*		*35 - 146*	*12/24/18 10:19*	*12/29/18 07:06*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	930	B	20	7.5	mg/Kg		12/20/18 11:14	12/24/18 12:57	10
Motor Oil Range Organics [C24-C36]	1900		500	100	mg/Kg		12/20/18 11:14	12/24/18 12:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/20/18 11:14*	*12/24/18 12:57*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12		1.9	0.32	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Arsenic	110		3.8	0.32	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Barium	200		1.9	0.27	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Beryllium	0.12	J	0.38	0.12	mg/Kg		12/19/18 15:49	12/27/18 21:27	4
Cadmium	12		0.48	0.047	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Chromium	82		1.9	0.20	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Cobalt	17		0.76	0.076	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Copper	440		5.7	2.7	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Lead	940		1.9	0.40	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Molybdenum	9.4		1.9	0.24	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Nickel	140		1.9	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Selenium	3.1	J	3.8	0.57	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Silver	1.1	B	0.95	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Thallium	ND		1.9	0.55	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Vanadium	66		1.9	0.26	mg/Kg		12/19/18 15:49	12/27/18 00:49	4
Zinc	1500		5.7	2.4	mg/Kg		12/19/18 15:49	12/27/18 00:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.017	0.0025	mg/Kg		12/19/18 14:09	01/03/19 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			12/20/18 10:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-Y3S-3.5-4
Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-18
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		97	68	ug/Kg		12/18/18 20:00	12/21/18 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*12/18/18 20:00*	*12/21/18 16:01*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*	*12/18/18 20:00*	*12/21/18 16:01*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*12/18/18 20:00*	*12/21/18 16:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,1,1-Trichloroethane	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	4.8	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,1,2-Trichloroethane	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,1-Dichloroethane	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,1-Dichloroethene	ND		1.9	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,1-Dichloropropene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,2,3-Trichlorobenzene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,2,3-Trichloropropane	ND		9.7	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,2,4-Trichlorobenzene	ND		4.8	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,2,4-Trimethylbenzene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,2-Dibromo-3-Chloropropane	ND		4.8	1.9	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,2-Dichlorobenzene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,2-Dichloroethane	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,2-Dichloropropane	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,3,5-Trimethylbenzene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,3-Dichlorobenzene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,3-Dichloropropane	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
1,4-Dichlorobenzene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
2,2-Dichloropropane	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
2-Butanone (MEK)	ND		9.7	4.8	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
2-Chlorotoluene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
2-Hexanone	ND		9.7	4.8	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
4-Chlorotoluene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
4-Isopropyltoluene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		4.8	2.4	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Benzene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Bromobenzene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Bromoform	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Bromomethane	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Carbon disulfide	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Carbon tetrachloride	ND		1.9	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Chlorobenzene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Chlorobromomethane	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Chlorodibromomethane	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Chloroethane	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Chloroform	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Chloromethane	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
cis-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1

Client Sample ID: DG-Y3S-3.5-4

Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-18

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Dibromomethane	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Dichlorobromomethane	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Dichlorodifluoromethane	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Ethylbenzene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Ethylene Dibromide	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Hexachlorobutadiene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Isopropylbenzene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Methyl tert-butyl ether	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Methylene Chloride	ND		9.7	4.8	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Naphthalene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
n-Butylbenzene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
N-Propylbenzene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
sec-Butylbenzene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Styrene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
tert-Butylbenzene	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Tetrachloroethene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Toluene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
trans-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
trans-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Trichloroethene	ND		0.97	0.48	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Trichlorofluoromethane	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Vinyl acetate	ND		7.7	3.9	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Vinyl chloride	ND		1.9	0.97	ug/Kg		12/18/18 20:00	12/21/18 16:01	1
Xylenes, Total	ND		1.9	1.3	ug/Kg		12/18/18 20:00	12/21/18 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*	*12/18/18 20:00*	*12/21/18 16:01*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*12/18/18 20:00*	*12/21/18 16:01*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Anthracene	ND		5.0	2.0	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Benzo[a]anthracene	**2.4**	**J**	5.0	1.5	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Benzo[a]pyrene	**4.3**	**J**	5.0	1.9	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Benzo[b]fluoranthene	**25**	**B**	5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Benzo[g,h,i]perylene	**5.3**		5.0	4.3	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Benzo[k]fluoranthene	**2.9**	**J**	5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Chrysene	**22**		5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Fluoranthene	**11**		5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Fluorene	ND		5.0	2.2	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Naphthalene	**7.3**		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Phenanthrene	**35**		5.0	1.8	ug/Kg		12/24/18 10:19	12/28/18 07:01	1
Pyrene	**9.0**		5.0	1.7	ug/Kg		12/24/18 10:19	12/28/18 07:01	1

Client Sample ID: DG-Y3S-3.5-4

Date Collected: 12/18/18 14:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/24/18 10:19*	*12/28/18 07:01*	*1*
Terphenyl-d14	*89*		*35 - 146*	*12/24/18 10:19*	*12/28/18 07:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.1**	**B**	2.0	0.75	mg/Kg		12/20/18 11:14	12/24/18 18:18	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 11:14	12/24/18 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*95*		*40 - 130*	*12/20/18 11:14*	*12/24/18 18:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.5**	**J**	1.8	0.29	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Arsenic	**34**		3.5	0.30	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Barium	**61**		1.8	0.25	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Beryllium	**0.60**		0.35	0.12	mg/Kg		12/19/18 15:49	12/27/18 21:31	4
Cadmium	**0.30**	**J**	0.44	0.044	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Chromium	**33**		1.8	0.19	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Cobalt	**19**		0.71	0.071	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Copper	**32**		5.3	2.5	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Lead	**12**		1.8	0.37	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Molybdenum	**0.44**	**J**	1.8	0.23	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Nickel	**37**		1.8	0.18	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Selenium	**0.68**	**J**	3.5	0.53	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Silver	ND		0.88	0.18	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Thallium	ND		1.8	0.51	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Vanadium	**39**		1.8	0.24	mg/Kg		12/19/18 15:49	12/27/18 00:53	4
Zinc	**73**		5.3	2.2	mg/Kg		12/19/18 15:49	12/27/18 00:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.082**		0.015	0.0022	mg/Kg		12/19/18 14:09	01/03/19 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.05	%			12/20/18 10:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-AA3S-0.5-1

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-19

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		120	84	ug/Kg		12/18/18 20:00	12/21/18 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*12/18/18 20:00*	*12/21/18 16:28*	*1*
4-Bromofluorobenzene (Surr)	*115*		*79 - 120*	*12/18/18 20:00*	*12/21/18 16:28*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/18/18 20:00*	*12/21/18 16:28*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,1,1-Trichloroethane	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,1,2,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	6.0	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,1,2-Trichloroethane	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,1-Dichloroethane	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,1-Dichloroethene	ND		2.4	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,1-Dichloropropene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,2,3-Trichlorobenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,2,3-Trichloropropane	ND		12	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,2,4-Trichlorobenzene	ND		6.0	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,2,4-Trimethylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,2-Dibromo-3-Chloropropane	ND		6.0	2.4	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,2-Dichlorobenzene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,2-Dichloroethane	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,2-Dichloropropane	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,3,5-Trimethylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,3-Dichlorobenzene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,3-Dichloropropane	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
1,4-Dichlorobenzene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
2,2-Dichloropropane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
2-Butanone (MEK)	**35**		12	6.0	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
2-Chlorotoluene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
2-Hexanone	ND		12	6.0	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
4-Chlorotoluene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
4-Isopropyltoluene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
4-Methyl-2-pentanone (MIBK)	ND		6.0	3.0	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Benzene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Bromobenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Bromoform	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Bromomethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Carbon disulfide	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Carbon tetrachloride	ND		2.4	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Chlorobenzene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Chlorobromomethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Chlorodibromomethane	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Chloroethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Chloroform	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Chloromethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
cis-1,2-Dichloroethene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1

Client Sample ID: DG-AA3S-0.5-1

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-19

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Dibromomethane	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Dichlorobromomethane	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Dichlorodifluoromethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Ethylbenzene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Ethylene Dibromide	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Hexachlorobutadiene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Isopropylbenzene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Methyl tert-butyl ether	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Methylene Chloride	ND		12	6.0	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Naphthalene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
n-Butylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
N-Propylbenzene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
sec-Butylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Styrene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
tert-Butylbenzene	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Tetrachloroethene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Toluene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
trans-1,2-Dichloroethene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
trans-1,3-Dichloropropene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Trichloroethene	ND		1.2	0.60	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Trichlorofluoromethane	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Vinyl acetate	ND		9.6	4.8	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Vinyl chloride	ND		2.4	1.2	ug/Kg		12/18/18 20:00	12/21/18 16:28	1
Xylenes, Total	ND		2.4	1.6	ug/Kg		12/18/18 20:00	12/21/18 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*12/18/18 20:00*	*12/21/18 16:28*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/18/18 20:00*	*12/21/18 16:28*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**31**		20	10	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Acenaphthene	ND		10	5.6	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Acenaphthylene	**17**		10	4.8	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Anthracene	**31**		10	4.0	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Benzo[a]anthracene	**80**		10	3.0	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Benzo[a]pyrene	**100**		10	3.8	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Benzo[b]fluoranthene	**150**	**B**	10	4.2	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Benzo[g,h,i]perylene	**57**		10	8.6	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Benzo[k]fluoranthene	**62**		10	4.2	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Chrysene	**99**		10	2.8	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Dibenz(a,h)anthracene	**15**		10	7.0	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Fluoranthene	**130**		10	2.8	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Fluorene	ND		10	4.4	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Indeno[1,2,3-cd]pyrene	**42**		10	8.4	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Naphthalene	**24**		10	7.0	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Phenanthrene	**67**		10	3.6	ug/Kg		12/24/18 10:19	12/29/18 07:30	2
Pyrene	**160**		10	3.4	ug/Kg		12/24/18 10:19	12/29/18 07:30	2

Client Sample ID: DG-AA3S-0.5-1

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*33 - 120*	*12/24/18 10:19*	*12/29/18 07:30*	*2*
Terphenyl-d14	*96*		*35 - 146*	*12/24/18 10:19*	*12/29/18 07:30*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**76**	**B**	2.0	0.75	mg/Kg		12/20/18 11:14	12/24/18 15:23	1
Motor Oil Range Organics [C24-C36]	**150**		50	9.9	mg/Kg		12/20/18 11:14	12/24/18 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*69*		*40 - 130*	*12/20/18 11:14*	*12/24/18 15:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.9**		1.7	0.28	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Arsenic	**87**		3.4	0.29	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Barium	**150**		1.7	0.24	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Beryllium	ND		0.34	0.11	mg/Kg		12/19/18 15:49	12/27/18 21:36	4
Cadmium	**1.9**		0.42	0.042	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Chromium	**27**		1.7	0.18	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Cobalt	**11**		0.67	0.067	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Copper	**210**		5.0	2.4	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Lead	**310**		1.7	0.35	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Molybdenum	**1.8**		1.7	0.22	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Nickel	**30**		1.7	0.17	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Selenium	**1.1**	**J**	3.4	0.50	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Silver	**0.39**	**J B**	0.84	0.17	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Thallium	ND		1.7	0.49	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Vanadium	**66**		1.7	0.23	mg/Kg		12/19/18 15:49	12/27/18 00:58	4
Zinc	**360**		5.0	2.1	mg/Kg		12/19/18 15:49	12/27/18 00:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**		0.017	0.0025	mg/Kg		12/19/18 14:09	01/03/19 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.8**		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DG-AA3S-3.5-4

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	50	ug/Kg		12/18/18 20:00	12/21/18 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*12/18/18 20:00*	*12/21/18 16:54*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*	*12/18/18 20:00*	*12/21/18 16:54*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/18/18 20:00*	*12/21/18 16:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,1,1-Trichloroethane	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.5	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,1,2-Trichloroethane	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,1-Dichloroethane	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,1-Dichloropropene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,2,4-Trichlorobenzene	ND		3.5	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,2-Dichlorobenzene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,2-Dichloroethane	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,2-Dichloropropane	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,3-Dichlorobenzene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,3-Dichloropropane	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
1,4-Dichlorobenzene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
2-Butanone (MEK)	ND		7.1	3.5	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
2-Hexanone	ND		7.1	3.5	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
4-Isopropyltoluene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Benzene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Bromobenzene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Bromoform	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Bromomethane	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Chlorobenzene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Chlorodibromomethane	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Chloroethane	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Chloroform	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Chloromethane	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
cis-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1

Client Sample ID: DG-AA3S-3.5-4

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-20

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Dibromomethane	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Dichlorobromomethane	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Ethylbenzene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Ethylene Dibromide	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Isopropylbenzene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Methylene Chloride	ND		7.1	3.5	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Naphthalene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
N-Propylbenzene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Styrene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Tetrachloroethene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Toluene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
trans-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
trans-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Trichloroethene	ND		0.71	0.35	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Vinyl acetate	ND		5.7	2.8	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		12/18/18 20:00	12/21/18 16:54	1
Xylenes, Total	ND		1.4	0.92	ug/Kg		12/18/18 20:00	12/21/18 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*12/18/18 20:00*	*12/21/18 16:54*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/18/18 20:00*	*12/21/18 16:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Anthracene	ND		5.0	2.0	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Benzo[a]anthracene	**2.2**	**J**	5.0	1.5	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Benzo[a]pyrene	**4.1**	**J**	5.0	1.9	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Benzo[b]fluoranthene	**7.6**	**B**	5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Benzo[g,h,i]perylene	**4.3**	**J**	5.0	4.3	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Benzo[k]fluoranthene	**2.9**	**J**	5.0	2.1	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Chrysene	**4.1**	**J**	5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Fluoranthene	**3.6**	**J**	5.0	1.4	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Fluorene	ND		5.0	2.2	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Phenanthrene	**8.5**		5.0	1.8	ug/Kg		12/24/18 10:19	12/28/18 07:24	1
Pyrene	**5.0**		5.0	1.7	ug/Kg		12/24/18 10:19	12/28/18 07:24	1

Client Sample ID: DG-AA3S-3.5-4

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*12/24/18 10:19*	*12/28/18 07:24*	*1*
Terphenyl-d14	*96*		*35 - 146*	*12/24/18 10:19*	*12/28/18 07:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.9**	**J B**	2.0	0.75	mg/Kg		12/20/18 11:14	12/24/18 18:47	1
Motor Oil Range Organics [C24-C36]	**14**	**J**	50	10	mg/Kg		12/20/18 11:14	12/24/18 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*92*		*40 - 130*	*12/20/18 11:14*	*12/24/18 18:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.32	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Arsenic	**4.8**		3.9	0.33	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Barium	**110**		1.9	0.28	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Beryllium	ND		0.39	0.13	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Cadmium	**0.21**	**J**	0.49	0.048	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Chromium	**140**		1.9	0.21	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Cobalt	**20**		0.78	0.078	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Copper	**36**		5.8	2.8	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Lead	**11**		1.9	0.41	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Molybdenum	**0.63**	**J**	1.9	0.25	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Nickel	**190**		1.9	0.20	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Selenium	ND		3.9	0.58	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Silver	ND		0.97	0.20	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Thallium	ND		1.9	0.56	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Vanadium	**83**		1.9	0.26	mg/Kg		12/19/18 15:20	12/27/18 12:39	4
Zinc	**56**		5.8	2.5	mg/Kg		12/19/18 15:20	12/27/18 12:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.85**		0.015	0.0022	mg/Kg		12/19/18 14:09	01/03/19 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.05	%			12/20/18 10:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-AA3S-7-7.5

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-21

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		92	64	ug/Kg		12/18/18 20:00	12/21/18 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*12/18/18 20:00*	*12/21/18 17:20*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*12/18/18 20:00*	*12/21/18 17:20*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*12/18/18 20:00*	*12/21/18 17:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,1,1-Trichloroethane	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.2	4.6	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,1,2-Trichloroethane	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,1-Dichloroethane	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,1-Dichloroethene	ND		1.8	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,1-Dichloropropene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,2,3-Trichlorobenzene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,2,3-Trichloropropane	ND		9.2	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,2,4-Trichlorobenzene	ND		4.6	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,2,4-Trimethylbenzene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,2-Dibromo-3-Chloropropane	ND		4.6	1.8	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,2-Dichlorobenzene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,2-Dichloroethane	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,2-Dichloropropane	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,3,5-Trimethylbenzene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,3-Dichlorobenzene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,3-Dichloropropane	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
1,4-Dichlorobenzene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
2,2-Dichloropropane	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
2-Butanone (MEK)	ND		9.2	4.6	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
2-Chlorotoluene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
2-Hexanone	ND		9.2	4.6	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
4-Chlorotoluene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
4-Isopropyltoluene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		4.6	2.3	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Benzene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Bromobenzene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Bromoform	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Bromomethane	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Carbon disulfide	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Carbon tetrachloride	ND		1.8	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Chlorobenzene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Chlorobromomethane	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Chlorodibromomethane	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Chloroethane	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Chloroform	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Chloromethane	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
cis-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1

Client Sample ID: DG-AA3S-7-7.5

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-21

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Dibromomethane	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Dichlorobromomethane	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Dichlorodifluoromethane	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Ethylbenzene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Ethylene Dibromide	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Hexachlorobutadiene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Isopropylbenzene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Methyl tert-butyl ether	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Methylene Chloride	ND		9.2	4.6	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Naphthalene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
n-Butylbenzene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
N-Propylbenzene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
sec-Butylbenzene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Styrene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
tert-Butylbenzene	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Tetrachloroethene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Toluene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
trans-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
trans-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Trichloroethene	ND		0.92	0.46	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Trichlorofluoromethane	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Vinyl acetate	ND		7.3	3.7	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Vinyl chloride	ND		1.8	0.92	ug/Kg		12/18/18 20:00	12/21/18 17:20	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		12/18/18 20:00	12/21/18 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*12/18/18 20:00*	*12/21/18 17:20*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*12/18/18 20:00*	*12/21/18 17:20*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**11**	**B**	10	5.0	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Benzo[a]anthracene	**7.0**		5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Benzo[a]pyrene	**2.4**	**J**	5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Benzo[b]fluoranthene	**20**	**B**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Benzo[g,h,i]perylene	**4.8**	**J**	5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Benzo[k]fluoranthene	**2.2**	**J**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Chrysene	**8.8**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Fluoranthene	**6.4**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Fluorene	**16**		5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Naphthalene	**6.9**		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Phenanthrene	**24**		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 05:27	1
Pyrene	**19**		5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 05:27	1

Client Sample ID: DG-AA3S-7-7.5

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*12/26/18 12:40*	*12/28/18 05:27*	*1*
Terphenyl-d14	*93*		*35 - 146*	*12/26/18 12:40*	*12/28/18 05:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.0**	**B**	2.0	0.75	mg/Kg		12/20/18 11:14	12/24/18 19:16	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 11:14	12/24/18 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*40 - 130*	*12/20/18 11:14*	*12/24/18 19:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**J**	1.7	0.29	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Arsenic	**40**		3.4	0.29	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Barium	**36**		1.7	0.24	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Beryllium	**0.49**		0.34	0.11	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Cadmium	**0.10**	**J**	0.43	0.043	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Chromium	**33**		1.7	0.18	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Cobalt	**13**		0.69	0.069	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Copper	**19**		5.2	2.5	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Lead	**10**		1.7	0.36	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Molybdenum	**0.67**	**J**	1.7	0.22	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Nickel	**28**		1.7	0.18	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Selenium	ND		3.4	0.52	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Silver	ND		0.86	0.17	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Thallium	ND		1.7	0.50	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Vanadium	**43**		1.7	0.23	mg/Kg		12/19/18 15:20	12/27/18 12:44	4
Zinc	**53**		5.2	2.2	mg/Kg		12/19/18 15:20	12/27/18 12:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.014	0.0021	mg/Kg		12/19/18 14:09	01/03/19 18:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.9**		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DUP-16

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-22

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		12/18/18 20:00	12/21/18 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*12/18/18 20:00*	*12/21/18 17:46*	*1*
4-Bromofluorobenzene (Surr)	*119*		*79 - 120*	*12/18/18 20:00*	*12/21/18 17:46*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*12/18/18 20:00*	*12/21/18 17:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,1,1-Trichloroethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.2	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,1,2-Trichloroethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,1-Dichloroethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,1-Dichloropropene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,2,4-Trichlorobenzene	ND		4.2	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,2-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,2-Dichloroethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,2-Dichloropropane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,3-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,3-Dichloropropane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
1,4-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
2-Butanone (MEK)	ND		8.3	4.2	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
2-Hexanone	ND		8.3	4.2	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
4-Isopropyltoluene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Benzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Bromobenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Bromoform	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Bromomethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Carbon disulfide	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Chlorobenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Chlorodibromomethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Chloroethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Chloroform	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Chloromethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
cis-1,2-Dichloroethene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1

Client Sample ID: DUP-16

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-22

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Dibromomethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Dichlorobromomethane	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Ethylbenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Ethylene Dibromide	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Isopropylbenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Methyl tert-butyl ether	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Methylene Chloride	ND		8.3	4.2	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Naphthalene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
N-Propylbenzene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Styrene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Tetrachloroethene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Toluene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
trans-1,2-Dichloroethene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
trans-1,3-Dichloropropene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Trichloroethene	ND		0.83	0.42	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Vinyl acetate	ND		6.7	3.3	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		12/18/18 20:00	12/21/18 17:46	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/18/18 20:00	12/21/18 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*12/18/18 20:00*	*12/21/18 17:46*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*12/18/18 20:00*	*12/21/18 17:46*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**53**	**B**	50	25	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Acenaphthene	ND		25	14	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Acenaphthylene	**23**	**J**	25	12	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Anthracene	**47**		25	10	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Benzo[a]anthracene	**74**		25	7.5	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Benzo[a]pyrene	**98**		25	9.5	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Benzo[b]fluoranthene	**130**	**B**	25	10	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Benzo[g,h,i]perylene	**270**		25	21	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Benzo[k]fluoranthene	**53**		25	10	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Chrysene	**100**		25	7.0	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Dibenz(a,h)anthracene	**18**	**J**	25	17	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Fluoranthene	**150**		25	7.0	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Fluorene	ND		25	11	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Indeno[1,2,3-cd]pyrene	**65**		25	21	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Naphthalene	**47**		25	17	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Phenanthrene	**130**		25	9.0	ug/Kg		12/26/18 12:40	12/29/18 09:03	5
Pyrene	**220**		25	8.5	ug/Kg		12/26/18 12:40	12/29/18 09:03	5

Client Sample ID: DUP-16

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-22

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/26/18 12:40*	*12/29/18 09:03*	*5*
Terphenyl-d14	*105*		*35 - 146*	*12/26/18 12:40*	*12/29/18 09:03*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**97**	**B**	2.0	0.75	mg/Kg		12/20/18 11:14	12/24/18 13:56	1
Motor Oil Range Organics [C24-C36]	**180**		50	10	mg/Kg		12/20/18 11:14	12/24/18 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*58*		*40 - 130*	*12/20/18 11:14*	*12/24/18 13:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.7**		1.8	0.29	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Arsenic	**93**		3.5	0.30	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Barium	**120**		1.8	0.25	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Beryllium	ND		0.35	0.11	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Cadmium	**4.2**		0.44	0.044	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Chromium	**59**		1.8	0.19	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Cobalt	**10**		0.70	0.070	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Copper	**240**		5.3	2.5	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Lead	**520**		1.8	0.37	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Molybdenum	**2.2**		1.8	0.22	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Nickel	**52**		1.8	0.18	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Selenium	**1.3**	**J**	3.5	0.53	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Silver	**0.40**	**J**	0.88	0.18	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Thallium	ND		1.8	0.51	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Vanadium	**47**		1.8	0.24	mg/Kg		12/19/18 15:20	12/27/18 12:49	4
Zinc	**510**		5.3	2.2	mg/Kg		12/19/18 15:20	12/27/18 12:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.95**		0.016	0.0023	mg/Kg		12/19/18 14:09	01/03/19 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.3**		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DG-AH4S-6-6.5

Date Collected: 12/18/18 10:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-23

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	11	B	9.9	5.0	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Anthracene	3.1	J	5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Benzo[a]anthracene	3.6	J	5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Benzo[a]pyrene	7.2		5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Benzo[b]fluoranthene	21	B	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Benzo[g,h,i]perylene	12		5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Benzo[k]fluoranthene	3.9	J	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Chrysene	20		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Dibenz(a,h)anthracene	4.2	J	5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Fluoranthene	13		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Indeno[1,2,3-cd]pyrene	6.5		5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Naphthalene	19		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Phenanthrene	46		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 05:51	1
Pyrene	15		5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*12/26/18 12:40*	*12/28/18 05:51*	*1*
Terphenyl-d14	*97*		*35 - 146*	*12/26/18 12:40*	*12/28/18 05:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13	B	2.0	0.75	mg/Kg		12/20/18 11:14	12/24/18 15:52	1
Motor Oil Range Organics [C24-C36]	34	J	50	9.9	mg/Kg		12/20/18 11:14	12/24/18 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*80*		*40 - 130*	*12/20/18 11:14*	*12/24/18 15:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.9		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DG-AH4S-4-4.5

Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-24

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**250000**		9600	6700	ug/Kg		12/20/18 06:44	12/31/18 22:32	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*55 - 140*	*12/20/18 06:44*	*12/31/18 22:32*	*100*
4-Bromofluorobenzene (Surr)	*100*		*65 - 140*	*12/20/18 06:44*	*12/31/18 22:32*	*100*
Toluene-d8 (Surr)	*116*		*60 - 140*	*12/20/18 06:44*	*12/31/18 22:32*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		480	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,1,1,2-Tetrachloroethane	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,1,1-Trichloroethane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,1,2,2-Tetrachloroethane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,1,2-Trichloroethane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,1-Dichloroethane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,1-Dichloroethene	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,1-Dichloropropene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,2,3-Trichlorobenzene	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,2,4-Trichlorobenzene	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,2,4-Trimethylbenzene	**1100**		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,2-Dibromo-3-Chloropropane	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,2-Dichlorobenzene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,2-Dichloroethane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,2-Dichloropropane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,3,5-Trimethylbenzene	**320**		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,3-Dichlorobenzene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,3-Dichloropropane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,4-Dichlorobenzene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
2,2-Dichloropropane	ND		190	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
2-Chlorotoluene	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
2-Hexanone	ND		1200	480	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
4-Chlorotoluene	ND		240	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
4-Isopropyltoluene	**500**		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Benzene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Bromobenzene	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Bromoform	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Bromomethane	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Carbon disulfide	ND		240	120	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Carbon tetrachloride	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Chlorobenzene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Chlorobromomethane	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Chloroethane	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Chloroform	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Chloromethane	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
cis-1,2-Dichloroethene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
cis-1,3-Dichloropropene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Chlorodibromomethane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Dibromomethane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Dichlorobromomethane	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100

Client Sample ID: DG-AH4S-4-4.5
Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-24
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Ethylbenzene	**75**	**J**	96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Hexachlorobutadiene	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Isopropylbenzene	**2300**		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Methylene Chloride	ND		960	480	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Methyl tert-butyl ether	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Naphthalene	**570**		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
n-Butylbenzene	**680**		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
N-Propylbenzene	**340**		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
sec-Butylbenzene	**650**		240	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Styrene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
tert-Butylbenzene	**1100**		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Tetrachloroethene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Toluene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
trans-1,2-Dichloroethene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
trans-1,3-Dichloropropene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Trichloroethene	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Trichlorofluoromethane	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		480	190	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Vinyl acetate	ND		480	240	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Vinyl chloride	ND		240	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Xylenes, Total	**340**		190	96	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
Ethylene Dibromide	ND		96	48	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
2-Butanone (MEK)	ND		960	480	ug/Kg		12/20/18 06:44	12/22/18 11:44	100
4-Methyl-2-pentanone (MIBK)	ND		480	190	ug/Kg		12/20/18 06:44	12/22/18 11:44	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*	*12/20/18 06:44*	*12/22/18 11:44*	*100*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 140*	*12/20/18 06:44*	*12/22/18 11:44*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**20000**	**B**	1000	500	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Acenaphthene	**3100**		500	280	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Acenaphthylene	**460**	**J**	500	240	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Anthracene	**4600**		500	200	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Benzo[a]anthracene	**2700**		500	150	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Benzo[a]pyrene	**1600**		500	190	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Benzo[b]fluoranthene	**940**	**B**	500	210	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Benzo[g,h,i]perylene	**510**		500	430	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Benzo[k]fluoranthene	**350**	**J**	500	210	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Chrysene	**4200**		500	140	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Dibenz(a,h)anthracene	ND		500	350	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Fluoranthene	**1900**		500	140	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Fluorene	**3400**		500	220	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Indeno[1,2,3-cd]pyrene	ND		500	420	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Naphthalene	**1100**		500	350	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Phenanthrene	**14000**		500	180	ug/Kg		12/26/18 12:40	12/29/18 20:23	100
Pyrene	**9200**		500	170	ug/Kg		12/26/18 12:40	12/29/18 20:23	100

Client Sample ID: DG-AH4S-4-4.5

Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X*	*33 - 120*	*12/26/18 12:40*	*12/29/18 20:23*	*100*
Terphenyl-d14	*0*	*X*	*35 - 146*	*12/26/18 12:40*	*12/29/18 20:23*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3700	B	40	15	mg/Kg		12/20/18 11:14	12/24/18 13:27	20
Motor Oil Range Organics [C24-C36]	3600		1000	200	mg/Kg		12/20/18 11:14	12/24/18 13:27	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/20/18 11:14*	*12/24/18 13:27*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.8		0.1	0.05	%			12/20/18 10:16	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(79-123)	(70-130)
720-90388-A-6-E MS	Matrix Spike	103	115
720-90388-A-6-F MSD	Matrix Spike Duplicate	102	113
720-90388-B-2-A MS	Matrix Spike	108	129
720-90388-B-2-B MSD	Matrix Spike Duplicate	105	110
720-90412-1	DG-P1S-0.5-1	118	132 X
720-90412-2	DG-P1S-3.5-4	113	104
720-90412-3	DUP-02	110	130
720-90412-4	DG-N1S-0.5-1	117	129
720-90412-5	DG-N1S-3.5-4	121	132 X
720-90412-6	DG-O3S-0.5-1	118	126
720-90412-7	DG-O3S-3.5-4	117	137 X
720-90412-8	DG-Q3S-0.5-1	113	135 X
720-90412-9	DG-Q3S-3.5-4	106	104
720-90412-10	DG-S3S-0.5-1	109	106
720-90412-11	DG-S3S-3.5-4	109 *	101 *
720-90412-12	DG-U3S-0.5-1	103	115
720-90412-13	DG-U3S-3.5-4	109	113
720-90412-14	DUP-15	105	116
720-90412-15	DG-W3S-0.5-1	105	113
720-90412-16	DG-W3S-3.5-4	110	110
720-90412-17	DG-Y3S-0.5-1	107	116
720-90412-18	DG-Y3S-3.5-4	104	111
720-90412-19	DG-AA3S-0.5-1	106	112
720-90412-20	DG-AA3S-3.5-4	106	112
720-90412-21	DG-AA3S-7-7.5	104	112
720-90412-22	DUP-16	110	113
720-90446-A-1-E MS	Matrix Spike	107	104
720-90446-A-1-F MSD	Matrix Spike Duplicate	102	100
LCS 440-518646/5	Lab Control Sample	97	108
LCS 440-518651/5	Lab Control Sample	105	109
LCS 440-518870/5	Lab Control Sample	97	102
MB 440-518646/4	Method Blank	102	109
MB 440-518651/4	Method Blank	116	118
MB 440-518870/4	Method Blank	107	100

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)
720-90412-24	DG-AH4S-4-4.5	99	119
LCS 440-518867/5	Lab Control Sample	93	121
LCSD 440-518867/6	Lab Control Sample Dup	91	121
MB 440-518867/4	Method Blank	99	118

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
440-228365-A-1 MS	Matrix Spike	7 X	104	109
440-228365-A-1 MSD	Matrix Spike Duplicate	3 X	100	107
720-90388-A-6-E MS	Matrix Spike	107	113	103
720-90388-A-6-F MSD	Matrix Spike Duplicate	107	117	102
720-90388-B-2-A MS	Matrix Spike	111	105	108
720-90388-B-2-B MSD	Matrix Spike Duplicate	112	105	105
720-90412-1	DG-P1S-0.5-1	117	110	118
720-90412-2	DG-P1S-3.5-4	105	114	113
720-90412-3	DUP-02	118	109	110
720-90412-4	DG-N1S-0.5-1	123 X	120	117
720-90412-5	DG-N1S-3.5-4	120	131 X	121
720-90412-6	DG-O3S-0.5-1	117	114	118
720-90412-7	DG-O3S-3.5-4	126 X	125 X	117
720-90412-8	DG-Q3S-0.5-1	126 X	106	113
720-90412-9	DG-Q3S-3.5-4	102	105	106
720-90412-10	DG-S3S-0.5-1	104	109	109
720-90412-11	DG-S3S-3.5-4	109 *	114 *	117 *
720-90412-12	DG-U3S-0.5-1	109	109	103
720-90412-13	DG-U3S-3.5-4	108	118	109
720-90412-14	DUP-15	108	114	105
720-90412-15	DG-W3S-0.5-1	107	111	105
720-90412-16	DG-W3S-3.5-4	106	119	110
720-90412-17	DG-Y3S-0.5-1	109	116	107
720-90412-18	DG-Y3S-3.5-4	106	111	104
720-90412-19	DG-AA3S-0.5-1	106	115	106
720-90412-20	DG-AA3S-3.5-4	108	111	106
720-90412-21	DG-AA3S-7-7.5	106	110	104
720-90412-22	DUP-16	108	119	110
720-90446-A-1-E MS	Matrix Spike	109	104	107
720-90446-A-1-F MSD	Matrix Spike Duplicate	104	108	102
LCS 440-518647/6	Lab Control Sample	105	106	103
LCS 440-518652/6	Lab Control Sample	110	106	111
LCS 440-518871/6	Lab Control Sample	105	104	105
LCS 440-519009/6	Lab Control Sample	104	103	114
MB 440-518647/4	Method Blank	105	104	102
MB 440-518652/4	Method Blank	110	106	116
MB 440-518871/4	Method Blank	104	101	107
MB 440-519009/4	Method Blank	102	109	115

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
720-90412-24	DG-AH4S-4-4.5	98	100	116
LCS 440-520241/7	Lab Control Sample	103	104	114
LCSD 440-520241/8	Lab Control Sample Dup	103	104	113
MB 440-520241/4	Method Blank	105	107	118

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-90388-E-2-G MS	Matrix Spike	65	90
720-90388-E-2-H MSD	Matrix Spike Duplicate	67	91
720-90388-E-6-J MS	Matrix Spike	65	98
720-90388-E-6-K MSD	Matrix Spike Duplicate	62	93
720-90412-4	DG-N1S-0.5-1	77	105
720-90412-5	DG-N1S-3.5-4	69	88
720-90412-6	DG-O3S-0.5-1	75	93
720-90412-7	DG-O3S-3.5-4	73	88
720-90412-8	DG-Q3S-0.5-1	72	92
720-90412-9	DG-Q3S-3.5-4	73	90
720-90412-10	DG-S3S-0.5-1	61	84
720-90412-11	DG-S3S-3.5-4	67	91
720-90412-12	DG-U3S-0.5-1	65	100
720-90412-13	DG-U3S-3.5-4	68	91
720-90412-14	DUP-15	82	112
720-90412-15	DG-W3S-0.5-1	77	107
720-90412-16	DG-W3S-3.5-4	67	88
720-90412-17	DG-Y3S-0.5-1	65	89
720-90412-18	DG-Y3S-3.5-4	73	89
720-90412-19	DG-AA3S-0.5-1	65	96
720-90412-20	DG-AA3S-3.5-4	77	96
720-90412-21	DG-AA3S-7-7.5	72	93
720-90412-22	DUP-16	73	105
720-90412-23	DG-AH4S-6-6.5	75	97
720-90412-24	DG-AH4S-4-4.5	0 X	0 X
720-90446-E-1-J MS	Matrix Spike	69	104
720-90446-E-1-K MSD	Matrix Spike Duplicate	69	107
LCS 720-257381/2-A	Lab Control Sample	68	90
LCS 720-257530/2-A	Lab Control Sample	66	91
LCS 720-257608/2-A	Lab Control Sample	70	92
MB 720-257381/1-A	Method Blank	72	94
MB 720-257530/1-A	Method Blank	67	85
MB 720-257608/1-A	Method Blank	75	94

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TPH1 (40-130)						
720-90388-E-2-D MS	Matrix Spike	114						
720-90388-E-2-E MSD	Matrix Spike Duplicate	116						
720-90388-E-6-G MS	Matrix Spike	0 X						
720-90388-E-6-H MSD	Matrix Spike Duplicate	0 X						
720-90412-4	DG-N1S-0.5-1	92						
720-90412-5	DG-N1S-3.5-4	94						
720-90412-6	DG-O3S-0.5-1	105						
720-90412-7	DG-O3S-3.5-4	93						
720-90412-8	DG-Q3S-0.5-1	91						
720-90412-9	DG-Q3S-3.5-4	93						
720-90412-10	DG-S3S-0.5-1	74						
720-90412-11	DG-S3S-3.5-4	0 X D						
720-90412-12	DG-U3S-0.5-1	99						
720-90412-13	DG-U3S-3.5-4	92						
720-90412-14	DUP-15	0 X D						
720-90412-15	DG-W3S-0.5-1	68						
720-90412-16	DG-W3S-3.5-4	96						
720-90412-17	DG-Y3S-0.5-1	0 X D						
720-90412-18	DG-Y3S-3.5-4	95						
720-90412-19	DG-AA3S-0.5-1	69						
720-90412-20	DG-AA3S-3.5-4	92						
720-90412-21	DG-AA3S-7-7.5	96						
720-90412-22	DUP-16	58						
720-90412-23	DG-AH4S-6-6.5	80						
720-90412-24	DG-AH4S-4-4.5	0 X D						
LCS 720-257342/2-A	Lab Control Sample	111						
LCS 720-257349/2-A	Lab Control Sample	120						
MB 720-257342/1-A	Method Blank	97						
MB 720-257349/1-A	Method Blank	90						

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX2 (21-145)					
720-90388-A-2-D MS	Matrix Spike	95	73					
720-90388-A-2-E MSD	Matrix Spike Duplicate	88	76					
720-90388-E-6-E MSD	Matrix Spike Duplicate	179 p X	87					
720-90412-9 MS	DG-Q3S-3.5-4	104	93					
720-90412-9 MSD	DG-Q3S-3.5-4	110	95					
LCS 720-257333/2-A	Lab Control Sample	114	79					

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
LCS 720-257709/2-A	Lab Control Sample	110	93

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90388-E-6-D MS	Matrix Spike	65 p	89
720-90412-9	DG-Q3S-3.5-4	101	85
LCS 720-257336/2-A	Lab Control Sample	102	88
MB 720-257709/1-A	Method Blank	99	80

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90412-5	DG-N1S-3.5-4	89	69
720-90412-6	DG-O3S-0.5-1	91	88
720-90412-7	DG-O3S-3.5-4	140 p X	89
720-90412-8	DG-Q3S-0.5-1	85	87
720-90412-10	DG-S3S-0.5-1	91	94
MB 720-257333/1-A	Method Blank	106	84

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90412-4	DG-N1S-0.5-1	89	79
720-90412-11	DG-S3S-3.5-4	87	89
720-90412-12	DG-U3S-0.5-1	128	90
720-90412-13	DG-U3S-3.5-4	96	75
MB 720-257336/1-A	Method Blank	102	87

Surrogate Legend

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
720-90388-E-6-M MS	Matrix Spike	63
720-90388-E-6-N MSD	Matrix Spike Duplicate	65
720-90388-F-2-A MS	Matrix Spike	89
720-90388-F-2-B MSD	Matrix Spike Duplicate	90
720-90412-4	DG-N1S-0.5-1	99
720-90412-5	DG-N1S-3.5-4	82
720-90412-6	DG-O3S-0.5-1	86
720-90412-7	DG-O3S-3.5-4	94
720-90412-8	DG-Q3S-0.5-1	94
720-90412-9	DG-Q3S-3.5-4	83
720-90412-10	DG-S3S-0.5-1	55
720-90412-11	DG-S3S-3.5-4	56
720-90412-12	DG-U3S-0.5-1	65
720-90412-13	DG-U3S-3.5-4	61
LCS 440-518501/2-A	Lab Control Sample	94
LCS 440-519685/2-A	Lab Control Sample	115
MB 440-518501/1-A	Method Blank	97
MB 440-519685/1-A	Method Blank	113

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-518646/4
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/21/18 08:57	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/21/18 08:57	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/21/18 08:57	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/21/18 08:57	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
2-Hexanone	ND		10	5.0	ug/Kg			12/21/18 08:57	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Benzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Bromoform	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/21/18 08:57	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Chloroform	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/21/18 08:57	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518646/4
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Styrene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Toluene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/21/18 08:57	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/21/18 08:57	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/21/18 08:57	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/21/18 08:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/21/18 08:57	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/21/18 08:57	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/21/18 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*		*12/21/18 08:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*12/21/18 08:57*	*1*

Lab Sample ID: LCS 440-518646/5
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/Kg		104	70 - 130
1,1,1-Trichloroethane	50.0	55.1		ug/Kg		110	65 - 135
1,1,2,2-Tetrachloroethane	50.0	59.5		ug/Kg		119	55 - 140
1,1,2-Trichloroethane	50.0	55.5		ug/Kg		111	65 - 135
1,1-Dichloroethane	50.0	54.9		ug/Kg		110	70 - 130
1,1-Dichloroethene	50.0	56.1		ug/Kg		112	70 - 125
1,1-Dichloropropene	50.0	53.8		ug/Kg		108	70 - 130
1,2,3-Trichlorobenzene	50.0	55.8		ug/Kg		112	60 - 130
1,2,3-Trichloropropane	50.0	54.8		ug/Kg		110	60 - 135
1,2,4-Trichlorobenzene	50.0	55.7		ug/Kg		111	70 - 135
1,2,4-Trimethylbenzene	50.0	52.8		ug/Kg		106	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	63.3		ug/Kg		127	50 - 135
1,2-Dichlorobenzene	50.0	53.3		ug/Kg		107	75 - 120
1,2-Dichloroethane	50.0	61.4		ug/Kg		123	60 - 140
1,2-Dichloropropane	50.0	57.3		ug/Kg		115	70 - 130
1,3,5-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 125
1,3-Dichlorobenzene	50.0	51.4		ug/Kg		103	75 - 125
1,3-Dichloropropane	50.0	49.9		ug/Kg		100	70 - 125
1,4-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 120
2,2-Dichloropropane	50.0	52.6		ug/Kg		105	60 - 145
2-Chlorotoluene	50.0	53.5		ug/Kg		107	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518646/5
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	50.0	63.5		ug/Kg		127	40 - 150
4-Chlorotoluene	50.0	52.5		ug/Kg		105	75 - 125
4-Isopropyltoluene	50.0	52.6		ug/Kg		105	75 - 125
Benzene	50.0	52.4		ug/Kg		105	65 - 120
Bromobenzene	50.0	53.2		ug/Kg		106	75 - 120
Bromoform	50.0	56.4		ug/Kg		113	55 - 135
Bromomethane	50.0	46.8		ug/Kg		94	60 - 145
Carbon disulfide	50.0	54.0		ug/Kg		108	50 - 130
Carbon tetrachloride	50.0	54.1		ug/Kg		108	65 - 140
Chlorobenzene	50.0	50.4		ug/Kg		101	75 - 120
Chlorobromomethane	50.0	53.4		ug/Kg		107	70 - 135
Chlorodibromomethane	50.0	53.0		ug/Kg		106	65 - 140
Chloroethane	50.0	48.8		ug/Kg		98	60 - 140
Chloroform	50.0	52.5		ug/Kg		105	70 - 130
Chloromethane	50.0	47.4		ug/Kg		95	45 - 145
cis-1,2-Dichloroethene	50.0	53.4		ug/Kg		107	70 - 125
cis-1,3-Dichloropropene	50.0	56.4		ug/Kg		113	75 - 125
Dibromomethane	50.0	56.5		ug/Kg		113	70 - 130
Dichlorobromomethane	50.0	55.4		ug/Kg		111	70 - 135
Dichlorodifluoromethane	50.0	41.1		ug/Kg		82	35 - 160
Ethylbenzene	50.0	47.6		ug/Kg		95	70 - 125
Hexachlorobutadiene	50.0	51.7		ug/Kg		103	60 - 135
Isopropylbenzene	50.0	49.5		ug/Kg		99	75 - 130
Methyl tert-butyl ether	50.0	54.5		ug/Kg		109	60 - 140
Methylene Chloride	50.0	48.9		ug/Kg		98	55 - 135
m-Xylene & p-Xylene	50.0	49.2		ug/Kg		98	70 - 125
Naphthalene	50.0	57.4		ug/Kg		115	55 - 135
n-Butylbenzene	50.0	54.5		ug/Kg		109	70 - 130
N-Propylbenzene	50.0	54.9		ug/Kg		110	70 - 130
o-Xylene	50.0	50.0		ug/Kg		100	70 - 125
sec-Butylbenzene	50.0	52.7		ug/Kg		105	70 - 125
Styrene	50.0	48.5		ug/Kg		97	75 - 130
tert-Butylbenzene	50.0	53.2		ug/Kg		106	70 - 125
Tetrachloroethene	50.0	48.7		ug/Kg		97	70 - 125
Toluene	50.0	48.6		ug/Kg		97	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.2		ug/Kg		106	60 - 140
trans-1,2-Dichloroethene	50.0	56.0		ug/Kg		112	70 - 125
trans-1,3-Dichloropropene	50.0	55.1		ug/Kg		110	70 - 135
Trichloroethene	50.0	53.5		ug/Kg		107	70 - 125
Ethylene Dibromide	50.0	52.5		ug/Kg		105	70 - 130
Trichlorofluoromethane	50.0	49.8		ug/Kg		100	60 - 145
2-Butanone (MEK)	50.0	57.1		ug/Kg		114	40 - 145
Vinyl acetate	50.0	65.7		ug/Kg		131	45 - 145
4-Methyl-2-pentanone (MIBK)	50.0	67.6		ug/Kg		135	40 - 145
Vinyl chloride	50.0	42.1		ug/Kg		84	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518646/5
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 440-518651/4
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/21/18 08:48	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/21/18 08:48	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/21/18 08:48	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/21/18 08:48	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
2-Hexanone	ND		10	5.0	ug/Kg			12/21/18 08:48	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Benzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Bromoform	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/21/18 08:48	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Chloroform	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518651/4
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/21/18 08:48	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Styrene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Toluene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/21/18 08:48	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/21/18 08:48	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/21/18 08:48	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/21/18 08:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/21/18 08:48	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/21/18 08:48	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/21/18 08:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*116*		*79 - 123*		*12/21/18 08:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*12/21/18 08:48*	*1*

Lab Sample ID: LCS 440-518651/5
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	56.3		ug/Kg		113	70 - 130
1,1,1-Trichloroethane	50.0	62.0		ug/Kg		124	65 - 135
1,1,2,2-Tetrachloroethane	50.0	52.5		ug/Kg		105	55 - 140
1,1,2-Trichloroethane	50.0	57.2		ug/Kg		114	65 - 135
1,1-Dichloroethane	50.0	57.9		ug/Kg		116	70 - 130
1,1-Dichloroethene	50.0	62.2		ug/Kg		124	70 - 125
1,1-Dichloropropene	50.0	63.8		ug/Kg		128	70 - 130
1,2,3-Trichlorobenzene	50.0	55.3		ug/Kg		111	60 - 130
1,2,3-Trichloropropane	50.0	55.2		ug/Kg		110	60 - 135
1,2,4-Trichlorobenzene	50.0	55.7		ug/Kg		111	70 - 135
1,2,4-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	59.6		ug/Kg		119	50 - 135
1,2-Dichlorobenzene	50.0	55.7		ug/Kg		111	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518651/5
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	59.7		ug/Kg		119	60 - 140
1,2-Dichloropropane	50.0	57.4		ug/Kg		115	70 - 130
1,3,5-Trimethylbenzene	50.0	54.0		ug/Kg		108	70 - 125
1,3-Dichlorobenzene	50.0	54.7		ug/Kg		109	75 - 125
1,3-Dichloropropane	50.0	54.7		ug/Kg		109	70 - 125
1,4-Dichlorobenzene	50.0	55.5		ug/Kg		111	75 - 120
2,2-Dichloropropane	50.0	62.4		ug/Kg		125	60 - 145
2-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 125
2-Hexanone	50.0	58.4		ug/Kg		117	40 - 150
4-Chlorotoluene	50.0	52.8		ug/Kg		106	75 - 125
4-Isopropyltoluene	50.0	54.7		ug/Kg		109	75 - 125
Benzene	50.0	54.6		ug/Kg		109	65 - 120
Bromobenzene	50.0	57.2		ug/Kg		114	75 - 120
Bromoform	50.0	60.6		ug/Kg		121	55 - 135
Bromomethane	50.0	51.5		ug/Kg		103	60 - 145
Carbon disulfide	50.0	59.0		ug/Kg		118	50 - 130
Carbon tetrachloride	50.0	65.3		ug/Kg		131	65 - 140
Chlorobenzene	50.0	53.2		ug/Kg		106	75 - 120
Chlorobromomethane	50.0	56.5		ug/Kg		113	70 - 135
Chlorodibromomethane	50.0	60.8		ug/Kg		122	65 - 140
Chloroethane	50.0	54.1		ug/Kg		108	60 - 140
Chloroform	50.0	57.1		ug/Kg		114	70 - 130
Chloromethane	50.0	49.7		ug/Kg		99	45 - 145
cis-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	70 - 125
cis-1,3-Dichloropropene	50.0	59.6		ug/Kg		119	75 - 125
Dibromomethane	50.0	60.1		ug/Kg		120	70 - 130
Dichlorobromomethane	50.0	58.2		ug/Kg		116	70 - 135
Dichlorodifluoromethane	50.0	53.0		ug/Kg		106	35 - 160
Ethylbenzene	50.0	54.4		ug/Kg		109	70 - 125
Hexachlorobutadiene	50.0	52.7		ug/Kg		105	60 - 135
Isopropylbenzene	50.0	56.2		ug/Kg		112	75 - 130
Methyl tert-butyl ether	50.0	54.5		ug/Kg		109	60 - 140
Methylene Chloride	50.0	52.6		ug/Kg		105	55 - 135
m-Xylene & p-Xylene	50.0	54.9		ug/Kg		110	70 - 125
Naphthalene	50.0	54.9		ug/Kg		110	55 - 135
n-Butylbenzene	50.0	55.7		ug/Kg		111	70 - 130
N-Propylbenzene	50.0	55.3		ug/Kg		111	70 - 130
o-Xylene	50.0	54.6		ug/Kg		109	70 - 125
sec-Butylbenzene	50.0	53.4		ug/Kg		107	70 - 125
Styrene	50.0	51.2		ug/Kg		102	75 - 130
tert-Butylbenzene	50.0	52.6		ug/Kg		105	70 - 125
Tetrachloroethene	50.0	64.2	*	ug/Kg		128	70 - 125
Toluene	50.0	53.3		ug/Kg		107	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	60.1		ug/Kg		120	60 - 140
trans-1,2-Dichloroethene	50.0	60.0		ug/Kg		120	70 - 125
trans-1,3-Dichloropropene	50.0	59.0		ug/Kg		118	70 - 135
Trichloroethene	50.0	58.7		ug/Kg		117	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518651/5
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	50.0	58.0		ug/Kg		116	70 - 130
Trichlorofluoromethane	50.0	58.0		ug/Kg		116	60 - 145
2-Butanone (MEK)	50.0	56.5		ug/Kg		113	40 - 145
Vinyl acetate	50.0	63.6		ug/Kg		127	45 - 145
4-Methyl-2-pentanone (MIBK)	50.0	65.7		ug/Kg		131	40 - 145
Vinyl chloride	50.0	56.6		ug/Kg		113	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*

Lab Sample ID: 720-90388-A-6-E MS
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		42.5	48.0		ug/Kg		113	65 - 145
1,1,1-Trichloroethane	ND		42.5	46.5		ug/Kg		109	65 - 145
1,1,2,2-Tetrachloroethane	ND		42.5	64.5		ug/Kg		152	40 - 160
1,1,2-Trichloroethane	ND		42.5	53.8		ug/Kg		126	65 - 140
1,1-Dichloroethane	ND		42.5	47.8		ug/Kg		112	65 - 135
1,1-Dichloroethene	ND		42.5	42.7		ug/Kg		100	65 - 135
1,1-Dichloropropene	ND		42.5	44.1		ug/Kg		104	65 - 135
1,2,3-Trichlorobenzene	ND		42.5	34.4		ug/Kg		81	45 - 145
1,2,3-Trichloropropane	ND		42.5	58.6		ug/Kg		138	50 - 150
1,2,4-Trichlorobenzene	ND		42.5	36.6		ug/Kg		86	50 - 140
1,2,4-Trimethylbenzene	ND		42.5	47.3		ug/Kg		111	65 - 140
1,2-Dibromo-3-Chloropropane	ND	F1	42.5	65.7	F1	ug/Kg		155	40 - 150
1,2-Dichlorobenzene	ND		42.5	46.8		ug/Kg		110	70 - 130
1,2-Dichloroethane	ND		42.5	56.8		ug/Kg		133	60 - 150
1,2-Dichloropropane	ND		42.5	52.5		ug/Kg		123	65 - 130
1,3,5-Trimethylbenzene	ND		42.5	47.8		ug/Kg		112	65 - 135
1,3-Dichlorobenzene	ND		42.5	44.7		ug/Kg		105	70 - 130
1,3-Dichloropropane	ND		42.5	49.3		ug/Kg		116	65 - 140
1,4-Dichlorobenzene	ND		42.5	45.3		ug/Kg		106	70 - 130
2,2-Dichloropropane	ND		42.5	47.2		ug/Kg		111	65 - 150
2-Chlorotoluene	ND		42.5	49.5		ug/Kg		116	60 - 135
2-Hexanone	ND		42.5	64.2		ug/Kg		151	35 - 160
4-Chlorotoluene	ND		42.5	47.6		ug/Kg		112	65 - 135
4-Isopropyltoluene	ND		42.5	43.3		ug/Kg		102	60 - 140
Benzene	ND		42.5	45.3		ug/Kg		106	65 - 130
Bromobenzene	ND		42.5	51.5		ug/Kg		121	65 - 140
Bromoform	ND		42.5	53.7		ug/Kg		126	50 - 145
Bromomethane	ND		42.5	33.4		ug/Kg		78	60 - 155
Carbon disulfide	ND		42.5	37.9		ug/Kg		89	40 - 140
Carbon tetrachloride	ND		42.5	44.8		ug/Kg		105	60 - 145
Chlorobenzene	ND		42.5	44.6		ug/Kg		105	70 - 130
Chlorobromomethane	ND		42.5	48.8		ug/Kg		115	65 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-A-6-E MS
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	ND		42.5	51.0		ug/Kg		120	60 - 145
Chloroethane	ND		42.5	36.2		ug/Kg		85	60 - 150
Chloroform	ND		42.5	46.6		ug/Kg		110	65 - 135
Chloromethane	ND		42.5	29.3		ug/Kg		69	40 - 145
cis-1,2-Dichloroethene	ND		42.5	46.9		ug/Kg		110	65 - 135
cis-1,3-Dichloropropene	ND		42.5	54.2		ug/Kg		127	70 - 135
Dibromomethane	ND		42.5	51.7		ug/Kg		122	65 - 140
Dichlorobromomethane	ND		42.5	49.7		ug/Kg		117	65 - 145
Dichlorodifluoromethane	ND		42.5	23.3		ug/Kg		55	30 - 160
Ethylbenzene	ND		42.5	42.3		ug/Kg		100	70 - 135
Hexachlorobutadiene	ND		42.5	30.3		ug/Kg		71	50 - 145
Isopropylbenzene	ND		42.5	41.9		ug/Kg		98	70 - 145
Methyl tert-butyl ether	ND		42.5	52.2		ug/Kg		123	55 - 155
Methylene Chloride	ND		42.5	41.3		ug/Kg		97	55 - 145
m-Xylene & p-Xylene	ND		42.5	42.8		ug/Kg		101	70 - 130
Naphthalene	ND		42.5	44.7		ug/Kg		105	40 - 150
n-Butylbenzene	ND		42.5	41.1		ug/Kg		97	55 - 145
N-Propylbenzene	ND		42.5	49.8		ug/Kg		117	65 - 140
o-Xylene	ND		42.5	43.8		ug/Kg		103	65 - 130
sec-Butylbenzene	ND		42.5	44.2		ug/Kg		104	60 - 135
Styrene	ND		42.5	42.4		ug/Kg		100	70 - 140
tert-Butylbenzene	ND		42.5	46.8		ug/Kg		110	60 - 140
Tetrachloroethene	ND		42.5	42.7		ug/Kg		100	65 - 135
Toluene	ND		42.5	44.8		ug/Kg		105	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		42.5	39.6		ug/Kg		93	60 - 140
trans-1,2-Dichloroethene	ND		42.5	46.1		ug/Kg		108	70 - 135
trans-1,3-Dichloropropene	ND		42.5	52.1		ug/Kg		123	60 - 145
Trichloroethene	ND		42.5	45.0		ug/Kg		106	65 - 140
Ethylene Dibromide	ND		42.5	50.8		ug/Kg		119	65 - 140
Trichlorofluoromethane	ND		42.5	35.5		ug/Kg		84	55 - 155
2-Butanone (MEK)	ND		42.5	50.9		ug/Kg		120	25 - 170
Vinyl acetate	ND		42.5	25.6		ug/Kg		60	40 - 150
4-Methyl-2-pentanone (MIBK)	ND	F1	42.5	68.1	F1	ug/Kg		160	40 - 155
Vinyl chloride	ND		42.5	27.5		ug/Kg		65	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*

Lab Sample ID: 720-90388-A-6-F MSD
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		45.1	49.8		ug/Kg		110	65 - 145	4	20
1,1,1-Trichloroethane	ND		45.1	48.6		ug/Kg		108	65 - 145	4	20
1,1,2,2-Tetrachloroethane	ND		45.1	68.8		ug/Kg		153	40 - 160	7	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-A-6-F MSD
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		45.1	55.2		ug/Kg		122	65 - 140	3	30
1,1-Dichloroethane	ND		45.1	49.8		ug/Kg		110	65 - 135	4	25
1,1-Dichloroethene	ND		45.1	45.5		ug/Kg		101	65 - 135	6	25
1,1-Dichloropropene	ND		45.1	45.8		ug/Kg		102	65 - 135	4	20
1,2,3-Trichlorobenzene	ND		45.1	38.4		ug/Kg		85	45 - 145	11	30
1,2,3-Trichloropropane	ND		45.1	63.9		ug/Kg		142	50 - 150	9	30
1,2,4-Trichlorobenzene	ND		45.1	39.6		ug/Kg		88	50 - 140	8	30
1,2,4-Trimethylbenzene	ND		45.1	52.5		ug/Kg		116	65 - 140	10	25
1,2-Dibromo-3-Chloropropane	ND	F1	45.1	67.1		ug/Kg		149	40 - 150	2	30
1,2-Dichlorobenzene	ND		45.1	51.7		ug/Kg		114	70 - 130	10	25
1,2-Dichloroethane	ND		45.1	56.9		ug/Kg		126	60 - 150	0	25
1,2-Dichloropropane	ND		45.1	54.4		ug/Kg		121	65 - 130	4	20
1,3,5-Trimethylbenzene	ND		45.1	52.4		ug/Kg		116	65 - 135	9	25
1,3-Dichlorobenzene	ND		45.1	47.9		ug/Kg		106	70 - 130	7	25
1,3-Dichloropropane	ND		45.1	50.4		ug/Kg		112	65 - 140	2	25
1,4-Dichlorobenzene	ND		45.1	47.6		ug/Kg		106	70 - 130	5	25
2,2-Dichloropropane	ND		45.1	49.0		ug/Kg		109	65 - 150	4	25
2-Chlorotoluene	ND		45.1	53.9		ug/Kg		119	60 - 135	9	25
2-Hexanone	ND		45.1	62.8		ug/Kg		139	35 - 160	2	40
4-Chlorotoluene	ND		45.1	51.5		ug/Kg		114	65 - 135	8	25
4-Isopropyltoluene	ND		45.1	47.9		ug/Kg		106	60 - 140	10	25
Benzene	ND		45.1	47.1		ug/Kg		104	65 - 130	4	20
Bromobenzene	ND		45.1	55.4		ug/Kg		123	65 - 140	7	25
Bromoform	ND		45.1	53.3		ug/Kg		118	50 - 145	1	30
Bromomethane	ND		45.1	34.6		ug/Kg		77	60 - 155	4	25
Carbon disulfide	ND		45.1	38.8		ug/Kg		86	40 - 140	2	20
Carbon tetrachloride	ND		45.1	47.7		ug/Kg		106	60 - 145	6	25
Chlorobenzene	ND		45.1	45.3		ug/Kg		100	70 - 130	2	25
Chlorobromomethane	ND		45.1	50.0		ug/Kg		111	65 - 145	2	25
Chlorodibromomethane	ND		45.1	52.4		ug/Kg		116	60 - 145	3	25
Chloroethane	ND		45.1	37.4		ug/Kg		83	60 - 150	3	25
Chloroform	ND		45.1	47.4		ug/Kg		105	65 - 135	2	20
Chloromethane	ND		45.1	30.4		ug/Kg		67	40 - 145	4	25
cis-1,2-Dichloroethene	ND		45.1	48.3		ug/Kg		107	65 - 135	3	25
cis-1,3-Dichloropropene	ND		45.1	54.7		ug/Kg		121	70 - 135	1	25
Dibromomethane	ND		45.1	53.1		ug/Kg		118	65 - 140	3	25
Dichlorobromomethane	ND		45.1	52.3		ug/Kg		116	65 - 145	5	20
Dichlorodifluoromethane	ND		45.1	24.9		ug/Kg		55	30 - 160	7	35
Ethylbenzene	ND		45.1	43.2		ug/Kg		96	70 - 135	2	25
Hexachlorobutadiene	ND		45.1	31.6		ug/Kg		70	50 - 145	4	35
Isopropylbenzene	ND		45.1	43.0		ug/Kg		95	70 - 145	3	25
Methyl tert-butyl ether	ND		45.1	52.8		ug/Kg		117	55 - 155	1	35
Methylene Chloride	ND		45.1	43.7		ug/Kg		97	55 - 145	6	25
m-Xylene & p-Xylene	ND		45.1	43.1		ug/Kg		95	70 - 130	1	25
Naphthalene	ND		45.1	49.0		ug/Kg		109	40 - 150	9	40
n-Butylbenzene	ND		45.1	43.7		ug/Kg		97	55 - 145	6	30
N-Propylbenzene	ND		45.1	54.3		ug/Kg		120	65 - 140	9	25
o-Xylene	ND		45.1	45.3		ug/Kg		100	65 - 130	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-A-6-F MSD
Matrix: Solid
Analysis Batch: 518646

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		45.1	49.6		ug/Kg		110	60 - 135	11	25
Styrene	ND		45.1	42.9		ug/Kg		95	70 - 140	1	25
tert-Butylbenzene	ND		45.1	53.2		ug/Kg		118	60 - 140	13	25
Tetrachloroethene	ND		45.1	43.8		ug/Kg		97	65 - 135	3	25
Toluene	ND		45.1	45.6		ug/Kg		101	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		45.1	43.4		ug/Kg		96	60 - 140	9	40
trans-1,2-Dichloroethene	ND		45.1	47.2		ug/Kg		105	70 - 135	2	25
trans-1,3-Dichloropropene	ND		45.1	53.0		ug/Kg		118	60 - 145	2	25
Trichloroethene	ND		45.1	45.8		ug/Kg		102	65 - 140	2	25
Ethylene Dibromide	ND		45.1	51.2		ug/Kg		113	65 - 140	1	25
Trichlorofluoromethane	ND		45.1	37.5		ug/Kg		83	55 - 155	5	25
2-Butanone (MEK)	ND		45.1	50.6		ug/Kg		112	25 - 170	1	40
Vinyl acetate	ND		45.1	25.8		ug/Kg		57	40 - 150	1	30
4-Methyl-2-pentanone (MIBK)	ND	F1	45.1	67.2		ug/Kg		149	40 - 155	1	40
Vinyl chloride	ND		45.1	29.2		ug/Kg		65	55 - 140	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*

Lab Sample ID: 720-90388-B-2-A MS
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		44.5	50.7		ug/Kg		114	65 - 145
1,1,1-Trichloroethane	ND		44.5	47.4		ug/Kg		107	65 - 145
1,1,2,2-Tetrachloroethane	ND		44.5	51.3		ug/Kg		115	40 - 160
1,1,2-Trichloroethane	ND		44.5	53.5		ug/Kg		120	65 - 140
1,1-Dichloroethane	ND		44.5	45.7		ug/Kg		103	65 - 135
1,1-Dichloroethene	ND		44.5	44.7		ug/Kg		100	65 - 135
1,1-Dichloropropene	ND		44.5	46.3		ug/Kg		104	65 - 135
1,2,3-Trichlorobenzene	ND		44.5	42.7		ug/Kg		96	45 - 145
1,2,3-Trichloropropane	ND		44.5	53.3		ug/Kg		120	50 - 150
1,2,4-Trichlorobenzene	ND		44.5	41.1		ug/Kg		92	50 - 140
1,2,4-Trimethylbenzene	ND		44.5	45.1		ug/Kg		101	65 - 140
1,2-Dibromo-3-Chloropropane	ND		44.5	54.2		ug/Kg		122	40 - 150
1,2-Dichlorobenzene	ND		44.5	49.4		ug/Kg		111	70 - 130
1,2-Dichloroethane	ND		44.5	52.4		ug/Kg		118	60 - 150
1,2-Dichloropropane	ND		44.5	49.8		ug/Kg		112	65 - 130
1,3,5-Trimethylbenzene	ND		44.5	45.9		ug/Kg		103	65 - 135
1,3-Dichlorobenzene	ND		44.5	44.6		ug/Kg		100	70 - 130
1,3-Dichloropropane	ND		44.5	50.0		ug/Kg		112	65 - 140
1,4-Dichlorobenzene	ND		44.5	43.8		ug/Kg		99	70 - 130
2,2-Dichloropropane	ND		44.5	47.2		ug/Kg		106	65 - 150
2-Chlorotoluene	ND		44.5	44.1		ug/Kg		99	60 - 135
2-Hexanone	ND		44.5	56.7		ug/Kg		128	35 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-B-2-A MS
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	ND		44.5	44.1		ug/Kg		99	65 - 135
4-Isopropyltoluene	ND		44.5	45.1		ug/Kg		101	60 - 140
Benzene	ND		44.5	44.3		ug/Kg		100	65 - 130
Bromobenzene	ND		44.5	50.0		ug/Kg		112	65 - 140
Bromoform	ND		44.5	54.0		ug/Kg		121	50 - 145
Bromomethane	ND		44.5	30.7		ug/Kg		69	60 - 155
Carbon disulfide	ND		44.5	39.7		ug/Kg		89	40 - 140
Carbon tetrachloride	ND		44.5	49.5		ug/Kg		111	60 - 145
Chlorobenzene	ND		44.5	43.6		ug/Kg		98	70 - 130
Chlorobromomethane	ND		44.5	48.0		ug/Kg		108	65 - 145
Chlorodibromomethane	ND		44.5	54.1		ug/Kg		122	60 - 145
Chloroethane	ND		44.5	33.8		ug/Kg		76	60 - 150
Chloroform	ND		44.5	47.5		ug/Kg		107	65 - 135
Chloromethane	ND		44.5	26.1		ug/Kg		59	40 - 145
cis-1,2-Dichloroethene	ND		44.5	45.6		ug/Kg		103	65 - 135
cis-1,3-Dichloropropene	ND		44.5	51.2		ug/Kg		115	70 - 135
Dibromomethane	ND		44.5	52.2		ug/Kg		117	65 - 140
Dichlorobromomethane	ND		44.5	51.1		ug/Kg		115	65 - 145
Dichlorodifluoromethane	ND		44.5	26.0		ug/Kg		58	30 - 160
Ethylbenzene	ND		44.5	45.0		ug/Kg		101	70 - 135
Hexachlorobutadiene	ND		44.5	41.4		ug/Kg		93	50 - 145
Isopropylbenzene	ND		44.5	45.5		ug/Kg		102	70 - 145
Methyl tert-butyl ether	ND		44.5	49.8		ug/Kg		112	55 - 155
Methylene Chloride	ND		44.5	43.9		ug/Kg		99	55 - 145
m-Xylene & p-Xylene	ND		44.5	44.7		ug/Kg		100	70 - 130
Naphthalene	ND		44.5	45.9		ug/Kg		103	40 - 150
n-Butylbenzene	ND		44.5	43.2		ug/Kg		97	55 - 145
N-Propylbenzene	ND		44.5	46.2		ug/Kg		104	65 - 140
o-Xylene	ND		44.5	45.7		ug/Kg		103	65 - 130
sec-Butylbenzene	ND		44.5	44.6		ug/Kg		100	60 - 135
Styrene	ND		44.5	42.1		ug/Kg		95	70 - 140
tert-Butylbenzene	ND		44.5	44.5		ug/Kg		100	60 - 140
Tetrachloroethene	ND	*	44.5	51.7		ug/Kg		116	65 - 135
Toluene	ND		44.5	45.1		ug/Kg		101	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		44.5	42.5		ug/Kg		96	60 - 140
trans-1,2-Dichloroethene	ND		44.5	44.3		ug/Kg		100	70 - 135
trans-1,3-Dichloropropene	ND		44.5	50.4		ug/Kg		113	60 - 145
Trichloroethene	ND		44.5	47.7		ug/Kg		107	65 - 140
Ethylene Dibromide	ND		44.5	49.4		ug/Kg		111	65 - 140
Trichlorofluoromethane	ND		44.5	37.8		ug/Kg		85	55 - 155
2-Butanone (MEK)	ND		44.5	52.3		ug/Kg		118	25 - 170
Vinyl acetate	ND		44.5	33.6		ug/Kg		76	40 - 150
4-Methyl-2-pentanone (MIBK)	ND		44.5	59.1		ug/Kg		133	40 - 155
Vinyl chloride	ND		44.5	24.3		ug/Kg		55	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-B-2-A MS
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518692

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*

Lab Sample ID: 720-90388-B-2-B MSD
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		43.3	49.0		ug/Kg		113	65 - 145	3	20
1,1,1-Trichloroethane	ND		43.3	48.0		ug/Kg		111	65 - 145	1	20
1,1,2,2-Tetrachloroethane	ND		43.3	49.0		ug/Kg		113	40 - 160	5	30
1,1,2-Trichloroethane	ND		43.3	51.1		ug/Kg		118	65 - 140	5	30
1,1-Dichloroethane	ND		43.3	45.6		ug/Kg		105	65 - 135	0	25
1,1-Dichloroethene	ND		43.3	44.6		ug/Kg		103	65 - 135	0	25
1,1-Dichloropropene	ND		43.3	46.8		ug/Kg		108	65 - 135	1	20
1,2,3-Trichlorobenzene	ND		43.3	42.0		ug/Kg		97	45 - 145	2	30
1,2,3-Trichloropropane	ND		43.3	51.4		ug/Kg		119	50 - 150	4	30
1,2,4-Trichlorobenzene	ND		43.3	40.9		ug/Kg		94	50 - 140	0	30
1,2,4-Trimethylbenzene	ND		43.3	45.0		ug/Kg		104	65 - 140	0	25
1,2-Dibromo-3-Chloropropane	ND		43.3	50.3		ug/Kg		116	40 - 150	7	30
1,2-Dichlorobenzene	ND		43.3	48.8		ug/Kg		113	70 - 130	1	25
1,2-Dichloroethane	ND		43.3	51.3		ug/Kg		118	60 - 150	2	25
1,2-Dichloropropane	ND		43.3	48.5		ug/Kg		112	65 - 130	3	20
1,3,5-Trimethylbenzene	ND		43.3	45.4		ug/Kg		105	65 - 135	1	25
1,3-Dichlorobenzene	ND		43.3	44.4		ug/Kg		102	70 - 130	1	25
1,3-Dichloropropane	ND		43.3	48.1		ug/Kg		111	65 - 140	4	25
1,4-Dichlorobenzene	ND		43.3	45.0		ug/Kg		104	70 - 130	3	25
2,2-Dichloropropane	ND		43.3	45.9		ug/Kg		106	65 - 150	3	25
2-Chlorotoluene	ND		43.3	44.2		ug/Kg		102	60 - 135	0	25
2-Hexanone	ND		43.3	51.3		ug/Kg		118	35 - 160	10	40
4-Chlorotoluene	ND		43.3	43.4		ug/Kg		100	65 - 135	2	25
4-Isopropyltoluene	ND		43.3	44.3		ug/Kg		102	60 - 140	2	25
Benzene	ND		43.3	43.8		ug/Kg		101	65 - 130	1	20
Bromobenzene	ND		43.3	51.2		ug/Kg		118	65 - 140	2	25
Bromoform	ND		43.3	51.0		ug/Kg		118	50 - 145	6	30
Bromomethane	ND		43.3	35.3		ug/Kg		82	60 - 155	14	25
Carbon disulfide	ND		43.3	40.2		ug/Kg		93	40 - 140	1	20
Carbon tetrachloride	ND		43.3	49.0		ug/Kg		113	60 - 145	1	25
Chlorobenzene	ND		43.3	43.0		ug/Kg		99	70 - 130	1	25
Chlorobromomethane	ND		43.3	47.4		ug/Kg		109	65 - 145	1	25
Chlorodibromomethane	ND		43.3	54.1		ug/Kg		125	60 - 145	0	25
Chloroethane	ND		43.3	36.0		ug/Kg		83	60 - 150	6	25
Chloroform	ND		43.3	46.3		ug/Kg		107	65 - 135	3	20
Chloromethane	ND		43.3	28.0		ug/Kg		65	40 - 145	7	25
cis-1,2-Dichloroethene	ND		43.3	45.7		ug/Kg		106	65 - 135	0	25
cis-1,3-Dichloropropene	ND		43.3	50.5		ug/Kg		117	70 - 135	1	25
Dibromomethane	ND		43.3	51.6		ug/Kg		119	65 - 140	1	25
Dichlorobromomethane	ND		43.3	50.9		ug/Kg		118	65 - 145	0	20
Dichlorodifluoromethane	ND		43.3	26.7		ug/Kg		62	30 - 160	3	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90388-B-2-B MSD
Matrix: Solid
Analysis Batch: 518651

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	ND		43.3	43.8		ug/Kg		101	70 - 135	3	25
Hexachlorobutadiene	ND		43.3	40.7		ug/Kg		94	50 - 145	2	35
Isopropylbenzene	ND		43.3	44.5		ug/Kg		103	70 - 145	2	25
Methyl tert-butyl ether	ND		43.3	49.6		ug/Kg		114	55 - 155	0	35
Methylene Chloride	ND		43.3	44.9		ug/Kg		104	55 - 145	2	25
m-Xylene & p-Xylene	ND		43.3	44.8		ug/Kg		103	70 - 130	0	25
Naphthalene	ND		43.3	45.5		ug/Kg		105	40 - 150	1	40
n-Butylbenzene	ND		43.3	41.8		ug/Kg		96	55 - 145	3	30
N-Propylbenzene	ND		43.3	44.4		ug/Kg		102	65 - 140	4	25
o-Xylene	ND		43.3	44.8		ug/Kg		103	65 - 130	2	25
sec-Butylbenzene	ND		43.3	43.4		ug/Kg		100	60 - 135	3	25
Styrene	ND		43.3	40.7		ug/Kg		94	70 - 140	3	25
tert-Butylbenzene	ND		43.3	44.6		ug/Kg		103	60 - 140	0	25
Tetrachloroethene	ND	*	43.3	50.0		ug/Kg		115	65 - 135	3	25
Toluene	ND		43.3	44.3		ug/Kg		102	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		43.3	42.2		ug/Kg		97	60 - 140	1	40
trans-1,2-Dichloroethene	ND		43.3	44.7		ug/Kg		103	70 - 135	1	25
trans-1,3-Dichloropropene	ND		43.3	50.2		ug/Kg		116	60 - 145	0	25
Trichloroethene	ND		43.3	47.7		ug/Kg		110	65 - 140	0	25
Ethylene Dibromide	ND		43.3	49.2		ug/Kg		114	65 - 140	0	25
Trichlorofluoromethane	ND		43.3	37.5		ug/Kg		87	55 - 155	1	25
2-Butanone (MEK)	ND		43.3	46.9		ug/Kg		108	25 - 170	11	40
Vinyl acetate	ND		43.3	40.0		ug/Kg		92	40 - 150	17	30
4-Methyl-2-pentanone (MIBK)	ND		43.3	55.6		ug/Kg		128	40 - 155	6	40
Vinyl chloride	ND		43.3	30.8		ug/Kg		71	55 - 140	23	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 440-518867/4
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			12/22/18 09:35	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
1,1-Dichloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
1,1-Dichloroethene	ND		250	100	ug/Kg			12/22/18 09:35	100
1,1-Dichloropropene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
1,2,3-Trichloropropane	ND		500	100	ug/Kg			12/22/18 09:35	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			12/22/18 09:35	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518867/4
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,2-Dichloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
1,2-Dichloropropane	ND		100	50	ug/Kg			12/22/18 09:35	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,3-Dichloropropane	ND		100	50	ug/Kg			12/22/18 09:35	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
2,2-Dichloropropane	ND		200	100	ug/Kg			12/22/18 09:35	100
2-Chlorotoluene	ND		250	100	ug/Kg			12/22/18 09:35	100
2-Hexanone	ND		1300	500	ug/Kg			12/22/18 09:35	100
4-Chlorotoluene	ND		250	50	ug/Kg			12/22/18 09:35	100
4-Isopropyltoluene	ND		100	50	ug/Kg			12/22/18 09:35	100
Benzene	ND		100	50	ug/Kg			12/22/18 09:35	100
Bromobenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
Bromoform	ND		250	100	ug/Kg			12/22/18 09:35	100
Bromomethane	ND		250	100	ug/Kg			12/22/18 09:35	100
Carbon disulfide	ND		250	130	ug/Kg			12/22/18 09:35	100
Carbon tetrachloride	ND		250	100	ug/Kg			12/22/18 09:35	100
Chlorobenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
Chlorobromomethane	ND		250	100	ug/Kg			12/22/18 09:35	100
Chlorodibromomethane	ND		100	50	ug/Kg			12/22/18 09:35	100
Chloroethane	ND		250	100	ug/Kg			12/22/18 09:35	100
Chloroform	ND		100	50	ug/Kg			12/22/18 09:35	100
Chloromethane	ND		250	100	ug/Kg			12/22/18 09:35	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			12/22/18 09:35	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			12/22/18 09:35	100
Dibromomethane	ND		100	50	ug/Kg			12/22/18 09:35	100
Dichlorobromomethane	ND		100	50	ug/Kg			12/22/18 09:35	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			12/22/18 09:35	100
Ethylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
Hexachlorobutadiene	ND		250	100	ug/Kg			12/22/18 09:35	100
Isopropylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			12/22/18 09:35	100
Methylene Chloride	ND		1000	500	ug/Kg			12/22/18 09:35	100
Naphthalene	ND		250	100	ug/Kg			12/22/18 09:35	100
n-Butylbenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
N-Propylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
sec-Butylbenzene	ND		250	50	ug/Kg			12/22/18 09:35	100
Styrene	ND		100	50	ug/Kg			12/22/18 09:35	100
tert-Butylbenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
Tetrachloroethene	ND		100	50	ug/Kg			12/22/18 09:35	100
Toluene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			12/22/18 09:35	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			12/22/18 09:35	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			12/22/18 09:35	100
Trichloroethene	ND		100	50	ug/Kg			12/22/18 09:35	100
Ethylene Dibromide	ND		100	50	ug/Kg			12/22/18 09:35	100
Trichlorofluoromethane	ND		250	100	ug/Kg			12/22/18 09:35	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518867/4
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		1000	500	ug/Kg			12/22/18 09:35	100
Vinyl acetate	ND		500	250	ug/Kg			12/22/18 09:35	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			12/22/18 09:35	100
Vinyl chloride	ND		250	100	ug/Kg			12/22/18 09:35	100
Xylenes, Total	ND		200	100	ug/Kg			12/22/18 09:35	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*		*12/22/18 09:35*	*100*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*		*12/22/18 09:35*	*100*

Lab Sample ID: LCS 440-518867/5
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2560		ug/Kg		103	70 - 140
1,1,1-Trichloroethane	2500	2800		ug/Kg		112	65 - 140
1,1,2,2-Tetrachloroethane	2500	2180		ug/Kg		87	55 - 135
1,1,2-Trichloroethane	2500	2350		ug/Kg		94	65 - 130
1,1-Dichloroethane	2500	2410		ug/Kg		96	65 - 130
1,1-Dichloroethene	2500	2420		ug/Kg		97	75 - 140
1,1-Dichloropropene	2500	2360		ug/Kg		94	70 - 130
1,2,3-Trichlorobenzene	2500	2300		ug/Kg		92	60 - 135
1,2,3-Trichloropropane	2500	2550		ug/Kg		102	55 - 130
1,2,4-Trichlorobenzene	2500	2280		ug/Kg		91	65 - 135
1,2,4-Trimethylbenzene	2500	2510		ug/Kg		100	70 - 125
1,2-Dibromo-3-Chloropropane	2500	2390		ug/Kg		96	45 - 135
1,2-Dichlorobenzene	2500	2390		ug/Kg		96	70 - 120
1,2-Dichloroethane	2500	2700		ug/Kg		108	60 - 145
1,2-Dichloropropane	2500	2420		ug/Kg		97	75 - 125
1,3,5-Trimethylbenzene	2500	2490		ug/Kg		100	70 - 125
1,3-Dichlorobenzene	2500	2430		ug/Kg		97	70 - 125
1,3-Dichloropropane	2500	2290		ug/Kg		92	65 - 130
1,4-Dichlorobenzene	2500	2440		ug/Kg		98	70 - 125
2,2-Dichloropropane	2500	2750		ug/Kg		110	60 - 145
2-Chlorotoluene	2500	2400		ug/Kg		96	70 - 125
2-Hexanone	2500	2110		ug/Kg		84	35 - 140
4-Chlorotoluene	2500	2450		ug/Kg		98	70 - 125
4-Isopropyltoluene	2500	2510		ug/Kg		101	70 - 125
Benzene	2500	2260		ug/Kg		90	65 - 120
Bromobenzene	2500	2460		ug/Kg		98	70 - 120
Bromoform	2500	2560		ug/Kg		103	50 - 130
Bromomethane	2500	2430		ug/Kg		97	30 - 140
Carbon disulfide	2500	2160		ug/Kg		86	50 - 130
Carbon tetrachloride	2500	2880		ug/Kg		115	65 - 145
Chlorobenzene	2500	2290		ug/Kg		92	70 - 125
Chlorobromomethane	2500	2530		ug/Kg		101	65 - 125
Chlorodibromomethane	2500	2520		ug/Kg		101	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518867/5
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2500	2150		ug/Kg		86	40 - 140
Chloroform	2500	2530		ug/Kg		101	75 - 130
Chloromethane	2500	2140		ug/Kg		86	30 - 140
cis-1,2-Dichloroethene	2500	2320		ug/Kg		93	65 - 130
cis-1,3-Dichloropropene	2500	2460		ug/Kg		98	70 - 130
Dibromomethane	2500	2270		ug/Kg		91	65 - 130
Dichlorobromomethane	2500	2650		ug/Kg		106	65 - 135
Dichlorodifluoromethane	2500	1420		ug/Kg		57	10 - 155
Ethylbenzene	2500	2360		ug/Kg		94	80 - 120
Hexachlorobutadiene	2500	2360		ug/Kg		94	60 - 135
Isopropylbenzene	2500	2410		ug/Kg		96	70 - 125
Methyl tert-butyl ether	2500	2420		ug/Kg		97	55 - 145
Methylene Chloride	2500	2210		ug/Kg		89	60 - 140
m-Xylene & p-Xylene	2500	2340		ug/Kg		94	70 - 125
Naphthalene	2500	2110		ug/Kg		85	50 - 140
n-Butylbenzene	2500	2480		ug/Kg		99	70 - 130
N-Propylbenzene	2500	2460		ug/Kg		98	70 - 130
o-Xylene	2500	2310		ug/Kg		93	70 - 125
sec-Butylbenzene	2500	2450		ug/Kg		98	70 - 125
Styrene	2500	2310		ug/Kg		92	70 - 135
tert-Butylbenzene	2500	2540		ug/Kg		102	70 - 125
Tetrachloroethene	2500	2410		ug/Kg		97	65 - 125
Toluene	2500	2220		ug/Kg		89	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2530		ug/Kg		101	60 - 140
trans-1,2-Dichloroethene	2500	2440		ug/Kg		97	65 - 130
trans-1,3-Dichloropropene	2500	2500		ug/Kg		100	65 - 135
Trichloroethene	2500	2480		ug/Kg		99	70 - 130
Ethylene Dibromide	2500	2240		ug/Kg		90	70 - 130
Trichlorofluoromethane	2500	2670		ug/Kg		107	50 - 145
2-Butanone (MEK)	2500	2200		ug/Kg		88	40 - 145
Vinyl acetate	2500	2500		ug/Kg		100	25 - 145
4-Methyl-2-pentanone (MIBK)	2500	2030		ug/Kg		81	40 - 145
Vinyl chloride	2500	2500		ug/Kg		100	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*

Lab Sample ID: LCSD 440-518867/6
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2500	2760		ug/Kg		110	70 - 140	7	20
1,1,1-Trichloroethane	2500	3160		ug/Kg		126	65 - 140	12	20
1,1,2,2-Tetrachloroethane	2500	2320		ug/Kg		93	55 - 135	6	25
1,1,2-Trichloroethane	2500	2550		ug/Kg		102	65 - 130	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-518867/6
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	2500	2770		ug/Kg		111	65 - 130	14	20
1,1-Dichloroethene	2500	2820		ug/Kg		113	75 - 140	16	20
1,1-Dichloropropene	2500	2800		ug/Kg		112	70 - 130	17	20
1,2,3-Trichlorobenzene	2500	2500		ug/Kg		100	60 - 135	8	20
1,2,3-Trichloropropane	2500	2670		ug/Kg		107	55 - 130	5	25
1,2,4-Trichlorobenzene	2500	2430		ug/Kg		97	65 - 135	6	20
1,2,4-Trimethylbenzene	2500	2690		ug/Kg		108	70 - 125	7	20
1,2-Dibromo-3-Chloropropane	2500	2580		ug/Kg		103	45 - 135	8	25
1,2-Dichlorobenzene	2500	2470		ug/Kg		99	70 - 120	3	20
1,2-Dichloroethane	2500	3040		ug/Kg		122	60 - 145	12	20
1,2-Dichloropropane	2500	2720		ug/Kg		109	75 - 125	12	20
1,3,5-Trimethylbenzene	2500	2660		ug/Kg		106	70 - 125	7	20
1,3-Dichlorobenzene	2500	2560		ug/Kg		102	70 - 125	5	20
1,3-Dichloropropane	2500	2490		ug/Kg		99	65 - 130	8	20
1,4-Dichlorobenzene	2500	2510		ug/Kg		100	70 - 125	3	20
2,2-Dichloropropane	2500	3080		ug/Kg		123	60 - 145	11	25
2-Chlorotoluene	2500	2540		ug/Kg		102	70 - 125	6	20
2-Hexanone	2500	2330		ug/Kg		93	35 - 140	10	30
4-Chlorotoluene	2500	2590		ug/Kg		104	70 - 125	5	20
4-Isopropyltoluene	2500	2660		ug/Kg		106	70 - 125	6	20
Benzene	2500	2640		ug/Kg		106	65 - 120	16	20
Bromobenzene	2500	2600		ug/Kg		104	70 - 120	6	20
Bromoform	2500	2790		ug/Kg		111	50 - 130	8	25
Bromomethane	2500	2820		ug/Kg		113	30 - 140	15	30
Carbon disulfide	2500	2500		ug/Kg		100	50 - 130	14	20
Carbon tetrachloride	2500	3310		ug/Kg		133	65 - 145	14	20
Chlorobenzene	2500	2600		ug/Kg		104	70 - 125	13	20
Chlorobromomethane	2500	2770		ug/Kg		111	65 - 125	9	20
Chlorodibromomethane	2500	2710		ug/Kg		108	65 - 140	7	20
Chloroethane	2500	2510		ug/Kg		101	40 - 140	16	25
Chloroform	2500	2890		ug/Kg		116	75 - 130	13	20
Chloromethane	2500	2450		ug/Kg		98	30 - 140	13	25
cis-1,2-Dichloroethene	2500	2590		ug/Kg		103	65 - 130	11	20
cis-1,3-Dichloropropene	2500	2620		ug/Kg		105	70 - 130	6	20
Dibromomethane	2500	2540		ug/Kg		102	65 - 130	11	20
Dichlorobromomethane	2500	2970		ug/Kg		119	65 - 135	11	20
Dichlorodifluoromethane	2500	1660		ug/Kg		66	10 - 155	16	30
Ethylbenzene	2500	2600		ug/Kg		104	80 - 120	10	20
Hexachlorobutadiene	2500	2560		ug/Kg		102	60 - 135	8	20
Isopropylbenzene	2500	2650		ug/Kg		106	70 - 125	9	20
Methyl tert-butyl ether	2500	2820		ug/Kg		113	55 - 145	15	25
Methylene Chloride	2500	2550		ug/Kg		102	60 - 140	14	20
m-Xylene & p-Xylene	2500	2630		ug/Kg		105	70 - 125	11	20
Naphthalene	2500	2320		ug/Kg		93	50 - 140	9	25
n-Butylbenzene	2500	2610		ug/Kg		104	70 - 130	5	20
N-Propylbenzene	2500	2630		ug/Kg		105	70 - 130	7	20
o-Xylene	2500	2550		ug/Kg		102	70 - 125	10	20
sec-Butylbenzene	2500	2640		ug/Kg		105	70 - 125	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-518867/6
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Styrene			2500	2510		ug/Kg		100	70 - 135	8	20
tert-Butylbenzene			2500	2730		ug/Kg		109	70 - 125	7	20
Tetrachloroethene			2500	2660		ug/Kg		107	65 - 125	10	20
Toluene			2500	2460		ug/Kg		98	80 - 120	10	20
1,1,2-Trichloro-1,2,2-trifluoroethane			2500	2830		ug/Kg		113	60 - 140	11	40
trans-1,2-Dichloroethene			2500	2800		ug/Kg		112	65 - 130	14	20
trans-1,3-Dichloropropene			2500	2770		ug/Kg		111	65 - 135	10	20
Trichloroethene			2500	2790		ug/Kg		112	70 - 130	12	20
Ethylene Dibromide			2500	2430		ug/Kg		97	70 - 130	8	20
Trichlorofluoromethane			2500	3060		ug/Kg		122	50 - 145	13	25
2-Butanone (MEK)			2500	2040		ug/Kg		82	40 - 145	7	30
Vinyl acetate			2500	2700		ug/Kg		108	25 - 145	8	25
4-Methyl-2-pentanone (MIBK)			2500	2170		ug/Kg		87	40 - 145	7	30
Vinyl chloride			2500	2830		ug/Kg		113	10 - 120	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*

Lab Sample ID: MB 440-518870/4
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/22/18 09:46	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/22/18 09:46	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/22/18 09:46	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/22/18 09:46	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
2-Hexanone	ND		10	5.0	ug/Kg			12/22/18 09:46	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518870/4
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Benzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Bromoform	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/22/18 09:46	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Chloroform	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/22/18 09:46	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Styrene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Toluene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/22/18 09:46	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/22/18 09:46	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/22/18 09:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/22/18 09:46	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/22/18 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*79 - 123*		*12/22/18 09:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/22/18 09:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518870/5
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	59.8		ug/Kg		120	70 - 130
1,1,1-Trichloroethane	50.0	59.6		ug/Kg		119	65 - 135
1,1,2,2-Tetrachloroethane	50.0	61.6		ug/Kg		123	55 - 140
1,1,2-Trichloroethane	50.0	59.5		ug/Kg		119	65 - 135
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 130
1,1-Dichloroethene	50.0	53.5		ug/Kg		107	70 - 125
1,1-Dichloropropene	50.0	57.8		ug/Kg		116	70 - 130
1,2,3-Trichlorobenzene	50.0	61.7		ug/Kg		123	60 - 130
1,2,3-Trichloropropane	50.0	65.7		ug/Kg		131	60 - 135
1,2,4-Trichlorobenzene	50.0	60.9		ug/Kg		122	70 - 135
1,2,4-Trimethylbenzene	50.0	57.3		ug/Kg		115	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	60.9		ug/Kg		122	50 - 135
1,2-Dichlorobenzene	50.0	59.3		ug/Kg		119	75 - 120
1,2-Dichloroethane	50.0	53.7		ug/Kg		107	60 - 140
1,2-Dichloropropane	50.0	58.7		ug/Kg		117	70 - 130
1,3,5-Trimethylbenzene	50.0	57.5		ug/Kg		115	70 - 125
1,3-Dichlorobenzene	50.0	56.4		ug/Kg		113	75 - 125
1,3-Dichloropropane	50.0	55.7		ug/Kg		111	70 - 125
1,4-Dichlorobenzene	50.0	57.7		ug/Kg		115	75 - 120
2,2-Dichloropropane	50.0	54.4		ug/Kg		109	60 - 145
2-Chlorotoluene	50.0	57.6		ug/Kg		115	70 - 125
2-Hexanone	50.0	49.3		ug/Kg		99	40 - 150
4-Chlorotoluene	50.0	58.3		ug/Kg		117	75 - 125
4-Isopropyltoluene	50.0	57.6		ug/Kg		115	75 - 125
Benzene	50.0	57.7		ug/Kg		115	65 - 120
Bromobenzene	50.0	61.3	*	ug/Kg		123	75 - 120
Bromoform	50.0	60.6		ug/Kg		121	55 - 135
Bromomethane	50.0	45.4		ug/Kg		91	60 - 145
Carbon disulfide	50.0	51.5		ug/Kg		103	50 - 130
Carbon tetrachloride	50.0	58.0		ug/Kg		116	65 - 140
Chlorobenzene	50.0	55.2		ug/Kg		110	75 - 120
Chlorobromomethane	50.0	61.8		ug/Kg		124	70 - 135
Chlorodibromomethane	50.0	57.5		ug/Kg		115	65 - 140
Chloroethane	50.0	42.3		ug/Kg		85	60 - 140
Chloroform	50.0	59.2		ug/Kg		118	70 - 130
Chloromethane	50.0	27.6		ug/Kg		55	45 - 145
cis-1,2-Dichloroethene	50.0	60.4		ug/Kg		121	70 - 125
cis-1,3-Dichloropropene	50.0	58.9		ug/Kg		118	75 - 125
Dibromomethane	50.0	59.0		ug/Kg		118	70 - 130
Dichlorobromomethane	50.0	59.4		ug/Kg		119	70 - 135
Dichlorodifluoromethane	50.0	29.1		ug/Kg		58	35 - 160
Ethylbenzene	50.0	54.4		ug/Kg		109	70 - 125
Hexachlorobutadiene	50.0	58.3		ug/Kg		117	60 - 135
Isopropylbenzene	50.0	56.8		ug/Kg		114	75 - 130
Methyl tert-butyl ether	50.0	60.5		ug/Kg		121	60 - 140
Methylene Chloride	50.0	56.8		ug/Kg		114	55 - 135
m-Xylene & p-Xylene	50.0	55.6		ug/Kg		111	70 - 125
Naphthalene	50.0	62.2		ug/Kg		124	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518870/5
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Butylbenzene	50.0	56.5		ug/Kg		113	70 - 130
N-Propylbenzene	50.0	58.4		ug/Kg		117	70 - 130
o-Xylene	50.0	56.5		ug/Kg		113	70 - 125
sec-Butylbenzene	50.0	58.8		ug/Kg		118	70 - 125
Styrene	50.0	55.4		ug/Kg		111	75 - 130
tert-Butylbenzene	50.0	58.8		ug/Kg		118	70 - 125
Tetrachloroethene	50.0	53.4		ug/Kg		107	70 - 125
Toluene	50.0	56.8		ug/Kg		114	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.3		ug/Kg		107	60 - 140
trans-1,2-Dichloroethene	50.0	59.9		ug/Kg		120	70 - 125
trans-1,3-Dichloropropene	50.0	56.9		ug/Kg		114	70 - 135
Trichloroethene	50.0	61.0		ug/Kg		122	70 - 125
Ethylene Dibromide	50.0	60.9		ug/Kg		122	70 - 130
Trichlorofluoromethane	50.0	43.0		ug/Kg		86	60 - 145
2-Butanone (MEK)	50.0	69.3		ug/Kg		139	40 - 145
Vinyl acetate	50.0	51.1		ug/Kg		102	45 - 145
4-Methyl-2-pentanone (MIBK)	50.0	46.1		ug/Kg		92	40 - 145
Vinyl chloride	50.0	34.7		ug/Kg		69	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*

Lab Sample ID: 720-90446-A-1-E MS
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		39.7	51.2		ug/Kg		129	65 - 145
1,1,1-Trichloroethane	ND		39.7	46.3		ug/Kg		117	65 - 145
1,1,2,2-Tetrachloroethane	ND		39.7	49.6		ug/Kg		125	40 - 160
1,1,2-Trichloroethane	ND		39.7	48.6		ug/Kg		123	65 - 140
1,1-Dichloroethane	ND		39.7	40.3		ug/Kg		102	65 - 135
1,1-Dichloroethene	ND		39.7	40.7		ug/Kg		103	65 - 135
1,1-Dichloropropene	ND		39.7	45.8		ug/Kg		115	65 - 135
1,2,3-Trichlorobenzene	ND		39.7	47.1		ug/Kg		119	45 - 145
1,2,3-Trichloropropane	ND		39.7	50.6		ug/Kg		128	50 - 150
1,2,4-Trichlorobenzene	ND		39.7	46.7		ug/Kg		118	50 - 140
1,2,4-Trimethylbenzene	ND		39.7	44.9		ug/Kg		113	65 - 140
1,2-Dibromo-3-Chloropropane	ND		39.7	46.8		ug/Kg		118	40 - 150
1,2-Dichlorobenzene	ND		39.7	46.3		ug/Kg		117	70 - 130
1,2-Dichloroethane	ND		39.7	42.9		ug/Kg		108	60 - 150
1,2-Dichloropropane	ND		39.7	46.3		ug/Kg		117	65 - 130
1,3,5-Trimethylbenzene	ND		39.7	46.2		ug/Kg		116	65 - 135
1,3-Dichlorobenzene	ND		39.7	45.3		ug/Kg		114	70 - 130
1,3-Dichloropropane	ND		39.7	46.6		ug/Kg		117	65 - 140
1,4-Dichlorobenzene	ND		39.7	45.8		ug/Kg		115	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-A-1-E MS
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		39.7	42.4		ug/Kg		107	65 - 150
2-Chlorotoluene	ND		39.7	45.7		ug/Kg		115	60 - 135
2-Hexanone	ND		39.7	39.5		ug/Kg		100	35 - 160
4-Chlorotoluene	ND		39.7	45.8		ug/Kg		116	65 - 135
4-Isopropyltoluene	ND		39.7	45.9		ug/Kg		116	60 - 140
Benzene	ND		39.7	44.0		ug/Kg		111	65 - 130
Bromobenzene	ND	*	39.7	49.0		ug/Kg		123	65 - 140
Bromoform	ND		39.7	49.6		ug/Kg		125	50 - 145
Bromomethane	ND		39.7	35.1		ug/Kg		89	60 - 155
Carbon disulfide	ND		39.7	40.5		ug/Kg		102	40 - 140
Carbon tetrachloride	ND		39.7	45.3		ug/Kg		114	60 - 145
Chlorobenzene	ND		39.7	45.5		ug/Kg		115	70 - 130
Chlorobromomethane	ND		39.7	47.4		ug/Kg		119	65 - 145
Chlorodibromomethane	ND		39.7	47.6		ug/Kg		120	60 - 145
Chloroethane	ND		39.7	33.3		ug/Kg		84	60 - 150
Chloroform	ND		39.7	46.2		ug/Kg		116	65 - 135
Chloromethane	ND		39.7	19.9		ug/Kg		50	40 - 145
cis-1,2-Dichloroethene	ND		39.7	45.8		ug/Kg		116	65 - 135
cis-1,3-Dichloropropene	ND		39.7	49.1		ug/Kg		124	70 - 135
Dibromomethane	ND		39.7	45.6		ug/Kg		115	65 - 140
Dichlorobromomethane	ND		39.7	45.0		ug/Kg		113	65 - 145
Dichlorodifluoromethane	ND		39.7	23.5		ug/Kg		59	30 - 160
Ethylbenzene	ND		39.7	44.6		ug/Kg		113	70 - 135
Hexachlorobutadiene	ND		39.7	41.9		ug/Kg		106	50 - 145
Isopropylbenzene	ND		39.7	47.1		ug/Kg		119	70 - 145
Methyl tert-butyl ether	ND		39.7	45.7		ug/Kg		115	55 - 155
Methylene Chloride	ND		39.7	44.1		ug/Kg		111	55 - 145
m-Xylene & p-Xylene	ND		39.7	46.6		ug/Kg		117	70 - 130
Naphthalene	ND		39.7	48.9		ug/Kg		123	40 - 150
n-Butylbenzene	ND		39.7	44.5		ug/Kg		112	55 - 145
N-Propylbenzene	ND		39.7	45.9		ug/Kg		116	65 - 140
o-Xylene	ND		39.7	46.6		ug/Kg		117	65 - 130
sec-Butylbenzene	ND		39.7	45.5		ug/Kg		115	60 - 135
Styrene	ND		39.7	44.6		ug/Kg		112	70 - 140
tert-Butylbenzene	ND		39.7	45.0		ug/Kg		113	60 - 140
Tetrachloroethene	ND		39.7	45.1		ug/Kg		114	65 - 135
Toluene	ND		39.7	47.0		ug/Kg		118	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		39.7	44.0		ug/Kg		111	60 - 140
trans-1,2-Dichloroethene	ND		39.7	46.3		ug/Kg		117	70 - 135
trans-1,3-Dichloropropene	ND		39.7	48.2		ug/Kg		121	60 - 145
Trichloroethene	ND		39.7	47.2		ug/Kg		119	65 - 140
Ethylene Dibromide	ND		39.7	49.7		ug/Kg		125	65 - 140
Trichlorofluoromethane	ND		39.7	34.2		ug/Kg		86	55 - 155
2-Butanone (MEK)	ND		39.7	49.1		ug/Kg		124	25 - 170
Vinyl acetate	ND	F1 F2	39.7	23.7		ug/Kg		60	40 - 150
4-Methyl-2-pentanone (MIBK)	ND		39.7	37.3		ug/Kg		94	40 - 155
Vinyl chloride	ND		39.7	27.8		ug/Kg		70	55 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-A-1-E MS
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518913

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*107*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*

Lab Sample ID: 720-90446-A-1-F MSD
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		45.4	53.3		ug/Kg		118	65 - 145	4	20
1,1,1-Trichloroethane	ND		45.4	50.8		ug/Kg		112	65 - 145	9	20
1,1,2,2-Tetrachloroethane	ND		45.4	54.9		ug/Kg		121	40 - 160	10	30
1,1,2-Trichloroethane	ND		45.4	52.3		ug/Kg		115	65 - 140	7	30
1,1-Dichloroethane	ND		45.4	43.8		ug/Kg		97	65 - 135	8	25
1,1-Dichloroethene	ND		45.4	44.7		ug/Kg		98	65 - 135	9	25
1,1-Dichloropropene	ND		45.4	50.9		ug/Kg		112	65 - 135	11	20
1,2,3-Trichlorobenzene	ND		45.4	49.8		ug/Kg		110	45 - 145	6	30
1,2,3-Trichloropropane	ND		45.4	56.8		ug/Kg		125	50 - 150	12	30
1,2,4-Trichlorobenzene	ND		45.4	50.4		ug/Kg		111	50 - 140	8	30
1,2,4-Trimethylbenzene	ND		45.4	51.9		ug/Kg		114	65 - 140	15	25
1,2-Dibromo-3-Chloropropane	ND		45.4	48.4		ug/Kg		107	40 - 150	3	30
1,2-Dichlorobenzene	ND		45.4	51.9		ug/Kg		114	70 - 130	11	25
1,2-Dichloroethane	ND		45.4	45.8		ug/Kg		101	60 - 150	7	25
1,2-Dichloropropane	ND		45.4	49.6		ug/Kg		109	65 - 130	7	20
1,3,5-Trimethylbenzene	ND		45.4	52.0		ug/Kg		115	65 - 135	12	25
1,3-Dichlorobenzene	ND		45.4	52.5		ug/Kg		116	70 - 130	15	25
1,3-Dichloropropane	ND		45.4	50.7		ug/Kg		112	65 - 140	9	25
1,4-Dichlorobenzene	ND		45.4	52.3		ug/Kg		115	70 - 130	13	25
2,2-Dichloropropane	ND		45.4	46.8		ug/Kg		103	65 - 150	10	25
2-Chlorotoluene	ND		45.4	52.1		ug/Kg		115	60 - 135	13	25
2-Hexanone	ND		45.4	40.9		ug/Kg		90	35 - 160	4	40
4-Chlorotoluene	ND		45.4	52.1		ug/Kg		115	65 - 135	13	25
4-Isopropyltoluene	ND		45.4	53.4		ug/Kg		118	60 - 140	15	25
Benzene	ND		45.4	48.5		ug/Kg		107	65 - 130	10	20
Bromobenzene	ND	*	45.4	54.9		ug/Kg		121	65 - 140	11	25
Bromoform	ND		45.4	54.5		ug/Kg		120	50 - 145	9	30
Bromomethane	ND		45.4	39.6		ug/Kg		87	60 - 155	12	25
Carbon disulfide	ND		45.4	42.5		ug/Kg		94	40 - 140	5	20
Carbon tetrachloride	ND		45.4	48.9		ug/Kg		108	60 - 145	8	25
Chlorobenzene	ND		45.4	49.2		ug/Kg		108	70 - 130	8	25
Chlorobromomethane	ND		45.4	52.2		ug/Kg		115	65 - 145	10	25
Chlorodibromomethane	ND		45.4	50.8		ug/Kg		112	60 - 145	7	25
Chloroethane	ND		45.4	35.5		ug/Kg		78	60 - 150	6	25
Chloroform	ND		45.4	49.5		ug/Kg		109	65 - 135	7	20
Chloromethane	ND		45.4	22.0		ug/Kg		48	40 - 145	10	25
cis-1,2-Dichloroethene	ND		45.4	48.5		ug/Kg		107	65 - 135	6	25
cis-1,3-Dichloropropene	ND		45.4	52.3		ug/Kg		115	70 - 135	6	25
Dibromomethane	ND		45.4	50.0		ug/Kg		110	65 - 140	9	25
Dichlorobromomethane	ND		45.4	48.9		ug/Kg		108	65 - 145	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-A-1-F MSD
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND		45.4	25.3		ug/Kg		56	30 - 160	8	35
Ethylbenzene	ND		45.4	48.6		ug/Kg		107	70 - 135	8	25
Hexachlorobutadiene	ND		45.4	49.5		ug/Kg		109	50 - 145	17	35
Isopropylbenzene	ND		45.4	50.3		ug/Kg		111	70 - 145	7	25
Methyl tert-butyl ether	ND		45.4	51.6		ug/Kg		114	55 - 155	12	35
Methylene Chloride	ND		45.4	48.4		ug/Kg		107	55 - 145	9	25
m-Xylene & p-Xylene	ND		45.4	49.3		ug/Kg		109	70 - 130	6	25
Naphthalene	ND		45.4	52.9		ug/Kg		117	40 - 150	8	40
n-Butylbenzene	ND		45.4	50.4		ug/Kg		111	55 - 145	12	30
N-Propylbenzene	ND		45.4	52.6		ug/Kg		116	65 - 140	14	25
o-Xylene	ND		45.4	49.4		ug/Kg		109	65 - 130	6	25
sec-Butylbenzene	ND		45.4	52.7		ug/Kg		116	60 - 135	15	25
Styrene	ND		45.4	47.9		ug/Kg		105	70 - 140	7	25
tert-Butylbenzene	ND		45.4	52.6		ug/Kg		116	60 - 140	15	25
Tetrachloroethene	ND		45.4	48.0		ug/Kg		106	65 - 135	6	25
Toluene	ND		45.4	50.0		ug/Kg		110	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		45.4	47.1		ug/Kg		104	60 - 140	7	40
trans-1,2-Dichloroethene	ND		45.4	50.0		ug/Kg		110	70 - 135	8	25
trans-1,3-Dichloropropene	ND		45.4	50.0		ug/Kg		110	60 - 145	4	25
Trichloroethene	ND		45.4	52.2		ug/Kg		115	65 - 140	10	25
Ethylene Dibromide	ND		45.4	53.3		ug/Kg		117	65 - 140	7	25
Trichlorofluoromethane	ND		45.4	36.7		ug/Kg		81	55 - 155	7	25
2-Butanone (MEK)	ND		45.4	55.7		ug/Kg		123	25 - 170	12	40
Vinyl acetate	ND	F1 F2	45.4	14.8	F1 F4	ug/Kg		33	40 - 150	46	30
4-Methyl-2-pentanone (MIBK)	ND		45.4	39.8		ug/Kg		88	40 - 155	6	40
Vinyl chloride	ND		45.4	28.7		ug/Kg		63	55 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-518647/4
Matrix: Solid
Analysis Batch: 518647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/21/18 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*		*12/21/18 08:57*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*12/21/18 08:57*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*		*12/21/18 08:57*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-518647/6
Matrix: Solid
Analysis Batch: 518647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	762		ug/Kg		76	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: MB 440-518652/4
Matrix: Solid
Analysis Batch: 518652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/21/18 08:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*		*12/21/18 08:48*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*		*12/21/18 08:48*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*		*12/21/18 08:48*	*1*

Lab Sample ID: LCS 440-518652/6
Matrix: Solid
Analysis Batch: 518652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	763		ug/Kg		76	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*60 - 120*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Toluene-d8 (Surr)	*111*		*79 - 123*

Lab Sample ID: 720-90388-A-6-E MS
Matrix: Solid
Analysis Batch: 518647

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2930	2690		ug/Kg		92	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*60 - 120*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90388-A-6-F MSD
Matrix: Solid
Analysis Batch: 518647

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3110	2720		ug/Kg		87	55 - 140	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*60 - 120*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: 720-90388-B-2-A MS
Matrix: Solid
Analysis Batch: 518652

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		3070	2920		ug/Kg		95	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*108*		*79 - 123*

Lab Sample ID: 720-90388-B-2-B MSD
Matrix: Solid
Analysis Batch: 518652

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		2990	2890		ug/Kg		97	55 - 140	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: MB 440-518871/4
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/22/18 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*12/22/18 09:46*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*12/22/18 09:46*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*12/22/18 09:46*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-518871/6
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	827		ug/Kg		83	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: 720-90446-A-1-E MS
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2740	2740		ug/Kg		100	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: 720-90446-A-1-F MSD
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3130	2990		ug/Kg		96	55 - 140	9	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: MB 440-519009/4
Matrix: Solid
Analysis Batch: 519009

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/24/18 08:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*12/24/18 08:24*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*		*12/24/18 08:24*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*		*12/24/18 08:24*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-519009/6
Matrix: Solid
Analysis Batch: 519009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	777		ug/Kg		78	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*114*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MS
Matrix: Solid
Analysis Batch: 519009

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	180		3390	3490		ug/Kg		98	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*7*	*X*	*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*109*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MSD
Matrix: Solid
Analysis Batch: 519009

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	180		3380	2860		ug/Kg		79	55 - 140	20	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*3*	*X*	*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: MB 440-520241/4
Matrix: Solid
Analysis Batch: 520241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			12/31/18 20:09	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*55 - 140*		*12/31/18 20:09*	*100*
4-Bromofluorobenzene (Surr)	*107*		*65 - 140*		*12/31/18 20:09*	*100*
Toluene-d8 (Surr)	*118*		*60 - 140*		*12/31/18 20:09*	*100*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-520241/7
Matrix: Solid
Analysis Batch: 520241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			50000	64500		ug/Kg		129	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*55 - 140*
4-Bromofluorobenzene (Surr)	*104*		*65 - 140*
Toluene-d8 (Surr)	*114*		*60 - 140*

Lab Sample ID: LCSD 440-520241/8
Matrix: Solid
Analysis Batch: 520241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			50000	63200		ug/Kg		126	60 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*55 - 140*
4-Bromofluorobenzene (Surr)	*104*		*65 - 140*
Toluene-d8 (Surr)	*113*		*60 - 140*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-257381/1-A
Matrix: Solid
Analysis Batch: 257669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257381

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Anthracene	ND		5.0	2.0	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[b]fluoranthene	2.18	J	5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Chrysene	ND		5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Fluorene	ND		5.0	2.2	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/20/18 16:21	12/27/18 16:11	1
Pyrene	ND		5.0	1.7	ug/Kg		12/20/18 16:21	12/27/18 16:11	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-257381/1-A
Matrix: Solid
Analysis Batch: 257669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257381

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		33 - 120	12/20/18 16:21	12/27/18 16:11	1
Terphenyl-d14	94		35 - 146	12/20/18 16:21	12/27/18 16:11	1

Lab Sample ID: LCS 720-257381/2-A
Matrix: Solid
Analysis Batch: 257669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	454		ug/Kg		68	46 - 110
Acenaphthene	667	459		ug/Kg		69	46 - 106
Acenaphthylene	667	507		ug/Kg		76	46 - 108
Anthracene	667	489		ug/Kg		73	55 - 103
Benzo[a]anthracene	667	543		ug/Kg		81	54 - 110
Benzo[a]pyrene	667	549		ug/Kg		82	62 - 111
Benzo[b]fluoranthene	667	529		ug/Kg		79	60 - 109
Benzo[g,h,i]perylene	667	455		ug/Kg		68	52 - 114
Benzo[k]fluoranthene	667	501		ug/Kg		75	58 - 109
Chrysene	667	498		ug/Kg		75	54 - 108
Dibenz(a,h)anthracene	667	499		ug/Kg		75	58 - 112
Fluoranthene	667	542		ug/Kg		81	59 - 109
Fluorene	667	483		ug/Kg		72	52 - 106
Indeno[1,2,3-cd]pyrene	667	518		ug/Kg		78	55 - 120
Naphthalene	667	444		ug/Kg		67	49 - 110
Phenanthrene	667	462		ug/Kg		69	57 - 110
Pyrene	667	548		ug/Kg		82	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	68		33 - 120
Terphenyl-d14	90		35 - 146

Lab Sample ID: 720-90388-E-6-J MS
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	83		665	527		ug/Kg		67	46 - 110
Acenaphthene	ND		665	448		ug/Kg		67	46 - 106
Acenaphthylene	100		665	637		ug/Kg		80	46 - 108
Anthracene	110		665	631		ug/Kg		78	55 - 103
Benzo[a]anthracene	140		665	762		ug/Kg		94	54 - 110
Benzo[a]pyrene	250		665	843		ug/Kg		90	62 - 111
Benzo[b]fluoranthene	360	B	665	999		ug/Kg		96	60 - 109
Benzo[g,h,i]perylene	170	F1	665	453	F1	ug/Kg		43	52 - 114
Benzo[k]fluoranthene	100		665	799		ug/Kg		105	58 - 109
Chrysene	240		665	884		ug/Kg		97	54 - 108
Dibenz(a,h)anthracene	50	F1	665	398	F1	ug/Kg		52	58 - 112
Fluoranthene	200	F1 F2	665	1030	F1	ug/Kg		124	59 - 109
Fluorene	12	J	665	521		ug/Kg		77	52 - 106

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90388-E-6-J MS
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Indeno[1,2,3-cd]pyrene	130	F1	665	510		ug/Kg		56	55 - 120
Naphthalene	78		665	499		ug/Kg		63	49 - 110
Phenanthrene	130		665	694		ug/Kg		84	57 - 110
Pyrene	400	F1 F2	665	1440	F1	ug/Kg		156	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*33 - 120*
Terphenyl-d14	*98*		*35 - 146*

Lab Sample ID: 720-90388-E-6-K MSD
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	83		662	486		ug/Kg		61	46 - 110	8	35
Acenaphthene	ND		662	418		ug/Kg		63	46 - 106	7	35
Acenaphthylene	100		662	652		ug/Kg		83	46 - 108	2	35
Anthracene	110		662	615		ug/Kg		76	55 - 103	3	35
Benzo[a]anthracene	140		662	630		ug/Kg		74	54 - 110	19	35
Benzo[a]pyrene	250		662	775		ug/Kg		80	62 - 111	8	35
Benzo[b]fluoranthene	360	B	662	859		ug/Kg		75	60 - 109	15	35
Benzo[g,h,i]perylene	170	F1	662	388	F1	ug/Kg		33	52 - 114	15	35
Benzo[k]fluoranthene	100		662	761		ug/Kg		99	58 - 109	5	35
Chrysene	240		662	701		ug/Kg		69	54 - 108	23	35
Dibenz(a,h)anthracene	50	F1	662	338	F1	ug/Kg		44	58 - 112	16	35
Fluoranthene	200	F1 F2	662	685	F2	ug/Kg		73	59 - 109	40	35
Fluorene	12	J	662	490		ug/Kg		72	52 - 106	6	35
Indeno[1,2,3-cd]pyrene	130	F1	662	440	F1	ug/Kg		46	55 - 120	15	35
Naphthalene	78		662	462		ug/Kg		58	49 - 110	8	35
Phenanthrene	130		662	536		ug/Kg		61	57 - 110	26	35
Pyrene	400	F1 F2	662	984	F2	ug/Kg		88	50 - 120	38	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*33 - 120*
Terphenyl-d14	*93*		*35 - 146*

Lab Sample ID: MB 720-257530/1-A
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Anthracene	ND		5.0	2.0	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Benzo[b]fluoranthene	2.18	J	5.0	2.1	ug/Kg		12/24/18 10:19	12/27/18 00:01	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-257530/1-A
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Chrysene	ND		5.0	1.4	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Fluorene	ND		5.0	2.2	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/24/18 10:19	12/27/18 00:01	1
Pyrene	ND		5.0	1.7	ug/Kg		12/24/18 10:19	12/27/18 00:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*12/24/18 10:19*	*12/27/18 00:01*	*1*
Terphenyl-d14	*85*		*35 - 146*	*12/24/18 10:19*	*12/27/18 00:01*	*1*

Lab Sample ID: LCS 720-257530/2-A
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	427		ug/Kg		64	46 - 110
Acenaphthene	667	430		ug/Kg		65	46 - 106
Acenaphthylene	667	457		ug/Kg		69	46 - 108
Anthracene	667	480		ug/Kg		72	55 - 103
Benzo[a]anthracene	667	539		ug/Kg		81	54 - 110
Benzo[a]pyrene	667	542		ug/Kg		81	62 - 111
Benzo[b]fluoranthene	667	528		ug/Kg		79	60 - 109
Benzo[g,h,i]perylene	667	505		ug/Kg		76	52 - 114
Benzo[k]fluoranthene	667	498		ug/Kg		75	58 - 109
Chrysene	667	498		ug/Kg		75	54 - 108
Dibenz(a,h)anthracene	667	515		ug/Kg		77	58 - 112
Fluoranthene	667	528		ug/Kg		79	59 - 109
Fluorene	667	457		ug/Kg		69	52 - 106
Indeno[1,2,3-cd]pyrene	667	551		ug/Kg		83	55 - 120
Naphthalene	667	415		ug/Kg		62	49 - 110
Phenanthrene	667	463		ug/Kg		69	57 - 110
Pyrene	667	553		ug/Kg		83	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*33 - 120*
Terphenyl-d14	*91*		*35 - 146*

Lab Sample ID: 720-90388-E-2-G MS
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		662	417		ug/Kg		63	46 - 110

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90388-E-2-G MS
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		662	428		ug/Kg		65	46 - 106
Acenaphthylene	ND		662	456		ug/Kg		69	46 - 108
Anthracene	ND		662	459		ug/Kg		69	55 - 103
Benzo[a]anthracene	20		662	529		ug/Kg		77	54 - 110
Benzo[a]pyrene	3.1	J	662	516		ug/Kg		78	62 - 111
Benzo[b]fluoranthene	62	B	662	539		ug/Kg		72	60 - 109
Benzo[g,h,i]perylene	ND		662	511		ug/Kg		77	52 - 114
Benzo[k]fluoranthene	ND		662	483		ug/Kg		73	58 - 109
Chrysene	30		662	509		ug/Kg		72	54 - 108
Dibenz(a,h)anthracene	3.9	J	662	509		ug/Kg		76	58 - 112
Fluoranthene	11		662	530		ug/Kg		78	59 - 109
Fluorene	ND		662	453		ug/Kg		68	52 - 106
Indeno[1,2,3-cd]pyrene	ND		662	543		ug/Kg		82	55 - 120
Naphthalene	5.3		662	409		ug/Kg		61	49 - 110
Phenanthrene	30		662	493		ug/Kg		70	57 - 110
Pyrene	5.1		662	558		ug/Kg		83	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*33 - 120*
Terphenyl-d14	*90*		*35 - 146*

Lab Sample ID: 720-90388-E-2-H MSD
Matrix: Solid
Analysis Batch: 257593

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		661	431		ug/Kg		65	46 - 110	3	35
Acenaphthene	ND		661	428		ug/Kg		65	46 - 106	0	35
Acenaphthylene	ND		661	461		ug/Kg		70	46 - 108	1	35
Anthracene	ND		661	466		ug/Kg		71	55 - 103	1	35
Benzo[a]anthracene	20		661	536		ug/Kg		78	54 - 110	1	35
Benzo[a]pyrene	3.1	J	661	523		ug/Kg		79	62 - 111	1	35
Benzo[b]fluoranthene	62	B	661	538		ug/Kg		72	60 - 109	0	35
Benzo[g,h,i]perylene	ND		661	532		ug/Kg		81	52 - 114	4	35
Benzo[k]fluoranthene	ND		661	484		ug/Kg		73	58 - 109	0	35
Chrysene	30		661	499		ug/Kg		71	54 - 108	2	35
Dibenz(a,h)anthracene	3.9	J	661	521		ug/Kg		78	58 - 112	2	35
Fluoranthene	11		661	533		ug/Kg		79	59 - 109	1	35
Fluorene	ND		661	462		ug/Kg		70	52 - 106	2	35
Indeno[1,2,3-cd]pyrene	ND		661	557		ug/Kg		84	55 - 120	3	35
Naphthalene	5.3		661	413		ug/Kg		62	49 - 110	1	35
Phenanthrene	30		661	491		ug/Kg		70	57 - 110	0	35
Pyrene	5.1		661	571		ug/Kg		86	50 - 120	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*33 - 120*
Terphenyl-d14	*91*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-257608/1-A
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.98	J	10	5.0	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[b]fluoranthene	2.22	J	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Chrysene	ND		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Pyrene	ND		5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 03:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*12/26/18 12:40*	*12/28/18 03:07*	*1*
Terphenyl-d14	*94*		*35 - 146*	*12/26/18 12:40*	*12/28/18 03:07*	*1*

Lab Sample ID: LCS 720-257608/2-A
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	477		ug/Kg		72	46 - 110
Acenaphthene	667	486		ug/Kg		73	46 - 106
Acenaphthylene	667	530		ug/Kg		79	46 - 108
Anthracene	667	514		ug/Kg		77	55 - 103
Benzo[a]anthracene	667	568		ug/Kg		85	54 - 110
Benzo[a]pyrene	667	578		ug/Kg		87	62 - 111
Benzo[b]fluoranthene	667	566		ug/Kg		85	60 - 109
Benzo[g,h,i]perylene	667	517		ug/Kg		78	52 - 114
Benzo[k]fluoranthene	667	522		ug/Kg		78	58 - 109
Chrysene	667	517		ug/Kg		78	54 - 108
Dibenz(a,h)anthracene	667	540		ug/Kg		81	58 - 112
Fluoranthene	667	566		ug/Kg		85	59 - 109
Fluorene	667	513		ug/Kg		77	52 - 106
Indeno[1,2,3-cd]pyrene	667	561		ug/Kg		84	55 - 120
Naphthalene	667	463		ug/Kg		69	49 - 110
Phenanthrene	667	491		ug/Kg		74	57 - 110
Pyrene	667	575		ug/Kg		86	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*33 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-257608/2-A
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257608

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*92*		*35 - 146*

Lab Sample ID: 720-90446-E-1-J MS
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	33	B	664	475		ug/Kg		67	46 - 110
Acenaphthene	3.0	J	664	481		ug/Kg		72	46 - 106
Acenaphthylene	16		664	519		ug/Kg		76	46 - 108
Anthracene	27		664	515		ug/Kg		73	55 - 103
Benzo[a]anthracene	50		664	598		ug/Kg		82	54 - 110
Benzo[a]pyrene	68		664	579		ug/Kg		77	62 - 111
Benzo[b]fluoranthene	110	B	664	628		ug/Kg		77	60 - 109
Benzo[g,h,i]perylene	33	F1	664	352	F1	ug/Kg		48	52 - 114
Benzo[k]fluoranthene	44		664	588		ug/Kg		82	58 - 109
Chrysene	74		664	568		ug/Kg		74	54 - 108
Dibenz(a,h)anthracene	11	F1	664	361	F1	ug/Kg		53	58 - 112
Fluoranthene	78		664	618		ug/Kg		81	59 - 109
Fluorene	2.9	J	664	518		ug/Kg		78	52 - 106
Indeno[1,2,3-cd]pyrene	28	F1	664	383	F1	ug/Kg		53	55 - 120
Naphthalene	22		664	452		ug/Kg		65	49 - 110
Phenanthrene	58		664	556		ug/Kg		75	57 - 110
Pyrene	100		664	755		ug/Kg		99	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*104*		*35 - 146*

Lab Sample ID: 720-90446-E-1-K MSD
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257608

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	33	B	662	491		ug/Kg		69	46 - 110	3	35
Acenaphthene	3.0	J	662	480		ug/Kg		72	46 - 106	0	35
Acenaphthylene	16		662	519		ug/Kg		76	46 - 108	0	35
Anthracene	27		662	519		ug/Kg		74	55 - 103	1	35
Benzo[a]anthracene	50		662	574		ug/Kg		79	54 - 110	4	35
Benzo[a]pyrene	68		662	559		ug/Kg		74	62 - 111	4	35
Benzo[b]fluoranthene	110	B	662	611		ug/Kg		75	60 - 109	3	35
Benzo[g,h,i]perylene	33	F1	662	279	F1	ug/Kg		37	52 - 114	23	35
Benzo[k]fluoranthene	44		662	587		ug/Kg		82	58 - 109	0	35
Chrysene	74		662	544		ug/Kg		71	54 - 108	4	35
Dibenz(a,h)anthracene	11	F1	662	345	F1	ug/Kg		50	58 - 112	4	35
Fluoranthene	78		662	580		ug/Kg		76	59 - 109	6	35
Fluorene	2.9	J	662	518		ug/Kg		78	52 - 106	0	35
Indeno[1,2,3-cd]pyrene	28	F1	662	350	F1	ug/Kg		49	55 - 120	9	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90446-E-1-K MSD
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257608

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	22		662	465		ug/Kg		67	49 - 110	3	35
Phenanthrene	58		662	542		ug/Kg		73	57 - 110	3	35
Pyrene	100		662	707		ug/Kg		91	50 - 120	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*107*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-257342/1-A
Matrix: Solid
Analysis Batch: 257326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.818	J	2.0	0.75	mg/Kg		12/20/18 09:45	12/20/18 22:48	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 09:45	12/20/18 22:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*40 - 130*	*12/20/18 09:45*	*12/20/18 22:48*	*1*

Lab Sample ID: LCS 720-257342/2-A
Matrix: Solid
Analysis Batch: 257326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	166		mg/Kg		100	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*111*		*40 - 130*

Lab Sample ID: 720-90388-E-2-D MS
Matrix: Solid
Analysis Batch: 257325

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	2.9	B	167	156		mg/Kg		92	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*114*		*40 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90388-E-2-E MSD
Matrix: Solid
Analysis Batch: 257325

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.9	B	166	160		mg/Kg		94	50 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*116*		*40 - 130*

Lab Sample ID: MB 720-257349/1-A
Matrix: Solid
Analysis Batch: 257325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.989	J	2.0	0.75	mg/Kg		12/20/18 11:14	12/21/18 02:27	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 11:14	12/21/18 02:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*12/20/18 11:14*	*12/21/18 02:27*	*1*

Lab Sample ID: LCS 720-257349/2-A
Matrix: Solid
Analysis Batch: 257325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	153		mg/Kg		92	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*120*		*40 - 130*

Lab Sample ID: 720-90388-E-6-G MS
Matrix: Solid
Analysis Batch: 257411

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	180	B	166	321		mg/Kg		88	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X*	*40 - 130*

Lab Sample ID: 720-90388-E-6-H MSD
Matrix: Solid
Analysis Batch: 257411

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257349

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	180	B	166	338		mg/Kg		98	50 - 150	5	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90388-E-6-H MSD
Matrix: Solid
Analysis Batch: 257411

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257349

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X*	*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-257333/1-A
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Aldrin	ND		2.0	0.50	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endrin	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/20/18 08:47	12/22/18 07:02	1
Toxaphene	ND		40	6.8	ug/Kg		12/20/18 08:47	12/22/18 07:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*21 - 136*	*12/20/18 08:47*	*12/22/18 07:02*	*1*
Tetrachloro-m-xylene	*84*		*21 - 145*	*12/20/18 08:47*	*12/22/18 07:02*	*1*

Lab Sample ID: LCS 720-257333/2-A
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	15.5		ug/Kg		93	75 - 128
4,4'-DDE	16.7	14.8		ug/Kg		89	76 - 126
4,4'-DDT	16.7	15.6		ug/Kg		94	63 - 127
Aldrin	16.7	12.9		ug/Kg		78	65 - 120
alpha-BHC	16.7	9.98		ug/Kg		60	46 - 122

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-257333/2-A
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-Chlordane	16.7	14.6		ug/Kg		87	70 - 120
beta-BHC	16.7	15.5		ug/Kg		93	78 - 136
delta-BHC	16.7	12.3		ug/Kg		74	43 - 125
Dieldrin	16.7	14.6		ug/Kg		87	72 - 120
Endosulfan I	16.7	14.7		ug/Kg		88	62 - 120
Endosulfan II	16.7	15.4		ug/Kg		92	65 - 120
Endosulfan sulfate	16.7	15.6		ug/Kg		93	72 - 121
Endrin	16.7	15.3		ug/Kg		92	68 - 120
Endrin aldehyde	16.7	16.1		ug/Kg		97	68 - 120
Endrin ketone	16.7	16.5		ug/Kg		99	75 - 136
gamma-BHC (Lindane)	16.7	13.2		ug/Kg		79	72 - 120
gamma-Chlordane	16.7	14.3		ug/Kg		86	68 - 120
Heptachlor	16.7	12.5		ug/Kg		75	69 - 120
Heptachlor epoxide	16.7	14.2		ug/Kg		85	68 - 120
Methoxychlor	16.7	17.4		ug/Kg		105	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*114*		*21 - 136*
Tetrachloro-m-xylene	*79*		*21 - 145*

Lab Sample ID: 720-90388-A-2-D MS
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.4	14.5		ug/Kg		88	40 - 120
4,4'-DDE	ND		16.4	14.1		ug/Kg		86	40 - 120
4,4'-DDT	ND		16.4	13.9		ug/Kg		85	17 - 144
Aldrin	ND		16.4	12.4		ug/Kg		76	53 - 120
alpha-BHC	ND		16.4	9.95		ug/Kg		61	40 - 120
alpha-Chlordane	ND		16.4	13.4		ug/Kg		82	40 - 120
beta-BHC	ND		16.4	15.5		ug/Kg		95	40 - 120
delta-BHC	ND		16.4	12.2		ug/Kg		74	40 - 120
Dieldrin	ND		16.4	13.5		ug/Kg		82	46 - 130
Endosulfan I	ND		16.4	13.5		ug/Kg		82	40 - 120
Endosulfan II	ND		16.4	13.0		ug/Kg		79	40 - 120
Endosulfan sulfate	ND		16.4	13.7		ug/Kg		83	40 - 120
Endrin	ND		16.4	14.4		ug/Kg		88	32 - 143
Endrin aldehyde	ND		16.4	13.3		ug/Kg		81	40 - 120
Endrin ketone	ND		16.4	14.4		ug/Kg		88	40 - 120
gamma-BHC (Lindane)	ND		16.4	13.3		ug/Kg		81	58 - 120
gamma-Chlordane	ND		16.4	13.2		ug/Kg		81	40 - 120
Heptachlor	ND		16.4	12.1		ug/Kg		74	52 - 120
Heptachlor epoxide	ND		16.4	13.4		ug/Kg		82	40 - 120
Methoxychlor	ND		16.4	15.6		ug/Kg		95	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90388-A-2-D MS
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257333

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	95		21 - 136
Tetrachloro-m-xylene	73		21 - 145

Lab Sample ID: 720-90388-A-2-E MSD
Matrix: Solid
Analysis Batch: 257492

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.5	14.3		ug/Kg		87	40 - 120	1	20
4,4'-DDE	ND		16.5	13.7		ug/Kg		83	40 - 120	3	20
4,4'-DDT	ND		16.5	13.3		ug/Kg		81	17 - 144	4	20
Aldrin	ND		16.5	12.3		ug/Kg		75	53 - 120	0	20
alpha-BHC	ND		16.5	9.94		ug/Kg		60	40 - 120	0	20
alpha-Chlordane	ND		16.5	13.2		ug/Kg		80	40 - 120	2	20
beta-BHC	ND		16.5	15.0		ug/Kg		91	40 - 120	3	20
delta-BHC	ND		16.5	12.5		ug/Kg		76	40 - 120	3	20
Dieldrin	ND		16.5	13.0		ug/Kg		79	46 - 130	3	20
Endosulfan I	ND		16.5	13.2		ug/Kg		80	40 - 120	2	20
Endosulfan II	ND		16.5	12.4		ug/Kg		75	40 - 120	4	30
Endosulfan sulfate	ND		16.5	13.3		ug/Kg		81	40 - 120	3	20
Endrin	ND		16.5	14.0		ug/Kg		85	32 - 143	3	20
Endrin aldehyde	ND		16.5	12.4		ug/Kg		76	40 - 120	7	20
Endrin ketone	ND		16.5	14.1		ug/Kg		85	40 - 120	2	20
gamma-BHC (Lindane)	ND		16.5	13.4		ug/Kg		82	58 - 120	1	20
gamma-Chlordane	ND		16.5	13.0		ug/Kg		79	40 - 120	2	20
Heptachlor	ND		16.5	12.0		ug/Kg		73	52 - 120	1	20
Heptachlor epoxide	ND		16.5	13.2		ug/Kg		80	40 - 120	1	20
Methoxychlor	ND		16.5	15.8		ug/Kg		96	40 - 120	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	88		21 - 136
Tetrachloro-m-xylene	76		21 - 145

Lab Sample ID: MB 720-257336/1-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Aldrin	ND		2.0	0.50	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/20/18 09:20	12/25/18 01:54	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-257336/1-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		2.0	0.59	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endrin	ND		2.0	0.46	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/20/18 09:20	12/25/18 01:54	1
Toxaphene	ND		40	6.8	ug/Kg		12/20/18 09:20	12/25/18 01:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*21 - 136*	*12/20/18 09:20*	*12/25/18 01:54*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*12/20/18 09:20*	*12/25/18 01:54*	*1*

Lab Sample ID: LCS 720-257336/2-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	16.0		ug/Kg		96	75 - 128
4,4'-DDE	16.7	15.1		ug/Kg		90	76 - 126
4,4'-DDT	16.7	15.0		ug/Kg		90	63 - 127
Aldrin	16.7	14.1		ug/Kg		85	65 - 120
alpha-BHC	16.7	12.1		ug/Kg		73	46 - 122
alpha-Chlordane	16.7	15.2		ug/Kg		91	70 - 120
beta-BHC	16.7	15.4		ug/Kg		93	78 - 136
delta-BHC	16.7	12.4		ug/Kg		74	43 - 125
Dieldrin	16.7	14.9		ug/Kg		89	72 - 120
Endosulfan I	16.7	15.4		ug/Kg		92	62 - 120
Endosulfan II	16.7	15.4		ug/Kg		92	65 - 120
Endosulfan sulfate	16.7	15.5		ug/Kg		93	72 - 121
Endrin	16.7	15.4		ug/Kg		92	68 - 120
Endrin aldehyde	16.7	17.5		ug/Kg		105	68 - 120
Endrin ketone	16.7	16.2		ug/Kg		97	75 - 136
gamma-BHC (Lindane)	16.7	14.2		ug/Kg		85	72 - 120
gamma-Chlordane	16.7	14.9		ug/Kg		90	68 - 120
Heptachlor	16.7	14.2		ug/Kg		85	69 - 120
Heptachlor epoxide	16.7	15.1		ug/Kg		91	68 - 120
Methoxychlor	16.7	16.5		ug/Kg		99	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*21 - 136*
Tetrachloro-m-xylene	*88*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90388-E-6-D MS
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F1	16.5	27.1	F1	ug/Kg		164	40 - 120
4,4'-DDE	ND		16.5	16.5		ug/Kg		100	40 - 120
4,4'-DDT	ND	F2	16.5	5.20	p	ug/Kg		32	17 - 144
Aldrin	ND		16.5	14.4		ug/Kg		88	53 - 120
alpha-BHC	ND		16.5	12.5		ug/Kg		76	40 - 120
alpha-Chlordane	ND		16.5	16.5		ug/Kg		100	40 - 120
beta-BHC	ND		16.5	15.6		ug/Kg		95	40 - 120
delta-BHC	ND		16.5	13.0		ug/Kg		79	40 - 120
Dieldrin	ND		16.5	15.3	p	ug/Kg		93	46 - 130
Endosulfan I	ND		16.5	15.1		ug/Kg		92	40 - 120
Endosulfan II	ND		16.5	19.3		ug/Kg		117	40 - 120
Endosulfan sulfate	ND	F2	16.5	15.9		ug/Kg		97	40 - 120
Endrin	ND		16.5	16.0		ug/Kg		97	32 - 143
Endrin aldehyde	ND	F2 F1	16.5	17.6	p	ug/Kg		107	40 - 120
Endrin ketone	ND	F2 F1	16.5	11.8	p	ug/Kg		72	40 - 120
gamma-BHC (Lindane)	ND	F1	16.5	14.9		ug/Kg		90	58 - 120
gamma-Chlordane	ND		16.5	16.8		ug/Kg		102	40 - 120
Heptachlor	ND		16.5	12.0		ug/Kg		73	52 - 120
Heptachlor epoxide	ND		16.5	15.7		ug/Kg		95	40 - 120
Methoxychlor	ND	F2 F1	16.5	33.9	F1	ug/Kg		206	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*	*p*	*21 - 136*
Tetrachloro-m-xylene	*89*		*21 - 145*

Lab Sample ID: 720-90388-E-6-E MSD
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	16.3	27.2	F1	ug/Kg		167	40 - 120	0	20
4,4'-DDE	ND		16.3	15.4		ug/Kg		95	40 - 120	7	20
4,4'-DDT	ND	F2	16.3	3.41	p F2	ug/Kg		21	17 - 144	41	20
Aldrin	ND		16.3	14.2		ug/Kg		87	53 - 120	2	20
alpha-BHC	ND		16.3	12.3		ug/Kg		76	40 - 120	1	20
alpha-Chlordane	ND		16.3	16.3		ug/Kg		100	40 - 120	1	20
beta-BHC	ND		16.3	14.2		ug/Kg		87	40 - 120	9	20
delta-BHC	ND		16.3	12.1		ug/Kg		74	40 - 120	8	20
Dieldrin	ND		16.3	13.9	p	ug/Kg		85	46 - 130	10	20
Endosulfan I	ND		16.3	14.5		ug/Kg		89	40 - 120	4	20
Endosulfan II	ND		16.3	17.0		ug/Kg		104	40 - 120	13	30
Endosulfan sulfate	ND	F2	16.3	10.1	p F2	ug/Kg		62	40 - 120	44	20
Endrin	ND		16.3	13.8		ug/Kg		85	32 - 143	14	20
Endrin aldehyde	ND	F2 F1	16.3	14.0	F2	ug/Kg		86	40 - 120	23	20
Endrin ketone	ND	F2 F1	16.3	10.6		ug/Kg		65	40 - 120	11	20
gamma-BHC (Lindane)	ND	F1	16.3	14.0		ug/Kg		86	58 - 120	6	20
gamma-Chlordane	ND		16.3	16.0		ug/Kg		98	40 - 120	5	20
Heptachlor	ND		16.3	11.0		ug/Kg		68	52 - 120	8	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90388-E-6-E MSD
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide	ND		16.3	15.4		ug/Kg		95	40 - 120	2	20
Methoxychlor	ND	F2 F1	16.3	23.5	F1 F2	ug/Kg		144	40 - 120	36	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*179*	*p X*	*21 - 136*
Tetrachloro-m-xylene	*87*		*21 - 145*

Lab Sample ID: MB 720-257709/1-A
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Aldrin	ND		2.0	0.50	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Endrin	ND		2.0	0.46	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/28/18 08:29	12/29/18 12:33	1
Toxaphene	ND		40	6.8	ug/Kg		12/28/18 08:29	12/29/18 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*21 - 136*	*12/28/18 08:29*	*12/29/18 12:33*	*1*
Tetrachloro-m-xylene	*80*		*21 - 145*	*12/28/18 08:29*	*12/29/18 12:33*	*1*

Lab Sample ID: LCS 720-257709/2-A
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	16.9		ug/Kg		102	75 - 128
4,4'-DDE	16.7	16.9		ug/Kg		102	76 - 126
4,4'-DDT	16.7	16.7		ug/Kg		100	63 - 127

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-257709/2-A
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	15.2		ug/Kg		91	65 - 120
alpha-BHC	16.7	13.5		ug/Kg		81	46 - 122
alpha-Chlordane	16.7	16.6		ug/Kg		99	70 - 120
beta-BHC	16.7	17.0		ug/Kg		102	78 - 136
delta-BHC	16.7	13.4		ug/Kg		80	43 - 125
Dieldrin	16.7	16.9		ug/Kg		101	72 - 120
Endosulfan I	16.7	16.9		ug/Kg		101	62 - 120
Endosulfan II	16.7	16.9		ug/Kg		102	65 - 120
Endosulfan sulfate	16.7	16.7		ug/Kg		100	72 - 121
Endrin	16.7	17.0		ug/Kg		102	68 - 120
Endrin aldehyde	16.7	18.1		ug/Kg		109	68 - 120
Endrin ketone	16.7	17.5		ug/Kg		105	75 - 136
gamma-BHC (Lindane)	16.7	15.3		ug/Kg		92	72 - 120
gamma-Chlordane	16.7	16.4		ug/Kg		99	68 - 120
Heptachlor	16.7	14.6		ug/Kg		88	69 - 120
Heptachlor epoxide	16.7	16.3		ug/Kg		98	68 - 120
Methoxychlor	16.7	16.2		ug/Kg		97	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*110*		*21 - 136*
Tetrachloro-m-xylene	*93*		*21 - 145*

Lab Sample ID: 720-90412-9 MS
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: DG-Q3S-3.5-4
Prep Type: Total/NA
Prep Batch: 257709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.1	16.2		ug/Kg		100	40 - 120
4,4'-DDE	ND		16.1	16.1		ug/Kg		100	40 - 120
4,4'-DDT	ND		16.1	15.8		ug/Kg		98	17 - 144
Aldrin	ND		16.1	14.8		ug/Kg		91	53 - 120
alpha-BHC	ND		16.1	13.1		ug/Kg		81	40 - 120
alpha-Chlordane	ND		16.1	15.6		ug/Kg		97	40 - 120
beta-BHC	ND		16.1	16.7		ug/Kg		103	40 - 120
delta-BHC	ND		16.1	13.1		ug/Kg		81	40 - 120
Dieldrin	ND		16.1	15.8		ug/Kg		98	46 - 130
Endosulfan I	ND		16.1	15.9		ug/Kg		99	40 - 120
Endosulfan II	ND		16.1	15.8		ug/Kg		98	40 - 120
Endosulfan sulfate	ND		16.1	15.6		ug/Kg		96	40 - 120
Endrin	ND		16.1	16.1		ug/Kg		100	32 - 143
Endrin aldehyde	ND		16.1	16.4		ug/Kg		102	40 - 120
Endrin ketone	ND		16.1	16.3		ug/Kg		101	40 - 120
gamma-BHC (Lindane)	ND		16.1	15.0		ug/Kg		93	58 - 120
gamma-Chlordane	ND		16.1	15.6		ug/Kg		97	40 - 120
Heptachlor	ND		16.1	14.4		ug/Kg		89	52 - 120
Heptachlor epoxide	ND		16.1	15.4		ug/Kg		96	40 - 120
Methoxychlor	ND		16.1	15.4		ug/Kg		95	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90412-9 MS
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: DG-Q3S-3.5-4
Prep Type: Total/NA
Prep Batch: 257709

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*21 - 136*
Tetrachloro-m-xylene	*93*		*21 - 145*

Lab Sample ID: 720-90412-9 MSD
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: DG-Q3S-3.5-4
Prep Type: Total/NA
Prep Batch: 257709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.1	17.1		ug/Kg		106	40 - 120	5	20
4,4'-DDE	ND		16.1	16.6		ug/Kg		103	40 - 120	3	20
4,4'-DDT	ND		16.1	16.3		ug/Kg		102	17 - 144	3	20
Aldrin	ND		16.1	15.3		ug/Kg		95	53 - 120	3	20
alpha-BHC	ND		16.1	13.5		ug/Kg		84	40 - 120	3	20
alpha-Chlordane	ND		16.1	16.3		ug/Kg		101	40 - 120	4	20
beta-BHC	ND		16.1	17.4		ug/Kg		108	40 - 120	4	20
delta-BHC	ND		16.1	13.8		ug/Kg		86	40 - 120	5	20
Dieldrin	ND		16.1	16.0		ug/Kg		100	46 - 130	2	20
Endosulfan I	ND		16.1	16.3		ug/Kg		102	40 - 120	2	20
Endosulfan II	ND		16.1	16.2		ug/Kg		101	40 - 120	3	30
Endosulfan sulfate	ND		16.1	16.3		ug/Kg		102	40 - 120	5	20
Endrin	ND		16.1	16.6		ug/Kg		103	32 - 143	3	20
Endrin aldehyde	ND		16.1	17.3		ug/Kg		108	40 - 120	6	20
Endrin ketone	ND		16.1	17.2		ug/Kg		107	40 - 120	5	20
gamma-BHC (Lindane)	ND		16.1	15.3		ug/Kg		95	58 - 120	2	20
gamma-Chlordane	ND		16.1	16.2		ug/Kg		101	40 - 120	4	20
Heptachlor	ND		16.1	14.6		ug/Kg		91	52 - 120	1	20
Heptachlor epoxide	ND		16.1	16.1		ug/Kg		100	40 - 120	4	20
Methoxychlor	ND		16.1	16.1		ug/Kg		100	40 - 120	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*110*		*21 - 136*
Tetrachloro-m-xylene	*95*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-518501/1-A
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/18 14:02	12/21/18 14:53	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-518501/1-A
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518501

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	97		45 - 120	12/20/18 14:02	12/21/18 14:53	1

Lab Sample ID: LCS 440-518501/2-A
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	215		ug/Kg		81	65 - 115		
Aroclor 1260			267	261		ug/Kg		98	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	94		45 - 120

Lab Sample ID: 720-90388-F-2-A MS
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 518501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		264	210		ug/Kg		79	50 - 120		
Aroclor 1260	ND		264	245		ug/Kg		93	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	89		45 - 120

Lab Sample ID: 720-90388-F-2-B MSD
Matrix: Solid
Analysis Batch: 518687

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 518501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	214		ug/Kg		80	50 - 120	2	30
Aroclor 1260	ND		266	251		ug/Kg		94	50 - 125	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	90		45 - 120

Lab Sample ID: MB 440-519685/1-A
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 18:48	12/28/18 10:57	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-519685/1-A
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519685

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	113		45 - 120	12/27/18 18:48	12/28/18 10:57	1

Lab Sample ID: LCS 440-519685/2-A
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519685

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	245		ug/Kg		92	65 - 115		
Aroclor 1260			267	292		ug/Kg		109	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	115		45 - 120

Lab Sample ID: 720-90388-E-6-M MS
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 519685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		263	159		ug/Kg		60	50 - 120		
Aroclor 1260	ND		263	162		ug/Kg		62	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	63		45 - 120

Lab Sample ID: 720-90388-E-6-N MSD
Matrix: Solid
Analysis Batch: 519816

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 519685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	147		ug/Kg		55	50 - 120	7	30
Aroclor 1260	ND		266	152		ug/Kg		57	50 - 125	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	65		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257270/1-A
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Arsenic	ND		1.0	0.085	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Barium	ND		0.50	0.071	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Chromium	ND		0.50	0.053	mg/Kg		12/19/18 15:49	12/26/18 22:40	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257270/1-A
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Silver	0.0594	J	0.25	0.051	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 15:49	12/26/18 22:40	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 15:49	12/26/18 22:40	1

Lab Sample ID: MB 720-257270/1-A
Matrix: Solid
Analysis Batch: 257723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Arsenic	ND		1.0	0.085	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Barium	ND		0.50	0.071	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Beryllium	ND		0.10	0.033	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Chromium	ND		0.50	0.053	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Silver	ND		0.25	0.051	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 15:49	12/27/18 19:22	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 15:49	12/27/18 19:22	1

Lab Sample ID: LCS 720-257270/2-A
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.2		mg/Kg		94	80 - 120
Arsenic	50.0	48.8		mg/Kg		98	80 - 120
Barium	50.0	48.3		mg/Kg		97	80 - 120
Cadmium	50.0	49.9		mg/Kg		100	80 - 120
Chromium	50.0	48.4		mg/Kg		97	80 - 120
Cobalt	50.0	50.2		mg/Kg		100	80 - 120
Copper	50.0	50.1		mg/Kg		100	80 - 120
Lead	50.0	52.2		mg/Kg		104	80 - 120
Molybdenum	50.0	49.7		mg/Kg		99	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Selenium	50.0	51.1		mg/Kg		102	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257270/2-A
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	25.0	22.9		mg/Kg		92	80 - 120
Thallium	50.0	52.6		mg/Kg		105	80 - 120
Vanadium	50.0	50.9		mg/Kg		102	80 - 120
Zinc	50.0	51.6		mg/Kg		103	80 - 120

Lab Sample ID: LCS 720-257270/2-A
Matrix: Solid
Analysis Batch: 257723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.7		mg/Kg		93	80 - 120
Arsenic	50.0	46.9		mg/Kg		94	80 - 120
Barium	50.0	45.5		mg/Kg		91	80 - 120
Beryllium	50.0	47.3		mg/Kg		95	80 - 120
Cadmium	50.0	47.2		mg/Kg		94	80 - 120
Chromium	50.0	47.6		mg/Kg		95	80 - 120
Cobalt	50.0	48.7		mg/Kg		97	80 - 120
Copper	50.0	46.9		mg/Kg		94	80 - 120
Lead	50.0	47.9		mg/Kg		96	80 - 120
Molybdenum	50.0	48.1		mg/Kg		96	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Selenium	50.0	46.0		mg/Kg		92	80 - 120
Silver	25.0	21.9		mg/Kg		88	80 - 120
Thallium	50.0	47.7		mg/Kg		95	80 - 120
Vanadium	50.0	47.0		mg/Kg		94	80 - 120
Zinc	50.0	45.7		mg/Kg		91	80 - 120

Lab Sample ID: 720-90388-A-6-A MS
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.9	F1	37.0	9.95	F1	mg/Kg		22	75 - 125
Arsenic	100	F1	37.0	162	F1	mg/Kg		160	75 - 125
Barium	73		37.0	113		mg/Kg		107	75 - 125
Cadmium	0.84		37.0	37.7		mg/Kg		99	75 - 125
Chromium	29		37.0	72.0		mg/Kg		116	75 - 125
Cobalt	12		37.0	49.4		mg/Kg		101	75 - 125
Copper	84	F1	37.0	149	F1	mg/Kg		174	75 - 125
Lead	140	F1	37.0	201	F1	mg/Kg		176	75 - 125
Molybdenum	0.85	J	37.0	35.1		mg/Kg		92	75 - 125
Nickel	43		37.0	78.6		mg/Kg		95	75 - 125
Selenium	0.73	J	37.0	38.1		mg/Kg		101	75 - 125
Silver	0.17	J B	18.5	17.2		mg/Kg		92	75 - 125
Thallium	ND		37.0	35.9		mg/Kg		97	75 - 125
Vanadium	73		37.0	115		mg/Kg		113	75 - 125
Zinc	190		37.0	261	4	mg/Kg		185	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90388-A-6-A MS ^4
Matrix: Solid
Analysis Batch: 257723

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.0	F1	37.0	10.1	F1	mg/Kg		22	75 - 125
Arsenic	100	F1	37.0	185	F1	mg/Kg		218	75 - 125
Barium	72	F1	37.0	131	F1	mg/Kg		159	75 - 125
Beryllium	0.13	J	37.0	43.3		mg/Kg		116	75 - 125
Cadmium	0.67		37.0	41.9		mg/Kg		111	75 - 125
Chromium	30	F1	37.0	85.1	F1	mg/Kg		150	75 - 125
Cobalt	12		37.0	56.2		mg/Kg		119	75 - 125
Copper	86	F1	37.0	178	F1	mg/Kg		247	75 - 125
Lead	130	F1	37.0	215	F1	mg/Kg		233	75 - 125
Molybdenum	0.55	J	37.0	39.5		mg/Kg		105	75 - 125
Nickel	45	F1	37.0	91.1		mg/Kg		124	75 - 125
Selenium	ND		37.0	40.2		mg/Kg		109	75 - 125
Silver	0.21	J	18.5	21.1		mg/Kg		113	75 - 125
Thallium	ND		37.0	38.5		mg/Kg		104	75 - 125
Vanadium	70	F1	37.0	127	F1	mg/Kg		155	75 - 125
Zinc	180		37.0	276	4	mg/Kg		255	75 - 125

Lab Sample ID: 720-90388-A-6-B MSD
Matrix: Solid
Analysis Batch: 257644

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.9	F1	36.5	8.94	F1	mg/Kg		19	75 - 125	11	20
Arsenic	100	F1	36.5	143		mg/Kg		109	75 - 125	13	20
Barium	73		36.5	115		mg/Kg		115	75 - 125	2	20
Cadmium	0.84		36.5	37.5		mg/Kg		100	75 - 125	1	20
Chromium	29		36.5	73.2		mg/Kg		121	75 - 125	2	20
Cobalt	12		36.5	48.2		mg/Kg		99	75 - 125	2	20
Copper	84	F1	36.5	138	F1	mg/Kg		149	75 - 125	7	20
Lead	140	F1	36.5	234	F1	mg/Kg		269	75 - 125	15	20
Molybdenum	0.85	J	36.5	34.8		mg/Kg		93	75 - 125	1	20
Nickel	43		36.5	78.8		mg/Kg		97	75 - 125	0	20
Selenium	0.73	J	36.5	38.8		mg/Kg		104	75 - 125	2	20
Silver	0.17	J B	18.2	17.0		mg/Kg		92	75 - 125	1	20
Thallium	ND		36.5	35.3		mg/Kg		97	75 - 125	2	20
Vanadium	73		36.5	112		mg/Kg		107	75 - 125	2	20
Zinc	190		36.5	303	4	mg/Kg		303	75 - 125	15	20

Lab Sample ID: 720-90388-A-6-B MSD ^4
Matrix: Solid
Analysis Batch: 257723

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.0	F1	36.5	9.41	F1	mg/Kg		20	75 - 125	7	20
Arsenic	100	F1	36.5	164	F1	mg/Kg		166	75 - 125	12	20
Barium	72	F1	36.5	135	F1	mg/Kg		173	75 - 125	3	20
Beryllium	0.13	J	36.5	43.0		mg/Kg		117	75 - 125	1	20
Cadmium	0.67		36.5	41.9		mg/Kg		113	75 - 125	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90388-A-6-B MSD ^4
Matrix: Solid
Analysis Batch: 257723

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	30	F1	36.5	87.5	F1	mg/Kg		159	75 - 125	3	20
Cobalt	12		36.5	55.1		mg/Kg		118	75 - 125	2	20
Copper	86	F1	36.5	170	F1	mg/Kg		228	75 - 125	5	20
Lead	130	F1	36.5	252	F1	mg/Kg		336	75 - 125	16	20
Molybdenum	0.55	J	36.5	39.4		mg/Kg		106	75 - 125	0	20
Nickel	45	F1	36.5	92.2	F1	mg/Kg		129	75 - 125	1	20
Selenium	ND		36.5	40.2		mg/Kg		110	75 - 125	0	20
Silver	0.21	J	18.2	21.1		mg/Kg		114	75 - 125	0	20
Thallium	ND		36.5	37.9		mg/Kg		104	75 - 125	2	20
Vanadium	70	F1	36.5	123	F1	mg/Kg		144	75 - 125	4	20
Zinc	180		36.5	323	4	mg/Kg		389	75 - 125	16	20

Lab Sample ID: MB 720-257285/1-A
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Arsenic	ND		1.0	0.085	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Barium	ND		0.50	0.071	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Beryllium	ND		0.10	0.033	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Chromium	ND		0.50	0.053	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Silver	ND		0.25	0.051	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 15:20	12/27/18 12:06	1

Lab Sample ID: LCS 720-257285/2-A
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.3		mg/Kg		97	80 - 120
Arsenic	50.0	49.9		mg/Kg		100	80 - 120
Barium	50.0	48.6		mg/Kg		97	80 - 120
Beryllium	50.0	46.4		mg/Kg		93	80 - 120
Cadmium	50.0	49.6		mg/Kg		99	80 - 120
Chromium	50.0	50.9		mg/Kg		102	80 - 120
Cobalt	50.0	50.5		mg/Kg		101	80 - 120
Copper	50.0	49.7		mg/Kg		99	80 - 120
Lead	50.0	50.2		mg/Kg		100	80 - 120
Molybdenum	50.0	50.9		mg/Kg		102	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257285/2-A
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	50.0	49.5		mg/Kg		99	80 - 120
Selenium	50.0	48.2		mg/Kg		96	80 - 120
Silver	25.0	21.5		mg/Kg		86	80 - 120
Thallium	50.0	49.6		mg/Kg		99	80 - 120
Vanadium	50.0	50.3		mg/Kg		101	80 - 120
Zinc	50.0	49.2		mg/Kg		98	80 - 120

Lab Sample ID: 720-90413-A-6-D MS
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.1	F1	43.5	15.2	F1	mg/Kg		30	75 - 125
Arsenic	160	F1	43.5	184	F1	mg/Kg		53	75 - 125
Barium	60	F1	43.5	152	F1	mg/Kg		212	75 - 125
Beryllium	0.19	J F1	43.5	52.9		mg/Kg		121	75 - 125
Cadmium	0.95		43.5	51.1		mg/Kg		115	75 - 125
Chromium	18	F1	43.5	70.8		mg/Kg		122	75 - 125
Cobalt	9.9	F1	43.5	61.6		mg/Kg		119	75 - 125
Copper	850	F2	43.5	845	4	mg/Kg		-22	75 - 125
Lead	210	F2	43.5	194	4	mg/Kg		-40	75 - 125
Molybdenum	0.60	J	43.5	50.9		mg/Kg		116	75 - 125
Nickel	14	F1	43.5	62.2		mg/Kg		110	75 - 125
Selenium	1.0	J F1	43.5	50.5		mg/Kg		114	75 - 125
Silver	ND	F1	21.7	24.7		mg/Kg		114	75 - 125
Thallium	ND		43.5	48.7		mg/Kg		112	75 - 125
Vanadium	59	F1	43.5	142	F1	mg/Kg		192	75 - 125
Zinc	450	F2	43.5	391	4	mg/Kg		-128	75 - 125

Lab Sample ID: 720-90413-A-6-E MSD
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.1	F1	44.2	14.2	F1	mg/Kg		27	75 - 125	7	20
Arsenic	160	F1	44.2	190	F1	mg/Kg		65	75 - 125	3	20
Barium	60	F1	44.2	167	F1	mg/Kg		241	75 - 125	9	20
Beryllium	0.19	J F1	44.2	61.5	F1	mg/Kg		139	75 - 125	15	20
Cadmium	0.95		44.2	56.1		mg/Kg		125	75 - 125	9	20
Chromium	18	F1	44.2	81.3	F1	mg/Kg		144	75 - 125	14	20
Cobalt	9.9	F1	44.2	67.5	F1	mg/Kg		130	75 - 125	9	20
Copper	850	F2	44.2	8010	4 F2	mg/Kg		16169	75 - 125	162	20
Lead	210	F2	44.2	277	4 F2	mg/Kg		148	75 - 125	35	20
Molybdenum	0.60	J	44.2	55.7		mg/Kg		125	75 - 125	9	20
Nickel	14	F1	44.2	71.9	F1	mg/Kg		130	75 - 125	14	20
Selenium	1.0	J F1	44.2	58.8	F1	mg/Kg		131	75 - 125	15	20
Silver	ND	F1	22.1	28.2	F1	mg/Kg		127	75 - 125	13	20
Thallium	ND		44.2	52.9		mg/Kg		120	75 - 125	8	20
Vanadium	59	F1	44.2	156	F1	mg/Kg		219	75 - 125	9	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90413-A-6-E MSD
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	450	F2	44.2	545	4 F2	mg/Kg		222	75 - 125	33	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257258/1-A
Matrix: Solid
Analysis Batch: 257939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00426	J	0.017	0.0025	mg/Kg		12/19/18 12:26	01/03/19 15:52	1

Lab Sample ID: LCS 720-257258/2-A
Matrix: Solid
Analysis Batch: 257939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.691		mg/Kg		83	80 - 120

Lab Sample ID: 720-90413-A-45-A MS
Matrix: Solid
Analysis Batch: 257939

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.034	B	0.794	0.661		mg/Kg		79	75 - 125

Lab Sample ID: 720-90413-A-45-B MSD
Matrix: Solid
Analysis Batch: 257939

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.034	B	0.758	0.666		mg/Kg		83	75 - 125	1	20

Lab Sample ID: MB 720-257272/1-A
Matrix: Solid
Analysis Batch: 257942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/19/18 14:09	01/03/19 17:28	1

Lab Sample ID: LCS 720-257272/2-A
Matrix: Solid
Analysis Batch: 257942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.699		mg/Kg		84	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90414-A-8-A MS
Matrix: Solid
Analysis Batch: 257942

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257272

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.66		0.769	1.29		mg/Kg		83	75 - 125

Lab Sample ID: 720-90414-A-8-B MSD
Matrix: Solid
Analysis Batch: 257942

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257272

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.66		0.725	1.31		mg/Kg		90	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90398-A-5 DU
Matrix: Solid
Analysis Batch: 257340

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	36.5		34.3		%		6	20

Lab Sample ID: 720-90412-14 DU
Matrix: Solid
Analysis Batch: 257345

Client Sample ID: DUP-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.2		8.0		%		2	20

GC/MS VOA

Prep Batch: 518334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-24	DG-AH4S-4-4.5	Total/NA	Solid	5035	

Analysis Batch: 518646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	8260B	518721
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	8260B	518721
720-90412-14	DUP-15	Total/NA	Solid	8260B	518721
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	8260B	518721
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	8260B	518721
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	8260B	518721
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	8260B	518721
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	8260B	518721
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	8260B	518721
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	8260B	518721
720-90412-22	DUP-16	Total/NA	Solid	8260B	518721
MB 440-518646/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518646/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90388-A-6-E MS	Matrix Spike	Total/NA	Solid	8260B	518692
720-90388-A-6-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	518692

Analysis Batch: 518647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-14	DUP-15	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-22	DUP-16	Total/NA	Solid	8260B/CA_LUFT MS	518721
MB 440-518647/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-518647/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90388-A-6-E MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-A-6-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	518692

GC/MS VOA (Continued)

Analysis Batch: 518651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-1	DG-P1S-0.5-1	Total/NA	Solid	8260B	518721
720-90412-3	DUP-02	Total/NA	Solid	8260B	518721
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	8260B	518721
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	8260B	518721
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	8260B	518721
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	8260B	518721
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	8260B	518721
MB 440-518651/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518651/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90388-B-2-A MS	Matrix Spike	Total/NA	Solid	8260B	518692
720-90388-B-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	518692

Analysis Batch: 518652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-1	DG-P1S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-3	DUP-02	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518721
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518721
MB 440-518652/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-518652/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90388-B-2-A MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	518692
720-90388-B-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	518692

Prep Batch: 518692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-A-6-E MS	Matrix Spike	Total/NA	Solid	5035	
720-90388-A-6-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
720-90388-B-2-A MS	Matrix Spike	Total/NA	Solid	5035	
720-90388-B-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 518721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-1	DG-P1S-0.5-1	Total/NA	Solid	5035	
720-90412-3	DUP-02	Total/NA	Solid	5035	
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	5035	
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	5035	
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	5035	
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	5035	
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 518721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	5035	
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	5035	
720-90412-14	DUP-15	Total/NA	Solid	5035	
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	5035	
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	5035	
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	5035	
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	5035	
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	5035	
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	5035	
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	5035	
720-90412-22	DUP-16	Total/NA	Solid	5035	

Analysis Batch: 518867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-24	DG-AH4S-4-4.5	Total/NA	Solid	8260B	518334
MB 440-518867/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518867/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-518867/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 518870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-2	DG-P1S-3.5-4	Total/NA	Solid	8260B	518914
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	8260B	518914
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	8260B	518914
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	8260B	518914
MB 440-518870/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518870/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90446-A-1-E MS	Matrix Spike	Total/NA	Solid	8260B	518913
720-90446-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	518913

Analysis Batch: 518871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-2	DG-P1S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518914
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518914
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518914
MB 440-518871/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-518871/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90446-A-1-E MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	518913

Prep Batch: 518913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
720-90446-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 518914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-2	DG-P1S-3.5-4	Total/NA	Solid	5035	
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	5035	
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	5035	
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 519009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	519068
MB 440-519009/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-519009/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-228365-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-228365-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 519068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 520241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-24	DG-AH4S-4-4.5	Total/NA	Solid	8260B/CA_LUFT MS	518334
MB 440-520241/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-520241/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-520241/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 257381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	3546	
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	3546	
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	3546	
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	3546	
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	3546	
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	3546	
MB 720-257381/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257381/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-E-6-J MS	Matrix Spike	Total/NA	Solid	3546	
720-90388-E-6-K MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 257530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	3546	
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	3546	
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 257530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	3546	
720-90412-14	DUP-15	Total/NA	Solid	3546	
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	3546	
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	3546	
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	3546	
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	3546	
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	3546	
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	3546	
MB 720-257530/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257530/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-E-2-G MS	Matrix Spike	Total/NA	Solid	3546	
720-90388-E-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 257593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257530/1-A	Method Blank	Total/NA	Solid	8270C SIM	257530
LCS 720-257530/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257530
720-90388-E-2-G MS	Matrix Spike	Total/NA	Solid	8270C SIM	257530
720-90388-E-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	257530

Prep Batch: 257608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	3546	
720-90412-22	DUP-16	Total/NA	Solid	3546	
720-90412-23	DG-AH4S-6-6.5	Total/NA	Solid	3546	
720-90412-24	DG-AH4S-4-4.5	Total/NA	Solid	3546	
MB 720-257608/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257608/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-E-1-J MS	Matrix Spike	Total/NA	Solid	3546	
720-90446-E-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 257669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257381/1-A	Method Blank	Total/NA	Solid	8270C SIM	257381
LCS 720-257381/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257381

Analysis Batch: 257703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	8270C SIM	257381
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	8270C SIM	257381
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	8270C SIM	257381
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	8270C SIM	257381
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	8270C SIM	257381
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	8270C SIM	257530
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	8270C SIM	257530
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	8270C SIM	257530
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	8270C SIM	257530
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	8270C SIM	257608
720-90412-23	DG-AH4S-6-6.5	Total/NA	Solid	8270C SIM	257608
MB 720-257608/1-A	Method Blank	Total/NA	Solid	8270C SIM	257608
LCS 720-257608/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257608

GC/MS Semi VOA (Continued)

Analysis Batch: 257703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-E-1-J MS	Matrix Spike	Total/NA	Solid	8270C SIM	257608
720-90446-E-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	257608

Analysis Batch: 257743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	8270C SIM	257530

Analysis Batch: 257766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	8270C SIM	257381
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	8270C SIM	257530
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	8270C SIM	257530
720-90412-14	DUP-15	Total/NA	Solid	8270C SIM	257530
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	8270C SIM	257530
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	8270C SIM	257530
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	8270C SIM	257530
720-90412-22	DUP-16	Total/NA	Solid	8270C SIM	257608
720-90388-E-6-J MS	Matrix Spike	Total/NA	Solid	8270C SIM	257381
720-90388-E-6-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	257381

Analysis Batch: 257772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-24	DG-AH4S-4-4.5	Total/NA	Solid	8270C SIM	257608

GC Semi VOA

Analysis Batch: 257323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	8015B	257342
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	8015B	257342

Analysis Batch: 257324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	8015B	257342
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	8015B	257342

Analysis Batch: 257325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	8015B	257342
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	8015B	257342
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	8015B	257342
720-90412-14	DUP-15	Total/NA	Solid	8015B	257342
MB 720-257349/1-A	Method Blank	Total/NA	Solid	8015B	257349
LCS 720-257349/2-A	Lab Control Sample	Total/NA	Solid	8015B	257349
720-90388-E-2-D MS	Matrix Spike	Total/NA	Solid	8015B	257342
720-90388-E-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	257342

Analysis Batch: 257326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	8015B	257342

GC Semi VOA (Continued)

Analysis Batch: 257326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	8015B	257342
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	8015B	257342
MB 720-257342/1-A	Method Blank	Total/NA	Solid	8015B	257342
LCS 720-257342/2-A	Lab Control Sample	Total/NA	Solid	8015B	257342

Prep Batch: 257333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	3546	
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	3546	
MB 720-257333/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257333/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-A-2-D MS	Matrix Spike	Total/NA	Solid	3546	
720-90388-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 257336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	3546	
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	3546	
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	3546	
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	3546	
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	3546	
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	3546	
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	3546	
MB 720-257336/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257336/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-E-6-D MS	Matrix Spike	Total/NA	Solid	3546	
720-90388-E-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 257342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	3546	
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	3546	
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	3546	
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	3546	
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	3546	
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	3546	
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	3546	
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	3546	
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	3546	
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	3546	
720-90412-14	DUP-15	Total/NA	Solid	3546	
MB 720-257342/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257342/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-E-2-D MS	Matrix Spike	Total/NA	Solid	3546	
720-90388-E-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 257349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	3546	
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	3546	
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 257349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	3546	
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	3546	
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	3546	
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	3546	
720-90412-22	DUP-16	Total/NA	Solid	3546	
720-90412-23	DG-AH4S-6-6.5	Total/NA	Solid	3546	
720-90412-24	DG-AH4S-4-4.5	Total/NA	Solid	3546	
MB 720-257349/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257349/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-E-6-G MS	Matrix Spike	Total/NA	Solid	3546	
720-90388-E-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 257411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90388-E-6-G MS	Matrix Spike	Total/NA	Solid	8015B	257349
720-90388-E-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	257349

Analysis Batch: 257492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257333/1-A	Method Blank	Total/NA	Solid	8081A	257333
LCS 720-257333/2-A	Lab Control Sample	Total/NA	Solid	8081A	257333
720-90388-A-2-D MS	Matrix Spike	Total/NA	Solid	8081A	257333
720-90388-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	257333

Analysis Batch: 257493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	8081A	257333
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	8081A	257333

Analysis Batch: 257513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	8015B	257349
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	8015B	257349
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	8015B	257349
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	8015B	257349
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	8015B	257349
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	8015B	257349
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	8015B	257349
720-90412-22	DUP-16	Total/NA	Solid	8015B	257349
720-90412-23	DG-AH4S-6-6.5	Total/NA	Solid	8015B	257349
720-90412-24	DG-AH4S-4-4.5	Total/NA	Solid	8015B	257349

Analysis Batch: 257557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	8081A	257336
MB 720-257336/1-A	Method Blank	Total/NA	Solid	8081A	257336
LCS 720-257336/2-A	Lab Control Sample	Total/NA	Solid	8081A	257336
720-90388-E-6-D MS	Matrix Spike	Total/NA	Solid	8081A	257336
720-90388-E-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	257336

GC Semi VOA (Continued)

Analysis Batch: 257634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	8081A	257336
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	8081A	257336

Analysis Batch: 257700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	8081A	257336
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	8081A	257336
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	8081A	257336
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	8081A	257336

Prep Batch: 257709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	3546	
MB 720-257709/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257709/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90412-9 MS	DG-Q3S-3.5-4	Total/NA	Solid	3546	
720-90412-9 MSD	DG-Q3S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 257768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	8081A	257709
MB 720-257709/1-A	Method Blank	Total/NA	Solid	8081A	257709
LCS 720-257709/2-A	Lab Control Sample	Total/NA	Solid	8081A	257709
720-90412-9 MS	DG-Q3S-3.5-4	Total/NA	Solid	8081A	257709
720-90412-9 MSD	DG-Q3S-3.5-4	Total/NA	Solid	8081A	257709

Prep Batch: 518501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	3546	
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	3546	
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	3546	
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	3546	
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	3546	
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	3546	
MB 440-518501/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-518501/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-F-2-A MS	Matrix Spike	Total/NA	Solid	3546	
720-90388-F-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 518687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-518501/1-A	Method Blank	Total/NA	Solid	8082	518501
LCS 440-518501/2-A	Lab Control Sample	Total/NA	Solid	8082	518501
720-90388-F-2-A MS	Matrix Spike	Total/NA	Solid	8082	518501
720-90388-F-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	518501

Analysis Batch: 519051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	8082	518501
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	8082	518501
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	8082	518501

GC Semi VOA (Continued)

Analysis Batch: 519051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	8082	518501
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	8082	518501
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	8082	518501

Prep Batch: 519685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	3546	
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	3546	
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	3546	
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	3546	
MB 440-519685/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-519685/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90388-E-6-M MS	Matrix Spike	Total/NA	Solid	3546	
720-90388-E-6-N MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 519815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	8082	519685

Analysis Batch: 519816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	8082	519685
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	8082	519685
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	8082	519685
MB 440-519685/1-A	Method Blank	Total/NA	Solid	8082	519685
LCS 440-519685/2-A	Lab Control Sample	Total/NA	Solid	8082	519685
720-90388-E-6-M MS	Matrix Spike	Total/NA	Solid	8082	519685
720-90388-E-6-N MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	519685

Metals

Prep Batch: 257258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	7471A	
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	7471A	
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	7471A	
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	7471A	
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	7471A	
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	7471A	
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	7471A	
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	7471A	
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	7471A	
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	7471A	
MB 720-257258/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257258/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90413-A-45-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90413-A-45-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	3050B	
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	3050B	
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	3050B	
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	3050B	
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	3050B	
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	3050B	
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	3050B	
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	3050B	
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	3050B	
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	3050B	
720-90412-14	DUP-15	Total/NA	Solid	3050B	
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	3050B	
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	3050B	
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	3050B	
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	3050B	
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	3050B	
MB 720-257270/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257270/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90388-A-6-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90388-A-6-A MS ^4	Matrix Spike	Total/NA	Solid	3050B	
720-90388-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
720-90388-A-6-B MSD ^4	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-14	DUP-15	Total/NA	Solid	7471A	
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	7471A	
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	7471A	
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	7471A	
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	7471A	
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	7471A	
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	7471A	
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	7471A	
720-90412-22	DUP-16	Total/NA	Solid	7471A	
MB 720-257272/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257272/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90414-A-8-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90414-A-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	3050B	
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	3050B	
720-90412-22	DUP-16	Total/NA	Solid	3050B	
MB 720-257285/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257285/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90413-A-6-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-90413-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Metals (Continued)

Analysis Batch: 257644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-14	DUP-15	Total/NA	Solid	6010B	257270
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	6010B	257270
MB 720-257270/1-A	Method Blank	Total/NA	Solid	6010B	257270
LCS 720-257270/2-A	Lab Control Sample	Total/NA	Solid	6010B	257270
720-90388-A-6-A MS	Matrix Spike	Total/NA	Solid	6010B	257270
720-90388-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257270

Analysis Batch: 257723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-14	DUP-15	Total/NA	Solid	6010B	257270
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	6010B	257270
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	6010B	257270
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	6010B	257270
MB 720-257270/1-A	Method Blank	Total/NA	Solid	6010B	257270
LCS 720-257270/2-A	Lab Control Sample	Total/NA	Solid	6010B	257270
720-90388-A-6-A MS ^4	Matrix Spike	Total/NA	Solid	6010B	257270
720-90388-A-6-B MSD ^4	Matrix Spike Duplicate	Total/NA	Solid	6010B	257270

Analysis Batch: 257864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	6010B	257285
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	6010B	257285
720-90412-22	DUP-16	Total/NA	Solid	6010B	257285
MB 720-257285/1-A	Method Blank	Total/NA	Solid	6010B	257285
LCS 720-257285/2-A	Lab Control Sample	Total/NA	Solid	6010B	257285

Metals (Continued)

Analysis Batch: 257864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-A-6-D MS	Matrix Spike	Total/NA	Solid	6010B	257285
720-90413-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257285

Analysis Batch: 257939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	7471A	257258
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	7471A	257258
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	7471A	257258
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	7471A	257258
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	7471A	257258
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	7471A	257258
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	7471A	257258
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	7471A	257258
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	7471A	257258
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	7471A	257258
MB 720-257258/1-A	Method Blank	Total/NA	Solid	7471A	257258
LCS 720-257258/2-A	Lab Control Sample	Total/NA	Solid	7471A	257258
720-90413-A-45-A MS	Matrix Spike	Total/NA	Solid	7471A	257258
720-90413-A-45-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257258

Analysis Batch: 257942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-14	DUP-15	Total/NA	Solid	7471A	257272
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	7471A	257272
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	7471A	257272
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	7471A	257272
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	7471A	257272
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	7471A	257272
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	7471A	257272
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	7471A	257272
720-90412-22	DUP-16	Total/NA	Solid	7471A	257272
MB 720-257272/1-A	Method Blank	Total/NA	Solid	7471A	257272
LCS 720-257272/2-A	Lab Control Sample	Total/NA	Solid	7471A	257272
720-90414-A-8-A MS	Matrix Spike	Total/NA	Solid	7471A	257272
720-90414-A-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257272

General Chemistry

Analysis Batch: 257340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-4	DG-N1S-0.5-1	Total/NA	Solid	Moisture	
720-90412-5	DG-N1S-3.5-4	Total/NA	Solid	Moisture	
720-90412-6	DG-O3S-0.5-1	Total/NA	Solid	Moisture	
720-90412-7	DG-O3S-3.5-4	Total/NA	Solid	Moisture	
720-90412-8	DG-Q3S-0.5-1	Total/NA	Solid	Moisture	
720-90412-9	DG-Q3S-3.5-4	Total/NA	Solid	Moisture	
720-90412-10	DG-S3S-0.5-1	Total/NA	Solid	Moisture	
720-90412-11	DG-S3S-3.5-4	Total/NA	Solid	Moisture	
720-90412-12	DG-U3S-0.5-1	Total/NA	Solid	Moisture	
720-90412-13	DG-U3S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90398-A-5 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90412-14	DUP-15	Total/NA	Solid	Moisture	
720-90412-15	DG-W3S-0.5-1	Total/NA	Solid	Moisture	
720-90412-16	DG-W3S-3.5-4	Total/NA	Solid	Moisture	
720-90412-17	DG-Y3S-0.5-1	Total/NA	Solid	Moisture	
720-90412-18	DG-Y3S-3.5-4	Total/NA	Solid	Moisture	
720-90412-19	DG-AA3S-0.5-1	Total/NA	Solid	Moisture	
720-90412-20	DG-AA3S-3.5-4	Total/NA	Solid	Moisture	
720-90412-21	DG-AA3S-7-7.5	Total/NA	Solid	Moisture	
720-90412-22	DUP-16	Total/NA	Solid	Moisture	
720-90412-23	DG-AH4S-6-6.5	Total/NA	Solid	Moisture	
720-90412-24	DG-AH4S-4-4.5	Total/NA	Solid	Moisture	
720-90412-14 DU	DUP-15	Total/NA	Solid	Moisture	

Client Sample ID: DG-P1S-0.5-1

Lab Sample ID: 720-90412-1

Date Collected: 12/18/18 08:25

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 14:57	AYL	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 14:57	AYL	TAL IRV

Client Sample ID: DG-P1S-3.5-4

Lab Sample ID: 720-90412-2

Date Collected: 12/18/18 08:25

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518914	12/18/18 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 13:28	DCI	TAL IRV
Total/NA	Prep	5035			518914	12/18/18 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 13:28	DCI	TAL IRV

Client Sample ID: DUP-02

Lab Sample ID: 720-90412-3

Date Collected: 12/18/18 00:00

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 15:54	AYL	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 15:54	AYL	TAL IRV

Client Sample ID: DG-N1S-0.5-1

Lab Sample ID: 720-90412-4

Date Collected: 12/18/18 09:00

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 16:51	AYL	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 16:51	AYL	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		4	257766	12/29/18 06:43	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		2	257323	12/21/18 04:19	JXL	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257493	12/22/18 09:19	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	519051	12/24/18 16:31	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-N1S-0.5-1

Lab Sample ID: 720-90412-4

Date Collected: 12/18/18 09:00
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		4	257644	12/26/18 23:37	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:17	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DG-N1S-3.5-4

Lab Sample ID: 720-90412-5

Date Collected: 12/18/18 09:00
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 17:19	AYL	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 17:19	AYL	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 03:30	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257325	12/20/18 22:48	JXL	TAL PLS
Total/NA	Prep	3546			257333	12/20/18 08:47	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257493	12/22/18 09:37	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	519051	12/24/18 16:44	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/26/18 23:42	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:22	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		10	257939	01/03/19 16:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DG-O3S-0.5-1

Lab Sample ID: 720-90412-6

Date Collected: 12/18/18 09:50
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 17:48	AYL	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 17:48	AYL	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 03:54	LPL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-O3S-0.5-1

Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257325	12/20/18 23:12	JXL	TAL PLS
Total/NA	Prep	3546			257336	12/20/18 09:20	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257634	12/27/18 13:55	JZT	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	519051	12/24/18 16:57	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/26/18 23:47	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:27	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 17:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DG-O3S-3.5-4

Date Collected: 12/18/18 09:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 18:16	AYL	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 18:16	AYL	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 04:17	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257326	12/20/18 23:12	JXL	TAL PLS
Total/NA	Prep	3546			257336	12/20/18 09:20	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257557	12/25/18 04:58	MQL	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	519051	12/24/18 17:11	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/26/18 23:51	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:31	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		10	257939	01/03/19 17:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DG-Q3S-0.5-1

Lab Sample ID: 720-90412-8

Date Collected: 12/18/18 10:35

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518651	12/21/18 18:45	AYL	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518652	12/21/18 18:45	AYL	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 04:40	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257326	12/20/18 23:37	JXL	TAL PLS
Total/NA	Prep	3546			257336	12/20/18 09:20	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257634	12/27/18 14:12	JZT	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	519051	12/24/18 18:14	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/26/18 23:56	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:36	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 17:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DG-Q3S-3.5-4

Lab Sample ID: 720-90412-9

Date Collected: 12/18/18 10:35

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518914	12/18/18 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 13:56	DCI	TAL IRV
Total/NA	Prep	5035			518914	12/18/18 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 13:56	DCI	TAL IRV
Total/NA	Prep	3546			257381	12/20/18 16:21	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 05:04	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257326	12/21/18 00:01	JXL	TAL PLS
Total/NA	Prep	3546			257709	12/28/18 08:29	MAB	TAL PLS
Total/NA	Analysis	8081A		1	257768	12/29/18 14:14	JZT	TAL PLS
Total/NA	Prep	3546			518501	12/20/18 14:02	EGC	TAL IRV
Total/NA	Analysis	8082		1	519051	12/24/18 18:27	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:01	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:40	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:42	MAG	TAL PLS

Client Sample ID: DG-Q3S-3.5-4

Lab Sample ID: 720-90412-9

Date Collected: 12/18/18 10:35

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DG-S3S-0.5-1

Lab Sample ID: 720-90412-10

Date Collected: 12/18/18 11:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518914	12/18/18 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 14:23	DCI	TAL IRV
Total/NA	Prep	5035			518914	12/18/18 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 14:23	DCI	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257743	12/28/18 16:18	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257324	12/21/18 03:21	JXL	TAL PLS
Total/NA	Prep	3546			257336	12/20/18 09:20	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 10:30	JZT	TAL PLS
Total/NA	Prep	3546			519685	12/27/18 18:48	EGC	TAL IRV
Total/NA	Analysis	8082		1	519816	12/28/18 12:04	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:15	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:45	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DG-S3S-3.5-4

Lab Sample ID: 720-90412-11

Date Collected: 12/18/18 11:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518914	12/18/18 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 14:51	DCI	TAL IRV
Total/NA	Prep	5035			519068	12/18/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519009	12/24/18 13:08	WC	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	257766	12/29/18 07:53	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		10	257325	12/21/18 04:05	JXL	TAL PLS
Total/NA	Prep	3546			257336	12/20/18 09:20	IAU	TAL PLS
Total/NA	Analysis	8081A		2	257700	12/28/18 10:48	JZT	TAL PLS
Total/NA	Prep	3546			519685	12/27/18 18:48	EGC	TAL IRV

Client Sample ID: DG-S3S-3.5-4

Lab Sample ID: 720-90412-11

Date Collected: 12/18/18 11:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	519815	12/28/18 13:44	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:20	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 20:50	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		10	257939	01/03/19 17:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DG-U3S-0.5-1

Lab Sample ID: 720-90412-12

Date Collected: 12/18/18 13:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 13:22	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 13:22	WC	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	257766	12/29/18 08:16	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		2	257323	12/21/18 04:48	JXL	TAL PLS
Total/NA	Prep	3546			257336	12/20/18 09:20	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 11:07	JZT	TAL PLS
Total/NA	Prep	3546			519685	12/27/18 18:48	EGC	TAL IRV
Total/NA	Analysis	8082		1	519816	12/28/18 12:30	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:25	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 21:04	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 17:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DG-U3S-3.5-4

Lab Sample ID: 720-90412-13

Date Collected: 12/18/18 13:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 13:49	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 13:49	WC	TAL IRV

Client Sample ID: DG-U3S-3.5-4

Lab Sample ID: 720-90412-13

Date Collected: 12/18/18 13:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 07:48	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257324	12/21/18 02:51	JXL	TAL PLS
Total/NA	Prep	3546			257336	12/20/18 09:20	IAU	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 11:25	JZT	TAL PLS
Total/NA	Prep	3546			519685	12/27/18 18:48	EGC	TAL IRV
Total/NA	Analysis	8082		1	519816	12/28/18 12:43	JM	TAL IRV
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:29	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 21:08	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257340	12/20/18 09:34	TNL	TAL PLS

Client Sample ID: DUP-15

Lab Sample ID: 720-90412-14

Date Collected: 12/18/18 00:00

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 14:15	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 14:15	WC	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	257766	12/29/18 04:24	LPL	TAL PLS
Total/NA	Prep	3546			257342	12/20/18 09:45	RAR	TAL PLS
Total/NA	Analysis	8015B		10	257325	12/21/18 04:29	JXL	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:34	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 21:13	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 17:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-W3S-0.5-1

Lab Sample ID: 720-90412-15

Date Collected: 12/18/18 14:05

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV

Client Sample ID: DG-W3S-0.5-1

Lab Sample ID: 720-90412-15

Date Collected: 12/18/18 14:05

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518646	12/21/18 14:42	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 14:42	WC	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	257766	12/29/18 04:47	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 14:54	DCH	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:39	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 21:18	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 17:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-W3S-3.5-4

Lab Sample ID: 720-90412-16

Date Collected: 12/18/18 14:05

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 15:08	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 15:08	WC	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 06:37	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 17:49	DCH	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:44	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 21:22	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 17:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-Y3S-0.5-1

Lab Sample ID: 720-90412-17

Date Collected: 12/18/18 14:40

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 15:35	WC	TAL IRV

Client Sample ID: DG-Y3S-0.5-1

Lab Sample ID: 720-90412-17

Date Collected: 12/18/18 14:40
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 15:35	WC	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		50	257766	12/29/18 07:06	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		10	257513	12/24/18 12:57	DCH	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:49	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 21:27	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 17:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-Y3S-3.5-4

Lab Sample ID: 720-90412-18

Date Collected: 12/18/18 14:40
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 16:01	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 16:01	WC	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 07:01	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 18:18	DCH	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:53	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 21:31	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 17:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AA3S-0.5-1

Lab Sample ID: 720-90412-19

Date Collected: 12/18/18 15:25
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 16:28	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV

Client Sample ID: DG-AA3S-0.5-1

Lab Sample ID: 720-90412-19

Date Collected: 12/18/18 15:25

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 16:28	WC	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	257766	12/29/18 07:30	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 15:23	DCH	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257644	12/27/18 00:58	BKR	TAL PLS
Total/NA	Prep	3050B			257270	12/19/18 15:49	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257723	12/27/18 21:36	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 17:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AA3S-3.5-4

Lab Sample ID: 720-90412-20

Date Collected: 12/18/18 15:25

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 16:54	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 16:54	WC	TAL IRV
Total/NA	Prep	3546			257530	12/24/18 10:19	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 07:24	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 18:47	DCH	TAL PLS
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 12:39	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AA3S-7-7.5

Lab Sample ID: 720-90412-21

Date Collected: 12/18/18 15:25

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 17:20	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 17:20	WC	TAL IRV
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 05:27	LPL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-AA3S-7-7.5

Date Collected: 12/18/18 15:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 19:16	DCH	TAL PLS
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 12:44	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DUP-16

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	518646	12/21/18 17:46	WC	TAL IRV
Total/NA	Prep	5035			518721	12/18/18 20:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518647	12/21/18 17:46	WC	TAL IRV
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	257766	12/29/18 09:03	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 13:56	DCH	TAL PLS
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 12:49	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AH4S-6-6.5

Date Collected: 12/18/18 10:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 05:51	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257513	12/24/18 15:52	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Client Sample ID: DG-AH4S-4-4.5

Date Collected: 12/18/18 10:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90412-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518334	12/20/18 06:44	AYL	TAL IRV
Total/NA	Analysis	8260B		100	518867	12/22/18 11:44	HR	TAL IRV
Total/NA	Prep	5035			518334	12/20/18 06:44	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	520241	12/31/18 22:32	AYL	TAL IRV
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		100	257772	12/29/18 20:23	LPL	TAL PLS
Total/NA	Prep	3546			257349	12/20/18 11:14	RAR	TAL PLS
Total/NA	Analysis	8015B		20	257513	12/24/18 13:27	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90412-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3546	Solid	Chlordane (n.o.s.)
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90412-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90412-1	DG-P1S-0.5-1	Solid	12/18/18 08:25	12/18/18 19:10
720-90412-2	DG-P1S-3.5-4	Solid	12/18/18 08:25	12/18/18 19:10
720-90412-3	DUP-02	Solid	12/18/18 00:00	12/18/18 19:10
720-90412-4	DG-N1S-0.5-1	Solid	12/18/18 09:00	12/18/18 19:10
720-90412-5	DG-N1S-3.5-4	Solid	12/18/18 09:00	12/18/18 19:10
720-90412-6	DG-O3S-0.5-1	Solid	12/18/18 09:50	12/18/18 19:10
720-90412-7	DG-O3S-3.5-4	Solid	12/18/18 09:50	12/18/18 19:10
720-90412-8	DG-Q3S-0.5-1	Solid	12/18/18 10:35	12/18/18 19:10
720-90412-9	DG-Q3S-3.5-4	Solid	12/18/18 10:35	12/18/18 19:10
720-90412-10	DG-S3S-0.5-1	Solid	12/18/18 11:15	12/18/18 19:10
720-90412-11	DG-S3S-3.5-4	Solid	12/18/18 11:15	12/18/18 19:10
720-90412-12	DG-U3S-0.5-1	Solid	12/18/18 13:15	12/18/18 19:10
720-90412-13	DG-U3S-3.5-4	Solid	12/18/18 13:15	12/18/18 19:10
720-90412-14	DUP-15	Solid	12/18/18 00:00	12/18/18 19:10
720-90412-15	DG-W3S-0.5-1	Solid	12/18/18 14:05	12/18/18 19:10
720-90412-16	DG-W3S-3.5-4	Solid	12/18/18 14:05	12/18/18 19:10
720-90412-17	DG-Y3S-0.5-1	Solid	12/18/18 14:40	12/18/18 19:10
720-90412-18	DG-Y3S-3.5-4	Solid	12/18/18 14:40	12/18/18 19:10
720-90412-19	DG-AA3S-0.5-1	Solid	12/18/18 15:25	12/18/18 19:10
720-90412-20	DG-AA3S-3.5-4	Solid	12/18/18 15:25	12/18/18 19:10
720-90412-21	DG-AA3S-7-7.5	Solid	12/18/18 15:25	12/18/18 19:10
720-90412-22	DUP-16	Solid	12/18/18 00:00	12/18/18 19:10
720-90412-23	DG-AH4S-6-6.5	Solid	12/18/18 10:40	12/18/18 19:10
720-90412-24	DG-AH4S-4-4.5	Solid	12/18/18 10:00	12/18/18 19:10

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A1817355
Received: 12/20/2018
Reported: 1/3/2018
Analyst: Candace Burrus
Mikaela Batta

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-N1S-0.5-1 (720-90412- 4)	A219747	No	None Detected	0.00
DG-N1S-3.5-4 (720-90412- 5)	A219748	No	None Detected	0.00
DG-03S-0.5-1 (720-90412- 6)	A219749	No	None Detected	0.00
DG-03S-3.5-4 (720-90412- 7)	A219750	No	None Detected	0.00
DG-Q3S-0.5-1 (720-90412- 8)	A219751	No	None Detected	0.00
DG-Q3S-3.5-4 (720-90412- 9)	A219752	No	None Detected	0.00
DG-S3S-0.5-1 (720-90412- 10)	A219753	No	None Detected	0.00
DG-S3S-3.5-4 (720-90412- 11)	A219754	No	None Detected	0.00
DG-U3S-0.5-1 (720-90412- 12)	A219755	No	None Detected	0.00
DG-U3S-3.5-4 (720-90412- 13)	A219756	No	None Detected	0.00

REVIEWED BY:

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730 SE Maynard Road
Cary, NC 27511
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F | 919-481-1442
www.EurofinsUS.com/CEI

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

A1817355 (137) (20)

A219747 - ~~A219755~~ A219756

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40580.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/3/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-N1S-0.5-1 (720-90412-4)	12/18/18	09:00 Pacific		Solid			X	1	
DG-N1S-3.5-4 (720-90412-5)	12/18/18	09:00 Pacific		Solid			X	1	
DG-O3S-0.5-1 (720-90412-6)	12/18/18	09:50 Pacific		Solid			X	1	
DG-O3S-3.5-4 (720-90412-7)	12/18/18	09:50 Pacific		Solid			X	1	
DG-Q3S-0.5-1 (720-90412-8)	12/18/18	10:35 Pacific		Solid			X	1	
DG-Q3S-3.5-4 (720-90412-9)	12/18/18	10:35 Pacific		Solid			X	1	
DG-S3S-0.5-1 (720-90412-10)	12/18/18	11:15 Pacific		Solid			X	1	
DG-S3S-3.5-4 (720-90412-11)	12/18/18	11:15 Pacific		Solid			X	1	
DG-U3S-0.5-1 (720-90412-12)	12/18/18	13:15 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Joan Kuller	12-19-18 1600	PLUS		12/20/18 11:40 AM	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

A1817355

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40580.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/3/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-U3S-3.5-4 (720-90412-13)	12/18/18	13:15 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90412

Chain of Custody Record

187448

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			720-90412 Chain of Custody
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-P15-0.5-1.0	12/18/18	0825	G	S	4 (2)	N		X	X	X	X	X	X	X (2)	*only VOCs
2 DG-P15-3.5-4		0825			4										
3 DUP-02		—			4										
4 DG-N15-0.5-1		0900			4										
5 DG-N15-3.5-4		0900			4										
6 DG-035-0.5-1		0950			4										
7 DG-035-3.5-4		0950			4										
8 DG-035-0.5-1		1035			4										
9 DG-035-3.5-4		1035			4										
10 DG-535-0.5-1		1115			4										
11 DG-535-3.5-4		1115			4										
12 DG-035-0.5-1		1315			4										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.2, 5.0, 2.9, 3.9, 4.3, 1.8, 2.8°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No: ____			
Relinquished by	Company Geosyntec	Date/Time 12/18/18 1642	Received by	Company FEDEX	Date/Time 12/18/18 1642
Relinquished by	Company TAPLS	Date/Time 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/18/18 19:10

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/8/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90412

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187448

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler.
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	DR	Sample Specific Notes
13	DG-U35-3.5-4	12/13/18	1315	G	S	7	N		X	X	X	X	X	X	X		
14	DUP-15		—			7											
15	DG-W35-0.5-1		1465			7											
16	DG-W35-3.5-4		1465			7											
17	DG-Y35-0.5-1		1440			7											
18	DG-Y35-3.5-4		1440			7											
19	DG-AA35-0.5-1		1525			7											
20	DG-AA35-3.5-4		1525			7											
21	DG-AA35-7-7.5		1525			~~7~~ 6	X										No MS/MSD
22	DUP-16		—			7											
23	~~FB 12/18/18~~								X								
24	DG-AH45-6-6.5	12/18/18	1646	G	S	2				X		X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____	
Relinquished by	Company Geosyntec	Date/Time 12/18/18 1640	Received by	Company TAPLS	Date/Time 12/18/18 1642
Relinquished by	Company TAPLS	Date/Time 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by.	Company TA-PLS	Date/Time 12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/8/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90412

Chain of Custody Record

TestAmerica

187448

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)		Sample Specific Notes
~~DC1-A1145-4-4.5~~	12/18/18	1000	G	S	7	N		X	X	X	X	X	X	X	(BL)	
DC1-A1145-4-4.5	12/18/18	1000	G	S	2			X	X		X					
~~DC1-A1145-4-4.5~~ (BL)																

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company: Geosyntec	Date/Time: 12/18/18 1642	Received by	Company: TAPLS	Date/Time: 12/18/18 1642
Relinquished by	Company: TAPLS	Date/Time: 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

720-90412

720-90412-02 Chain of Custody

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080

Location: SQLA
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
463602765788

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Dec 18, 2018 5:00:02 PM

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1/8/2019

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	~~8082/3546 Standard 8082 PCB list~~										Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
DG-P1S-0.5-1 (720-90412-1)	12/18/18	08:25 Pacific		Solid			X	X											4	
DG-P1S-3.5-4 (720-90412-2)	12/18/18	08:25 Pacific		Solid			X	X											4	
DUP-02 (720-90412-3)	12/18/18	Pacific		Solid			X	X											4	
DG-N1S-0.5-1 (720-90412-4)	12/18/18	09:00 Pacific		Solid			X	X	X										5 4	
DG-N1S-3.5-4 (720-90412-5)	12/18/18	09:00 Pacific		Solid			X	X	X										5 4	
DG-O3S-0.5-1 (720-90412-6)	12/18/18	09:50 Pacific		Solid			X	X	X										5 4	
DG-O3S-3.5-4 (720-90412-7)	12/18/18	09:50 Pacific		Solid			X	X	X										5 4	
DG-Q3S-0.5-1 (720-90412-8)	12/18/18	10:35 Pacific		Solid			X	X	X										5 4	
DG-Q3S-3.5-4 (720-90412-9)	12/18/18	10:35 Pacific		Solid			X	X	X										5 4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB List	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-S3S-0.5-1 (720-90412-10)	12/18/18	11:15 Pacific		Solid			X	X	X	5	4
DG-S3S-3.5-4 (720-90412-11)	12/18/18	11:15 Pacific		Solid			X	X	X	5	4
DG-U3S-0.5-1 (720-90412-12)	12/18/18	13:15 Pacific		Solid			X	X	X	5	4
DG-U3S-3.5-4 (720-90412-13)	12/18/18	13:15 Pacific		Solid			X	X	X	5	4
DUP-15 (720-90412-14)	12/18/18	Pacific		Solid			X	X		4	
DG-W3S-0.5-1 (720-90412-15)	12/18/18	14:05 Pacific		Solid			X	X		4	
DG-W3S-3.5-4 (720-90412-16)	12/18/18	14:05 Pacific		Solid			X	X		4	
DG-Y3S-0.5-1 (720-90412-17)	12/18/18	14:40 Pacific		Solid			X	X		4	
DG-Y3S-3.5-4 (720-90412-18)	12/18/18	14:40 Pacific		Solid			X	X		4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1/8/2019

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AA3S-0.5-1 (720-90412-19)	12/18/18	15:25 Pacific		Solid			X	X		4	
DG-AA3S-3.5-4 (720-90412-20)	12/18/18	15:25 Pacific		Solid			X	X		4	
DG-AA3S-7-7.5 (720-90412-21)	12/18/18	15:25 Pacific		Solid			X	X		4	
DUP-16 (720-90412-22)	12/18/18	Pacific		Solid			X	X		4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90412

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187448

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90412 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-P15-0.5-1.0	12/18/18	0830	G	S	4	N		X	X	X	X	X	X	X	*only VOCs
2 DG-P15-3.5-4		0825			4										
3 DUP-02		—			4										
4 DG-N15-0.5-1		0900			4										
5 DG-N15-3.5-4		0900			4										
6 DG-O35-0.5-1		0950			4										
7 DG-O35-3.5-4		0950			4										
8 DG-O35-0.5-1		1035			4										
9 DG-O35-3.5-4		1035			4										
10 DG-S35-0.5-1		1115			4										
11 DG-S35-3.5-4		1115			4										
12 DG-W35-0.5-1		1315			4										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.2, 5.0, 2.9, 3.9, 4.3, 1.8, 2.8°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____	Therm ID No.:
Relinquished by	Company Geosyntec	Date/Time 12/18/18 1615	Received by	Company TAPLS	Date/Time 12/18/18 1642
Relinquished by	Company TAPLS	Date/Time 12/18/18 1710	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/18/18 19:10

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Received by: TAIKV 12/19/18 10:30

N/CS TRK-4636 0276 5788

2.9/2.4 IR-9.3

Temperatures Frozen 12/19/18 Time: 1145 Initials: AJS

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90412

Chain of Custody Record

187448

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkalinkas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	DO-8	Sample Specific Notes
13 DG-U35-3.5-4	12/13/18	1315	G	S	7	N		X	X	X	X	X	X	X		
14 DUP-15		—			7											
15 DG-W35-0.5-1		1465			7											
16 DG-W35-3.5-4		1465			7											
17 DG-Y35-0.5-1		1440			7											
18 DG-Y35-3.5-4		1440			7											
19 DG-AA35-0.5-1		1525			7											
20 DG-AA35-3.5-4		1525			7											
21 DG-AA35-7-7.5		1525			7		X									No MS/MSD
22 DUP-16		—			7											
~~23 TB 12/13/18~~								X								
24 DG-AH45-6-6.5	12/18/18	1646	G	S	2				X		X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd	Corr'd	Therm ID No.

Relinquished by	Company Geosyntec	Date/Time 12/18/18 1642	Received by	Company TAPLS	Date/Time 12/18/18 1642
Relinquished by	Company TAPLS	Date/Time 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Received by TA/KU 12/19/18 10:30
2.9/2.4 1K 93

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90412

Chain of Custody Record

TestAmerica
187448

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnles@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)		Sample Specific Notes
~~DG-AH45-4-4.5~~	12/18/18	1000	G	S	1	N		X	X	X	X	X	X	X	(BL)	
DG-AH45-4-4.5	12/18/18	1040	G	S	2			X	X		X					
~~DG-BH45-4-4.5~~ (BL)																

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd	Corr'd	Therm ID No.

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Geosyntec	12/18/18 1642		TAPLS	12/18/18 1642
Relinquished by	TAPLS	12/18/18 1810		Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time 12/18/18 1950

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Received by TA IRV 12/19/18 1030

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94568
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefod, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL_5035A_F_PW 8260B(WOD) VOCs_GRS	8260BCA_LL_TEDLAR_5035A_F_PW 8260B/CA_F_PW 8260 CA_F	Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-P1S-0.5-1 (720-90412-1)	12/18/18	08:25 Pacific		Solid			X	X			4	
DG-P1S-3.5-4 (720-90412-2)	12/18/18	08:25 Pacific		Solid			X	X			4	
DUP-02 (720-90412-3)	12/18/18	Pacific		Solid			X	X			4	
DG-N1S-0.5-1 (720-90412-4)	12/18/18	09:00 Pacific		Solid			X	X	X		4	1
DG-N1S-3.5-4 (720-90412-5)	12/18/18	09:00 Pacific		Solid			X	X	X		4	1
DG-O3S-0.5-1 (720-90412-6)	12/18/18	09:50 Pacific		Solid			X	X	X		4	1
DG-O3S-3.5-4 (720-90412-7)	12/18/18	09:50 Pacific		Solid			X	X	X		4	1
DG-Q3S-0.5-1 (720-90412-8)	12/18/18	10:35 Pacific		Solid			X	X	X		4	1
DG-Q3S-3.5-4 (720-90412-9)	12/18/18	10:35 Pacific		Solid			X	X	X		4	1

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
1	Joseph Mueller	12-19-18 1600	PLOG			
2	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
					12/20/18 0700	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes 4 No | Custody Seal No.: [illegible]

Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

1/8/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD)_VOCs_+ 5ms	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-S3S-0.5-1 (720-90412-10)	12/18/18	11:15 Pacific		Solid			X	X	X	5	1
DG-S3S-3.5-4 (720-90412-11)	12/18/18	11:15 Pacific		Solid			X	X	X	5	1
DG-U3S-0.5-1 (720-90412-12)	12/18/18	13:15 Pacific		Solid			X	X	X	5	1
DG-U3S-3.5-4 (720-90412-13)	12/18/18	13:15 Pacific		Solid			X	X	X	5	1
DUP-15 (720-90412-14)	12/18/18	Pacific		Solid			X	X		4	
DG-W3S-0.5-1 (720-90412-15)	12/18/18	14:05 Pacific		Solid			X	X		4	
DG-W3S-3.5-4 (720-90412-16)	12/18/18	14:05 Pacific		Solid			X	X		4	
DG-Y3S-0.5-1 (720-90412-17)	12/18/18	14:40 Pacific		Solid			X	X		4	
DG-Y3S-3.5-4 (720-90412-18)	12/18/18	14:40 Pacific		Solid			X	X		4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract leboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
1	[signature]	12-19-18 1600	PLS	[signature]	12/20/18 1107	TAP
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AA3S-0.5-1 (720-90412-19)	12/18/18	15:25 Pacific		Solid			X	X			
DG-AA3S-3.5-4 (720-90412-20)	12/18/18	15:25 Pacific		Solid			X	X			
DG-AA3S-7-7.5 (720-90412-21)	12/18/18	15:25 Pacific		Solid			X	X			
DUP-16 (720-90412-22)	12/18/18	Pacific		Solid			X	X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time: 12-19-18 10cc	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/20/18 1050	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks.

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90412-1

Login Number: 90412
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90412-1

Login Number: 90412
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/19/18 05:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90412-1

Login Number: 90412
List Number: 3
Creator: Escalante, Maria I

List Source: TestAmerica Irvine
List Creation: 12/20/18 03:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, December 20, 2018 9:00 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90412-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

(#1) DG-P1S-0.5-1.0 has had the sample ID changed to DG-P1S-0.5-1 in accordance with the format for the rest of the sample IDs. Please confirm that this is correct. This is correct.

(#2 & #3) Both samples have all methods requested however only terracores were received. Please confirm that we are only running VOCs and GRO for these samples. Only VOCs and GRO, correct.

(#21) DG-AA3S-7-7.5. Received only 1x4oz jar and terracores in Pleasanton, while the COC lists 7 containers. We should have enough volume to proceed with all requested tests.

(#23) DG-AH4S-6-6.5. Received only 1x4oz jar, while the COC lists 2 containers. We should have enough volume to proceed with all requested tests.

For #21 and #23, thank you. I will let the field staff know of this error. For #24, glad this got sorted.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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engineers | scientists | innovators

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From: Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Sent: Wednesday, December 19, 2018 6:28 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Patel, Urvashi

<Urvashi.Patel@testamericainc.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90412-1 Brisbane OU-2 Data Gap Investigation

Hello,

Please disregard the note for sample number 24. Terracores were received for this sample and were missed by sample control. Irvine has these containers now and these will be frozen on time and the requested methods will be run for this sample.

Thank You,

Christian Bondoc
Project Management Assistant

Test America
THE LEADER IN ENVIRONMENTAL TESTING

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Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3271

www.testamericainc.com

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback

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From: Bondoc, Christian M.
Sent: Wednesday, December 19, 2018 12:06 PM
To: Bill Chen; Mr. Krys Jesionek; Miranda Kahrilas; Mr. Tony Smith; Patel, Urvashi
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90412-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90412-1; Brisbane OU-2 Data Gap Investigation

(#1) DG-P1S-0.5-1.0 has had the sample ID changed to DG-P1S-0.5-1 in accordance with the format for the rest of the sample IDs. Please confirm that this is correct.

(#2 & #3) Both samples have all methods requested however only terracores were received. Please confirm that we are only running VOCs and GRO for these samples.

(#21) DG-AA3S-7-7.5. Received only 1x4oz jar and terracores in Pleasanton, while the COC lists 7 containers. We should have enough volume to proceed with all requested tests.

(#23) DG-AH4S-6-6.5. Received only 1x4oz jar, while the COC lists 2 containers. We should have enough volume to proceed with all requested tests.

(#24) DG-AH4S-4-4.5. Only 2x 4 oz soil jars were received however the COC requests VOC & GRO. Please confirm if this is an error or if you would like this sample run by 5030.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [489816]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90413-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/24/2019 7:33:03 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90413-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90413-1

Comments
See client email in correspondence for instructions on sample #47.

Receipt
The samples were received on 12/18/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.2º C, 1.8º C, 2.8º C, 2.9º C, 3.9º C, 4.3º C and 5.0º C.

Receipt Exceptions

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): (#47) DG-AL4S-7.5-8. Logged on HOLD. Client instructed to analyze for metals.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257366 and analytical batch 720-257457 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257457 was outside of control limits. As-167%, Ba-159%, Be-126%, Cr-131%, Cu-133%, V-127%, Zn-195%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257457 was outside control limits for As-22%, Ba-27%, Cd-61%, Co-40%, Cr-29%, Ni-27%, Pb-25%, V-30%, Zn-23%: (720-90414-A-8-F SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257292 and analytical batch 720-257727 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257727 was outside of control limits. Ba-141%, Be-136%, Cu-156%, V-139%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257727 was outside control limits for Ba-34%%, Co-29%, Cu-29%, V-31%: (720-90413-A-14-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-AM4S-0.5-1 (720-90413-1), DG-AM4S-3.5-4 (720-90413-2), DG-AL4S-0.5-1 (720-90413-3), DG-AL4S-3.5-4 (720-90413-4), DG-AK4S-0.5-1 (720-90413-5), DG-AK4S-3.5-4 (720-90413-6), DUP-24 (720-90413-7), DG-AJ4S-0.5-1 (720-90413-8), DG-AJ4S-3.5-4 (720-90413-9), DG-AI4S-0.5-1 (720-90413-10), DG-AI4S-3.5-4 (720-90413-11), DG-AH4S-0.5-1 (720-90413-12), DG-AH4S-3.5-4 (720-90413-13), DG-AG4S-0.5-1 (720-90413-14), DG-AG4S-0.5-1 (720-90413-14[MS]), DG-AG4S-0.5-1 (720-90413-14[MSD]), DG-AG4S-3.5-4 (720-90413-15), DUP-23 (720-90413-16), DG-AH4S-6-6.5 (720-90413-17), DG-AG4S-11-11.5 (720-90413-18), DG-AF4S-0.5-1 (720-90413-19),DG-AF4S-3.5-4 (720-90413-20), DG-AE4S-0.5-1 (720-90413-21), DG-AE4S-3.5-4 (720-90413-22), DG-AD4S-0.5-1 (720-90413-23), DG-AD4S-3.5-4 (720-90413-24), DG-AC4S-0.5-1 (720-90413-25), DG-AC4S-3.5-4 (720-90413-26), DUP-22 (720-90413-27), DG-AB4S-0.5-1 (720-90413-28), DG-AB4S-3.5-4 (720-90413-29), DG-AB4S-9-9.5 (720-90413-30), DG-AA4S-0.5-1 (720-90413-31), DG-AA4S-3.5-4 (720-90413-32), DG-Z4S-0.5-1 (720-90413-33), DG-Z4S-3.5-4 (720-90413-34), DG-Y4S-0.5-1 (720-90413-35), DG-Y4S-3.5-4 (720-90413-36), DUP-21 (720-90413-37), (720-90413-A-14-F PDS), DG-X4S-0.5-1 (720-90413-38), DG-X4S-3.5-4 (720-90413-39), DG-W4S-0.5-1 (720-90413-40), DG-W4S-3.5-4 (720-90413-41), DG-V4S-0.5-1 (720-90413-42), DG-V4S-3.5-4 (720-90413-43), DG-U4S-0.5-1 (720-90413-44), DG-U4S-3.5-4 (720-90413-45), DUP-20 (720-90413-46), DG-AL4S-7.5-8 (720-90413-47), (720-90414-A-8-F) and (720-90413-A-14-F SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-257292 and analytical batch 720-257727 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Job ID: 720-90413-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The method blank for preparation batch 720-257348 and analytical batch 720-257759 contained Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The post digestion spike % recovery for Zinc associated with batch 720-257759 was outside of control limits. Zinc-72%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257759 was outside control limits for Arsenic-11%, Chromium-12%: (720-90413-A-45-F SD)

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257864 was outside of control limits. Silver-126%, Cobalt-128%, Nickel-128%, Selenium-127%, Vanadium-150%, Zinc-189%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257864 was outside control limits for Arsenic-16%, Barium-19%, Cobalt-19%, Chromium-24%, Copper-20%, Nickel-19%, Lead-21%, Vanadium-23%, Zinc-20%: (720-90413-A-6-F SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257285 and analytical batch 720-257864 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample(LCS) was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257348 and analytical batch 720-257759 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 7471A: The method blank for preparation batch 720-257257 and analytical batch 720-257936 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7471A: The method blank for preparation batch 720-257258 and analytical batch 720-257939 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Client Sample ID: DG-AM4S-0.5-1 — Lab Sample ID: 720-90413-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.79	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	47		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	15		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	120		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	47		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	10		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.75	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	110		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.098		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM4S-3.5-4 — Lab Sample ID: 720-90413-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.67	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	160		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	130		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.27	0.089	mg/Kg	4		6010B	Total/NA
Cadmium	0.39		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	100		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	23		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	50		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	140		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.48	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	72		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.42	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	220		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL4S-0.5-1 — Lab Sample ID: 720-90413-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	72		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	86		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.096	J	0.29	0.095	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	12		1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	120		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	59		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.50	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	5.0		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	80		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	200		4.4	1.9	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL4S-0.5-1 (Continued) — Lab Sample ID: 720-90413-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.28		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL4S-3.5-4 — Lab Sample ID: 720-90413-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.2		1.2	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	17		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	110		1.2	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	2.9		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	37		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	120		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	260		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	2.9		1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	47		1.2	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.42	J	0.62	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	330		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK4S-0.5-1 — Lab Sample ID: 720-90413-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.1		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	74		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	7.5		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	100		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	3.5		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.49	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	4.1		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	49		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.046		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK4S-3.5-4 — Lab Sample ID: 720-90413-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1	F1	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	160	F1	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	60	F1	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J F1	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.95		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	18	F1	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.9	F1	0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	850	F2	5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	210	F2	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.60	J	1.7	0.22	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK4S-3.5-4 (Continued) — Lab Sample ID: 720-90413-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	14	F1	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J F1	3.4	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	59	F1	1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	450	F2	5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.091		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-24 — Lab Sample ID: 720-90413-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	2.6		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	68		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.26	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.17	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	11		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	120		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	11		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.95	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	8.0		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	70		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.063		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ4S-0.5-1 — Lab Sample ID: 720-90413-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.92	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	6.9		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	81		1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.61		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	18		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	110		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	250		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	17		1.7	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.43	J	0.87	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	160		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.072		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ4S-3.5-4 — Lab Sample ID: 720-90413-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	27		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	29		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	15		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.45	0.045	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ4S-3.5-4 (Continued) — Lab Sample ID: 720-90413-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	150		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	20		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.41	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	4.9		1.1	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	69		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.088		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI4S-0.5-1 — Lab Sample ID: 720-90413-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	6.0		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	62		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.56		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	12		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	150		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	50		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.85	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	15		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	290		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.070		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI4S-3.5-4 — Lab Sample ID: 720-90413-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	110		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	88		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.44		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	25		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.7		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	130		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	190		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.97	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	19		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	86		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	230		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH4S-0.5-1 — Lab Sample ID: 720-90413-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.82	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	7.7		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	83		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.45	0.044	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH4S-0.5-1 (Continued) — Lab Sample ID: 720-90413-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	17		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	110		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	93		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	21		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	220		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.085		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH4S-3.5-4 — Lab Sample ID: 720-90413-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	29		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	36		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	14		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	170		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	2.3		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.34	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	7.2		2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	100		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	50		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.058		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG4S-0.5-1 — Lab Sample ID: 720-90413-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.45	J F1	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	1.1	J F1 F2	3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	36	B F1 F2	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J F1 F2	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J F2	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	7.1	F1 F2	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	7.3	F1 F2	0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	130	F1 F2	4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	10	F1 F2	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.38	J F2	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	2.4	F1 F2	1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	79	F1 F2	1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	44	F1 F2	4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.10	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG4S-3.5-4 — Lab Sample ID: 720-90413-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	100		1.9	0.27	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG4S-3.5-4 (Continued) — Lab Sample ID: 720-90413-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.18	J	0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.28	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	60		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	13		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	15		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.43	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	46		1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	47		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.063		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-23 — Lab Sample ID: 720-90413-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.58	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	40		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	27		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	3.7		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	9.7		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	14		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	19		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	19		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	24		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.047		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH4S-6-6.5 — Lab Sample ID: 720-90413-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.54	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	27		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	35		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	22		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	11		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.88	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	24		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	55		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.044		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG4S-11-11.5 — Lab Sample ID: 720-90413-18

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG4S-11-11.5 (Continued) — Lab Sample ID: 720-90413-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	53		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	49		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	25		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	11		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	2.2		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	43		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	67		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.031	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF4S-0.5-1 — Lab Sample ID: 720-90413-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	25		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	73	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.25		0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	1.4		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	22		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	6.0		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	170		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	260		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	5.8		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	17		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.37	J	2.2	0.32	mg/Kg	4		6010B	Total/NA
Silver	0.60		0.54	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	330		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.19	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF4S-3.5-4 — Lab Sample ID: 720-90413-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	31		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	98	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	35		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	5.3		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	26		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	81		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.33	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	28		1.8	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.37	J	0.92	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.8	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AF4S-3.5-4 (Continued) — Lab Sample ID: 720-90413-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	100		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.033	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE4S-0.5-1 — Lab Sample ID: 720-90413-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.4		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	190		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	190	B	1.4	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	2.1		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	38		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	260		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	780		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	2.3		1.4	0.19	mg/Kg	4		6010B	Total/NA
Nickel	33		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.86	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Silver	0.89		0.72	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	900		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.46	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE4S-3.5-4 — Lab Sample ID: 720-90413-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	81		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	66	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.26		0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	46		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	6.6		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	8.9		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	5.7		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	36		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.38	J	2.2	0.32	mg/Kg	4		6010B	Total/NA
Silver	0.12	J	0.54	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	30		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.016	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD4S-0.5-1 — Lab Sample ID: 720-90413-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	24		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	55	B	1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.31	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.53		0.41	0.041	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD4S-0.5-1 (Continued) — Lab Sample ID: 720-90413-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	12		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	120		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	89		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.73	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	9.1		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	89		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.059	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD4S-3.5-4 — Lab Sample ID: 720-90413-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.63	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	34		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	45	B	1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.35	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	26		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	3.9		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	75		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	31		1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	21		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	18		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	99		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.043	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC4S-0.5-1 — Lab Sample ID: 720-90413-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.8		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	46		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	91	B	2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.95		0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	20		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	210		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	270		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	2.1		2.0	0.26	mg/Kg	4		6010B	Total/NA
Nickel	16		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	4.0	0.60	mg/Kg	4		6010B	Total/NA
Silver	0.43	J	1.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	76		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	220		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.10	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC4S-3.5-4 — Lab Sample ID: 720-90413-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.4	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC4S-3.5-4 (Continued) — Lab Sample ID: 720-90413-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	84		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	650	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.71		0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	1.8		0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	35		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	240		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	800		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	28		1.4	0.15	mg/Kg	4		6010B	Total/NA
Silver	1.1		0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	1200		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.32	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-22 — Lab Sample ID: 720-90413-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	130		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	79	B	1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.69		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	19		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.1		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	160		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	240		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	18		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.53	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Silver	0.32	J	0.87	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	78		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	270		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.066	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB4S-0.5-1 — Lab Sample ID: 720-90413-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	110		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	51	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	11		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	130		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	140		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.71	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	10		1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	300		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.11	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Client Sample ID: DG-AB4S-3.5-4 — Lab Sample ID: 720-90413-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.64	J	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	31		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	58	B	1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.21	0.067	mg/Kg	4		6010B	Total/NA
Cadmium	0.066	J	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	55		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	6.6		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	8.8		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	5.5		1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.76	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	44		1.0	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.64	J	2.1	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	25		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.021	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB4S-9-9.5 — Lab Sample ID: 720-90413-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	13		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	47	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.47		0.23	0.074	mg/Kg	4		6010B	Total/NA
Cadmium	0.076	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	37		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	37		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	13		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.98	J	1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	30		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.44	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Silver	0.37	J	0.57	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	69		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.035	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA4S-0.5-1 — Lab Sample ID: 720-90413-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.97	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	77		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	83	B	1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.27	0.088	mg/Kg	4		6010B	Total/NA
Cadmium	0.54		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	17		1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	160		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	100		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.64	J	1.4	0.17	mg/Kg	4		6010B	Total/NA
Nickel	8.3		1.4	0.14	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AA4S-0.5-1 (Continued) — Lab Sample ID: 720-90413-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	1.1	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	160		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.062	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA4S-3.5-4 — Lab Sample ID: 720-90413-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.79	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	65		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	31	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.040	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	54		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	5.5		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	11		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	5.2		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	44		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	22		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.041	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z4S-0.5-1 — Lab Sample ID: 720-90413-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	34		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	840		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	100	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.26	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	1.8		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	18		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	200		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	2100		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.86	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	16		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	2.6	0.38	mg/Kg	4		6010B	Total/NA
Silver	0.62	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	260		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	1.1	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z4S-3.5-4 — Lab Sample ID: 720-90413-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.87	J	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	72		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	80	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.29	0.095	mg/Kg	4		6010B	Total/NA
Cadmium	0.081	J	0.36	0.036	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z4S-3.5-4 (Continued) — Lab Sample ID: 720-90413-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	44		1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	21		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	13		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.42	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	75		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.44	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	38		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.088	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y4S-0.5-1 — Lab Sample ID: 720-90413-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.1		1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	94		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	200	B	1.7	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	49		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	1300		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	360		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	63		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Silver	0.41	J	0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	370		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.26	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y4S-3.5-4 — Lab Sample ID: 720-90413-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.80	J	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	36		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	90	B	1.2	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.28		0.23	0.075	mg/Kg	4		6010B	Total/NA
Cadmium	0.077	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	47		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	24		3.5	1.6	mg/Kg	4		6010B	Total/NA
Lead	20		1.2	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.45	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	60		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.72	J	2.3	0.35	mg/Kg	4		6010B	Total/NA
Silver	0.21	J	0.58	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	42		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.029	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Client Sample ID: DUP-21 — Lab Sample ID: 720-90413-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.80	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	130		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	190	B	1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.78		0.37	0.12	mg/Kg	4		6010B	Total/NA
Chromium	74		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	28		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	58		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.70	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	67		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.71	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	61		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.047	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X4S-0.5-1 — Lab Sample ID: 720-90413-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	54		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	36		1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	5.9		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	7.8		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	74		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	40		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	4.6		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.65	J B	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	54		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.17	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X4S-3.5-4 — Lab Sample ID: 720-90413-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.61	J	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	29		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	37		1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Chromium	50		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	7.3		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	1.5	J	1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	38		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	17		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.014	J B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W4S-0.5-1 — Lab Sample ID: 720-90413-40

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W4S-0.5-1 (Continued) — Lab Sample ID: 720-90413-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.30	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	34		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	32		1.1	0.16	mg/Kg	4		6010B	Total/NA
Chromium	7.1		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	65		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	3.9		1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	6.7		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	28		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.059	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W4S-3.5-4 — Lab Sample ID: 720-90413-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	37		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	23		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	33		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	3.7		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	33		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	14		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	22		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J B	3.4	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	77		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.16	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V4S-0.5-1 — Lab Sample ID: 720-90413-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	69		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	53		1.5	0.22	mg/Kg	4		6010B	Total/NA
Chromium	14		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	87		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	40		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.23	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	23		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.97	J B	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	55		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	54		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.14	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V4S-3.5-4 — Lab Sample ID: 720-90413-43

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V4S-3.5-4 (Continued) — Lab Sample ID: 720-90413-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	130		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	150		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Chromium	43		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	28		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	22		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	96		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	64		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.085	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U4S-0.5-1 — Lab Sample ID: 720-90413-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.2		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	37		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	180		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	2.7		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	37		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	170		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	320		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	4.0		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	130		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.83	J B	3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	0.45	J	0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	75		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	510		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.40	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U4S-3.5-4 — Lab Sample ID: 720-90413-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	35	F1	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	36		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.066	J	0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	12		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	9.2	F1	0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	47	F1	5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	5.0		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	11		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.85	J B	3.9	0.59	mg/Kg	4		6010B	Total/NA
Vanadium	54		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	38	F1	5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.034	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Client Sample ID: DUP-20 — Lab Sample ID: 720-90413-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.0		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	120		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	160		1.9	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	2.8		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	43		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	280		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	470		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	3.1		1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	42		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J B	3.9	0.58	mg/Kg	4		6010B	Total/NA
Silver	0.37	J	0.97	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	83		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	730		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.51	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL4S-7.5-8 — Lab Sample ID: 720-90413-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.9		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	27		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	290		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.56		0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	25		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	41		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	260		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	32		1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.67	J	0.95	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	160		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM4S-0.5-1

Date Collected: 12/18/18 08:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.79	J	1.7	0.28	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Arsenic	14		3.4	0.29	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Barium	47		1.7	0.24	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Beryllium	ND		0.34	0.11	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Cadmium	0.26	J	0.43	0.042	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Chromium	15		1.7	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Cobalt	15		0.68	0.068	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Copper	120		5.1	2.4	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Lead	47		1.7	0.36	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Molybdenum	1.2	J	1.7	0.22	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Nickel	10		1.7	0.17	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Selenium	0.75	J	3.4	0.51	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Silver	ND		0.85	0.17	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Thallium	ND		1.7	0.50	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Vanadium	120		1.7	0.23	mg/Kg		12/19/18 15:20	12/27/18 13:03	4
Zinc	110		5.1	2.2	mg/Kg		12/19/18 15:20	12/27/18 13:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.098		0.016	0.0023	mg/Kg		12/19/18 11:24	01/02/19 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DG-AM4S-3.5-4

Date Collected: 12/18/18 08:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J	1.4	0.23	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Arsenic	160		2.7	0.23	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Barium	130		1.4	0.19	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Beryllium	0.44		0.27	0.089	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Cadmium	0.39		0.34	0.034	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Chromium	100		1.4	0.15	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Cobalt	23		0.55	0.055	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Copper	50		4.1	2.0	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Lead	140		1.4	0.29	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Molybdenum	0.48	J	1.4	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Nickel	72		1.4	0.14	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Selenium	0.42	J	2.7	0.41	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Silver	ND		0.68	0.14	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Thallium	ND		1.4	0.40	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Vanadium	67		1.4	0.19	mg/Kg		12/19/18 15:20	12/27/18 13:08	4
Zinc	220		4.1	1.7	mg/Kg		12/19/18 15:20	12/27/18 13:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.015	0.0022	mg/Kg		12/19/18 11:24	01/02/19 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.9		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DG-AL4S-0.5-1

Date Collected: 12/18/18 08:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.5	0.24	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Arsenic	72		2.9	0.25	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Barium	86		1.5	0.21	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Beryllium	0.096	J	0.29	0.095	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Cadmium	0.15	J	0.36	0.036	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Chromium	12		1.5	0.15	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Cobalt	7.7		0.58	0.058	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Copper	120		4.4	2.1	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Lead	59		1.5	0.31	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Molybdenum	0.50	J	1.5	0.19	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Nickel	5.0		1.5	0.15	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Selenium	ND		2.9	0.44	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Silver	ND		0.73	0.15	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Thallium	ND		1.5	0.42	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Vanadium	80		1.5	0.20	mg/Kg		12/19/18 15:20	12/27/18 13:13	4
Zinc	200		4.4	1.9	mg/Kg		12/19/18 15:20	12/27/18 13:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.015	0.0022	mg/Kg		12/19/18 11:24	01/02/19 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DG-AL4S-3.5-4

Date Collected: 12/18/18 08:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2		1.2	0.21	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Arsenic	17		2.5	0.21	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Barium	110		1.2	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Beryllium	ND		0.25	0.081	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Cadmium	2.9		0.31	0.031	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Chromium	37		1.2	0.13	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Cobalt	9.2		0.50	0.050	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Copper	120		3.7	1.8	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Lead	260		1.2	0.26	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Molybdenum	2.9		1.2	0.16	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Nickel	47		1.2	0.13	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Selenium	ND		2.5	0.37	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Silver	0.42	J	0.62	0.13	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Thallium	ND		1.2	0.36	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Vanadium	35		1.2	0.17	mg/Kg		12/19/18 15:20	12/27/18 13:17	4
Zinc	330		3.7	1.6	mg/Kg		12/19/18 15:20	12/27/18 13:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.015	0.0021	mg/Kg		12/19/18 11:24	01/02/19 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.9		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DG-AK4S-0.5-1

Date Collected: 12/18/18 09:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.28	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Arsenic	**4.1**		3.4	0.29	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Barium	**74**		1.7	0.24	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Beryllium	**0.19**	**J**	0.34	0.11	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Cadmium	**0.13**	**J**	0.43	0.042	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Chromium	**7.5**		1.7	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Cobalt	**13**		0.68	0.068	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Copper	**100**		5.1	2.4	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Lead	**3.5**		1.7	0.36	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Molybdenum	**0.49**	**J**	1.7	0.22	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Nickel	**4.1**		1.7	0.17	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Selenium	ND		3.4	0.51	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Silver	ND		0.85	0.17	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Thallium	ND		1.7	0.50	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Vanadium	**110**		1.7	0.23	mg/Kg		12/19/18 15:20	12/27/18 13:22	4
Zinc	**49**		5.1	2.2	mg/Kg		12/19/18 15:20	12/27/18 13:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.014	0.0021	mg/Kg		12/19/18 11:24	01/02/19 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DG-AK4S-3.5-4

Date Collected: 12/18/18 09:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1	F1	1.7	0.29	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Arsenic	160	F1	3.4	0.29	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Barium	60	F1	1.7	0.24	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Beryllium	0.19	J F1	0.34	0.11	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Cadmium	0.95		0.43	0.043	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Chromium	18	F1	1.7	0.18	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Cobalt	9.9	F1	0.69	0.069	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Copper	850	F2	5.2	2.5	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Lead	210	F2	1.7	0.36	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Molybdenum	0.60	J	1.7	0.22	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Nickel	14	F1	1.7	0.18	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Selenium	1.0	J F1	3.4	0.52	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Silver	ND	F1	0.86	0.17	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Thallium	ND		1.7	0.50	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Vanadium	59	F1	1.7	0.23	mg/Kg		12/19/18 15:20	12/27/18 12:35	4
Zinc	450	F2	5.2	2.2	mg/Kg		12/19/18 15:20	12/27/18 12:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.016	0.0023	mg/Kg		12/19/18 11:24	01/02/19 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DUP-24

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.3	0.21	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Arsenic	2.6		2.6	0.22	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Barium	68		1.3	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Beryllium	0.18	J	0.26	0.083	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Cadmium	0.17	J	0.32	0.032	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Chromium	11		1.3	0.14	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Cobalt	15		0.51	0.051	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Copper	120		3.8	1.8	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Lead	11		1.3	0.27	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Molybdenum	0.95	J	1.3	0.16	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Nickel	8.0		1.3	0.13	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Selenium	ND		2.6	0.38	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Silver	ND		0.64	0.13	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Thallium	ND		1.3	0.37	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Vanadium	120		1.3	0.17	mg/Kg		12/19/18 15:20	12/27/18 13:27	4
Zinc	70		3.8	1.6	mg/Kg		12/19/18 15:20	12/27/18 13:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.016	0.0024	mg/Kg		12/19/18 11:24	01/02/19 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.0		0.1	0.05	%			12/20/18 10:16	1

Client Sample ID: DG-AJ4S-0.5-1

Date Collected: 12/18/18 09:20
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.92	J	1.7	0.29	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Arsenic	6.9		3.5	0.30	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Barium	81		1.7	0.25	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Beryllium	ND		0.35	0.11	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Cadmium	0.61		0.43	0.043	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Chromium	18		1.7	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Cobalt	12		0.70	0.070	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Copper	110		5.2	2.5	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Lead	250		1.7	0.37	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Molybdenum	1.1	J	1.7	0.22	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Nickel	17		1.7	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Selenium	ND		3.5	0.52	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Silver	0.43	J	0.87	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Thallium	ND		1.7	0.50	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Vanadium	100		1.7	0.24	mg/Kg		12/19/18 15:20	12/27/18 13:31	4
Zinc	160		5.2	2.2	mg/Kg		12/19/18 15:20	12/27/18 13:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.016	0.0023	mg/Kg		12/19/18 11:24	01/02/19 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		0.1	0.05	%			12/20/18 10:16	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Client Sample ID: DG-AJ4S-3.5-4

Date Collected: 12/18/18 09:20
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.19	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Arsenic	**27**		2.3	0.19	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Barium	**29**		1.1	0.16	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Beryllium	ND		0.23	0.073	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Cadmium	**0.11**	**J**	0.28	0.028	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Chromium	**15**		1.1	0.12	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Cobalt	**11**		0.45	0.045	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Copper	**150**		3.4	1.6	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Lead	**20**		1.1	0.24	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Molybdenum	**0.41**	**J**	1.1	0.14	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Nickel	**4.9**		1.1	0.12	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Selenium	ND		2.3	0.34	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Silver	ND		0.56	0.11	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Thallium	ND		1.1	0.33	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Vanadium	**100**		1.1	0.15	mg/Kg		12/19/18 15:20	12/27/18 13:36	4
Zinc	**69**		3.4	1.4	mg/Kg		12/19/18 15:20	12/27/18 13:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.088**		0.015	0.0023	mg/Kg		12/19/18 11:24	01/02/19 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AI4S-0.5-1

Date Collected: 12/18/18 09:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.8	0.30	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Arsenic	6.0		3.6	0.31	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Barium	62		1.8	0.26	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Beryllium	0.14	J	0.36	0.12	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Cadmium	0.56		0.45	0.045	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Chromium	12		1.8	0.19	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Cobalt	8.9		0.72	0.072	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Copper	150		5.4	2.6	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Lead	50		1.8	0.38	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Molybdenum	0.85	J	1.8	0.23	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Nickel	15		1.8	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Selenium	ND		3.6	0.54	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Silver	ND		0.90	0.18	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Thallium	ND		1.8	0.52	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Vanadium	79		1.8	0.25	mg/Kg		12/19/18 15:20	12/27/18 13:41	4
Zinc	290		5.4	2.3	mg/Kg		12/19/18 15:20	12/27/18 13:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.015	0.0021	mg/Kg		12/19/18 11:24	01/02/19 18:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AI4S-3.5-4

Date Collected: 12/18/18 09:35
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.5	0.25	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Arsenic	110		3.0	0.26	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Barium	88		1.5	0.21	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Beryllium	ND		0.30	0.098	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Cadmium	0.44		0.38	0.037	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Chromium	25		1.5	0.16	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Cobalt	9.7		0.60	0.060	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Copper	130		4.5	2.1	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Lead	190		1.5	0.32	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Molybdenum	0.97	J	1.5	0.19	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Nickel	19		1.5	0.15	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Selenium	ND		3.0	0.45	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Silver	ND		0.75	0.15	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Thallium	ND		1.5	0.44	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Vanadium	86		1.5	0.20	mg/Kg		12/19/18 15:20	12/27/18 13:45	4
Zinc	230		4.5	1.9	mg/Kg		12/19/18 15:20	12/27/18 13:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		12/19/18 11:24	01/02/19 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AH4S-0.5-1

Date Collected: 12/18/18 09:55
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.82	J	1.8	0.30	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Arsenic	7.7		3.6	0.30	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Barium	83		1.8	0.25	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Beryllium	ND		0.36	0.12	mg/Kg		12/19/18 15:20	12/27/18 18:45	4
Cadmium	1.1		0.45	0.044	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Chromium	17		1.8	0.19	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Cobalt	9.8		0.71	0.071	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Copper	110		5.4	2.5	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Lead	93		1.8	0.38	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Molybdenum	1.1	J	1.8	0.23	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Nickel	21		1.8	0.18	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Selenium	ND		3.6	0.54	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Silver	ND		0.89	0.18	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Thallium	ND		1.8	0.52	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Vanadium	76		1.8	0.24	mg/Kg		12/19/18 15:20	12/27/18 14:00	4
Zinc	220		5.4	2.3	mg/Kg		12/19/18 15:20	12/27/18 14:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.085		0.017	0.0025	mg/Kg		12/19/18 11:24	01/02/19 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AH4S-3.5-4

Date Collected: 12/18/18 09:55
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.33	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Arsenic	**29**		4.0	0.34	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Barium	**36**		2.0	0.28	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Beryllium	ND		0.40	0.13	mg/Kg		12/19/18 15:20	12/27/18 18:49	4
Cadmium	**0.11**	**J**	0.50	0.049	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Chromium	**14**		2.0	0.21	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Cobalt	**9.4**		0.79	0.079	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Copper	**170**		5.9	2.8	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Lead	**2.3**		2.0	0.42	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Molybdenum	**0.34**	**J**	2.0	0.25	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Nickel	**7.2**		2.0	0.20	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Selenium	ND		4.0	0.59	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Silver	ND		0.99	0.20	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Thallium	ND		2.0	0.57	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Vanadium	**100**		2.0	0.27	mg/Kg		12/19/18 15:20	12/27/18 14:04	4
Zinc	**50**		5.9	2.5	mg/Kg		12/19/18 15:20	12/27/18 14:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.016	0.0024	mg/Kg		12/19/18 11:24	01/02/19 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AG4S-0.5-1

Date Collected: 12/18/18 10:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J F1	1.6	0.26	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Arsenic	1.1	J F1 F2	3.1	0.27	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Barium	36	B F1 F2	1.6	0.22	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Beryllium	0.17	J F1 F2	0.31	0.10	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Cadmium	0.22	J F2	0.39	0.039	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Chromium	7.1	F1 F2	1.6	0.17	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Cobalt	7.3	F1 F2	0.63	0.063	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Copper	130	F1 F2	4.7	2.2	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Lead	10	F1 F2	1.6	0.33	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Molybdenum	0.38	J F2	1.6	0.20	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Nickel	2.4	F1 F2	1.6	0.16	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Selenium	ND	F2	3.1	0.47	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Silver	ND	F1 F2	0.78	0.16	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Thallium	ND	F2	1.6	0.45	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Vanadium	79	F1 F2	1.6	0.21	mg/Kg		12/26/18 10:26	12/27/18 18:14	4
Zinc	44	F1 F2	4.7	2.0	mg/Kg		12/26/18 10:26	12/27/18 18:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10	B	0.016	0.0023	mg/Kg		01/03/19 10:40	01/03/19 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.9		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AG4S-3.5-4

Date Collected: 12/18/18 10:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	1.9	0.32	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Arsenic	16		3.8	0.33	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Barium	100		1.9	0.27	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Beryllium	0.18	J	0.38	0.13	mg/Kg		12/19/18 15:20	12/27/18 18:54	4
Cadmium	0.28	J	0.48	0.048	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Chromium	60		1.9	0.20	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Cobalt	7.5		0.77	0.077	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Copper	13		5.8	2.7	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Lead	15		1.9	0.40	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Molybdenum	0.43	J	1.9	0.25	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Nickel	46		1.9	0.20	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Selenium	ND		3.8	0.58	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Silver	ND		0.96	0.19	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Thallium	ND		1.9	0.56	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Vanadium	40		1.9	0.26	mg/Kg		12/19/18 15:20	12/27/18 14:09	4
Zinc	47		5.8	2.4	mg/Kg		12/19/18 15:20	12/27/18 14:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.015	0.0022	mg/Kg		12/19/18 11:24	01/02/19 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.7		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DUP-23

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J	1.1	0.18	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Arsenic	11		2.2	0.19	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Barium	40		1.1	0.16	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Beryllium	0.13	J	0.22	0.071	mg/Kg		12/19/18 15:20	12/27/18 18:58	4
Cadmium	0.14	J	0.27	0.027	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Chromium	27		1.1	0.12	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Cobalt	3.7		0.44	0.044	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Copper	9.7		3.3	1.6	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Lead	14		1.1	0.23	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Molybdenum	0.19	J	1.1	0.14	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Nickel	19		1.1	0.11	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Selenium	ND		2.2	0.33	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Silver	ND		0.55	0.11	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Thallium	ND		1.1	0.32	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Vanadium	19		1.1	0.15	mg/Kg		12/19/18 15:20	12/27/18 14:14	4
Zinc	24		3.3	1.4	mg/Kg		12/19/18 15:20	12/27/18 14:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.015	0.0021	mg/Kg		12/19/18 11:24	01/02/19 18:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AH4S-6-6.5

Date Collected: 12/18/18 10:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.6	0.27	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Arsenic	12		3.2	0.27	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Barium	27		1.6	0.23	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Beryllium	0.18	J	0.32	0.10	mg/Kg		12/19/18 15:20	12/27/18 19:12	4
Cadmium	0.11	J	0.40	0.040	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Chromium	35		1.6	0.17	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Cobalt	10		0.65	0.065	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Copper	22		4.8	2.3	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Lead	11		1.6	0.34	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Molybdenum	0.88	J	1.6	0.21	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Nickel	24		1.6	0.16	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Selenium	ND		3.2	0.48	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Silver	ND		0.81	0.16	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Thallium	ND		1.6	0.47	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Vanadium	53		1.6	0.22	mg/Kg		12/19/18 15:20	12/27/18 14:19	4
Zinc	55		4.8	2.0	mg/Kg		12/19/18 15:20	12/27/18 14:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.014	0.0021	mg/Kg		12/19/18 11:29	01/03/19 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AG4S-11-11.5

Date Collected: 12/18/18 11:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4		1.1	0.18	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Arsenic	11		2.2	0.19	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Barium	53		1.1	0.16	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Beryllium	0.46		0.22	0.071	mg/Kg		12/19/18 15:20	12/27/18 19:17	4
Cadmium	0.20	J	0.27	0.027	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Chromium	49		1.1	0.12	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Cobalt	19		0.44	0.044	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Copper	25		3.3	1.6	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Lead	11		1.1	0.23	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Molybdenum	2.2		1.1	0.14	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Nickel	43		1.1	0.11	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Selenium	ND		2.2	0.33	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Silver	ND		0.55	0.11	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Thallium	ND		1.1	0.32	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Vanadium	56		1.1	0.15	mg/Kg		12/19/18 15:20	12/27/18 14:23	4
Zinc	67		3.3	1.4	mg/Kg		12/19/18 15:20	12/27/18 14:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	B	0.015	0.0023	mg/Kg		01/03/19 10:40	01/03/19 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AF4S-0.5-1

Date Collected: 12/18/18 11:10
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5		1.1	0.18	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Arsenic	25		2.2	0.18	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Barium	73	B	1.1	0.15	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Beryllium	0.25		0.22	0.070	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Cadmium	1.4		0.27	0.027	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Chromium	22		1.1	0.11	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Cobalt	6.0		0.43	0.043	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Copper	170		3.2	1.5	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Lead	260		1.1	0.23	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Molybdenum	5.8		1.1	0.14	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Nickel	17		1.1	0.11	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Selenium	0.37	J	2.2	0.32	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Silver	0.60		0.54	0.11	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Thallium	ND		1.1	0.31	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Vanadium	43		1.1	0.15	mg/Kg		12/26/18 10:26	12/27/18 18:18	4
Zinc	330		3.2	1.4	mg/Kg		12/26/18 10:26	12/27/18 18:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.015	0.0021	mg/Kg		01/03/19 10:40	01/03/19 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AF4S-3.5-4

Lab Sample ID: 720-90413-20

Date Collected: 12/18/18 11:10

Matrix: Solid

Date Received: 12/18/18 19:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.8	0.30	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Arsenic	31		3.7	0.31	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Barium	98	B	1.8	0.26	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Beryllium	ND		0.37	0.12	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Cadmium	0.27	J	0.46	0.046	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Chromium	35		1.8	0.19	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Cobalt	5.3		0.73	0.073	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Copper	26		5.5	2.6	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Lead	81		1.8	0.39	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Molybdenum	0.33	J	1.8	0.23	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Nickel	28		1.8	0.19	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Selenium	ND		3.7	0.55	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Silver	0.37	J	0.92	0.19	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Thallium	ND		1.8	0.53	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Vanadium	27		1.8	0.25	mg/Kg		12/26/18 10:26	12/27/18 18:23	4
Zinc	100		5.5	2.3	mg/Kg		12/26/18 10:26	12/27/18 18:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	B	0.016	0.0023	mg/Kg		01/03/19 10:40	01/03/19 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.8		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AE4S-0.5-1

Date Collected: 12/18/18 11:20
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.4		1.4	0.24	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Arsenic	190		2.9	0.25	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Barium	190	B	1.4	0.21	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Beryllium	ND		0.29	0.094	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Cadmium	2.1		0.36	0.036	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Chromium	38		1.4	0.15	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Cobalt	8.6		0.58	0.058	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Copper	260		4.3	2.1	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Lead	780		1.4	0.30	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Molybdenum	2.3		1.4	0.19	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Nickel	33		1.4	0.15	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Selenium	0.86	J	2.9	0.43	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Silver	0.89		0.72	0.15	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Thallium	ND		1.4	0.42	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Vanadium	54		1.4	0.20	mg/Kg		12/26/18 10:26	12/27/18 18:28	4
Zinc	900		4.3	1.8	mg/Kg		12/26/18 10:26	12/27/18 18:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46	B	0.015	0.0023	mg/Kg		01/03/19 10:40	01/03/19 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AE4S-3.5-4

Date Collected: 12/18/18 11:20
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6		1.1	0.18	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Arsenic	81		2.2	0.18	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Barium	66	B	1.1	0.15	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Beryllium	0.26		0.22	0.070	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Cadmium	0.18	J	0.27	0.027	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Chromium	46		1.1	0.11	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Cobalt	6.6		0.43	0.043	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Copper	8.9		3.2	1.5	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Lead	5.7		1.1	0.23	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Molybdenum	0.53	J	1.1	0.14	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Nickel	36		1.1	0.11	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Selenium	0.38	J	2.2	0.32	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Silver	0.12	J	0.54	0.11	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Thallium	ND		1.1	0.31	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Vanadium	30		1.1	0.15	mg/Kg		12/26/18 10:26	12/27/18 18:42	4
Zinc	30		3.2	1.4	mg/Kg		12/26/18 10:26	12/27/18 18:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	B	0.016	0.0024	mg/Kg		01/03/19 10:40	01/03/19 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.7		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AD4S-0.5-1

Date Collected: 12/18/18 11:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.7	0.27	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Arsenic	24		3.3	0.28	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Barium	55	B	1.7	0.23	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Beryllium	0.31	J	0.33	0.11	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Cadmium	0.53		0.41	0.041	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Chromium	12		1.7	0.18	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Cobalt	11		0.66	0.066	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Copper	120		5.0	2.4	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Lead	89		1.7	0.35	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Molybdenum	0.73	J	1.7	0.21	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Nickel	9.1		1.7	0.17	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Selenium	ND		3.3	0.50	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Silver	ND		0.83	0.17	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Thallium	ND		1.7	0.48	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Vanadium	120		1.7	0.22	mg/Kg		12/26/18 10:26	12/27/18 18:47	4
Zinc	89		5.0	2.1	mg/Kg		12/26/18 10:26	12/27/18 18:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059	B	0.015	0.0022	mg/Kg		01/03/19 10:40	01/03/19 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AD4S-3.5-4

Date Collected: 12/18/18 11:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.9	0.31	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Arsenic	34		3.7	0.31	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Barium	45	B	1.9	0.26	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Beryllium	0.35	J	0.37	0.12	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Cadmium	0.15	J	0.46	0.046	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Chromium	26		1.9	0.20	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Cobalt	3.9		0.74	0.074	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Copper	75		5.6	2.6	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Lead	31		1.9	0.39	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Molybdenum	ND		1.9	0.24	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Nickel	21		1.9	0.19	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Selenium	ND		3.7	0.56	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Silver	ND		0.93	0.19	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Thallium	ND		1.9	0.54	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Vanadium	18		1.9	0.25	mg/Kg		12/26/18 10:26	12/27/18 18:51	4
Zinc	99		5.6	2.4	mg/Kg		12/26/18 10:26	12/27/18 18:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043	B	0.016	0.0023	mg/Kg		01/03/19 10:40	01/03/19 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.6		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AC4S-0.5-1

Date Collected: 12/18/18 13:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.8		2.0	0.33	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Arsenic	46		4.0	0.34	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Barium	91	B	2.0	0.28	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Beryllium	ND		0.40	0.13	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Cadmium	0.95		0.50	0.050	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Chromium	20		2.0	0.21	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Cobalt	9.9		0.80	0.080	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Copper	210		6.0	2.8	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Lead	270		2.0	0.42	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Molybdenum	2.1		2.0	0.26	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Nickel	16		2.0	0.20	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Selenium	1.6	J	4.0	0.60	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Silver	0.43	J	1.0	0.20	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Thallium	ND		2.0	0.58	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Vanadium	76		2.0	0.27	mg/Kg		12/26/18 10:26	12/27/18 18:56	4
Zinc	220		6.0	2.5	mg/Kg		12/26/18 10:26	12/27/18 18:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10	B	0.016	0.0024	mg/Kg		01/03/19 10:40	01/03/19 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AC4S-3.5-4

Date Collected: 12/18/18 13:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.4	0.24	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Arsenic	84		2.9	0.24	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Barium	650	B	1.4	0.20	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Beryllium	0.71		0.29	0.093	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Cadmium	1.8		0.36	0.035	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Chromium	35		1.4	0.15	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Cobalt	7.5		0.57	0.057	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Copper	240		4.3	2.0	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Lead	800		1.4	0.30	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Molybdenum	1.2	J	1.4	0.18	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Nickel	28		1.4	0.15	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Selenium	ND		2.9	0.43	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Silver	1.1		0.71	0.14	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Thallium	ND		1.4	0.41	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Vanadium	50		1.4	0.19	mg/Kg		12/26/18 10:26	12/27/18 19:01	4
Zinc	1200		4.3	1.8	mg/Kg		12/26/18 10:26	12/27/18 19:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.32	B	0.015	0.0022	mg/Kg		01/03/19 10:40	01/03/19 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.7		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DUP-22

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5		1.7	0.29	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Arsenic	130		3.5	0.30	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Barium	79	B	1.7	0.25	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Beryllium	ND		0.35	0.11	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Cadmium	0.69		0.43	0.043	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Chromium	19		1.7	0.18	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Cobalt	9.1		0.70	0.070	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Copper	160		5.2	2.5	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Lead	240		1.7	0.37	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Molybdenum	1.0	J	1.7	0.22	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Nickel	18		1.7	0.18	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Selenium	0.53	J	3.5	0.52	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Silver	0.32	J	0.87	0.18	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Thallium	ND		1.7	0.50	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Vanadium	78		1.7	0.24	mg/Kg		12/26/18 10:26	12/27/18 19:06	4
Zinc	270		5.2	2.2	mg/Kg		12/26/18 10:26	12/27/18 19:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066	B	0.016	0.0024	mg/Kg		01/03/19 10:40	01/03/19 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.7		0.1	0.05	%			12/20/18 11:02	1

Client Sample ID: DG-AB4S-0.5-1

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.6	0.27	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Arsenic	110		3.3	0.28	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Barium	51	B	1.6	0.23	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Beryllium	ND		0.33	0.11	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Cadmium	1.7		0.41	0.041	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Chromium	11		1.6	0.17	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Cobalt	12		0.66	0.066	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Copper	130		4.9	2.3	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Lead	140		1.6	0.34	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Molybdenum	0.71	J	1.6	0.21	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Nickel	10		1.6	0.17	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Selenium	ND		3.3	0.49	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Silver	ND		0.82	0.17	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Thallium	ND		1.6	0.48	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Vanadium	81		1.6	0.22	mg/Kg		12/26/18 10:26	12/27/18 19:10	4
Zinc	300		4.9	2.1	mg/Kg		12/26/18 10:26	12/27/18 19:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11	B	0.015	0.0022	mg/Kg		01/03/19 10:40	01/03/19 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-AB4S-3.5-4

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.0	0.17	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Arsenic	31		2.1	0.18	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Barium	58	B	1.0	0.15	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Beryllium	0.15	J	0.21	0.067	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Cadmium	0.066	J	0.26	0.026	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Chromium	55		1.0	0.11	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Cobalt	6.6		0.41	0.041	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Copper	8.8		3.1	1.5	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Lead	5.5		1.0	0.22	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Molybdenum	0.76	J	1.0	0.13	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Nickel	44		1.0	0.11	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Selenium	0.64	J	2.1	0.31	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Silver	ND		0.52	0.10	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Thallium	ND		1.0	0.30	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Vanadium	36		1.0	0.14	mg/Kg		12/26/18 10:26	12/27/18 19:15	4
Zinc	25		3.1	1.3	mg/Kg		12/26/18 10:26	12/27/18 19:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	B	0.016	0.0023	mg/Kg		01/03/19 10:40	01/03/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-AB4S-9-9.5

Date Collected: 12/18/18 13:25
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1		1.1	0.19	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Arsenic	13		2.3	0.19	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Barium	47	B	1.1	0.16	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Beryllium	0.47		0.23	0.074	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Cadmium	0.076	J	0.28	0.028	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Chromium	37		1.1	0.12	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Cobalt	12		0.45	0.045	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Copper	37		3.4	1.6	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Lead	13		1.1	0.24	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Molybdenum	0.98	J	1.1	0.15	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Nickel	30		1.1	0.12	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Selenium	0.44	J	2.3	0.34	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Silver	0.37	J	0.57	0.11	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Thallium	ND		1.1	0.33	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Vanadium	51		1.1	0.15	mg/Kg		12/26/18 10:26	12/27/18 19:20	4
Zinc	69		3.4	1.4	mg/Kg		12/26/18 10:26	12/27/18 19:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	B	0.016	0.0023	mg/Kg		01/03/19 10:40	01/03/19 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-AA4S-0.5-1

Date Collected: 12/18/18 13:45
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.97	J	1.4	0.23	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Arsenic	77		2.7	0.23	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Barium	83	B	1.4	0.19	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Beryllium	0.13	J	0.27	0.088	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Cadmium	0.54		0.34	0.034	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Chromium	17		1.4	0.14	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Cobalt	11		0.54	0.054	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Copper	160		4.1	1.9	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Lead	100		1.4	0.29	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Molybdenum	0.64	J	1.4	0.17	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Nickel	8.3		1.4	0.14	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Selenium	1.1	J	2.7	0.41	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Silver	ND		0.68	0.14	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Thallium	ND		1.4	0.39	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Vanadium	110		1.4	0.19	mg/Kg		12/26/18 10:26	12/27/18 19:25	4
Zinc	160		4.1	1.7	mg/Kg		12/26/18 10:26	12/27/18 19:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062	B	0.016	0.0023	mg/Kg		01/03/19 10:40	01/03/19 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-AA4S-3.5-4

Date Collected: 12/18/18 13:45
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.79	J	1.6	0.27	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Arsenic	65		3.2	0.27	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Barium	31	B	1.6	0.23	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Beryllium	0.22	J	0.32	0.10	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Cadmium	0.040	J	0.40	0.040	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Chromium	54		1.6	0.17	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Cobalt	5.5		0.65	0.065	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Copper	11		4.8	2.3	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Lead	5.2		1.6	0.34	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Molybdenum	ND		1.6	0.21	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Nickel	44		1.6	0.16	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Selenium	ND		3.2	0.48	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Silver	ND		0.81	0.16	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Thallium	ND		1.6	0.47	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Vanadium	29		1.6	0.22	mg/Kg		12/26/18 10:26	12/27/18 19:39	4
Zinc	22		4.8	2.0	mg/Kg		12/26/18 10:26	12/27/18 19:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041	B	0.014	0.0021	mg/Kg		01/03/19 10:40	01/03/19 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.3		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-Z4S-0.5-1

Date Collected: 12/18/18 13:55
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	34		1.3	0.21	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Arsenic	840		2.6	0.22	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Barium	100	B	1.3	0.18	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Beryllium	0.12	J	0.26	0.083	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Cadmium	1.8		0.32	0.032	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Chromium	18		1.3	0.14	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Cobalt	10		0.51	0.051	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Copper	200		3.8	1.8	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Lead	2100		1.3	0.27	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Molybdenum	0.86	J	1.3	0.16	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Nickel	16		1.3	0.13	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Selenium	1.3	J	2.6	0.38	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Silver	0.62	J	0.64	0.13	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Thallium	ND		1.3	0.37	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Vanadium	64		1.3	0.17	mg/Kg		12/26/18 10:26	12/27/18 19:44	4
Zinc	260		3.8	1.6	mg/Kg		12/26/18 10:26	12/27/18 19:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1	B	0.015	0.0021	mg/Kg		01/03/19 10:40	01/03/19 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-Z4S-3.5-4

Date Collected: 12/18/18 13:55
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.87	J	1.5	0.24	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Arsenic	72		2.9	0.25	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Barium	80	B	1.5	0.21	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Beryllium	0.40		0.29	0.095	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Cadmium	0.081	J	0.36	0.036	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Chromium	44		1.5	0.15	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Cobalt	9.0		0.58	0.058	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Copper	21		4.4	2.1	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Lead	13		1.5	0.31	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Molybdenum	0.42	J	1.5	0.19	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Nickel	75		1.5	0.15	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Selenium	0.44	J	2.9	0.44	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Silver	ND		0.73	0.15	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Thallium	ND		1.5	0.42	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Vanadium	25		1.5	0.20	mg/Kg		12/26/18 10:26	12/27/18 19:48	4
Zinc	38		4.4	1.9	mg/Kg		12/26/18 10:26	12/27/18 19:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088	B	0.014	0.0021	mg/Kg		01/03/19 10:40	01/03/19 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-Y4S-0.5-1

Date Collected: 12/18/18 14:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.1		1.7	0.27	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Arsenic	94		3.3	0.28	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Barium	200	B	1.7	0.23	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Beryllium	ND		0.33	0.11	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Cadmium	1.0		0.41	0.041	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Chromium	49		1.7	0.18	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Cobalt	10		0.66	0.066	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Copper	1300		5.0	2.4	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Lead	360		1.7	0.35	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Molybdenum	1.3	J	1.7	0.21	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Nickel	63		1.7	0.17	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Selenium	1.4	J	3.3	0.50	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Silver	0.41	J	0.83	0.17	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Thallium	ND		1.7	0.48	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Vanadium	41		1.7	0.22	mg/Kg		12/26/18 10:26	12/27/18 19:53	4
Zinc	370		5.0	2.1	mg/Kg		12/26/18 10:26	12/27/18 19:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26	B	0.015	0.0022	mg/Kg		01/03/19 10:40	01/03/19 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-Y4S-3.5-4

Date Collected: 12/18/18 14:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.80	J	1.2	0.19	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Arsenic	36		2.3	0.20	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Barium	90	B	1.2	0.16	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Beryllium	0.28		0.23	0.075	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Cadmium	0.077	J	0.29	0.029	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Chromium	47		1.2	0.12	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Cobalt	9.5		0.46	0.046	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Copper	24		3.5	1.6	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Lead	20		1.2	0.24	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Molybdenum	0.45	J	1.2	0.15	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Nickel	60		1.2	0.12	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Selenium	0.72	J	2.3	0.35	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Silver	0.21	J	0.58	0.12	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Thallium	ND		1.2	0.34	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Vanadium	26		1.2	0.16	mg/Kg		12/26/18 10:26	12/27/18 19:58	4
Zinc	42		3.5	1.5	mg/Kg		12/26/18 10:26	12/27/18 19:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	B	0.016	0.0023	mg/Kg		01/03/19 10:40	01/03/19 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DUP-21
Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-37
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.80	J	1.9	0.31	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Arsenic	130		3.7	0.31	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Barium	190	B	1.9	0.26	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Beryllium	0.78		0.37	0.12	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Cadmium	ND		0.46	0.046	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Chromium	74		1.9	0.20	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Cobalt	13		0.74	0.074	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Copper	28		5.6	2.6	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Lead	58		1.9	0.39	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Molybdenum	0.70	J	1.9	0.24	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Nickel	67		1.9	0.19	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Selenium	0.71	J	3.7	0.56	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Silver	ND		0.93	0.19	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Thallium	ND		1.9	0.54	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Vanadium	56		1.9	0.25	mg/Kg		12/26/18 10:26	12/27/18 20:03	4
Zinc	61		5.6	2.4	mg/Kg		12/26/18 10:26	12/27/18 20:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047	B	0.015	0.0022	mg/Kg		12/19/18 12:26	01/03/19 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.5		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-X4S-0.5-1

Date Collected: 12/18/18 14:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-38

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.6	0.27	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Arsenic	54		3.2	0.27	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Barium	36		1.6	0.23	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Beryllium	ND		0.32	0.10	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Cadmium	ND		0.40	0.040	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Chromium	5.9		1.6	0.17	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Cobalt	7.8		0.64	0.064	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Copper	74		4.8	2.3	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Lead	40		1.6	0.34	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Nickel	4.6		1.6	0.16	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Selenium	0.65	J B	3.2	0.48	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Silver	ND		0.80	0.16	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Thallium	ND		1.6	0.46	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Vanadium	58		1.6	0.22	mg/Kg		12/26/18 15:14	12/28/18 12:56	4
Zinc	54		4.8	2.0	mg/Kg		12/26/18 15:14	12/28/18 12:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	B	0.014	0.0021	mg/Kg		12/19/18 12:26	01/03/19 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.6		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-X4S-3.5-4

Date Collected: 12/18/18 14:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-39

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.7	0.27	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Arsenic	29		3.3	0.28	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Barium	37		1.7	0.23	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Beryllium	0.16	J	0.33	0.11	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Cadmium	ND		0.41	0.041	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Chromium	50		1.7	0.18	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Cobalt	5.2		0.66	0.066	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Copper	7.3		5.0	2.4	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Lead	1.5	J	1.7	0.35	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Molybdenum	ND		1.7	0.21	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Nickel	38		1.7	0.17	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Selenium	ND		3.3	0.50	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Silver	ND		0.83	0.17	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Thallium	ND		1.7	0.48	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Vanadium	35		1.7	0.22	mg/Kg		12/26/18 15:14	12/28/18 13:00	4
Zinc	17		5.0	2.1	mg/Kg		12/26/18 15:14	12/28/18 13:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J B	0.015	0.0023	mg/Kg		12/19/18 12:26	01/03/19 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.2		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-W4S-0.5-1

Date Collected: 12/18/18 14:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-40

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.18	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Arsenic	34		2.2	0.19	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Barium	32		1.1	0.16	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Beryllium	ND		0.22	0.071	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Cadmium	ND		0.27	0.027	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Chromium	7.1		1.1	0.12	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Cobalt	7.1		0.44	0.044	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Copper	65		3.3	1.6	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Lead	3.9		1.1	0.23	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Molybdenum	ND		1.1	0.14	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Nickel	6.7		1.1	0.11	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Selenium	ND		2.2	0.33	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Silver	ND		0.55	0.11	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Thallium	ND		1.1	0.32	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Vanadium	49		1.1	0.15	mg/Kg		12/26/18 15:14	12/28/18 13:05	4
Zinc	28		3.3	1.4	mg/Kg		12/26/18 15:14	12/28/18 13:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059	B	0.016	0.0023	mg/Kg		12/19/18 12:26	01/03/19 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-W4S-3.5-4

Date Collected: 12/18/18 14:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-41

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.7	0.28	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Arsenic	37		3.4	0.29	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Barium	23		1.7	0.24	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Beryllium	0.13	J	0.34	0.11	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Cadmium	0.21	J	0.43	0.042	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Chromium	33		1.7	0.18	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Cobalt	3.7		0.68	0.068	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Copper	33		5.1	2.4	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Lead	14		1.7	0.36	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Molybdenum	ND		1.7	0.22	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Nickel	22		1.7	0.17	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Selenium	1.0	J B	3.4	0.51	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Silver	ND		0.85	0.17	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Thallium	ND		1.7	0.50	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Vanadium	26		1.7	0.23	mg/Kg		12/26/18 15:14	12/28/18 13:19	4
Zinc	77		5.1	2.2	mg/Kg		12/26/18 15:14	12/28/18 13:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	B	0.015	0.0023	mg/Kg		12/19/18 12:26	01/03/19 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.3		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-V4S-0.5-1

Date Collected: 12/18/18 14:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-42

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.5	0.25	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Arsenic	69		3.1	0.26	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Barium	53		1.5	0.22	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Beryllium	ND		0.31	0.099	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Cadmium	ND		0.38	0.038	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Chromium	14		1.5	0.16	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Cobalt	8.6		0.61	0.061	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Copper	87		4.6	2.2	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Lead	40		1.5	0.32	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Molybdenum	0.23	J	1.5	0.20	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Nickel	23		1.5	0.16	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Selenium	0.97	J B	3.1	0.46	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Silver	ND		0.76	0.15	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Thallium	ND		1.5	0.44	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Vanadium	55		1.5	0.21	mg/Kg		12/26/18 15:14	12/28/18 13:23	4
Zinc	54		4.6	1.9	mg/Kg		12/26/18 15:14	12/28/18 13:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14	B	0.014	0.0021	mg/Kg		12/19/18 12:26	01/03/19 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-V4S-3.5-4

Date Collected: 12/18/18 14:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-43

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	1.9	0.31	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Arsenic	130		3.8	0.32	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Barium	150		1.9	0.27	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Beryllium	0.24	J	0.38	0.12	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Cadmium	ND		0.47	0.047	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Chromium	43		1.9	0.20	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Cobalt	10		0.75	0.075	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Copper	28		5.7	2.7	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Lead	22		1.9	0.40	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Molybdenum	0.26	J	1.9	0.24	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Nickel	96		1.9	0.19	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Selenium	ND		3.8	0.57	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Silver	ND		0.94	0.19	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Thallium	ND		1.9	0.55	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Vanadium	31		1.9	0.26	mg/Kg		12/26/18 15:14	12/28/18 13:28	4
Zinc	64		5.7	2.4	mg/Kg		12/26/18 15:14	12/28/18 13:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.085	B	0.014	0.0021	mg/Kg		12/19/18 12:26	01/03/19 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.3		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-U4S-0.5-1

Date Collected: 12/18/18 15:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-44

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2		1.5	0.25	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Arsenic	37		3.0	0.26	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Barium	180		1.5	0.21	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Beryllium	ND		0.30	0.098	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Cadmium	2.7		0.38	0.037	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Chromium	37		1.5	0.16	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Cobalt	11		0.60	0.060	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Copper	170		4.5	2.1	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Lead	320		1.5	0.32	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Molybdenum	4.0		1.5	0.19	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Nickel	130		1.5	0.15	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Selenium	0.83	J B	3.0	0.45	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Silver	0.45	J	0.75	0.15	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Thallium	ND		1.5	0.44	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Vanadium	75		1.5	0.20	mg/Kg		12/26/18 15:14	12/28/18 13:32	4
Zinc	510		4.5	1.9	mg/Kg		12/26/18 15:14	12/28/18 13:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.40	B	0.017	0.0025	mg/Kg		12/19/18 12:26	01/03/19 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-U4S-3.5-4

Date Collected: 12/18/18 15:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-45

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1 F2	2.0	0.33	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Arsenic	**35**	**F1**	3.9	0.33	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Barium	**36**		2.0	0.28	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Beryllium	**0.14**	**J**	0.39	0.13	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Cadmium	**0.066**	**J**	0.49	0.049	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Chromium	**12**		2.0	0.21	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Cobalt	**9.2**	**F1**	0.78	0.078	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Copper	**47**	**F1**	5.9	2.8	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Lead	**5.0**		2.0	0.41	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Molybdenum	**0.39**	**J**	2.0	0.25	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Nickel	**11**		2.0	0.20	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Selenium	**0.85**	**J B**	3.9	0.59	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Silver	ND		0.98	0.20	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Thallium	ND		2.0	0.57	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Vanadium	**54**		2.0	0.27	mg/Kg		12/26/18 15:14	12/28/18 12:51	4
Zinc	**38**	**F1**	5.9	2.5	mg/Kg		12/26/18 15:14	12/28/18 12:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**	**B**	0.016	0.0024	mg/Kg		12/19/18 12:26	01/03/19 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.8**		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DUP-20

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-46

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0		1.9	0.32	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Arsenic	120		3.9	0.33	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Barium	160		1.9	0.28	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Beryllium	ND		0.39	0.13	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Cadmium	2.8		0.49	0.048	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Chromium	43		1.9	0.21	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Cobalt	12		0.78	0.078	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Copper	280		5.8	2.8	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Lead	470		1.9	0.41	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Molybdenum	3.1		1.9	0.25	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Nickel	42		1.9	0.20	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Selenium	1.1	J B	3.9	0.58	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Silver	0.37	J	0.97	0.20	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Thallium	ND		1.9	0.56	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Vanadium	83		1.9	0.26	mg/Kg		12/26/18 15:14	12/28/18 13:37	4
Zinc	730		5.8	2.5	mg/Kg		12/26/18 15:14	12/28/18 13:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.51	B	0.015	0.0022	mg/Kg		12/19/18 12:26	01/03/19 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/20/18 11:49	1

Client Sample ID: DG-AL4S-7.5-8

Date Collected: 12/18/18 08:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-47

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.9		1.9	0.32	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Arsenic	27		3.8	0.32	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Barium	290		1.9	0.27	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Beryllium	0.56		0.38	0.12	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Cadmium	0.18	J	0.48	0.047	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Chromium	25		1.9	0.20	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Cobalt	11		0.76	0.076	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Copper	41		5.7	2.7	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Lead	260		1.9	0.40	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Molybdenum	0.28	J	1.9	0.24	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Nickel	32		1.9	0.19	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Selenium	ND		3.8	0.57	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Silver	0.67	J	0.95	0.19	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Thallium	ND		1.9	0.55	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Vanadium	28		1.9	0.26	mg/Kg		12/20/18 15:57	12/21/18 11:04	4
Zinc	160		5.7	2.4	mg/Kg		12/20/18 15:57	12/21/18 11:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.015	0.0023	mg/Kg		12/28/18 08:28	12/28/18 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.05	%			12/20/18 13:31	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257285/1-A
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Arsenic	ND		1.0	0.085	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Barium	ND		0.50	0.071	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Beryllium	ND		0.10	0.033	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Cadmium	ND		0.13	0.012	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Chromium	ND		0.50	0.053	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Cobalt	ND		0.20	0.020	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Copper	ND		1.5	0.71	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Lead	ND		0.50	0.11	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Nickel	ND		0.50	0.051	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Selenium	ND		1.0	0.15	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Silver	ND		0.25	0.051	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Thallium	ND		0.50	0.15	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Vanadium	ND		0.50	0.068	mg/Kg		12/19/18 15:20	12/27/18 12:06	1
Zinc	ND		1.5	0.64	mg/Kg		12/19/18 15:20	12/27/18 12:06	1

Lab Sample ID: LCS 720-257285/2-A
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.3		mg/Kg		97	80 - 120
Arsenic	50.0	49.9		mg/Kg		100	80 - 120
Barium	50.0	48.6		mg/Kg		97	80 - 120
Beryllium	50.0	46.4		mg/Kg		93	80 - 120
Cadmium	50.0	49.6		mg/Kg		99	80 - 120
Chromium	50.0	50.9		mg/Kg		102	80 - 120
Cobalt	50.0	50.5		mg/Kg		101	80 - 120
Copper	50.0	49.7		mg/Kg		99	80 - 120
Lead	50.0	50.2		mg/Kg		100	80 - 120
Molybdenum	50.0	50.9		mg/Kg		102	80 - 120
Nickel	50.0	49.5		mg/Kg		99	80 - 120
Selenium	50.0	48.2		mg/Kg		96	80 - 120
Silver	25.0	21.5		mg/Kg		86	80 - 120
Thallium	50.0	49.6		mg/Kg		99	80 - 120
Vanadium	50.0	50.3		mg/Kg		101	80 - 120
Zinc	50.0	49.2		mg/Kg		98	80 - 120

Lab Sample ID: 720-90413-6 MS
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: DG-AK4S-3.5-4
Prep Type: Total/NA
Prep Batch: 257285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.1	F1	43.5	15.2	F1	mg/Kg		30	75 - 125
Arsenic	160	F1	43.5	184	F1	mg/Kg		53	75 - 125
Barium	60	F1	43.5	152	F1	mg/Kg		212	75 - 125
Beryllium	0.19	J F1	43.5	52.9		mg/Kg		121	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90413-6 MS
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: DG-AK4S-3.5-4
Prep Type: Total/NA
Prep Batch: 257285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.95		43.5	51.1		mg/Kg		115	75 - 125
Chromium	18	F1	43.5	70.8		mg/Kg		122	75 - 125
Cobalt	9.9	F1	43.5	61.6		mg/Kg		119	75 - 125
Copper	850	F2	43.5	845	4	mg/Kg		-22	75 - 125
Lead	210	F2	43.5	194	4	mg/Kg		-40	75 - 125
Molybdenum	0.60	J	43.5	50.9		mg/Kg		116	75 - 125
Nickel	14	F1	43.5	62.2		mg/Kg		110	75 - 125
Selenium	1.0	J F1	43.5	50.5		mg/Kg		114	75 - 125
Silver	ND	F1	21.7	24.7		mg/Kg		114	75 - 125
Thallium	ND		43.5	48.7		mg/Kg		112	75 - 125
Vanadium	59	F1	43.5	142	F1	mg/Kg		192	75 - 125
Zinc	450	F2	43.5	391	4	mg/Kg		-128	75 - 125

Lab Sample ID: 720-90413-6 MSD
Matrix: Solid
Analysis Batch: 257864

Client Sample ID: DG-AK4S-3.5-4
Prep Type: Total/NA
Prep Batch: 257285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.1	F1	44.2	14.2	F1	mg/Kg		27	75 - 125	7	20
Arsenic	160	F1	44.2	190	F1	mg/Kg		65	75 - 125	3	20
Barium	60	F1	44.2	167	F1	mg/Kg		241	75 - 125	9	20
Beryllium	0.19	J F1	44.2	61.5	F1	mg/Kg		139	75 - 125	15	20
Cadmium	0.95		44.2	56.1		mg/Kg		125	75 - 125	9	20
Chromium	18	F1	44.2	81.3	F1	mg/Kg		144	75 - 125	14	20
Cobalt	9.9	F1	44.2	67.5	F1	mg/Kg		130	75 - 125	9	20
Copper	850	F2	44.2	8010	4 F2	mg/Kg		16169	75 - 125	162	20
Lead	210	F2	44.2	277	4 F2	mg/Kg		148	75 - 125	35	20
Molybdenum	0.60	J	44.2	55.7		mg/Kg		125	75 - 125	9	20
Nickel	14	F1	44.2	71.9	F1	mg/Kg		130	75 - 125	14	20
Selenium	1.0	J F1	44.2	58.8	F1	mg/Kg		131	75 - 125	15	20
Silver	ND	F1	22.1	28.2	F1	mg/Kg		127	75 - 125	13	20
Thallium	ND		44.2	52.9		mg/Kg		120	75 - 125	8	20
Vanadium	59	F1	44.2	156	F1	mg/Kg		219	75 - 125	9	20
Zinc	450	F2	44.2	545	4 F2	mg/Kg		222	75 - 125	33	20

Lab Sample ID: MB 720-257292/1-A
Matrix: Solid
Analysis Batch: 257727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Arsenic	ND		1.0	0.085	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Barium	0.211	J	0.50	0.071	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Beryllium	ND		0.10	0.033	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Cadmium	ND		0.13	0.012	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Chromium	ND		0.50	0.053	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Cobalt	ND		0.20	0.020	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Copper	ND		1.5	0.71	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Lead	ND		0.50	0.11	mg/Kg		12/26/18 10:26	12/27/18 17:45	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257292/1-A
Matrix: Solid
Analysis Batch: 257727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Nickel	ND		0.50	0.051	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Selenium	ND		1.0	0.15	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Silver	ND		0.25	0.051	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Thallium	ND		0.50	0.15	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Vanadium	ND		0.50	0.068	mg/Kg		12/26/18 10:26	12/27/18 17:45	1
Zinc	ND		1.5	0.64	mg/Kg		12/26/18 10:26	12/27/18 17:45	1

Lab Sample ID: LCS 720-257292/2-A
Matrix: Solid
Analysis Batch: 257727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	43.5		mg/Kg		87	80 - 120
Arsenic	50.0	44.0		mg/Kg		88	80 - 120
Barium	50.0	44.5		mg/Kg		89	80 - 120
Beryllium	50.0	44.3		mg/Kg		89	80 - 120
Cadmium	50.0	44.6		mg/Kg		89	80 - 120
Chromium	50.0	45.0		mg/Kg		90	80 - 120
Cobalt	50.0	44.8		mg/Kg		90	80 - 120
Copper	50.0	44.8		mg/Kg		90	80 - 120
Lead	50.0	45.4		mg/Kg		91	80 - 120
Molybdenum	50.0	44.9		mg/Kg		90	80 - 120
Nickel	50.0	44.6		mg/Kg		89	80 - 120
Selenium	50.0	43.3		mg/Kg		87	80 - 120
Silver	25.0	21.0		mg/Kg		84	80 - 120
Thallium	50.0	45.2		mg/Kg		90	80 - 120
Vanadium	50.0	44.9		mg/Kg		90	80 - 120
Zinc	50.0	44.5		mg/Kg		89	80 - 120

Lab Sample ID: 720-90413-14 MS
Matrix: Solid
Analysis Batch: 257727

Client Sample ID: DG-AG4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.45	J F1	38.8	10.9	F1	mg/Kg		27	75 - 125
Arsenic	1.1	J F1 F2	38.8	40.6		mg/Kg		102	75 - 125
Barium	36	B F1 F2	38.8	88.4	F1	mg/Kg		134	75 - 125
Beryllium	0.17	J F1 F2	38.8	43.4		mg/Kg		112	75 - 125
Cadmium	0.22	J F2	38.8	39.3		mg/Kg		101	75 - 125
Chromium	7.1	F1 F2	38.8	49.8		mg/Kg		110	75 - 125
Cobalt	7.3	F1 F2	38.8	46.2		mg/Kg		100	75 - 125
Copper	130	F1 F2	38.8	199	F1	mg/Kg		172	75 - 125
Lead	10	F1 F2	38.8	64.5	F1	mg/Kg		140	75 - 125
Molybdenum	0.38	J F2	38.8	38.7		mg/Kg		99	75 - 125
Nickel	2.4	F1 F2	38.8	42.0		mg/Kg		102	75 - 125
Selenium	ND	F2	38.8	39.0		mg/Kg		101	75 - 125
Silver	ND	F1 F2	19.4	20.3		mg/Kg		105	75 - 125
Thallium	ND	F2	38.8	36.9		mg/Kg		95	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90413-14 MS
Matrix: Solid
Analysis Batch: 257727

Client Sample ID: DG-AG4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	79	F1 F2	38.8	120		mg/Kg		107	75 - 125
Zinc	44	F1 F2	38.8	95.6	F1	mg/Kg		133	75 - 125

Lab Sample ID: 720-90413-14 MSD
Matrix: Solid
Analysis Batch: 257727

Client Sample ID: DG-AG4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.45	J F1	38.8	12.1	F1	mg/Kg		30	75 - 125	11	20
Arsenic	1.1	J F1 F2	38.8	51.0	F1 F2	mg/Kg		129	75 - 125	23	20
Barium	36	B F1 F2	38.8	117	F1 F2	mg/Kg		207	75 - 125	28	20
Beryllium	0.17	J F1 F2	38.8	58.9	F1 F2	mg/Kg		151	75 - 125	30	20
Cadmium	0.22	J F2	38.8	48.5	F2	mg/Kg		124	75 - 125	21	20
Chromium	7.1	F1 F2	38.8	65.0	F1 F2	mg/Kg		149	75 - 125	27	20
Cobalt	7.3	F1 F2	38.8	59.3	F1 F2	mg/Kg		134	75 - 125	25	20
Copper	130	F1 F2	38.8	265	F1 F2	mg/Kg		340	75 - 125	28	20
Lead	10	F1 F2	38.8	92.1	F1 F2	mg/Kg		211	75 - 125	35	20
Molybdenum	0.38	J F2	38.8	48.3	F2	mg/Kg		124	75 - 125	22	20
Nickel	2.4	F1 F2	38.8	52.9	F1 F2	mg/Kg		130	75 - 125	23	20
Selenium	ND	F2	38.8	48.4	F2	mg/Kg		125	75 - 125	21	20
Silver	ND	F1 F2	19.4	26.6	F1 F2	mg/Kg		137	75 - 125	27	20
Thallium	ND	F2	38.8	45.3	F2	mg/Kg		117	75 - 125	21	20
Vanadium	79	F1 F2	38.8	159	F1 F2	mg/Kg		206	75 - 125	28	20
Zinc	44	F1 F2	38.8	139	F1 F2	mg/Kg		246	75 - 125	37	20

Lab Sample ID: MB 720-257348/1-A
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Arsenic	ND		1.0	0.085	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Barium	ND		0.50	0.071	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Beryllium	ND		0.10	0.033	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Cadmium	ND		0.13	0.012	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Chromium	ND		0.50	0.053	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Cobalt	ND		0.20	0.020	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Copper	ND		1.5	0.71	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Lead	ND		0.50	0.11	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Nickel	ND		0.50	0.051	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Selenium	0.299	J	1.0	0.15	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Silver	ND		0.25	0.051	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Thallium	ND		0.50	0.15	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Vanadium	ND		0.50	0.068	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Zinc	ND		1.5	0.64	mg/Kg		12/26/18 15:14	12/28/18 12:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257348/2-A
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.1		mg/Kg		90	80 - 120
Arsenic	50.0	44.9		mg/Kg		90	80 - 120
Barium	50.0	45.9		mg/Kg		92	80 - 120
Beryllium	50.0	45.8		mg/Kg		92	80 - 120
Cadmium	50.0	45.7		mg/Kg		91	80 - 120
Chromium	50.0	46.0		mg/Kg		92	80 - 120
Cobalt	50.0	46.5		mg/Kg		93	80 - 120
Copper	50.0	46.8		mg/Kg		94	80 - 120
Lead	50.0	46.0		mg/Kg		92	80 - 120
Molybdenum	50.0	45.9		mg/Kg		92	80 - 120
Nickel	50.0	46.2		mg/Kg		92	80 - 120
Selenium	50.0	44.1		mg/Kg		88	80 - 120
Silver	25.0	21.4		mg/Kg		86	80 - 120
Thallium	50.0	45.8		mg/Kg		92	80 - 120
Vanadium	50.0	45.2		mg/Kg		90	80 - 120
Zinc	50.0	45.6		mg/Kg		91	80 - 120

Lab Sample ID: 720-90413-45 MS
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: DG-U4S-3.5-4
Prep Type: Total/NA
Prep Batch: 257348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1 F2	50.0	14.5	F1	mg/Kg		29	75 - 125
Arsenic	35	F1	50.0	73.8		mg/Kg		77	75 - 125
Barium	36		50.0	79.5		mg/Kg		88	75 - 125
Beryllium	0.14	J	50.0	46.1		mg/Kg		92	75 - 125
Cadmium	0.066	J	50.0	42.0		mg/Kg		84	75 - 125
Chromium	12		50.0	56.2		mg/Kg		89	75 - 125
Cobalt	9.2	F1	50.0	50.0		mg/Kg		82	75 - 125
Copper	47	F1	50.0	94.7		mg/Kg		96	75 - 125
Lead	5.0		50.0	45.8		mg/Kg		82	75 - 125
Molybdenum	0.39	J	50.0	40.3		mg/Kg		80	75 - 125
Nickel	11		50.0	54.1		mg/Kg		86	75 - 125
Selenium	0.85	J B	50.0	41.3		mg/Kg		81	75 - 125
Silver	ND		25.0	21.1		mg/Kg		84	75 - 125
Thallium	ND		50.0	41.3		mg/Kg		83	75 - 125
Vanadium	54		50.0	95.4		mg/Kg		82	75 - 125
Zinc	38	F1	50.0	81.8		mg/Kg		87	75 - 125

Lab Sample ID: 720-90413-45 MSD
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: DG-U4S-3.5-4
Prep Type: Total/NA
Prep Batch: 257348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1 F2	49.5	11.4	F1 F2	mg/Kg		23	75 - 125	24	20
Arsenic	35	F1	49.5	67.4	F1	mg/Kg		65	75 - 125	9	20
Barium	36		49.5	77.0		mg/Kg		84	75 - 125	3	20
Beryllium	0.14	J	49.5	46.4		mg/Kg		93	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90413-45 MSD
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: DG-U4S-3.5-4
Prep Type: Total/NA
Prep Batch: 257348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.066	J	49.5	39.5		mg/Kg		80	75 - 125	6	20
Chromium	12		49.5	52.3		mg/Kg		81	75 - 125	7	20
Cobalt	9.2	F1	49.5	46.1	F1	mg/Kg		74	75 - 125	8	20
Copper	47	F1	49.5	81.6	F1	mg/Kg		70	75 - 125	15	20
Lead	5.0		49.5	44.0		mg/Kg		79	75 - 125	4	20
Molybdenum	0.39	J	49.5	37.8		mg/Kg		76	75 - 125	7	20
Nickel	11		49.5	48.5		mg/Kg		75	75 - 125	11	20
Selenium	0.85	J B	49.5	40.1		mg/Kg		79	75 - 125	3	20
Silver	ND		24.8	20.4		mg/Kg		82	75 - 125	3	20
Thallium	ND		49.5	39.3		mg/Kg		79	75 - 125	5	20
Vanadium	54		49.5	92.8		mg/Kg		78	75 - 125	3	20
Zinc	38	F1	49.5	68.7	F1	mg/Kg		61	75 - 125	17	20

Lab Sample ID: MB 720-257366/1-A
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Arsenic	ND		1.0	0.085	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Barium	ND		0.50	0.071	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Beryllium	ND		0.10	0.033	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Cadmium	ND		0.13	0.012	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Chromium	ND		0.50	0.053	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Cobalt	ND		0.20	0.020	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Copper	ND		1.5	0.71	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Lead	ND		0.50	0.11	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Nickel	ND		0.50	0.051	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Selenium	ND		1.0	0.15	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Silver	ND		0.25	0.051	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Thallium	ND		0.50	0.15	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Vanadium	ND		0.50	0.068	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Zinc	ND		1.5	0.64	mg/Kg		12/20/18 15:57	12/21/18 10:00	1

Lab Sample ID: LCS 720-257366/2-A
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.2		mg/Kg		96	80 - 120
Arsenic	50.0	48.2		mg/Kg		96	80 - 120
Barium	50.0	48.9		mg/Kg		98	80 - 120
Beryllium	50.0	49.5		mg/Kg		99	80 - 120
Cadmium	50.0	48.5		mg/Kg		97	80 - 120
Chromium	50.0	49.0		mg/Kg		98	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	50.0	49.0		mg/Kg		98	80 - 120
Lead	50.0	49.0		mg/Kg		98	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257366/2-A
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	49.0		mg/Kg		98	80 - 120
Selenium	50.0	47.1		mg/Kg		94	80 - 120
Silver	25.0	23.1		mg/Kg		92	80 - 120
Thallium	50.0	48.8		mg/Kg		98	80 - 120
Vanadium	50.0	48.5		mg/Kg		97	80 - 120
Zinc	50.0	48.2		mg/Kg		96	80 - 120

Lab Sample ID: 720-90414-A-8-D MS
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.5	F1	45.9	20.0	F1	mg/Kg		36	75 - 125
Arsenic	400		45.9	420	4	mg/Kg		38	75 - 125
Barium	240		45.9	408	4	mg/Kg		369	75 - 125
Beryllium	0.26	J	45.9	48.5		mg/Kg		105	75 - 125
Cadmium	2.4		45.9	50.3		mg/Kg		105	75 - 125
Chromium	56		45.9	108		mg/Kg		113	75 - 125
Cobalt	7.7		45.9	53.2		mg/Kg		99	75 - 125
Copper	45	F1	45.9	117	F1	mg/Kg		155	75 - 125
Lead	7200	F2	45.9	2020	4	mg/Kg		-11327	75 - 125
Molybdenum	ND		45.9	44.8		mg/Kg		98	75 - 125
Nickel	24		45.9	72.8		mg/Kg		106	75 - 125
Selenium	ND		45.9	45.5		mg/Kg		99	75 - 125
Silver	0.46	J	22.9	24.5		mg/Kg		105	75 - 125
Thallium	ND		45.9	45.7		mg/Kg		100	75 - 125
Vanadium	36	F1	45.9	86.6		mg/Kg		111	75 - 125
Zinc	780		45.9	1180	4	mg/Kg		889	75 - 125

Lab Sample ID: 720-90414-A-8-E MSD
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.5	F1	45.9	20.0	F1	mg/Kg		36	75 - 125	0	20
Arsenic	400		45.9	382	4	mg/Kg		-47	75 - 125	10	20
Barium	240		45.9	429	4	mg/Kg		415	75 - 125	5	20
Beryllium	0.26	J	45.9	50.9		mg/Kg		110	75 - 125	5	20
Cadmium	2.4		45.9	52.6		mg/Kg		109	75 - 125	4	20
Chromium	56		45.9	113		mg/Kg		125	75 - 125	5	20
Cobalt	7.7		45.9	56.5		mg/Kg		106	75 - 125	6	20
Copper	45	F1	45.9	110	F1	mg/Kg		141	75 - 125	6	20
Lead	7200	F2	45.9	1230	4 F2	mg/Kg		-13050	75 - 125	49	20
Molybdenum	ND		45.9	47.1		mg/Kg		103	75 - 125	5	20
Nickel	24		45.9	77.2		mg/Kg		116	75 - 125	6	20
Selenium	ND		45.9	48.0		mg/Kg		105	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90414-A-8-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257457 — **Prep Batch: 257366**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.46	J	22.9	25.8		mg/Kg		110	75 - 125	5	20
Thallium	ND		45.9	48.1		mg/Kg		105	75 - 125	5	20
Vanadium	36	F1	45.9	93.5	F1	mg/Kg		126	75 - 125	8	20
Zinc	780		45.9	1110	4	mg/Kg		736	75 - 125	6	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257253/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257903 — **Prep Batch: 257253**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/19/18 11:24	01/02/19 17:20	1

Lab Sample ID: LCS 720-257253/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257903 — **Prep Batch: 257253**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.792		mg/Kg		95	80 - 120

Lab Sample ID: 720-90413-6 MS — **Client Sample ID: DG-AK4S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257903 — **Prep Batch: 257253**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091		0.806	0.840		mg/Kg		93	75 - 125

Lab Sample ID: 720-90413-6 MSD — **Client Sample ID: DG-AK4S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257903 — **Prep Batch: 257253**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.091		0.735	0.808		mg/Kg		98	75 - 125	4	20

Lab Sample ID: MB 720-257257/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257936 — **Prep Batch: 257257**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00438	J	0.017	0.0025	mg/Kg		01/03/19 10:40	01/03/19 13:57	1

Lab Sample ID: LCS 720-257257/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257936 — **Prep Batch: 257257**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.718		mg/Kg		86	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90413-14 MS
Matrix: Solid
Analysis Batch: 257936

Client Sample ID: DG-AG4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257257

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.10	B	0.725	0.713		mg/Kg		84	75 - 125

Lab Sample ID: 720-90413-14 MSD
Matrix: Solid
Analysis Batch: 257936

Client Sample ID: DG-AG4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257257

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.10	B	0.769	0.730		mg/Kg		82	75 - 125	2	20

Lab Sample ID: MB 720-257258/1-A
Matrix: Solid
Analysis Batch: 257939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00426	J	0.017	0.0025	mg/Kg		12/19/18 12:26	01/03/19 15:52	1

Lab Sample ID: LCS 720-257258/2-A
Matrix: Solid
Analysis Batch: 257939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.691		mg/Kg		83	80 - 120

Lab Sample ID: 720-90413-45 MS
Matrix: Solid
Analysis Batch: 257939

Client Sample ID: DG-U4S-3.5-4
Prep Type: Total/NA
Prep Batch: 257258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.034	B	0.794	0.661		mg/Kg		79	75 - 125

Lab Sample ID: 720-90413-45 MSD
Matrix: Solid
Analysis Batch: 257939

Client Sample ID: DG-U4S-3.5-4
Prep Type: Total/NA
Prep Batch: 257258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.034	B	0.758	0.666		mg/Kg		83	75 - 125	1	20

Lab Sample ID: MB 720-257461/1-A
Matrix: Solid
Analysis Batch: 257744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/28/18 08:28	12/28/18 12:22	1

Lab Sample ID: LCS 720-257461/2-A
Matrix: Solid
Analysis Batch: 257744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.800		mg/Kg		96	80 - 120

Lab Sample ID: 720-90476-B-3-A MS
Matrix: Solid
Analysis Batch: 257744

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.034		0.725	0.790		mg/Kg		104	75 - 125		

Lab Sample ID: 720-90476-B-3-B MSD
Matrix: Solid
Analysis Batch: 257744

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.034		0.735	0.664		mg/Kg		86	75 - 125	17	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90412-E-14 DU
Matrix: Solid
Analysis Batch: 257345

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	8.2			8.0		%				2	20

Lab Sample ID: 720-90413-14 DU
Matrix: Solid
Analysis Batch: 257347

Client Sample ID: DG-AG4S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.9			11.0		%				8	20

Lab Sample ID: 720-90413-28 DU
Matrix: Solid
Analysis Batch: 257351

Client Sample ID: DG-AB4S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.5			10.3		%				3	20

Lab Sample ID: 720-90250-A-29 DU
Matrix: Solid
Analysis Batch: 257363

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	18.0			18.2		%				1	20

Metals

Prep Batch: 257253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-1	DG-AM4S-0.5-1	Total/NA	Solid	7471A	
720-90413-2	DG-AM4S-3.5-4	Total/NA	Solid	7471A	
720-90413-3	DG-AL4S-0.5-1	Total/NA	Solid	7471A	
720-90413-4	DG-AL4S-3.5-4	Total/NA	Solid	7471A	
720-90413-5	DG-AK4S-0.5-1	Total/NA	Solid	7471A	
720-90413-6	DG-AK4S-3.5-4	Total/NA	Solid	7471A	
720-90413-7	DUP-24	Total/NA	Solid	7471A	
720-90413-8	DG-AJ4S-0.5-1	Total/NA	Solid	7471A	
720-90413-9	DG-AJ4S-3.5-4	Total/NA	Solid	7471A	
720-90413-10	DG-AI4S-0.5-1	Total/NA	Solid	7471A	
720-90413-11	DG-AI4S-3.5-4	Total/NA	Solid	7471A	
720-90413-12	DG-AH4S-0.5-1	Total/NA	Solid	7471A	
720-90413-13	DG-AH4S-3.5-4	Total/NA	Solid	7471A	
720-90413-15	DG-AG4S-3.5-4	Total/NA	Solid	7471A	
720-90413-16	DUP-23	Total/NA	Solid	7471A	
720-90413-17	DG-AH4S-6-6.5	Total/NA	Solid	7471A	
MB 720-257253/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257253/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90413-6 MS	DG-AK4S-3.5-4	Total/NA	Solid	7471A	
720-90413-6 MSD	DG-AK4S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 257257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-14	DG-AG4S-0.5-1	Total/NA	Solid	7471A	
720-90413-18	DG-AG4S-11-11.5	Total/NA	Solid	7471A	
720-90413-19	DG-AF4S-0.5-1	Total/NA	Solid	7471A	
720-90413-20	DG-AF4S-3.5-4	Total/NA	Solid	7471A	
720-90413-21	DG-AE4S-0.5-1	Total/NA	Solid	7471A	
720-90413-22	DG-AE4S-3.5-4	Total/NA	Solid	7471A	
720-90413-23	DG-AD4S-0.5-1	Total/NA	Solid	7471A	
720-90413-24	DG-AD4S-3.5-4	Total/NA	Solid	7471A	
720-90413-25	DG-AC4S-0.5-1	Total/NA	Solid	7471A	
720-90413-26	DG-AC4S-3.5-4	Total/NA	Solid	7471A	
720-90413-27	DUP-22	Total/NA	Solid	7471A	
720-90413-28	DG-AB4S-0.5-1	Total/NA	Solid	7471A	
720-90413-29	DG-AB4S-3.5-4	Total/NA	Solid	7471A	
720-90413-30	DG-AB4S-9-9.5	Total/NA	Solid	7471A	
720-90413-31	DG-AA4S-0.5-1	Total/NA	Solid	7471A	
720-90413-32	DG-AA4S-3.5-4	Total/NA	Solid	7471A	
720-90413-33	DG-Z4S-0.5-1	Total/NA	Solid	7471A	
720-90413-34	DG-Z4S-3.5-4	Total/NA	Solid	7471A	
720-90413-35	DG-Y4S-0.5-1	Total/NA	Solid	7471A	
720-90413-36	DG-Y4S-3.5-4	Total/NA	Solid	7471A	
MB 720-257257/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257257/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90413-14 MS	DG-AG4S-0.5-1	Total/NA	Solid	7471A	
720-90413-14 MSD	DG-AG4S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-37	DUP-21	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-38	DG-X4S-0.5-1	Total/NA	Solid	7471A	
720-90413-39	DG-X4S-3.5-4	Total/NA	Solid	7471A	
720-90413-40	DG-W4S-0.5-1	Total/NA	Solid	7471A	
720-90413-41	DG-W4S-3.5-4	Total/NA	Solid	7471A	
720-90413-42	DG-V4S-0.5-1	Total/NA	Solid	7471A	
720-90413-43	DG-V4S-3.5-4	Total/NA	Solid	7471A	
720-90413-44	DG-U4S-0.5-1	Total/NA	Solid	7471A	
720-90413-45	DG-U4S-3.5-4	Total/NA	Solid	7471A	
720-90413-46	DUP-20	Total/NA	Solid	7471A	
MB 720-257258/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257258/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90413-45 MS	DG-U4S-3.5-4	Total/NA	Solid	7471A	
720-90413-45 MSD	DG-U4S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 257285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-1	DG-AM4S-0.5-1	Total/NA	Solid	3050B	
720-90413-2	DG-AM4S-3.5-4	Total/NA	Solid	3050B	
720-90413-3	DG-AL4S-0.5-1	Total/NA	Solid	3050B	
720-90413-4	DG-AL4S-3.5-4	Total/NA	Solid	3050B	
720-90413-5	DG-AK4S-0.5-1	Total/NA	Solid	3050B	
720-90413-6	DG-AK4S-3.5-4	Total/NA	Solid	3050B	
720-90413-7	DUP-24	Total/NA	Solid	3050B	
720-90413-8	DG-AJ4S-0.5-1	Total/NA	Solid	3050B	
720-90413-9	DG-AJ4S-3.5-4	Total/NA	Solid	3050B	
720-90413-10	DG-AI4S-0.5-1	Total/NA	Solid	3050B	
720-90413-11	DG-AI4S-3.5-4	Total/NA	Solid	3050B	
720-90413-12	DG-AH4S-0.5-1	Total/NA	Solid	3050B	
720-90413-13	DG-AH4S-3.5-4	Total/NA	Solid	3050B	
720-90413-15	DG-AG4S-3.5-4	Total/NA	Solid	3050B	
720-90413-16	DUP-23	Total/NA	Solid	3050B	
720-90413-17	DG-AH4S-6-6.5	Total/NA	Solid	3050B	
720-90413-18	DG-AG4S-11-11.5	Total/NA	Solid	3050B	
MB 720-257285/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257285/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90413-6 MS	DG-AK4S-3.5-4	Total/NA	Solid	3050B	
720-90413-6 MSD	DG-AK4S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-14	DG-AG4S-0.5-1	Total/NA	Solid	3050B	
720-90413-19	DG-AF4S-0.5-1	Total/NA	Solid	3050B	
720-90413-20	DG-AF4S-3.5-4	Total/NA	Solid	3050B	
720-90413-21	DG-AE4S-0.5-1	Total/NA	Solid	3050B	
720-90413-22	DG-AE4S-3.5-4	Total/NA	Solid	3050B	
720-90413-23	DG-AD4S-0.5-1	Total/NA	Solid	3050B	
720-90413-24	DG-AD4S-3.5-4	Total/NA	Solid	3050B	
720-90413-25	DG-AC4S-0.5-1	Total/NA	Solid	3050B	
720-90413-26	DG-AC4S-3.5-4	Total/NA	Solid	3050B	
720-90413-27	DUP-22	Total/NA	Solid	3050B	
720-90413-28	DG-AB4S-0.5-1	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-29	DG-AB4S-3.5-4	Total/NA	Solid	3050B	
720-90413-30	DG-AB4S-9-9.5	Total/NA	Solid	3050B	
720-90413-31	DG-AA4S-0.5-1	Total/NA	Solid	3050B	
720-90413-32	DG-AA4S-3.5-4	Total/NA	Solid	3050B	
720-90413-33	DG-Z4S-0.5-1	Total/NA	Solid	3050B	
720-90413-34	DG-Z4S-3.5-4	Total/NA	Solid	3050B	
720-90413-35	DG-Y4S-0.5-1	Total/NA	Solid	3050B	
720-90413-36	DG-Y4S-3.5-4	Total/NA	Solid	3050B	
720-90413-37	DUP-21	Total/NA	Solid	3050B	
MB 720-257292/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257292/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90413-14 MS	DG-AG4S-0.5-1	Total/NA	Solid	3050B	
720-90413-14 MSD	DG-AG4S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 257348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-38	DG-X4S-0.5-1	Total/NA	Solid	3050B	
720-90413-39	DG-X4S-3.5-4	Total/NA	Solid	3050B	
720-90413-40	DG-W4S-0.5-1	Total/NA	Solid	3050B	
720-90413-41	DG-W4S-3.5-4	Total/NA	Solid	3050B	
720-90413-42	DG-V4S-0.5-1	Total/NA	Solid	3050B	
720-90413-43	DG-V4S-3.5-4	Total/NA	Solid	3050B	
720-90413-44	DG-U4S-0.5-1	Total/NA	Solid	3050B	
720-90413-45	DG-U4S-3.5-4	Total/NA	Solid	3050B	
720-90413-46	DUP-20	Total/NA	Solid	3050B	
MB 720-257348/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257348/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90413-45 MS	DG-U4S-3.5-4	Total/NA	Solid	3050B	
720-90413-45 MSD	DG-U4S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-47	DG-AL4S-7.5-8	Total/NA	Solid	3050B	
MB 720-257366/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257366/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90414-A-8-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-90414-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 257457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-47	DG-AL4S-7.5-8	Total/NA	Solid	6010B	257366
MB 720-257366/1-A	Method Blank	Total/NA	Solid	6010B	257366
LCS 720-257366/2-A	Lab Control Sample	Total/NA	Solid	6010B	257366
720-90414-A-8-D MS	Matrix Spike	Total/NA	Solid	6010B	257366
720-90414-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257366

Prep Batch: 257461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-47	DG-AL4S-7.5-8	Total/NA	Solid	7471A	
MB 720-257461/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257461/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257461 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90476-B-3-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90476-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 257722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-12	DG-AH4S-0.5-1	Total/NA	Solid	6010B	257285
720-90413-13	DG-AH4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-15	DG-AG4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-16	DUP-23	Total/NA	Solid	6010B	257285
720-90413-17	DG-AH4S-6-6.5	Total/NA	Solid	6010B	257285
720-90413-18	DG-AG4S-11-11.5	Total/NA	Solid	6010B	257285

Analysis Batch: 257727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-14	DG-AG4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-19	DG-AF4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-20	DG-AF4S-3.5-4	Total/NA	Solid	6010B	257292
720-90413-21	DG-AE4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-22	DG-AE4S-3.5-4	Total/NA	Solid	6010B	257292
720-90413-23	DG-AD4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-24	DG-AD4S-3.5-4	Total/NA	Solid	6010B	257292
720-90413-25	DG-AC4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-26	DG-AC4S-3.5-4	Total/NA	Solid	6010B	257292
720-90413-27	DUP-22	Total/NA	Solid	6010B	257292
720-90413-28	DG-AB4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-29	DG-AB4S-3.5-4	Total/NA	Solid	6010B	257292
720-90413-30	DG-AB4S-9-9.5	Total/NA	Solid	6010B	257292
720-90413-31	DG-AA4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-32	DG-AA4S-3.5-4	Total/NA	Solid	6010B	257292
720-90413-33	DG-Z4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-34	DG-Z4S-3.5-4	Total/NA	Solid	6010B	257292
720-90413-35	DG-Y4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-36	DG-Y4S-3.5-4	Total/NA	Solid	6010B	257292
720-90413-37	DUP-21	Total/NA	Solid	6010B	257292
MB 720-257292/1-A	Method Blank	Total/NA	Solid	6010B	257292
LCS 720-257292/2-A	Lab Control Sample	Total/NA	Solid	6010B	257292
720-90413-14 MS	DG-AG4S-0.5-1	Total/NA	Solid	6010B	257292
720-90413-14 MSD	DG-AG4S-0.5-1	Total/NA	Solid	6010B	257292

Analysis Batch: 257744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-47	DG-AL4S-7.5-8	Total/NA	Solid	7471A	257461
MB 720-257461/1-A	Method Blank	Total/NA	Solid	7471A	257461
LCS 720-257461/2-A	Lab Control Sample	Total/NA	Solid	7471A	257461
720-90476-B-3-A MS	Matrix Spike	Total/NA	Solid	7471A	257461
720-90476-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257461

Analysis Batch: 257759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-38	DG-X4S-0.5-1	Total/NA	Solid	6010B	257348
720-90413-39	DG-X4S-3.5-4	Total/NA	Solid	6010B	257348

Metals (Continued)

Analysis Batch: 257759 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-40	DG-W4S-0.5-1	Total/NA	Solid	6010B	257348
720-90413-41	DG-W4S-3.5-4	Total/NA	Solid	6010B	257348
720-90413-42	DG-V4S-0.5-1	Total/NA	Solid	6010B	257348
720-90413-43	DG-V4S-3.5-4	Total/NA	Solid	6010B	257348
720-90413-44	DG-U4S-0.5-1	Total/NA	Solid	6010B	257348
720-90413-45	DG-U4S-3.5-4	Total/NA	Solid	6010B	257348
720-90413-46	DUP-20	Total/NA	Solid	6010B	257348
MB 720-257348/1-A	Method Blank	Total/NA	Solid	6010B	257348
LCS 720-257348/2-A	Lab Control Sample	Total/NA	Solid	6010B	257348
720-90413-45 MS	DG-U4S-3.5-4	Total/NA	Solid	6010B	257348
720-90413-45 MSD	DG-U4S-3.5-4	Total/NA	Solid	6010B	257348

Analysis Batch: 257864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-1	DG-AM4S-0.5-1	Total/NA	Solid	6010B	257285
720-90413-2	DG-AM4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-3	DG-AL4S-0.5-1	Total/NA	Solid	6010B	257285
720-90413-4	DG-AL4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-5	DG-AK4S-0.5-1	Total/NA	Solid	6010B	257285
720-90413-6	DG-AK4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-7	DUP-24	Total/NA	Solid	6010B	257285
720-90413-8	DG-AJ4S-0.5-1	Total/NA	Solid	6010B	257285
720-90413-9	DG-AJ4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-10	DG-AI4S-0.5-1	Total/NA	Solid	6010B	257285
720-90413-11	DG-AI4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-12	DG-AH4S-0.5-1	Total/NA	Solid	6010B	257285
720-90413-13	DG-AH4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-15	DG-AG4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-16	DUP-23	Total/NA	Solid	6010B	257285
720-90413-17	DG-AH4S-6-6.5	Total/NA	Solid	6010B	257285
720-90413-18	DG-AG4S-11-11.5	Total/NA	Solid	6010B	257285
MB 720-257285/1-A	Method Blank	Total/NA	Solid	6010B	257285
LCS 720-257285/2-A	Lab Control Sample	Total/NA	Solid	6010B	257285
720-90413-6 MS	DG-AK4S-3.5-4	Total/NA	Solid	6010B	257285
720-90413-6 MSD	DG-AK4S-3.5-4	Total/NA	Solid	6010B	257285

Analysis Batch: 257903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-1	DG-AM4S-0.5-1	Total/NA	Solid	7471A	257253
720-90413-2	DG-AM4S-3.5-4	Total/NA	Solid	7471A	257253
720-90413-3	DG-AL4S-0.5-1	Total/NA	Solid	7471A	257253
720-90413-4	DG-AL4S-3.5-4	Total/NA	Solid	7471A	257253
720-90413-5	DG-AK4S-0.5-1	Total/NA	Solid	7471A	257253
720-90413-6	DG-AK4S-3.5-4	Total/NA	Solid	7471A	257253
720-90413-7	DUP-24	Total/NA	Solid	7471A	257253
720-90413-8	DG-AJ4S-0.5-1	Total/NA	Solid	7471A	257253
720-90413-9	DG-AJ4S-3.5-4	Total/NA	Solid	7471A	257253
720-90413-10	DG-AI4S-0.5-1	Total/NA	Solid	7471A	257253
720-90413-11	DG-AI4S-3.5-4	Total/NA	Solid	7471A	257253
720-90413-12	DG-AH4S-0.5-1	Total/NA	Solid	7471A	257253
720-90413-13	DG-AH4S-3.5-4	Total/NA	Solid	7471A	257253

Metals (Continued)

Analysis Batch: 257903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-15	DG-AG4S-3.5-4	Total/NA	Solid	7471A	257253
720-90413-16	DUP-23	Total/NA	Solid	7471A	257253
720-90413-17	DG-AH4S-6-6.5	Total/NA	Solid	7471A	257253
MB 720-257253/1-A	Method Blank	Total/NA	Solid	7471A	257253
LCS 720-257253/2-A	Lab Control Sample	Total/NA	Solid	7471A	257253
720-90413-6 MS	DG-AK4S-3.5-4	Total/NA	Solid	7471A	257253
720-90413-6 MSD	DG-AK4S-3.5-4	Total/NA	Solid	7471A	257253

Analysis Batch: 257936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-14	DG-AG4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-18	DG-AG4S-11-11.5	Total/NA	Solid	7471A	257257
720-90413-19	DG-AF4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-20	DG-AF4S-3.5-4	Total/NA	Solid	7471A	257257
720-90413-21	DG-AE4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-22	DG-AE4S-3.5-4	Total/NA	Solid	7471A	257257
720-90413-23	DG-AD4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-24	DG-AD4S-3.5-4	Total/NA	Solid	7471A	257257
720-90413-25	DG-AC4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-26	DG-AC4S-3.5-4	Total/NA	Solid	7471A	257257
720-90413-27	DUP-22	Total/NA	Solid	7471A	257257
720-90413-28	DG-AB4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-29	DG-AB4S-3.5-4	Total/NA	Solid	7471A	257257
720-90413-30	DG-AB4S-9-9.5	Total/NA	Solid	7471A	257257
720-90413-31	DG-AA4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-32	DG-AA4S-3.5-4	Total/NA	Solid	7471A	257257
720-90413-33	DG-Z4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-34	DG-Z4S-3.5-4	Total/NA	Solid	7471A	257257
720-90413-35	DG-Y4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-36	DG-Y4S-3.5-4	Total/NA	Solid	7471A	257257
MB 720-257257/1-A	Method Blank	Total/NA	Solid	7471A	257257
LCS 720-257257/2-A	Lab Control Sample	Total/NA	Solid	7471A	257257
720-90413-14 MS	DG-AG4S-0.5-1	Total/NA	Solid	7471A	257257
720-90413-14 MSD	DG-AG4S-0.5-1	Total/NA	Solid	7471A	257257

Analysis Batch: 257939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-37	DUP-21	Total/NA	Solid	7471A	257258
720-90413-38	DG-X4S-0.5-1	Total/NA	Solid	7471A	257258
720-90413-39	DG-X4S-3.5-4	Total/NA	Solid	7471A	257258
720-90413-40	DG-W4S-0.5-1	Total/NA	Solid	7471A	257258
720-90413-41	DG-W4S-3.5-4	Total/NA	Solid	7471A	257258
720-90413-42	DG-V4S-0.5-1	Total/NA	Solid	7471A	257258
720-90413-43	DG-V4S-3.5-4	Total/NA	Solid	7471A	257258
720-90413-44	DG-U4S-0.5-1	Total/NA	Solid	7471A	257258
720-90413-45	DG-U4S-3.5-4	Total/NA	Solid	7471A	257258
720-90413-46	DUP-20	Total/NA	Solid	7471A	257258
MB 720-257258/1-A	Method Blank	Total/NA	Solid	7471A	257258
LCS 720-257258/2-A	Lab Control Sample	Total/NA	Solid	7471A	257258
720-90413-45 MS	DG-U4S-3.5-4	Total/NA	Solid	7471A	257258
720-90413-45 MSD	DG-U4S-3.5-4	Total/NA	Solid	7471A	257258

General Chemistry

Analysis Batch: 257345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-1	DG-AM4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-2	DG-AM4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-3	DG-AL4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-4	DG-AL4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-5	DG-AK4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-6	DG-AK4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-7	DUP-24	Total/NA	Solid	Moisture	
720-90413-8	DG-AJ4S-0.5-1	Total/NA	Solid	Moisture	
720-90412-E-14 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-9	DG-AJ4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-10	DG-AI4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-11	DG-AI4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-12	DG-AH4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-13	DG-AH4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-14	DG-AG4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-15	DG-AG4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-16	DUP-23	Total/NA	Solid	Moisture	
720-90413-17	DG-AH4S-6-6.5	Total/NA	Solid	Moisture	
720-90413-18	DG-AG4S-11-11.5	Total/NA	Solid	Moisture	
720-90413-19	DG-AF4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-20	DG-AF4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-21	DG-AE4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-22	DG-AE4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-23	DG-AD4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-24	DG-AD4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-25	DG-AC4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-26	DG-AC4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-27	DUP-22	Total/NA	Solid	Moisture	
720-90413-14 DU	DG-AG4S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 257351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-28	DG-AB4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-29	DG-AB4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-30	DG-AB4S-9-9.5	Total/NA	Solid	Moisture	
720-90413-31	DG-AA4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-32	DG-AA4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-33	DG-Z4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-34	DG-Z4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-35	DG-Y4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-36	DG-Y4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-37	DUP-21	Total/NA	Solid	Moisture	
720-90413-38	DG-X4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-39	DG-X4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-40	DG-W4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-41	DG-W4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-42	DG-V4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-43	DG-V4S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-44	DG-U4S-0.5-1	Total/NA	Solid	Moisture	
720-90413-45	DG-U4S-3.5-4	Total/NA	Solid	Moisture	
720-90413-46	DUP-20	Total/NA	Solid	Moisture	
720-90413-28 DU	DG-AB4S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 257363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90413-47	DG-AL4S-7.5-8	Total/NA	Solid	Moisture	
720-90250-A-29 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Client Sample ID: DG-AM4S-0.5-1

Lab Sample ID: 720-90413-1

Date Collected: 12/18/18 08:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:03	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 17:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AM4S-3.5-4

Lab Sample ID: 720-90413-2

Date Collected: 12/18/18 08:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:08	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 17:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AL4S-0.5-1

Lab Sample ID: 720-90413-3

Date Collected: 12/18/18 08:40

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:13	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 17:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AL4S-3.5-4

Lab Sample ID: 720-90413-4

Date Collected: 12/18/18 08:40

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:17	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 17:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AK4S-0.5-1

Lab Sample ID: 720-90413-5

Date Collected: 12/18/18 09:05
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:22	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 17:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AK4S-3.5-4

Lab Sample ID: 720-90413-6

Date Collected: 12/18/18 09:05
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 12:35	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 17:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DUP-24

Lab Sample ID: 720-90413-7

Date Collected: 12/18/18 00:00
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:27	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 18:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AJ4S-0.5-1

Lab Sample ID: 720-90413-8

Date Collected: 12/18/18 09:20
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:31	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 18:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257345	12/20/18 10:16	TNL	TAL PLS

Client Sample ID: DG-AJ4S-3.5-4

Lab Sample ID: 720-90413-9

Date Collected: 12/18/18 09:20
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:36	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 18:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AI4S-0.5-1

Lab Sample ID: 720-90413-10

Date Collected: 12/18/18 09:35
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:41	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 18:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AI4S-3.5-4

Lab Sample ID: 720-90413-11

Date Collected: 12/18/18 09:35
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 13:45	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 18:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AH4S-0.5-1

Lab Sample ID: 720-90413-12

Date Collected: 12/18/18 09:55
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 14:00	BKR	TAL PLS
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257722	12/27/18 18:45	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 18:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AH4S-3.5-4

Lab Sample ID: 720-90413-13

Date Collected: 12/18/18 09:55

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 14:04	BKR	TAL PLS
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257722	12/27/18 18:49	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 18:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AG4S-0.5-1

Lab Sample ID: 720-90413-14

Date Collected: 12/18/18 10:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 18:14	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AG4S-3.5-4

Lab Sample ID: 720-90413-15

Date Collected: 12/18/18 10:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 14:09	BKR	TAL PLS
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257722	12/27/18 18:54	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 18:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DUP-23

Lab Sample ID: 720-90413-16

Date Collected: 12/18/18 00:00

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 14:14	BKR	TAL PLS
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257722	12/27/18 18:58	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/02/19 18:24	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Client Sample ID: DUP-23
Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AH4S-6-6.5
Date Collected: 12/18/18 10:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 14:19	BKR	TAL PLS
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257722	12/27/18 19:12	BKR	TAL PLS
Total/NA	Prep	7471A			257253	12/19/18 11:29	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257903	01/03/19 08:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AG4S-11-11.5
Date Collected: 12/18/18 11:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257864	12/27/18 14:23	BKR	TAL PLS
Total/NA	Prep	3050B			257285	12/19/18 15:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257722	12/27/18 19:17	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AF4S-0.5-1
Date Collected: 12/18/18 11:10
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 18:18	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AF4S-3.5-4

Lab Sample ID: 720-90413-20

Date Collected: 12/18/18 11:10

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 18:23	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AE4S-0.5-1

Lab Sample ID: 720-90413-21

Date Collected: 12/18/18 11:20

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 18:28	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AE4S-3.5-4

Lab Sample ID: 720-90413-22

Date Collected: 12/18/18 11:20

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 18:42	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AD4S-0.5-1

Lab Sample ID: 720-90413-23

Date Collected: 12/18/18 11:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 18:47	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Client Sample ID: DG-AD4S-3.5-4
Date Collected: 12/18/18 11:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 18:51	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AC4S-0.5-1
Date Collected: 12/18/18 13:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 18:56	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AC4S-3.5-4
Date Collected: 12/18/18 13:05
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:01	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DUP-22
Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:06	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257347	12/20/18 11:02	TNL	TAL PLS

Client Sample ID: DG-AB4S-0.5-1

Lab Sample ID: 720-90413-28

Date Collected: 12/18/18 13:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:10	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-AB4S-3.5-4

Lab Sample ID: 720-90413-29

Date Collected: 12/18/18 13:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:15	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-AB4S-9-9.5

Lab Sample ID: 720-90413-30

Date Collected: 12/18/18 13:25

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:20	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-AA4S-0.5-1

Lab Sample ID: 720-90413-31

Date Collected: 12/18/18 13:45

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:25	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 14:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-AA4S-3.5-4

Lab Sample ID: 720-90413-32

Date Collected: 12/18/18 13:45

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:39	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 15:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-Z4S-0.5-1

Lab Sample ID: 720-90413-33

Date Collected: 12/18/18 13:55

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:44	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 15:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-Z4S-3.5-4

Lab Sample ID: 720-90413-34

Date Collected: 12/18/18 13:55

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:48	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 15:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-Y4S-0.5-1

Lab Sample ID: 720-90413-35

Date Collected: 12/18/18 14:05

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:53	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 15:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-Y4S-3.5-4

Lab Sample ID: 720-90413-36

Date Collected: 12/18/18 14:05

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 19:58	BKR	TAL PLS
Total/NA	Prep	7471A			257257	01/03/19 10:40	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257936	01/03/19 15:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DUP-21

Lab Sample ID: 720-90413-37

Date Collected: 12/18/18 00:00

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257292	12/26/18 10:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257727	12/27/18 20:03	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-X4S-0.5-1

Lab Sample ID: 720-90413-38

Date Collected: 12/18/18 14:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 12:56	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-X4S-3.5-4

Lab Sample ID: 720-90413-39

Date Collected: 12/18/18 14:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:00	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-W4S-0.5-1

Lab Sample ID: 720-90413-40

Date Collected: 12/18/18 14:30
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:05	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-W4S-3.5-4

Lab Sample ID: 720-90413-41

Date Collected: 12/18/18 14:30
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:19	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-V4S-0.5-1

Lab Sample ID: 720-90413-42

Date Collected: 12/18/18 14:50
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:23	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-V4S-3.5-4

Lab Sample ID: 720-90413-43

Date Collected: 12/18/18 14:50
Matrix: Solid
Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:28	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Client Sample ID: DG-U4S-0.5-1

Date Collected: 12/18/18 15:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:32	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-U4S-3.5-4

Date Collected: 12/18/18 15:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 12:51	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DUP-20

Date Collected: 12/18/18 00:00
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-46

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:37	BKR	TAL PLS
Total/NA	Prep	7471A			257258	12/19/18 12:26	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257939	01/03/19 16:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257351	12/20/18 11:49	TNL	TAL PLS

Client Sample ID: DG-AL4S-7.5-8

Date Collected: 12/18/18 08:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90413-47

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:04	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257744	12/28/18 12:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90413-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90413-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90413-1	DG-AM4S-0.5-1	Solid	12/18/18 08:30	12/18/18 19:10
720-90413-2	DG-AM4S-3.5-4	Solid	12/18/18 08:30	12/18/18 19:10
720-90413-3	DG-AL4S-0.5-1	Solid	12/18/18 08:40	12/18/18 19:10
720-90413-4	DG-AL4S-3.5-4	Solid	12/18/18 08:40	12/18/18 19:10
720-90413-5	DG-AK4S-0.5-1	Solid	12/18/18 09:05	12/18/18 19:10
720-90413-6	DG-AK4S-3.5-4	Solid	12/18/18 09:05	12/18/18 19:10
720-90413-7	DUP-24	Solid	12/18/18 00:00	12/18/18 19:10
720-90413-8	DG-AJ4S-0.5-1	Solid	12/18/18 09:20	12/18/18 19:10
720-90413-9	DG-AJ4S-3.5-4	Solid	12/18/18 09:20	12/18/18 19:10
720-90413-10	DG-AI4S-0.5-1	Solid	12/18/18 09:35	12/18/18 19:10
720-90413-11	DG-AI4S-3.5-4	Solid	12/18/18 09:35	12/18/18 19:10
720-90413-12	DG-AH4S-0.5-1	Solid	12/18/18 09:55	12/18/18 19:10
720-90413-13	DG-AH4S-3.5-4	Solid	12/18/18 09:55	12/18/18 19:10
720-90413-14	DG-AG4S-0.5-1	Solid	12/18/18 10:30	12/18/18 19:10
720-90413-15	DG-AG4S-3.5-4	Solid	12/18/18 10:30	12/18/18 19:10
720-90413-16	DUP-23	Solid	12/18/18 00:00	12/18/18 19:10
720-90413-17	DG-AH4S-6-6.5	Solid	12/18/18 10:40	12/18/18 19:10
720-90413-18	DG-AG4S-11-11.5	Solid	12/18/18 11:00	12/18/18 19:10
720-90413-19	DG-AF4S-0.5-1	Solid	12/18/18 11:10	12/18/18 19:10
720-90413-20	DG-AF4S-3.5-4	Solid	12/18/18 11:10	12/18/18 19:10
720-90413-21	DG-AE4S-0.5-1	Solid	12/18/18 11:20	12/18/18 19:10
720-90413-22	DG-AE4S-3.5-4	Solid	12/18/18 11:20	12/18/18 19:10
720-90413-23	DG-AD4S-0.5-1	Solid	12/18/18 11:30	12/18/18 19:10
720-90413-24	DG-AD4S-3.5-4	Solid	12/18/18 11:30	12/18/18 19:10
720-90413-25	DG-AC4S-0.5-1	Solid	12/18/18 13:05	12/18/18 19:10
720-90413-26	DG-AC4S-3.5-4	Solid	12/18/18 13:05	12/18/18 19:10
720-90413-27	DUP-22	Solid	12/18/18 00:00	12/18/18 19:10
720-90413-28	DG-AB4S-0.5-1	Solid	12/18/18 13:15	12/18/18 19:10
720-90413-29	DG-AB4S-3.5-4	Solid	12/18/18 13:15	12/18/18 19:10
720-90413-30	DG-AB4S-9-9.5	Solid	12/18/18 13:25	12/18/18 19:10
720-90413-31	DG-AA4S-0.5-1	Solid	12/18/18 13:45	12/18/18 19:10
720-90413-32	DG-AA4S-3.5-4	Solid	12/18/18 13:45	12/18/18 19:10
720-90413-33	DG-Z4S-0.5-1	Solid	12/18/18 13:55	12/18/18 19:10
720-90413-34	DG-Z4S-3.5-4	Solid	12/18/18 13:55	12/18/18 19:10
720-90413-35	DG-Y4S-0.5-1	Solid	12/18/18 14:05	12/18/18 19:10
720-90413-36	DG-Y4S-3.5-4	Solid	12/18/18 14:05	12/18/18 19:10
720-90413-37	DUP-21	Solid	12/18/18 00:00	12/18/18 19:10
720-90413-38	DG-X4S-0.5-1	Solid	12/18/18 14:15	12/18/18 19:10
720-90413-39	DG-X4S-3.5-4	Solid	12/18/18 14:15	12/18/18 19:10
720-90413-40	DG-W4S-0.5-1	Solid	12/18/18 14:30	12/18/18 19:10
720-90413-41	DG-W4S-3.5-4	Solid	12/18/18 14:30	12/18/18 19:10
720-90413-42	DG-V4S-0.5-1	Solid	12/18/18 14:50	12/18/18 19:10
720-90413-43	DG-V4S-3.5-4	Solid	12/18/18 14:50	12/18/18 19:10
720-90413-44	DG-U4S-0.5-1	Solid	12/18/18 15:00	12/18/18 19:10
720-90413-45	DG-U4S-3.5-4	Solid	12/18/18 15:00	12/18/18 19:10
720-90413-46	DUP-20	Solid	12/18/18 00:00	12/18/18 19:10
720-90413-47	DG-AL4S-7.5-8	Solid	12/18/18 08:40	12/18/18 19:10

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600.3002

720-90413

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

18-7447

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-18-18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: R. Johnson
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90413 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AM4S-0.5-1	12-18-18	0830	G	S	1	N		X	
2	DG-AM4S-3.5-4		0830						X	
3	DG-AL4S-0.5-1		0840						X	
4	DG-AL4S-3.5-4		0840						X	
5	DG-AK4S-0.5-1		0905						X	
6	DG-AK4S-3.5-4		0905					X	X	
7	DUP-24		—						X	
8	DG-AJ4S-0.5-1		0920						X	
9	DG-AJ4S ~~3.5-4~~ 3.5-4		0920						X	
10	DG-AI4S-0.5-1		0935						X	
11	DG-AI4S-3.5-4		0935						X	
12	DG-AH4S-0.5-1		0955						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.2, 5.0, 2.9, 3.9, 4.3, 1.8, 2.8 °C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____		
Relinquished by	Company: Geosyntec	Date/Time: 12-18-18 1546	Received by	Company: TALS	Date/Time: 12/18/18 1546
Relinquished by	Company: TALS	Date/Time: 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/24/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90413

Chain of Custody Record

187447

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-18-18	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: K. Johnson
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AH4S-3.5-4	12-18-18	0955	G	S	1	N		X	
14	DG-AG4S-0.5-1		1030					X	X	
15	DG-AG4S-3.5-4		1030						X	
16	DUP-23		—						X	
17	DG-AH4S-6.0-6.5		1040						X	
18	DG-AG4S-11-11.5		1100						X	
19	DG-AF4S-0.5-1		1110						X	
20	DG-AF4S-3.5-4		1110						X	
21	DG-AE4S-0.5-1		1120						X	
22	DG-AE4S-3.5-4		1120						X	
23	DG-AD4S-0.5-1		1150						X	
24	DG-AD4S-3.5-4		1130						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd ____ Corr'd ____	Therm ID No. ____	
Relinquished by	Company: Geosyntec	Date/Time: 12-18-18 1546	Received by	Company: TAPCS	Date/Time: 12/18/18 1546
Relinquished by	Company: TAPCS	Date/Time: 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 12/19/18 0910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/24/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-9043

Chain of Custody Record

187447 TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-18-18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: KJ Ohlson
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25	DG-AC45-0.5-1	12/18/18	1305	G	S	1	N		X	
26	DG-AC45-3.5-4		1305						X	
27	DUP-22		—						X	
28	DG-AB45-0.5-1		1315						X	
29	DG-AB45-3.5-4		1315						X	
30	DG-AB45-9-9.5		1325						X	
31	~~DG-AA45~~ DG-AA45-0.5-1		1345						X	
32	DG-AA45-3.5-4		1345						X	
33	DG-Z45-0.5-1		1355						X	
34	DG-Z45-3.5-4		1355						X	
35	DG-Y45-0.5-1		1405						X	
36	DG-Y45-3.5-4		1405						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd: _____ Therm ID No _____			
Relinquished by	Company: Geosyntec	Date/Time: 12-18-18 1546	Received by	Company: TAPCS	Date/Time: 12/18/18 1546
Relinquished by	Company: TAPCS	Date/Time: 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TAPCS	Date/Time: 12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/24/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90413

Chain of Custody Record

1907447 TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-18-18	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler K. Johnson
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
37 DUP-21	12-18-18	—	G	S	1	N		X	
38 DG-X4S-0.5-1		1415						X	
39 DG-X4S-3.5-4		1415						X	
DG-W4S-0.5-1		1430						X	
DG-W4S-3.5-4		1430						X	
DG-V4S-0.5-1		1450						X	
DG-V4S-3.5-4		1450						X	
DG-U4S-~~0.5-4~~ 0.5-1		1500						X	
DG-U4S-3.5-4		1500				X		X	
DUP-20		—						X	
46									
12/18/18									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company: Geosyntec	Date/Time: 12-18-18 1546	Received by	Company: TALS	Date/Time: 12/18/18 1546
Relinquished by	Company: TALS	Date/Time: 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/24/2019 (Rev. 1)

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90413-1

Login Number: 90413
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, December 20, 2018 11:24 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90413-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Christian,

For sample #47, DG-AL4S-7.5-8 please run CAM-17 Metals (6010B, 7471).

How you handled Sample 17 is correct, yes.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Wednesday, December 19, 2018 11:06 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90413-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90413-1; Brisbane OU-2 Data Gap Investigation

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): (#47) DG-AL4S-7.5-8. Logged on HOLD. Please confirm what you would like done with this sample.

Additionally, sample 17 (DG-AH4S-6.0-6.5) was changed to DG-AH4S-6-6.5 in accordance with the rest of the sample ID

formats. Please confirm if this is correct.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [489777]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
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TestAmerica Job ID: 720-90414-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
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Authorized for release by:
1/7/2019 10:12:12 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

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Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Narrative

Job Narrative
720-90414-1

Comments
See client email in correspondences for Reciept exception descrepancy.

Receipt
The samples were received on 12/18/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.2º C, 1.8º C, 2.8º C, 2.9º C, 3.9º C, 4.3º C and 5.0º C.

Receipt Exceptions

Pg 3 is listed 1 of 3 COC No:3.

Metals
Method6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257366 and analytical batch 720-257457 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257457 was outside of control limits. As-167%, Ba-159%, Be-126%, Cr-131%, Cu-133%, V-127%, Zn-195%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257457 was outside control limits for As-22%, Ba-27%, Cd-61%, Co-40%, Cr-29%, Ni-27%, Pb-25%, V-30%, Zn-23%: (720-90414-A-8-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-S5S-0.5-1 (720-90414-13), DG-Q5S-0.5-1 (720-90414-15), DG-Q5S-3.5-4 (720-90414-16), DG-O5S-0.5-1 (720-90414-17), DG-N7S-0.5-1 (720-90414-19), DG-N7S-3.5-4 (720-90414-20), DG-P8S-0.5-1 (720-90414-21), DG-P7S-0.5-1 (720-90414-23) and DG-P7S-3.5-4 (720-90414-24). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257446 and analytical batch 720-257788 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257788 was outside control limits for Barium-19%, Cobalt-18%, Chromium-15%, Copper-16%, Nickel-13%, Lead-13%, Vanadium-12%, Zinc-14%: (720-90446-A-1-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-P7S-8.5-9 (720-90414-25) and (720-90446-A-1-C). Elevated reporting limits (RLs) are provided.

Method 6010B: The post digestion spike % recovery for Zinc associated with batch 720-257759 was outside of control limits. Zinc-72%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257759 was outside control limits for Arsenic-11%, Chromium-12%: (720-90413-A-45-F SD)

Method 6010B: The method blank for preparation batch 720-257348 and analytical batch 720-257759 contained Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AC5S-0.5-1 (720-90414-1), DG-AC5S-3.5-4 (720-90414-2), DG-AA5S-0.5-1 (720-90414-3), DG-AA5S-3.5-4 (720-90414-4), DG-Y5S-0.5-1 (720-90414-5), DG-Y5S-3.5-4 (720-90414-6), DG-W5S-0.5-1 (720-90414-7), DUP-30 (720-90414-9), DG-W5S-8.5-9 (720-90414-10), DG-U5S-0.5-1 (720-90414-11), DG-U5S-3.5-4 (720-90414-12) and (720-90413-A-45-F). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-W5S-3.5-4 (720-90414-8),

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DG-S5S-0.5-1 (720-90414-13), DG-S5S-3.5-4 (720-90414-14), DG-Q5S-0.5-1 (720-90414-15), DG-Q5S-3.5-4 (720-90414-16), DG-O5S-0.5-1 (720-90414-17), DG-O5S-3.5-4 (720-90414-18), DG-N7S-0.5-1 (720-90414-19), DG-N7S-3.5-4 (720-90414-20), DG-P8S-0.5-1 (720-90414-21), DG-P8S-3.5-4 (720-90414-22), DG-P7S-0.5-1 (720-90414-23) and DG-P7S-3.5-4 (720-90414-24). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

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Client Sample ID: DG-AC5S-0.5-1 — Lab Sample ID: 720-90414-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	21		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	280		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	80		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	22		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.3		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	600		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	1300		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	32		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.43	J B	2.5	0.38	mg/Kg	4		6010B	Total/NA
Silver	0.63		0.63	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	1200		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.52		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC5S-3.5-4 — Lab Sample ID: 720-90414-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.9		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	150		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	120		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	26		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	300		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	540		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	36		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.85	J B	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.43	J	0.79	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	460		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.38		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA5S-0.5-1 — Lab Sample ID: 720-90414-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	51		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	95		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	1.3		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	23		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	190		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	280		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	2.5		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	29		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J B	3.4	0.52	mg/Kg	4		6010B	Total/NA
Silver	0.35	J	0.86	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AA5S-0.5-1 (Continued)

Lab Sample ID: 720-90414-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	60		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	520		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.49		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA5S-3.5-4

Lab Sample ID: 720-90414-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	170		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	72		1.9	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	12		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	130		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	87		1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	14		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J B	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	78		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	100		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y5S-0.5-1

Lab Sample ID: 720-90414-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	9.7		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	82		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	1.9		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	76		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	160		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	270		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	2.6		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	30		1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.24	J	0.55	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	340		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.41		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y5S-3.5-4

Lab Sample ID: 720-90414-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.69	J	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	2.7		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	26		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.051	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	19		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	3.0		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	5.0		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	7.9		1.3	0.27	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y5S-3.5-4 (Continued) — Lab Sample ID: 720-90414-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	14		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.55	J B	2.6	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	15		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	16		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.0086	J	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W5S-0.5-1 — Lab Sample ID: 720-90414-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	16		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	45		1.2	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.56		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	15		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	160		3.5	1.6	mg/Kg	4		6010B	Total/NA
Lead	140		1.2	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.61	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	11		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.76	J B	2.3	0.35	mg/Kg	4		6010B	Total/NA
Silver	0.28	J	0.58	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	280		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.34		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W5S-3.5-4 — Lab Sample ID: 720-90414-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5	F1	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	400		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	240		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	2.4		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	56		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	45	F1	5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	7200	F2	1.8	0.39	mg/Kg	4		6010B	Total/NA
Nickel	24		1.8	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.46	J	0.92	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	36	F1	1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	780		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.66		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-30 — Lab Sample ID: 720-90414-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	20		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	66		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.69		0.36	0.035	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-30 (Continued) — Lab Sample ID: 720-90414-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	16		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	190		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	140		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.83	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	15		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.72	J B	2.9	0.43	mg/Kg	4		6010B	Total/NA
Silver	0.40	J	0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	200		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.091		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W5S-8.5-9 — Lab Sample ID: 720-90414-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	18		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	68		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.54		0.38	0.12	mg/Kg	4		6010B	Total/NA
Chromium	39		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	31		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	9.9		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.43	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	39		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	69		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.054		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U5S-0.5-1 — Lab Sample ID: 720-90414-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	40		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	120		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	2.5		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	39		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	230		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	430		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	4.1		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	25		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.97	J B	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	0.37	J	0.70	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	91		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	500		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U5S-3.5-4 — Lab Sample ID: 720-90414-12

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U5S-3.5-4 (Continued) — Lab Sample ID: 720-90414-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.0		1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	87		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	110		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	31		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	5.1		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	34		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	210		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.21	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	23		1.5	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.77	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	330		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.055		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S5S-0.5-1 — Lab Sample ID: 720-90414-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.3		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	140		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	170		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	4.0		0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	33		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	230		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	4200		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	2.0		1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	29		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Silver	9.2		0.96	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	1100		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S5S-3.5-4 — Lab Sample ID: 720-90414-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	140		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	54		1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	26		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	3.9		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	19		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	81		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.14	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	21		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	19		1.1	0.15	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Client Sample ID: DG-S5S-3.5-4 (Continued) — Lab Sample ID: 720-90414-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	140		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q5S-0.5-1 — Lab Sample ID: 720-90414-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.7		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	48		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	130		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	1.8		0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	25		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	240		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	340		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	23		1.7	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.67	J	0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	98		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	580		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.26		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q5S-3.5-4 — Lab Sample ID: 720-90414-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.7		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	140		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	160		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.30	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	56		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	77		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	150		1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	74		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.38	J	0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	170		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O5S-0.5-1 — Lab Sample ID: 720-90414-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.72	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	94		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	110		1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	15		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	190		5.2	2.5	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O5S-0.5-1 (Continued) — Lab Sample ID: 720-90414-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	86		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	7.5		1.7	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.19	J	0.87	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	160		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O5S-3.5-4 — Lab Sample ID: 720-90414-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	410		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	110		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Chromium	51		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	6.8		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	26		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	29		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	39		2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	32		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	65		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.034		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N7S-0.5-1 — Lab Sample ID: 720-90414-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.87	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	10		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	15		1.9	0.26	mg/Kg	4		6010B	Total/NA
Chromium	11		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	96		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	17		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.57	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	6.1		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	77		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.067		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N7S-3.5-4 — Lab Sample ID: 720-90414-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	100		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	58		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.58		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	15		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.51	0.051	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Client Sample ID: DG-N7S-3.5-4 (Continued) — Lab Sample ID: 720-90414-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	120		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	290		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.17	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	15		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	200		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.072		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P8S-0.5-1 — Lab Sample ID: 720-90414-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.90	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	18		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	68		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.59		0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	18		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	160		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	490		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	10		2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	120		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	120		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.068		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P8S-3.5-4 — Lab Sample ID: 720-90414-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.65	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.4		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	41		1.2	0.17	mg/Kg	4		6010B	Total/NA
Chromium	47		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	4.6		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	6.7		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	1.1	J	1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	35		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	19		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.47		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P7S-0.5-1 — Lab Sample ID: 720-90414-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	20		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	130		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	7.3		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	38		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.62	0.062	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P7S-0.5-1 (Continued) — Lab Sample ID: 720-90414-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	870		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	1900		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	4.5		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	45		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.62	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Silver	3.6		0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	760		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P7S-3.5-4 — Lab Sample ID: 720-90414-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	0.98	J	3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	32		1.9	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	13		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	130		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	13		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	5.2		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	58		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.051		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P7S-8.5-9 — Lab Sample ID: 720-90414-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.64	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	5.5		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	39		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.070	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	56		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	6.8		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	25		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	29		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.77	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	44		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.58	J	3.4	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	72		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.22		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC5S-0.5-1

Date Collected: 12/18/18 08:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	21		1.3	0.21	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Arsenic	280		2.5	0.21	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Barium	80		1.3	0.18	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Beryllium	ND		0.25	0.081	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Cadmium	1.7		0.31	0.031	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Chromium	22		1.3	0.13	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Cobalt	8.3		0.50	0.050	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Copper	600		3.8	1.8	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Lead	1300		1.3	0.26	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Molybdenum	0.39	J	1.3	0.16	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Nickel	32		1.3	0.13	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Selenium	0.43	J B	2.5	0.38	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Silver	0.63		0.63	0.13	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Thallium	ND		1.3	0.36	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Vanadium	57		1.3	0.17	mg/Kg		12/26/18 15:14	12/28/18 13:42	4
Zinc	1200		3.8	1.6	mg/Kg		12/26/18 15:14	12/28/18 13:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.52		0.016	0.0023	mg/Kg		12/19/18 14:09	01/03/19 18:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.1		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-AC5S-3.5-4

Date Collected: 12/18/18 08:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.9		1.6	0.26	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Arsenic	150		3.2	0.27	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Barium	120		1.6	0.23	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Beryllium	ND		0.32	0.10	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Cadmium	1.5		0.40	0.039	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Chromium	26		1.6	0.17	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Cobalt	9.9		0.63	0.063	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Copper	300		4.8	2.3	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Lead	540		1.6	0.33	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Molybdenum	1.1	J	1.6	0.20	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Nickel	36		1.6	0.16	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Selenium	0.85	J B	3.2	0.48	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Silver	0.43	J	0.79	0.16	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Thallium	ND		1.6	0.46	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Vanadium	56		1.6	0.22	mg/Kg		12/26/18 15:14	12/28/18 13:46	4
Zinc	460		4.8	2.0	mg/Kg		12/26/18 15:14	12/28/18 13:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.014	0.0021	mg/Kg		12/19/18 14:09	01/03/19 18:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-AA5S-0.5-1

Date Collected: 12/18/18 08:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.7	0.29	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Arsenic	51		3.4	0.29	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Barium	95		1.7	0.24	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Beryllium	ND		0.34	0.11	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Cadmium	1.3		0.43	0.043	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Chromium	23		1.7	0.18	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Cobalt	9.3		0.69	0.069	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Copper	190		5.2	2.5	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Lead	280		1.7	0.36	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Molybdenum	2.5		1.7	0.22	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Nickel	29		1.7	0.18	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Selenium	1.3	J B	3.4	0.52	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Silver	0.35	J	0.86	0.17	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Thallium	ND		1.7	0.50	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Vanadium	60		1.7	0.23	mg/Kg		12/26/18 15:14	12/28/18 13:51	4
Zinc	520		5.2	2.2	mg/Kg		12/26/18 15:14	12/28/18 13:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.015	0.0022	mg/Kg		12/19/18 14:09	01/03/19 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.8		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-AA5S-3.5-4

Date Collected: 12/18/18 08:50
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.9	0.31	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Arsenic	170		3.7	0.31	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Barium	72		1.9	0.26	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Beryllium	ND		0.37	0.12	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Cadmium	0.11	J	0.46	0.046	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Chromium	12		1.9	0.20	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Cobalt	11		0.74	0.074	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Copper	130		5.6	2.6	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Lead	87		1.9	0.39	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Molybdenum	ND		1.9	0.24	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Nickel	14		1.9	0.19	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Selenium	1.3	J B	3.7	0.56	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Silver	ND		0.93	0.19	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Thallium	ND		1.9	0.54	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Vanadium	78		1.9	0.25	mg/Kg		12/26/18 15:14	12/28/18 13:56	4
Zinc	100		5.6	2.4	mg/Kg		12/26/18 15:14	12/28/18 13:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0023	mg/Kg		12/19/18 14:09	01/03/19 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-Y5S-0.5-1

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9		1.1	0.18	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Arsenic	9.7		2.2	0.19	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Barium	82		1.1	0.16	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Beryllium	ND		0.22	0.071	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Cadmium	1.9		0.27	0.027	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Chromium	76		1.1	0.12	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Cobalt	9.6		0.44	0.044	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Copper	160		3.3	1.6	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Lead	270		1.1	0.23	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Molybdenum	2.6		1.1	0.14	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Nickel	30		1.1	0.11	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Selenium	ND		2.2	0.33	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Silver	0.24	J	0.55	0.11	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Thallium	ND		1.1	0.32	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Vanadium	64		1.1	0.15	mg/Kg		12/26/18 15:14	12/28/18 14:00	4
Zinc	340		3.3	1.4	mg/Kg		12/26/18 15:14	12/28/18 14:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.014	0.0021	mg/Kg		12/19/18 14:09	01/03/19 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-Y5S-3.5-4

Date Collected: 12/18/18 11:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.3	0.22	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Arsenic	2.7		2.6	0.22	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Barium	26		1.3	0.18	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Beryllium	ND		0.26	0.084	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Cadmium	0.051	J	0.32	0.032	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Chromium	19		1.3	0.14	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Cobalt	3.0		0.52	0.052	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Copper	5.0		3.9	1.8	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Lead	7.9		1.3	0.27	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Molybdenum	ND		1.3	0.17	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Nickel	14		1.3	0.13	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Selenium	0.55	J B	2.6	0.39	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Silver	ND		0.65	0.13	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Thallium	ND		1.3	0.38	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Vanadium	15		1.3	0.18	mg/Kg		12/26/18 15:14	12/28/18 14:14	4
Zinc	16		3.9	1.6	mg/Kg		12/26/18 15:14	12/28/18 14:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0086	J	0.015	0.0022	mg/Kg		12/19/18 14:09	01/03/19 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.8		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-W5S-0.5-1

Date Collected: 12/18/18 11:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.2	0.19	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Arsenic	16		2.3	0.20	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Barium	45		1.2	0.16	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Beryllium	ND		0.23	0.075	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Cadmium	0.56		0.29	0.029	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Chromium	15		1.2	0.12	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Cobalt	14		0.46	0.046	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Copper	160		3.5	1.6	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Lead	140		1.2	0.24	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Molybdenum	0.61	J	1.2	0.15	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Nickel	11		1.2	0.12	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Selenium	0.76	J B	2.3	0.35	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Silver	0.28	J	0.58	0.12	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Thallium	ND		1.2	0.34	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Vanadium	110		1.2	0.16	mg/Kg		12/26/18 15:14	12/28/18 14:19	4
Zinc	280		3.5	1.5	mg/Kg		12/26/18 15:14	12/28/18 14:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.016	0.0024	mg/Kg		12/19/18 14:09	01/03/19 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-W5S-3.5-4

Date Collected: 12/18/18 11:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5	F1	1.8	0.30	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Arsenic	400		3.7	0.31	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Barium	240		1.8	0.26	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Beryllium	0.26	J	0.37	0.12	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Cadmium	2.4		0.46	0.046	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Chromium	56		1.8	0.19	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Cobalt	7.7		0.73	0.073	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Copper	45	F1	5.5	2.6	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Lead	7200	F2	1.8	0.39	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Molybdenum	ND		1.8	0.23	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Nickel	24		1.8	0.19	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Selenium	ND		3.7	0.55	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Silver	0.46	J	0.92	0.19	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Thallium	ND		1.8	0.53	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Vanadium	36	F1	1.8	0.25	mg/Kg		12/20/18 15:57	12/21/18 10:27	4
Zinc	780		5.5	2.3	mg/Kg		12/20/18 15:57	12/21/18 10:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.66		0.015	0.0022	mg/Kg		12/19/18 14:09	01/03/19 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DUP-30

Date Collected: 12/18/18 11:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4		1.4	0.24	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Arsenic	20		2.9	0.24	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Barium	66		1.4	0.20	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Beryllium	ND		0.29	0.093	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Cadmium	0.69		0.36	0.035	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Chromium	16		1.4	0.15	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Cobalt	14		0.57	0.057	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Copper	190		4.3	2.0	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Lead	140		1.4	0.30	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Molybdenum	0.83	J	1.4	0.18	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Nickel	15		1.4	0.15	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Selenium	0.72	J B	2.9	0.43	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Silver	0.40	J	0.71	0.14	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Thallium	ND		1.4	0.41	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Vanadium	110		1.4	0.19	mg/Kg		12/26/18 15:14	12/28/18 14:23	4
Zinc	200		4.3	1.8	mg/Kg		12/26/18 15:14	12/28/18 14:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.017	0.0025	mg/Kg		12/19/18 14:09	01/03/19 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.1	0.05	%			12/20/18 13:31	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Client Sample ID: DG-W5S-8.5-9

Date Collected: 12/18/18 11:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.9	0.31	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Arsenic	18		3.8	0.32	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Barium	68		1.9	0.27	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Beryllium	0.54		0.38	0.12	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Cadmium	ND		0.47	0.047	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Chromium	39		1.9	0.20	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Cobalt	18		0.75	0.075	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Copper	31		5.7	2.7	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Lead	9.9		1.9	0.40	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Molybdenum	0.43	J	1.9	0.24	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Nickel	39		1.9	0.19	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Selenium	ND		3.8	0.57	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Silver	ND		0.94	0.19	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Thallium	ND		1.9	0.55	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Vanadium	44		1.9	0.26	mg/Kg		12/26/18 15:14	12/28/18 14:28	4
Zinc	69		5.7	2.4	mg/Kg		12/26/18 15:14	12/28/18 14:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.016	0.0023	mg/Kg		12/19/18 14:09	01/03/19 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.7		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-U5S-0.5-1

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5		1.4	0.23	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Arsenic	40		2.8	0.24	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Barium	120		1.4	0.20	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Beryllium	ND		0.28	0.092	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Cadmium	2.5		0.35	0.035	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Chromium	39		1.4	0.15	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Cobalt	12		0.56	0.056	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Copper	230		4.2	2.0	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Lead	430		1.4	0.30	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Molybdenum	4.1		1.4	0.18	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Nickel	25		1.4	0.14	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Selenium	0.97	J B	2.8	0.42	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Silver	0.37	J	0.70	0.14	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Thallium	ND		1.4	0.41	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Vanadium	91		1.4	0.19	mg/Kg		12/26/18 15:14	12/28/18 14:33	4
Zinc	500		4.2	1.8	mg/Kg		12/26/18 15:14	12/28/18 14:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.016	0.0024	mg/Kg		12/19/18 14:09	01/03/19 18:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-U5S-3.5-4

Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0		1.5	0.26	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Arsenic	87		3.1	0.26	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Barium	110		1.5	0.22	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Beryllium	0.16	J	0.31	0.10	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Cadmium	0.36	J	0.38	0.038	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Chromium	31		1.5	0.16	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Cobalt	5.1		0.62	0.062	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Copper	34		4.6	2.2	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Lead	210		1.5	0.32	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Molybdenum	0.21	J	1.5	0.20	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Nickel	23		1.5	0.16	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Selenium	ND		3.1	0.46	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Silver	0.17	J	0.77	0.16	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Thallium	ND		1.5	0.45	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Vanadium	27		1.5	0.21	mg/Kg		12/26/18 15:14	12/28/18 14:37	4
Zinc	330		4.6	2.0	mg/Kg		12/26/18 15:14	12/28/18 14:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.015	0.0021	mg/Kg		01/04/19 11:00	01/04/19 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.5		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-S5S-0.5-1

Date Collected: 12/18/18 13:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.3		1.9	0.32	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Arsenic	140		3.8	0.33	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Barium	170		1.9	0.27	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Beryllium	ND		0.38	0.13	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Cadmium	4.0		0.48	0.048	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Chromium	33		1.9	0.20	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Cobalt	15		0.77	0.077	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Copper	230		5.8	2.7	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Lead	4200		1.9	0.40	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Molybdenum	2.0		1.9	0.25	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Nickel	29		1.9	0.20	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Selenium	1.3	J	3.8	0.58	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Silver	9.2		0.96	0.19	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Thallium	ND		1.9	0.56	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Vanadium	100		1.9	0.26	mg/Kg		12/20/18 15:57	12/21/18 11:09	4
Zinc	1100		5.8	2.4	mg/Kg		12/20/18 15:57	12/21/18 11:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-S5S-3.5-4

Date Collected: 12/18/18 13:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1		1.1	0.18	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Arsenic	140		2.2	0.18	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Barium	54		1.1	0.15	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Beryllium	0.17	J	0.22	0.070	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Cadmium	0.20	J	0.27	0.027	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Chromium	26		1.1	0.11	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Cobalt	3.9		0.43	0.043	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Copper	19		3.2	1.5	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Lead	81		1.1	0.23	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Molybdenum	0.14	J	1.1	0.14	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Nickel	21		1.1	0.11	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Selenium	ND		2.2	0.32	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Silver	ND		0.54	0.11	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Thallium	ND		1.1	0.31	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Vanadium	19		1.1	0.15	mg/Kg		12/20/18 15:57	12/21/18 11:14	4
Zinc	140		3.2	1.4	mg/Kg		12/20/18 15:57	12/21/18 11:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.1		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-Q5S-0.5-1

Date Collected: 12/18/18 13:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.7	0.28	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Arsenic	48		3.3	0.28	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Barium	130		1.7	0.24	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Beryllium	0.15	J	0.33	0.11	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Cadmium	1.8		0.42	0.041	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Chromium	25		1.7	0.18	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Cobalt	12		0.67	0.067	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Copper	240		5.0	2.4	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Lead	340		1.7	0.35	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Molybdenum	1.1	J	1.7	0.21	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Nickel	23		1.7	0.17	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Selenium	ND		3.3	0.50	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Silver	0.67	J	0.83	0.17	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Thallium	ND		1.7	0.48	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Vanadium	98		1.7	0.23	mg/Kg		12/20/18 15:57	12/21/18 11:18	4
Zinc	580		5.0	2.1	mg/Kg		12/20/18 15:57	12/21/18 11:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-Q5S-3.5-4

Date Collected: 12/18/18 13:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.8	0.29	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Arsenic	140		3.5	0.30	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Barium	160		1.8	0.25	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Beryllium	0.15	J	0.35	0.12	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Cadmium	0.30	J	0.44	0.044	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Chromium	56		1.8	0.19	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Cobalt	12		0.71	0.071	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Copper	77		5.3	2.5	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Lead	150		1.8	0.37	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Molybdenum	ND		1.8	0.23	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Nickel	74		1.8	0.18	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Selenium	ND		3.5	0.53	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Silver	0.38	J	0.88	0.18	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Thallium	ND		1.8	0.51	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Vanadium	37		1.8	0.24	mg/Kg		12/20/18 15:57	12/21/18 11:23	4
Zinc	170		5.3	2.2	mg/Kg		12/20/18 15:57	12/21/18 11:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.016	0.0024	mg/Kg		01/04/19 11:00	01/04/19 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.9		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-O5S-0.5-1

Date Collected: 12/18/18 14:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.72	J	1.7	0.29	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Arsenic	94		3.5	0.30	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Barium	110		1.7	0.25	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Beryllium	ND		0.35	0.11	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Cadmium	0.18	J	0.43	0.043	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Chromium	15		1.7	0.18	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Cobalt	12		0.70	0.070	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Copper	190		5.2	2.5	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Lead	86		1.7	0.37	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Molybdenum	0.25	J	1.7	0.22	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Nickel	7.5		1.7	0.18	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Selenium	ND		3.5	0.52	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Silver	0.19	J	0.87	0.18	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Thallium	ND		1.7	0.50	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Vanadium	130		1.7	0.24	mg/Kg		12/20/18 15:57	12/21/18 11:27	4
Zinc	160		5.2	2.2	mg/Kg		12/20/18 15:57	12/21/18 11:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1	0.05	%			12/20/18 13:31	1

Client Sample ID: DG-O5S-3.5-4

Date Collected: 12/18/18 14:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		2.0	0.33	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Arsenic	410		3.9	0.33	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Barium	110		2.0	0.28	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Beryllium	0.26	J	0.39	0.13	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Cadmium	ND		0.49	0.049	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Chromium	51		2.0	0.21	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Cobalt	6.8		0.78	0.078	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Copper	26		5.9	2.8	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Lead	29		2.0	0.41	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Molybdenum	0.26	J	2.0	0.25	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Nickel	39		2.0	0.20	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Selenium	ND		3.9	0.59	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Silver	ND		0.98	0.20	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Thallium	ND		2.0	0.57	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Vanadium	32		2.0	0.27	mg/Kg		12/20/18 15:57	12/21/18 11:32	4
Zinc	65		5.9	2.5	mg/Kg		12/20/18 15:57	12/21/18 11:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.9		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-N7S-0.5-1

Date Collected: 12/18/18 14:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.87	J	1.9	0.31	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Arsenic	10		3.7	0.31	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Barium	15		1.9	0.26	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Beryllium	ND		0.37	0.12	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Cadmium	ND		0.46	0.046	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Chromium	11		1.9	0.20	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Cobalt	15		0.74	0.074	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Copper	96		5.6	2.6	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Lead	17		1.9	0.39	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Molybdenum	0.57	J	1.9	0.24	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Nickel	6.1		1.9	0.19	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Selenium	ND		3.7	0.56	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Silver	ND		0.93	0.19	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Thallium	ND		1.9	0.54	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Vanadium	100		1.9	0.25	mg/Kg		12/20/18 15:57	12/21/18 11:37	4
Zinc	77		5.6	2.4	mg/Kg		12/20/18 15:57	12/21/18 11:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.015	0.0021	mg/Kg		01/04/19 11:00	01/04/19 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.5		0.1	0.05	%			12/21/18 10:19	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Client Sample ID: DG-N7S-3.5-4
Date Collected: 12/18/18 14:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-20
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.3	0.21	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Arsenic	100		2.5	0.22	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Barium	58		1.3	0.18	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Beryllium	ND		0.25	0.083	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Cadmium	0.58		0.32	0.032	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Chromium	15		1.3	0.14	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Cobalt	15		0.51	0.051	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Copper	120		3.8	1.8	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Lead	290		1.3	0.27	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Molybdenum	0.17	J	1.3	0.16	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Nickel	15		1.3	0.13	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Selenium	ND		2.5	0.38	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Silver	0.17	J	0.64	0.13	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Thallium	ND		1.3	0.37	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Vanadium	100		1.3	0.17	mg/Kg		12/20/18 15:57	12/21/18 11:50	4
Zinc	200		3.8	1.6	mg/Kg		12/20/18 15:57	12/21/18 11:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.4		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-P8S-0.5-1

Date Collected: 12/18/18 14:45
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.90	J	2.0	0.33	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Arsenic	18		3.9	0.33	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Barium	68		2.0	0.28	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Beryllium	ND		0.39	0.13	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Cadmium	0.59		0.49	0.049	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Chromium	18		2.0	0.21	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Cobalt	12		0.78	0.078	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Copper	160		5.9	2.8	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Lead	490		2.0	0.41	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Molybdenum	0.35	J	2.0	0.25	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Nickel	10		2.0	0.20	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Selenium	ND		3.9	0.59	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Silver	ND		0.98	0.20	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Thallium	ND		2.0	0.57	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Vanadium	120		2.0	0.27	mg/Kg		12/20/18 15:57	12/21/18 11:55	4
Zinc	120		5.9	2.5	mg/Kg		12/20/18 15:57	12/21/18 11:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068		0.015	0.0023	mg/Kg		01/04/19 11:00	01/04/19 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			12/21/18 10:19	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Client Sample ID: DG-P8S-3.5-4

Date Collected: 12/18/18 14:45
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.2	0.20	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Arsenic	2.4		2.4	0.21	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Barium	41		1.2	0.17	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Beryllium	ND		0.24	0.079	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Cadmium	ND		0.30	0.030	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Chromium	47		1.2	0.13	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Cobalt	4.6		0.48	0.048	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Copper	6.7		3.6	1.7	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Lead	1.1	J	1.2	0.25	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Molybdenum	ND		1.2	0.16	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Nickel	35		1.2	0.12	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Selenium	ND		2.4	0.36	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Silver	ND		0.61	0.12	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Thallium	ND		1.2	0.35	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Vanadium	40		1.2	0.16	mg/Kg		12/20/18 15:57	12/21/18 12:00	4
Zinc	19		3.6	1.5	mg/Kg		12/20/18 15:57	12/21/18 12:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.47		0.016	0.0024	mg/Kg		01/04/19 11:00	01/04/19 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-P7S-0.5-1

Date Collected: 12/18/18 15:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8		1.6	0.26	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Arsenic	20		3.1	0.26	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Barium	130		1.6	0.22	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Beryllium	ND		0.31	0.10	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Cadmium	7.3		0.39	0.038	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Chromium	38		1.6	0.16	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Cobalt	9.6		0.62	0.062	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Copper	870		4.7	2.2	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Lead	1900		1.6	0.33	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Molybdenum	4.5		1.6	0.20	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Nickel	45		1.6	0.16	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Selenium	0.62	J	3.1	0.47	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Silver	3.6		0.78	0.16	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Thallium	ND		1.6	0.45	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Vanadium	68		1.6	0.21	mg/Kg		12/20/18 15:57	12/21/18 12:04	4
Zinc	760		4.7	2.0	mg/Kg		12/20/18 15:57	12/21/18 12:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		0.1	0.05	%			12/21/18 10:19	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Client Sample ID: DG-P7S-3.5-4

Date Collected: 12/18/18 15:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.9	0.31	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Arsenic	0.98	J	3.7	0.31	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Barium	32		1.9	0.26	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Beryllium	ND		0.37	0.12	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Cadmium	0.12	J	0.46	0.046	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Chromium	13		1.9	0.20	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Cobalt	12		0.74	0.074	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Copper	130		5.6	2.6	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Lead	13		1.9	0.39	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Molybdenum	0.28	J	1.9	0.24	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Nickel	5.2		1.9	0.19	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Selenium	ND		3.7	0.56	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Silver	ND		0.93	0.19	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Thallium	ND		1.9	0.54	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Vanadium	110		1.9	0.25	mg/Kg		12/20/18 15:57	12/21/18 12:09	4
Zinc	58		5.6	2.4	mg/Kg		12/20/18 15:57	12/21/18 12:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-P7S-8.5-9

Date Collected: 12/18/18 15:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.7	0.29	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Arsenic	5.5		3.4	0.29	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Barium	39		1.7	0.24	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Beryllium	0.26	J	0.34	0.11	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Cadmium	0.070	J	0.43	0.043	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Chromium	56		1.7	0.18	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Cobalt	6.8		0.69	0.069	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Copper	25		5.2	2.5	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Lead	29		1.7	0.36	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Molybdenum	0.77	J	1.7	0.22	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Nickel	44		1.7	0.18	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Selenium	0.58	J	3.4	0.52	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Silver	ND		0.86	0.17	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Thallium	ND		1.7	0.50	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Vanadium	47		1.7	0.23	mg/Kg		12/22/18 10:25	12/28/18 17:10	4
Zinc	72		5.2	2.2	mg/Kg		12/22/18 10:25	12/28/18 17:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	36.3		0.1	0.05	%			12/21/18 10:19	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257348/1-A
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Arsenic	ND		1.0	0.085	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Barium	ND		0.50	0.071	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Beryllium	ND		0.10	0.033	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Cadmium	ND		0.13	0.012	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Chromium	ND		0.50	0.053	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Cobalt	ND		0.20	0.020	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Copper	ND		1.5	0.71	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Lead	ND		0.50	0.11	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Nickel	ND		0.50	0.051	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Selenium	0.299	J	1.0	0.15	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Silver	ND		0.25	0.051	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Thallium	ND		0.50	0.15	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Vanadium	ND		0.50	0.068	mg/Kg		12/26/18 15:14	12/28/18 12:23	1
Zinc	ND		1.5	0.64	mg/Kg		12/26/18 15:14	12/28/18 12:23	1

Lab Sample ID: LCS 720-257348/2-A
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.1		mg/Kg		90	80 - 120
Arsenic	50.0	44.9		mg/Kg		90	80 - 120
Barium	50.0	45.9		mg/Kg		92	80 - 120
Beryllium	50.0	45.8		mg/Kg		92	80 - 120
Cadmium	50.0	45.7		mg/Kg		91	80 - 120
Chromium	50.0	46.0		mg/Kg		92	80 - 120
Cobalt	50.0	46.5		mg/Kg		93	80 - 120
Copper	50.0	46.8		mg/Kg		94	80 - 120
Lead	50.0	46.0		mg/Kg		92	80 - 120
Molybdenum	50.0	45.9		mg/Kg		92	80 - 120
Nickel	50.0	46.2		mg/Kg		92	80 - 120
Selenium	50.0	44.1		mg/Kg		88	80 - 120
Silver	25.0	21.4		mg/Kg		86	80 - 120
Thallium	50.0	45.8		mg/Kg		92	80 - 120
Vanadium	50.0	45.2		mg/Kg		90	80 - 120
Zinc	50.0	45.6		mg/Kg		91	80 - 120

Lab Sample ID: 720-90413-A-45-D MS
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1 F2	50.0	14.5	F1	mg/Kg		29	75 - 125
Arsenic	35	F1	50.0	73.8		mg/Kg		77	75 - 125
Barium	36		50.0	79.5		mg/Kg		88	75 - 125
Beryllium	0.14	J	50.0	46.1		mg/Kg		92	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90413-A-45-D MS
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.066	J	50.0	42.0		mg/Kg		84	75 - 125
Chromium	12		50.0	56.2		mg/Kg		89	75 - 125
Cobalt	9.2	F1	50.0	50.0		mg/Kg		82	75 - 125
Copper	47	F1	50.0	94.7		mg/Kg		96	75 - 125
Lead	5.0		50.0	45.8		mg/Kg		82	75 - 125
Molybdenum	0.39	J	50.0	40.3		mg/Kg		80	75 - 125
Nickel	11		50.0	54.1		mg/Kg		86	75 - 125
Selenium	0.85	J B	50.0	41.3		mg/Kg		81	75 - 125
Silver	ND		25.0	21.1		mg/Kg		84	75 - 125
Thallium	ND		50.0	41.3		mg/Kg		83	75 - 125
Vanadium	54		50.0	95.4		mg/Kg		82	75 - 125
Zinc	38	F1	50.0	81.8		mg/Kg		87	75 - 125

Lab Sample ID: 720-90413-A-45-E MSD
Matrix: Solid
Analysis Batch: 257759

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1 F2	49.5	11.4	F1 F2	mg/Kg		23	75 - 125	24	20
Arsenic	35	F1	49.5	67.4	F1	mg/Kg		65	75 - 125	9	20
Barium	36		49.5	77.0		mg/Kg		84	75 - 125	3	20
Beryllium	0.14	J	49.5	46.4		mg/Kg		93	75 - 125	1	20
Cadmium	0.066	J	49.5	39.5		mg/Kg		80	75 - 125	6	20
Chromium	12		49.5	52.3		mg/Kg		81	75 - 125	7	20
Cobalt	9.2	F1	49.5	46.1	F1	mg/Kg		74	75 - 125	8	20
Copper	47	F1	49.5	81.6	F1	mg/Kg		70	75 - 125	15	20
Lead	5.0		49.5	44.0		mg/Kg		79	75 - 125	4	20
Molybdenum	0.39	J	49.5	37.8		mg/Kg		76	75 - 125	7	20
Nickel	11		49.5	48.5		mg/Kg		75	75 - 125	11	20
Selenium	0.85	J B	49.5	40.1		mg/Kg		79	75 - 125	3	20
Silver	ND		24.8	20.4		mg/Kg		82	75 - 125	3	20
Thallium	ND		49.5	39.3		mg/Kg		79	75 - 125	5	20
Vanadium	54		49.5	92.8		mg/Kg		78	75 - 125	3	20
Zinc	38	F1	49.5	68.7	F1	mg/Kg		61	75 - 125	17	20

Lab Sample ID: MB 720-257366/1-A
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Arsenic	ND		1.0	0.085	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Barium	ND		0.50	0.071	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Beryllium	ND		0.10	0.033	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Cadmium	ND		0.13	0.012	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Chromium	ND		0.50	0.053	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Cobalt	ND		0.20	0.020	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Copper	ND		1.5	0.71	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Lead	ND		0.50	0.11	mg/Kg		12/20/18 15:57	12/21/18 10:00	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257366/1-A
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Nickel	ND		0.50	0.051	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Selenium	ND		1.0	0.15	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Silver	ND		0.25	0.051	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Thallium	ND		0.50	0.15	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Vanadium	ND		0.50	0.068	mg/Kg		12/20/18 15:57	12/21/18 10:00	1
Zinc	ND		1.5	0.64	mg/Kg		12/20/18 15:57	12/21/18 10:00	1

Lab Sample ID: LCS 720-257366/2-A
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.2		mg/Kg		96	80 - 120
Arsenic	50.0	48.2		mg/Kg		96	80 - 120
Barium	50.0	48.9		mg/Kg		98	80 - 120
Beryllium	50.0	49.5		mg/Kg		99	80 - 120
Cadmium	50.0	48.5		mg/Kg		97	80 - 120
Chromium	50.0	49.0		mg/Kg		98	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	50.0	49.0		mg/Kg		98	80 - 120
Lead	50.0	49.0		mg/Kg		98	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	49.0		mg/Kg		98	80 - 120
Selenium	50.0	47.1		mg/Kg		94	80 - 120
Silver	25.0	23.1		mg/Kg		92	80 - 120
Thallium	50.0	48.8		mg/Kg		98	80 - 120
Vanadium	50.0	48.5		mg/Kg		97	80 - 120
Zinc	50.0	48.2		mg/Kg		96	80 - 120

Lab Sample ID: 720-90414-8 MS
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: DG-W5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.5	F1	45.9	20.0	F1	mg/Kg		36	75 - 125
Arsenic	400		45.9	420	4	mg/Kg		38	75 - 125
Barium	240		45.9	408	4	mg/Kg		369	75 - 125
Beryllium	0.26	J	45.9	48.5		mg/Kg		105	75 - 125
Cadmium	2.4		45.9	50.3		mg/Kg		105	75 - 125
Chromium	56		45.9	108		mg/Kg		113	75 - 125
Cobalt	7.7		45.9	53.2		mg/Kg		99	75 - 125
Copper	45	F1	45.9	117	F1	mg/Kg		155	75 - 125
Lead	7200	F2	45.9	2020	4	mg/Kg		-11327	75 - 125
Molybdenum	ND		45.9	44.8		mg/Kg		98	75 - 125
Nickel	24		45.9	72.8		mg/Kg		106	75 - 125
Selenium	ND		45.9	45.5		mg/Kg		99	75 - 125
Silver	0.46	J	22.9	24.5		mg/Kg		105	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90414-8 MS
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: DG-W5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		45.9	45.7		mg/Kg		100	75 - 125
Vanadium	36	F1	45.9	86.6		mg/Kg		111	75 - 125
Zinc	780		45.9	1180	4	mg/Kg		889	75 - 125

Lab Sample ID: 720-90414-8 MSD
Matrix: Solid
Analysis Batch: 257457

Client Sample ID: DG-W5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.5	F1	45.9	20.0	F1	mg/Kg		36	75 - 125	0	20
Arsenic	400		45.9	382	4	mg/Kg		-47	75 - 125	10	20
Barium	240		45.9	429	4	mg/Kg		415	75 - 125	5	20
Beryllium	0.26	J	45.9	50.9		mg/Kg		110	75 - 125	5	20
Cadmium	2.4		45.9	52.6		mg/Kg		109	75 - 125	4	20
Chromium	56		45.9	113		mg/Kg		125	75 - 125	5	20
Cobalt	7.7		45.9	56.5		mg/Kg		106	75 - 125	6	20
Copper	45	F1	45.9	110	F1	mg/Kg		141	75 - 125	6	20
Lead	7200	F2	45.9	1230	4 F2	mg/Kg		-1305 0	75 - 125	49	20
Molybdenum	ND		45.9	47.1		mg/Kg		103	75 - 125	5	20
Nickel	24		45.9	77.2		mg/Kg		116	75 - 125	6	20
Selenium	ND		45.9	48.0		mg/Kg		105	75 - 125	5	20
Silver	0.46	J	22.9	25.8		mg/Kg		110	75 - 125	5	20
Thallium	ND		45.9	48.1		mg/Kg		105	75 - 125	5	20
Vanadium	36	F1	45.9	93.5	F1	mg/Kg		126	75 - 125	8	20
Zinc	780		45.9	1110	4	mg/Kg		736	75 - 125	6	20

Lab Sample ID: MB 720-257446/1-A
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Arsenic	ND		1.0	0.085	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Barium	ND		0.50	0.071	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Beryllium	ND		0.10	0.033	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Cadmium	ND		0.13	0.012	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Chromium	ND		0.50	0.053	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Cobalt	ND		0.20	0.020	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Copper	ND		1.5	0.71	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Lead	ND		0.50	0.11	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Nickel	ND		0.50	0.051	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Selenium	ND		1.0	0.15	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Silver	ND		0.25	0.051	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Thallium	ND		0.50	0.15	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Vanadium	ND		0.50	0.068	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Zinc	ND		1.5	0.64	mg/Kg		12/22/18 10:25	12/28/18 16:37	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257446/2-A
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.7		mg/Kg		93	80 - 120
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	50.0	43.8		mg/Kg		88	80 - 120
Beryllium	50.0	47.4		mg/Kg		95	80 - 120
Cadmium	50.0	47.9		mg/Kg		96	80 - 120
Chromium	50.0	47.0		mg/Kg		94	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	50.0	48.8		mg/Kg		98	80 - 120
Lead	50.0	47.8		mg/Kg		96	80 - 120
Molybdenum	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Selenium	50.0	45.5		mg/Kg		91	80 - 120
Silver	25.0	22.2		mg/Kg		89	80 - 120
Thallium	50.0	47.6		mg/Kg		95	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.7		mg/Kg		93	80 - 120

Lab Sample ID: 720-90446-A-1-A MS
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.3	F1	47.6	15.3	F1	mg/Kg		25	75 - 125
Arsenic	20	F1 F2	47.6	68.3		mg/Kg		101	75 - 125
Barium	61	F1 F2	47.6	140	F1	mg/Kg		167	75 - 125
Beryllium	ND		47.6	58.1		mg/Kg		122	75 - 125
Cadmium	1.5		47.6	54.3		mg/Kg		111	75 - 125
Chromium	17		47.6	69.1		mg/Kg		110	75 - 125
Cobalt	10		47.6	63.4		mg/Kg		112	75 - 125
Copper	210	F2	47.6	244	4	mg/Kg		79	75 - 125
Lead	260	F2	47.6	221	4	mg/Kg		-91	75 - 125
Molybdenum	1.2	J	47.6	54.5		mg/Kg		112	75 - 125
Nickel	18		47.6	63.1		mg/Kg		95	75 - 125
Selenium	ND		47.6	52.2		mg/Kg		110	75 - 125
Silver	ND		23.8	26.8		mg/Kg		113	75 - 125
Thallium	ND		47.6	50.5		mg/Kg		106	75 - 125
Vanadium	77	F1	47.6	134		mg/Kg		119	75 - 125
Zinc	230	F2	47.6	222	4	mg/Kg		-9	75 - 125

Lab Sample ID: 720-90446-A-1-B MSD
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.3	F1	47.2	15.2	F1	mg/Kg		25	75 - 125	1	20
Arsenic	20	F1 F2	47.2	101	F1 F2	mg/Kg		172	75 - 125	39	20
Barium	61	F1 F2	47.2	113	F2	mg/Kg		112	75 - 125	21	20
Beryllium	ND		47.2	51.5		mg/Kg		109	75 - 125	12	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90446-A-1-B MSD
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	1.5		47.2	53.0		mg/Kg		109	75 - 125	2	20
Chromium	17		47.2	69.6		mg/Kg		112	75 - 125	1	20
Cobalt	10		47.2	64.6		mg/Kg		116	75 - 125	2	20
Copper	210	F2	47.2	309	4 F2	mg/Kg		217	75 - 125	23	20
Lead	260	F2	47.2	351	4 F2	mg/Kg		184	75 - 125	46	20
Molybdenum	1.2	J	47.2	53.0		mg/Kg		110	75 - 125	3	20
Nickel	18		47.2	68.5		mg/Kg		107	75 - 125	8	20
Selenium	ND		47.2	50.9		mg/Kg		108	75 - 125	2	20
Silver	ND		23.6	24.7		mg/Kg		105	75 - 125	8	20
Thallium	ND		47.2	48.1		mg/Kg		102	75 - 125	5	20
Vanadium	77	F1	47.2	141	F1	mg/Kg		136	75 - 125	5	20
Zinc	230	F2	47.2	294	4 F2	mg/Kg		143	75 - 125	28	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257272/1-A
Matrix: Solid
Analysis Batch: 257942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/19/18 14:09	01/03/19 17:28	1

Lab Sample ID: LCS 720-257272/2-A
Matrix: Solid
Analysis Batch: 257942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.699		mg/Kg		84	80 - 120

Lab Sample ID: 720-90414-8 MS
Matrix: Solid
Analysis Batch: 257942

Client Sample ID: DG-W5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257272

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.66		0.769	1.29		mg/Kg		83	75 - 125

Lab Sample ID: 720-90414-8 MSD
Matrix: Solid
Analysis Batch: 257942

Client Sample ID: DG-W5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257272

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.66		0.725	1.31		mg/Kg		90	75 - 125	2	20

Lab Sample ID: MB 720-257274/1-A
Matrix: Solid
Analysis Batch: 257997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 13:29	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-257274/2-A
Matrix: Solid
Analysis Batch: 257997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.718		mg/Kg		86	80 - 120

Lab Sample ID: 720-90414-13 MS
Matrix: Solid
Analysis Batch: 257997

Client Sample ID: DG-S5S-0.5-1
Prep Type: Total/NA
Prep Batch: 257274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.15		0.704	0.797		mg/Kg		92	75 - 125

Lab Sample ID: 720-90414-13 MSD
Matrix: Solid
Analysis Batch: 257997

Client Sample ID: DG-S5S-0.5-1
Prep Type: Total/NA
Prep Batch: 257274

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.15		0.714	0.756		mg/Kg		85	75 - 125	5	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90250-A-29 DU
Matrix: Solid
Analysis Batch: 257363

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	18.0		18.2		%		1	20

Lab Sample ID: 720-90414-18 DU
Matrix: Solid
Analysis Batch: 257438

Client Sample ID: DG-O5S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.9		15.0		%		6	20

Metals

Prep Batch: 257272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-1	DG-AC5S-0.5-1	Total/NA	Solid	7471A	
720-90414-2	DG-AC5S-3.5-4	Total/NA	Solid	7471A	
720-90414-3	DG-AA5S-0.5-1	Total/NA	Solid	7471A	
720-90414-4	DG-AA5S-3.5-4	Total/NA	Solid	7471A	
720-90414-5	DG-Y5S-0.5-1	Total/NA	Solid	7471A	
720-90414-6	DG-Y5S-3.5-4	Total/NA	Solid	7471A	
720-90414-7	DG-W5S-0.5-1	Total/NA	Solid	7471A	
720-90414-8	DG-W5S-3.5-4	Total/NA	Solid	7471A	
720-90414-9	DUP-30	Total/NA	Solid	7471A	
720-90414-10	DG-W5S-8.5-9	Total/NA	Solid	7471A	
720-90414-11	DG-U5S-0.5-1	Total/NA	Solid	7471A	
MB 720-257272/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257272/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90414-8 MS	DG-W5S-3.5-4	Total/NA	Solid	7471A	
720-90414-8 MSD	DG-W5S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 257274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-12	DG-U5S-3.5-4	Total/NA	Solid	7471A	
720-90414-13	DG-S5S-0.5-1	Total/NA	Solid	7471A	
720-90414-14	DG-S5S-3.5-4	Total/NA	Solid	7471A	
720-90414-15	DG-Q5S-0.5-1	Total/NA	Solid	7471A	
720-90414-16	DG-Q5S-3.5-4	Total/NA	Solid	7471A	
720-90414-17	DG-O5S-0.5-1	Total/NA	Solid	7471A	
720-90414-18	DG-O5S-3.5-4	Total/NA	Solid	7471A	
720-90414-19	DG-N7S-0.5-1	Total/NA	Solid	7471A	
720-90414-20	DG-N7S-3.5-4	Total/NA	Solid	7471A	
720-90414-21	DG-P8S-0.5-1	Total/NA	Solid	7471A	
720-90414-22	DG-P8S-3.5-4	Total/NA	Solid	7471A	
720-90414-23	DG-P7S-0.5-1	Total/NA	Solid	7471A	
720-90414-24	DG-P7S-3.5-4	Total/NA	Solid	7471A	
720-90414-25	DG-P7S-8.5-9	Total/NA	Solid	7471A	
MB 720-257274/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257274/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90414-13 MS	DG-S5S-0.5-1	Total/NA	Solid	7471A	
720-90414-13 MSD	DG-S5S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-1	DG-AC5S-0.5-1	Total/NA	Solid	3050B	
720-90414-2	DG-AC5S-3.5-4	Total/NA	Solid	3050B	
720-90414-3	DG-AA5S-0.5-1	Total/NA	Solid	3050B	
720-90414-4	DG-AA5S-3.5-4	Total/NA	Solid	3050B	
720-90414-5	DG-Y5S-0.5-1	Total/NA	Solid	3050B	
720-90414-6	DG-Y5S-3.5-4	Total/NA	Solid	3050B	
720-90414-7	DG-W5S-0.5-1	Total/NA	Solid	3050B	
720-90414-9	DUP-30	Total/NA	Solid	3050B	
720-90414-10	DG-W5S-8.5-9	Total/NA	Solid	3050B	
720-90414-11	DG-U5S-0.5-1	Total/NA	Solid	3050B	
720-90414-12	DG-U5S-3.5-4	Total/NA	Solid	3050B	
MB 720-257348/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257348 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-257348/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90413-A-45-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-90413-A-45-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-8	DG-W5S-3.5-4	Total/NA	Solid	3050B	
720-90414-13	DG-S5S-0.5-1	Total/NA	Solid	3050B	
720-90414-14	DG-S5S-3.5-4	Total/NA	Solid	3050B	
720-90414-15	DG-Q5S-0.5-1	Total/NA	Solid	3050B	
720-90414-16	DG-Q5S-3.5-4	Total/NA	Solid	3050B	
720-90414-17	DG-O5S-0.5-1	Total/NA	Solid	3050B	
720-90414-18	DG-O5S-3.5-4	Total/NA	Solid	3050B	
720-90414-19	DG-N7S-0.5-1	Total/NA	Solid	3050B	
720-90414-20	DG-N7S-3.5-4	Total/NA	Solid	3050B	
720-90414-21	DG-P8S-0.5-1	Total/NA	Solid	3050B	
720-90414-22	DG-P8S-3.5-4	Total/NA	Solid	3050B	
720-90414-23	DG-P7S-0.5-1	Total/NA	Solid	3050B	
720-90414-24	DG-P7S-3.5-4	Total/NA	Solid	3050B	
MB 720-257366/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257366/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90414-8 MS	DG-W5S-3.5-4	Total/NA	Solid	3050B	
720-90414-8 MSD	DG-W5S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-25	DG-P7S-8.5-9	Total/NA	Solid	3050B	
MB 720-257446/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257446/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90446-A-1-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90446-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 257457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-8	DG-W5S-3.5-4	Total/NA	Solid	6010B	257366
720-90414-13	DG-S5S-0.5-1	Total/NA	Solid	6010B	257366
720-90414-14	DG-S5S-3.5-4	Total/NA	Solid	6010B	257366
720-90414-15	DG-Q5S-0.5-1	Total/NA	Solid	6010B	257366
720-90414-16	DG-Q5S-3.5-4	Total/NA	Solid	6010B	257366
720-90414-17	DG-O5S-0.5-1	Total/NA	Solid	6010B	257366
720-90414-18	DG-O5S-3.5-4	Total/NA	Solid	6010B	257366
720-90414-19	DG-N7S-0.5-1	Total/NA	Solid	6010B	257366
720-90414-20	DG-N7S-3.5-4	Total/NA	Solid	6010B	257366
720-90414-21	DG-P8S-0.5-1	Total/NA	Solid	6010B	257366
720-90414-22	DG-P8S-3.5-4	Total/NA	Solid	6010B	257366
720-90414-23	DG-P7S-0.5-1	Total/NA	Solid	6010B	257366
720-90414-24	DG-P7S-3.5-4	Total/NA	Solid	6010B	257366
MB 720-257366/1-A	Method Blank	Total/NA	Solid	6010B	257366
LCS 720-257366/2-A	Lab Control Sample	Total/NA	Solid	6010B	257366
720-90414-8 MS	DG-W5S-3.5-4	Total/NA	Solid	6010B	257366
720-90414-8 MSD	DG-W5S-3.5-4	Total/NA	Solid	6010B	257366

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Analysis Batch: 257759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-1	DG-AC5S-0.5-1	Total/NA	Solid	6010B	257348
720-90414-2	DG-AC5S-3.5-4	Total/NA	Solid	6010B	257348
720-90414-3	DG-AA5S-0.5-1	Total/NA	Solid	6010B	257348
720-90414-4	DG-AA5S-3.5-4	Total/NA	Solid	6010B	257348
720-90414-5	DG-Y5S-0.5-1	Total/NA	Solid	6010B	257348
720-90414-6	DG-Y5S-3.5-4	Total/NA	Solid	6010B	257348
720-90414-7	DG-W5S-0.5-1	Total/NA	Solid	6010B	257348
720-90414-9	DUP-30	Total/NA	Solid	6010B	257348
720-90414-10	DG-W5S-8.5-9	Total/NA	Solid	6010B	257348
720-90414-11	DG-U5S-0.5-1	Total/NA	Solid	6010B	257348
720-90414-12	DG-U5S-3.5-4	Total/NA	Solid	6010B	257348
MB 720-257348/1-A	Method Blank	Total/NA	Solid	6010B	257348
LCS 720-257348/2-A	Lab Control Sample	Total/NA	Solid	6010B	257348
720-90413-A-45-D MS	Matrix Spike	Total/NA	Solid	6010B	257348
720-90413-A-45-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257348

Analysis Batch: 257788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-25	DG-P7S-8.5-9	Total/NA	Solid	6010B	257446
MB 720-257446/1-A	Method Blank	Total/NA	Solid	6010B	257446
LCS 720-257446/2-A	Lab Control Sample	Total/NA	Solid	6010B	257446
720-90446-A-1-A MS	Matrix Spike	Total/NA	Solid	6010B	257446
720-90446-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257446

Analysis Batch: 257942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-1	DG-AC5S-0.5-1	Total/NA	Solid	7471A	257272
720-90414-2	DG-AC5S-3.5-4	Total/NA	Solid	7471A	257272
720-90414-3	DG-AA5S-0.5-1	Total/NA	Solid	7471A	257272
720-90414-4	DG-AA5S-3.5-4	Total/NA	Solid	7471A	257272
720-90414-5	DG-Y5S-0.5-1	Total/NA	Solid	7471A	257272
720-90414-6	DG-Y5S-3.5-4	Total/NA	Solid	7471A	257272
720-90414-7	DG-W5S-0.5-1	Total/NA	Solid	7471A	257272
720-90414-8	DG-W5S-3.5-4	Total/NA	Solid	7471A	257272
720-90414-9	DUP-30	Total/NA	Solid	7471A	257272
720-90414-10	DG-W5S-8.5-9	Total/NA	Solid	7471A	257272
720-90414-11	DG-U5S-0.5-1	Total/NA	Solid	7471A	257272
MB 720-257272/1-A	Method Blank	Total/NA	Solid	7471A	257272
LCS 720-257272/2-A	Lab Control Sample	Total/NA	Solid	7471A	257272
720-90414-8 MS	DG-W5S-3.5-4	Total/NA	Solid	7471A	257272
720-90414-8 MSD	DG-W5S-3.5-4	Total/NA	Solid	7471A	257272

Analysis Batch: 257997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-12	DG-U5S-3.5-4	Total/NA	Solid	7471A	257274
720-90414-13	DG-S5S-0.5-1	Total/NA	Solid	7471A	257274
720-90414-14	DG-S5S-3.5-4	Total/NA	Solid	7471A	257274
720-90414-15	DG-Q5S-0.5-1	Total/NA	Solid	7471A	257274
720-90414-16	DG-Q5S-3.5-4	Total/NA	Solid	7471A	257274
720-90414-17	DG-O5S-0.5-1	Total/NA	Solid	7471A	257274
720-90414-18	DG-O5S-3.5-4	Total/NA	Solid	7471A	257274
720-90414-19	DG-N7S-0.5-1	Total/NA	Solid	7471A	257274
720-90414-20	DG-N7S-3.5-4	Total/NA	Solid	7471A	257274

Metals (Continued)

Analysis Batch: 257997 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-21	DG-P8S-0.5-1	Total/NA	Solid	7471A	257274
720-90414-22	DG-P8S-3.5-4	Total/NA	Solid	7471A	257274
720-90414-23	DG-P7S-0.5-1	Total/NA	Solid	7471A	257274
720-90414-24	DG-P7S-3.5-4	Total/NA	Solid	7471A	257274
720-90414-25	DG-P7S-8.5-9	Total/NA	Solid	7471A	257274
MB 720-257274/1-A	Method Blank	Total/NA	Solid	7471A	257274
LCS 720-257274/2-A	Lab Control Sample	Total/NA	Solid	7471A	257274
720-90414-13 MS	DG-S5S-0.5-1	Total/NA	Solid	7471A	257274
720-90414-13 MSD	DG-S5S-0.5-1	Total/NA	Solid	7471A	257274

General Chemistry

Analysis Batch: 257363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-1	DG-AC5S-0.5-1	Total/NA	Solid	Moisture	
720-90414-2	DG-AC5S-3.5-4	Total/NA	Solid	Moisture	
720-90414-3	DG-AA5S-0.5-1	Total/NA	Solid	Moisture	
720-90414-4	DG-AA5S-3.5-4	Total/NA	Solid	Moisture	
720-90414-5	DG-Y5S-0.5-1	Total/NA	Solid	Moisture	
720-90414-6	DG-Y5S-3.5-4	Total/NA	Solid	Moisture	
720-90414-7	DG-W5S-0.5-1	Total/NA	Solid	Moisture	
720-90414-8	DG-W5S-3.5-4	Total/NA	Solid	Moisture	
720-90414-9	DUP-30	Total/NA	Solid	Moisture	
720-90414-10	DG-W5S-8.5-9	Total/NA	Solid	Moisture	
720-90414-11	DG-U5S-0.5-1	Total/NA	Solid	Moisture	
720-90414-12	DG-U5S-3.5-4	Total/NA	Solid	Moisture	
720-90414-13	DG-S5S-0.5-1	Total/NA	Solid	Moisture	
720-90414-14	DG-S5S-3.5-4	Total/NA	Solid	Moisture	
720-90414-15	DG-Q5S-0.5-1	Total/NA	Solid	Moisture	
720-90414-16	DG-Q5S-3.5-4	Total/NA	Solid	Moisture	
720-90414-17	DG-O5S-0.5-1	Total/NA	Solid	Moisture	
720-90250-A-29 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90414-18	DG-O5S-3.5-4	Total/NA	Solid	Moisture	
720-90414-19	DG-N7S-0.5-1	Total/NA	Solid	Moisture	
720-90414-20	DG-N7S-3.5-4	Total/NA	Solid	Moisture	
720-90414-21	DG-P8S-0.5-1	Total/NA	Solid	Moisture	
720-90414-22	DG-P8S-3.5-4	Total/NA	Solid	Moisture	
720-90414-23	DG-P7S-0.5-1	Total/NA	Solid	Moisture	
720-90414-24	DG-P7S-3.5-4	Total/NA	Solid	Moisture	
720-90414-25	DG-P7S-8.5-9	Total/NA	Solid	Moisture	
720-90414-18 DU	DG-O5S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-AC5S-0.5-1

Lab Sample ID: 720-90414-1

Date Collected: 12/18/18 08:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:42	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-AC5S-3.5-4

Lab Sample ID: 720-90414-2

Date Collected: 12/18/18 08:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:46	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-AA5S-0.5-1

Lab Sample ID: 720-90414-3

Date Collected: 12/18/18 08:50

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:51	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-AA5S-3.5-4

Lab Sample ID: 720-90414-4

Date Collected: 12/18/18 08:50

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 13:56	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-Y5S-0.5-1

Lab Sample ID: 720-90414-5

Date Collected: 12/18/18 11:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 14:00	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-Y5S-3.5-4

Lab Sample ID: 720-90414-6

Date Collected: 12/18/18 11:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 14:14	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-W5S-0.5-1

Lab Sample ID: 720-90414-7

Date Collected: 12/18/18 11:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 14:19	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-W5S-3.5-4

Lab Sample ID: 720-90414-8

Date Collected: 12/18/18 11:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 10:27	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 17:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Client Sample ID: DUP-30
Date Collected: 12/18/18 11:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 14:23	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-W5S-8.5-9
Date Collected: 12/18/18 11:40
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 14:28	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-U5S-0.5-1
Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 14:33	BKR	TAL PLS
Total/NA	Prep	7471A			257272	12/19/18 14:09	SUN	TAL PLS
Total/NA	Analysis	7471A		1	257942	01/03/19 18:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-U5S-3.5-4
Date Collected: 12/18/18 13:15
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257348	12/26/18 15:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257759	12/28/18 14:37	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 13:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-S5S-0.5-1

Lab Sample ID: 720-90414-13

Date Collected: 12/18/18 13:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:09	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 13:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-S5S-3.5-4

Lab Sample ID: 720-90414-14

Date Collected: 12/18/18 13:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:14	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 13:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-Q5S-0.5-1

Lab Sample ID: 720-90414-15

Date Collected: 12/18/18 13:40

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:18	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 13:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-Q5S-3.5-4

Lab Sample ID: 720-90414-16

Date Collected: 12/18/18 13:40

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:23	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 13:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-O5S-0.5-1

Lab Sample ID: 720-90414-17

Date Collected: 12/18/18 14:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:27	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 13:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257363	12/20/18 13:31	TNL	TAL PLS

Client Sample ID: DG-O5S-3.5-4

Lab Sample ID: 720-90414-18

Date Collected: 12/18/18 14:15

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:32	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 13:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-N7S-0.5-1

Lab Sample ID: 720-90414-19

Date Collected: 12/18/18 14:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:37	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-N7S-3.5-4

Lab Sample ID: 720-90414-20

Date Collected: 12/18/18 14:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:50	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-P8S-0.5-1

Lab Sample ID: 720-90414-21

Date Collected: 12/18/18 14:45

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 11:55	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-P8S-3.5-4

Lab Sample ID: 720-90414-22

Date Collected: 12/18/18 14:45

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 12:00	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-P7S-0.5-1

Lab Sample ID: 720-90414-23

Date Collected: 12/18/18 15:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 12:04	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-P7S-3.5-4

Lab Sample ID: 720-90414-24

Date Collected: 12/18/18 15:30

Matrix: Solid

Date Received: 12/18/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257366	12/20/18 15:57	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257457	12/21/18 12:09	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Client Sample ID: DG-P7S-8.5-9
Date Collected: 12/18/18 15:30
Date Received: 12/18/18 19:10

Lab Sample ID: 720-90414-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:10	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90414-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90414-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90414-1	DG-AC5S-0.5-1	Solid	12/18/18 08:30	12/18/18 19:10
720-90414-2	DG-AC5S-3.5-4	Solid	12/18/18 08:30	12/18/18 19:10
720-90414-3	DG-AA5S-0.5-1	Solid	12/18/18 08:50	12/18/18 19:10
720-90414-4	DG-AA5S-3.5-4	Solid	12/18/18 08:50	12/18/18 19:10
720-90414-5	DG-Y5S-0.5-1	Solid	12/18/18 11:15	12/18/18 19:10
720-90414-6	DG-Y5S-3.5-4	Solid	12/18/18 11:15	12/18/18 19:10
720-90414-7	DG-W5S-0.5-1	Solid	12/18/18 11:30	12/18/18 19:10
720-90414-8	DG-W5S-3.5-4	Solid	12/18/18 11:30	12/18/18 19:10
720-90414-9	DUP-30	Solid	12/18/18 11:30	12/18/18 19:10
720-90414-10	DG-W5S-8.5-9	Solid	12/18/18 11:40	12/18/18 19:10
720-90414-11	DG-U5S-0.5-1	Solid	12/18/18 13:15	12/18/18 19:10
720-90414-12	DG-U5S-3.5-4	Solid	12/18/18 13:15	12/18/18 19:10
720-90414-13	DG-S5S-0.5-1	Solid	12/18/18 13:30	12/18/18 19:10
720-90414-14	DG-S5S-3.5-4	Solid	12/18/18 13:30	12/18/18 19:10
720-90414-15	DG-Q5S-0.5-1	Solid	12/18/18 13:40	12/18/18 19:10
720-90414-16	DG-Q5S-3.5-4	Solid	12/18/18 13:40	12/18/18 19:10
720-90414-17	DG-O5S-0.5-1	Solid	12/18/18 14:15	12/18/18 19:10
720-90414-18	DG-O5S-3.5-4	Solid	12/18/18 14:15	12/18/18 19:10
720-90414-19	DG-N7S-0.5-1	Solid	12/18/18 14:30	12/18/18 19:10
720-90414-20	DG-N7S-3.5-4	Solid	12/18/18 14:30	12/18/18 19:10
720-90414-21	DG-P8S-0.5-1	Solid	12/18/18 14:45	12/18/18 19:10
720-90414-22	DG-P8S-3.5-4	Solid	12/18/18 14:45	12/18/18 19:10
720-90414-23	DG-P7S-0.5-1	Solid	12/18/18 15:30	12/18/18 19:10
720-90414-24	DG-P7S-3.5-4	Solid	12/18/18 15:30	12/18/18 19:10
720-90414-25	DG-P7S-8.5-9	Solid	12/18/18 15:30	12/18/18 19:10

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90414

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

B74446

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No: 1
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90414 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471A)	Sample Specific Notes:
1	DG-AC5S-0.5-1	12/18/18	0830	G	S	1	N		X	
2	DG-AC5S-3.5-4		0830							
3	DG-AA5S-0.5-1		0850							
4	DG-AA5S-3.5-4		0850							
5	DG-Y5S-0.5-1		1115							
6	DG-Y5S-3.5-4		1115							
7	DG-W5S-0.5-1		1130							
8	DG-W5S-3.5-4		1130					X		
9	DUP-30		1130							
10	DG-W5S-9		1140							
11	DG-U5S-0.5-1		1315							
12	DG-U5S-3.5-4	↓	1315	↓	↓	↓	↓		↓	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

1.2, 5.0, 2.9, 3.9, 4.3, 1.8, 2.8°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: Mad	Company: Geosyntec	Date/Time: 12/18/18 1600	Received by:	Company: TAPLS	Date/Time: 12/18/18 1600
Relinquished by:	Company: TAPLS	Date/Time: 12/18/18 1910	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12/18/18 19:10

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/7/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90414

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

187446

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No: 2
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes:
13	DG-S5S-0.5-1	12/18/18	1330	G	S	1	N		X	
14	DG-S5S-3.5-4		1330							
15	DG-Q5S-0.5-1		1340							
16	DG-Q5S-3.5-4		1340							
17	DG-O5S-0.5-1		1415							
18	DG-O5S-3.5-4		1415							
19	~~DG~~ DG-N7S-0.5-1		1430							
20	DG-N7S-3.5-4		1430							
21	DG-P8S-0.5-1		1445							
22	DG-P8S-3.5-4		1445							
23	DG-D7S-0.5-1		1530							
24	DG-D7S-3.5-4	↓	1530	↓	↓	↓	↓		↓	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd.	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 12/18/18 1600	Received by:	Company: TAPLS	Date/Time: 12/18/18 1600
Relinquished by:	Company: TAPLS	Date/Time: 12/18/18 1910	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/7/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90414

Chain of Custody Record

187446

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No: 3
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes:
25 DG-PTS-9	12/18/18	1530	G	S	1	N		X	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd. _____ Therm ID No.: _____		
Relinquished by: Madel Dorry	Company: Geosyntec	Date/Time: 12/18/18 1600	Received by:	Company: TAPLS	Date/Time: 12/18/18 1600
Relinquished by:	Company: TAPLS	Date/Time: 12/18/18 1910	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12/18/18 19:10

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/7/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90414-1

Login Number: 90414
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, December 20, 2018 9:49 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90414-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

That is correct, should be 3 of 3. For sample IDs, please revise the following:

- Sample 10: change from DG-W5S-9 to DG-W5S-**8.5-9**
- Sample 25: change from DG-P7S-9 to DG-P7S-**8.5-9**

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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Geosyntec consultants
engineers | scientists | innovators

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Wednesday, December 19, 2018 10:06 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90414-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90414-1; Brisbane OU-2 Data Gap Investigation

Page 3 of the COC is listed as "1 of 3" in the upper right hand corner of the document. Please confirm that this is incorrect.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [489715]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90444-1
Client Project/Site: Brisbane OU2

For:
Geosyntec Consultants, Inc.
1111 Broadway
6th Floor
Oakland, California 94607

Attn: Mr. Tony Smith

Authorized for release by:
1/9/2019 5:00:48 PM
Afsaneh Salimpour, Senior Project Manager
afsaneh.salimpour@testamericainc.com

Designee for

Micah Smith, Project Manager II
(925)484-1919
micah.smith@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90444-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90444-1

Comments
No additional comments.

Receipt
The samples were received on 12/19/2018 7:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.8º C, 1.0º C and 1.6º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): TB-2. The container labels list TB-1 time 08:00 12/19/18, while the COC lists TB-2 time 08:00 12/19/18.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 3010A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 7: KMW-7A (720-90444-7). The sample was preserved to the appropriate pH in the laboratory.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-257642 was outside control limits for Ba-11%: (320-46304-A-1-C SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 720-257384.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 720-257452.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with prep batch 720-257531.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with prep batch 720-257618.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: MW-10A — Lab Sample ID: 720-90444-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	230		48		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		95		ug/L	1		8015B	Total/NA
Arsenic	0.064		0.010		mg/L	1		6010B	Total/NA
Barium	0.093		0.010		mg/L	1		6010B	Total/NA
Cobalt	0.0043		0.0020		mg/L	1		6010B	Total/NA

Client Sample ID: MK-8A — Lab Sample ID: 720-90444-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.98		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Barium	0.052		0.010		mg/L	1		6010B	Total/NA
Copper	0.023		0.020		mg/L	1		6010B	Total/NA
Nickel	0.019		0.010		mg/L	1		6010B	Total/NA
Zinc	0.67		0.020		mg/L	1		6010B	Total/NA

Client Sample ID: LF-7A — Lab Sample ID: 720-90444-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	99		47		ug/L	1		8015B	Total/NA
Barium	0.58		0.010		mg/L	1		6010B	Total/NA
Zinc	0.055		0.020		mg/L	1		6010B	Total/NA

Client Sample ID: LF-5A — Lab Sample ID: 720-90444-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	420		47		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	400		94		ug/L	1		8015B	Total/NA
Barium	0.72		0.010		mg/L	1		6010B	Total/NA

Client Sample ID: LF-8A — Lab Sample ID: 720-90444-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	4900		49		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1400		98		ug/L	1		8015B	Total/NA
Arsenic	0.013		0.010		mg/L	1		6010B	Total/NA
Barium	1.8		0.010		mg/L	1		6010B	Total/NA
Lead	0.0094		0.0050		mg/L	1		6010B	Total/NA
Cr (VI)	0.014		0.010		mg/L	1		7196A	Total/NA

Client Sample ID: MK-7A — Lab Sample ID: 720-90444-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	190		48		ug/L	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MK-7A (Continued) — Lab Sample ID: 720-90444-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	140		97		ug/L	1		8015B	Total/NA
Barium	0.32		0.010		mg/L	1		6010B	Total/NA
Cobalt	0.0021		0.0020		mg/L	1		6010B	Total/NA
Copper	0.025		0.020		mg/L	1		6010B	Total/NA
Zinc	0.088		0.020		mg/L	1		6010B	Total/NA

Client Sample ID: KMW-7A — Lab Sample ID: 720-90444-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	6.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	350		47		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	230		94		ug/L	1		8015B	Total/NA
Arsenic	0.041		0.010		mg/L	1		6010B	Total/NA
Barium	0.17		0.010		mg/L	1		6010B	Total/NA
Cobalt	0.0087		0.0020		mg/L	1		6010B	Total/NA
Nickel	0.011		0.010		mg/L	1		6010B	Total/NA

Client Sample ID: TB-2 — Lab Sample ID: 720-90444-8

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: MW-10A
Date Collected: 12/19/18 08:52
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**3.3**		0.50		ug/L			12/20/18 15:37	1
Acetone	ND		50		ug/L			12/20/18 15:37	1
Benzene	ND		0.50		ug/L			12/20/18 15:37	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 15:37	1
Bromobenzene	ND		1.0		ug/L			12/20/18 15:37	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 15:37	1
Bromoform	ND		1.0		ug/L			12/20/18 15:37	1
Bromomethane	ND		1.0		ug/L			12/20/18 15:37	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 15:37	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 15:37	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 15:37	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 15:37	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 15:37	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 15:37	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 15:37	1
Chloroethane	ND		1.0		ug/L			12/20/18 15:37	1
Chloroform	ND		1.0		ug/L			12/20/18 15:37	1
Chloromethane	ND		1.0		ug/L			12/20/18 15:37	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 15:37	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 15:37	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 15:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 15:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 15:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 15:37	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 15:37	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 15:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 15:37	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 15:37	1
Dibromomethane	ND		0.50		ug/L			12/20/18 15:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 15:37	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 15:37	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 15:37	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 15:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 15:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 15:37	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 15:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 15:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 15:37	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 15:37	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 15:37	1
2-Hexanone	ND		50		ug/L			12/20/18 15:37	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 15:37	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 15:37	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 15:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 15:37	1
Naphthalene	ND		1.0		ug/L			12/20/18 15:37	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 15:37	1
Styrene	ND		0.50		ug/L			12/20/18 15:37	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 15:37	1

Client Sample ID: MW-10A
Date Collected: 12/19/18 08:52
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 15:37	1
Tetrachloroethene	ND		0.50		ug/L			12/20/18 15:37	1
Toluene	ND		0.50		ug/L			12/20/18 15:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 15:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 15:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 15:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 15:37	1
Trichloroethene	ND		0.50		ug/L			12/20/18 15:37	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 15:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 15:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 15:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 15:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 15:37	1
Vinyl acetate	ND		10		ug/L			12/20/18 15:37	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 15:37	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 15:37	1
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 15:37	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*12/20/18 15:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*12/20/18 15:37*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/20/18 15:37*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2-Chlorophenol	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Benzyl alcohol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2-Methylphenol	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Methylphenol, 3 & 4	ND		7.7		ug/L		12/21/18 18:31	12/21/18 22:25	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Isophorone	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Bis(2-chloroethoxy)methane	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
2,4-Dichlorophenol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Naphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
4-Chloro-3-methylphenol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: MW-10A
Date Collected: 12/19/18 08:52
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:25	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2,4,5-Trichlorophenol	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2-Chloronaphthalene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2-Nitroaniline	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:25	1
Dimethyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
Acenaphthylene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
3-Nitroaniline	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
Acenaphthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 18:31	12/21/18 22:25	1
4-Nitrophenol	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:25	1
Dibenzofuran	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2,4-Dinitrotoluene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
2,6-Dinitrotoluene	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
Diethyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
4-Chlorophenyl phenyl ether	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
Fluorene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
4-Nitroaniline	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:25	1
2-Methyl-4,6-dinitrophenol	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:25	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
4-Bromophenyl phenyl ether	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Pentachlorophenol	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:25	1
Phenanthrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Di-n-butyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
Fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Butyl benzyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
3,3'-Dichlorobenzidine	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
Benzo[a]anthracene	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
Bis(2-ethylhexyl) phthalate	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:25	1
Chrysene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Di-n-octyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:25	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Benzoic acid	ND		19		ug/L		12/21/18 18:31	12/21/18 22:25	1
Azobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*68*		*11 - 92*	*12/21/18 18:31*	*12/21/18 22:25*	*1*
2-Fluorobiphenyl	*82*		*10 - 101*	*12/21/18 18:31*	*12/21/18 22:25*	*1*
Terphenyl-d14	*86*		*34 - 128*	*12/21/18 18:31*	*12/21/18 22:25*	*1*
2-Fluorophenol	*34*		*10 - 65*	*12/21/18 18:31*	*12/21/18 22:25*	*1*
Phenol-d5	*24*		*10 - 46*	*12/21/18 18:31*	*12/21/18 22:25*	*1*

Client Sample ID: MW-10A

Date Collected: 12/19/18 08:52
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-1

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*17 - 115*	*12/21/18 18:31*	*12/21/18 22:25*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**230**		48		ug/L		12/20/18 16:30	12/21/18 15:46	1
Motor Oil Range Organics [C24-C36]	**150**		95		ug/L		12/20/18 16:30	12/21/18 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*88*		*23 - 156*	*12/20/18 16:30*	*12/21/18 15:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:33	1
Arsenic	**0.064**		0.010		mg/L		12/26/18 07:43	12/26/18 19:33	1
Barium	**0.093**		0.010		mg/L		12/26/18 07:43	12/26/18 19:33	1
Beryllium	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:33	1
Cadmium	ND		0.0025		mg/L		12/26/18 07:43	12/26/18 19:33	1
Chromium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:33	1
Cobalt	**0.0043**		0.0020		mg/L		12/26/18 07:43	12/26/18 19:33	1
Copper	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:33	1
Lead	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:33	1
Molybdenum	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:33	1
Nickel	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:33	1
Selenium	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:33	1
Silver	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:33	1
Thallium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:33	1
Vanadium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:33	1
Zinc	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/03/19 19:52	01/04/19 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/19/18 22:14	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: MK-8A
Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/20/18 16:06	1
Acetone	ND		50		ug/L			12/20/18 16:06	1
Benzene	ND		0.50		ug/L			12/20/18 16:06	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 16:06	1
Bromobenzene	ND		1.0		ug/L			12/20/18 16:06	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 16:06	1
Bromoform	ND		1.0		ug/L			12/20/18 16:06	1
Bromomethane	ND		1.0		ug/L			12/20/18 16:06	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 16:06	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 16:06	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 16:06	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 16:06	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 16:06	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 16:06	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 16:06	1
Chloroethane	ND		1.0		ug/L			12/20/18 16:06	1
Chloroform	ND		1.0		ug/L			12/20/18 16:06	1
Chloromethane	ND		1.0		ug/L			12/20/18 16:06	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 16:06	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 16:06	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 16:06	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 16:06	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 16:06	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 16:06	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 16:06	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 16:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 16:06	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 16:06	1
Dibromomethane	ND		0.50		ug/L			12/20/18 16:06	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 16:06	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 16:06	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 16:06	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 16:06	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 16:06	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 16:06	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 16:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 16:06	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 16:06	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 16:06	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 16:06	1
2-Hexanone	ND		50		ug/L			12/20/18 16:06	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 16:06	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 16:06	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 16:06	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 16:06	1
Naphthalene	ND		1.0		ug/L			12/20/18 16:06	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 16:06	1
Styrene	ND		0.50		ug/L			12/20/18 16:06	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 16:06	1

Client Sample ID: MK-8A
Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 16:06	1
Tetrachloroethene	**0.98**		0.50		ug/L			12/20/18 16:06	1
Toluene	ND		0.50		ug/L			12/20/18 16:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 16:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 16:06	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 16:06	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 16:06	1
Trichloroethene	ND		0.50		ug/L			12/20/18 16:06	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 16:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 16:06	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 16:06	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 16:06	1
Vinyl acetate	ND		10		ug/L			12/20/18 16:06	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 16:06	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 16:06	1
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 16:06	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*12/20/18 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*12/20/18 16:06*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/20/18 16:06*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2-Chlorophenol	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Benzyl alcohol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2-Methylphenol	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Methylphenol, 3 & 4	ND		7.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Isophorone	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Bis(2-chloroethoxy)methane	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
2,4-Dichlorophenol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Naphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
4-Chloro-3-methylphenol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: MK-8A
Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:47	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2,4,5-Trichlorophenol	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2-Chloronaphthalene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2-Nitroaniline	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:47	1
Dimethyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
Acenaphthylene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
3-Nitroaniline	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
Acenaphthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 18:31	12/21/18 22:47	1
4-Nitrophenol	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:47	1
Dibenzofuran	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2,4-Dinitrotoluene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
2,6-Dinitrotoluene	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
Diethyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
4-Chlorophenyl phenyl ether	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
Fluorene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
4-Nitroaniline	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:47	1
2-Methyl-4,6-dinitrophenol	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:47	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
4-Bromophenyl phenyl ether	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Pentachlorophenol	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:47	1
Phenanthrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Di-n-butyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
Fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Butyl benzyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
3,3'-Dichlorobenzidine	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
Benzo[a]anthracene	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
Bis(2-ethylhexyl) phthalate	ND		9.7		ug/L		12/21/18 18:31	12/21/18 22:47	1
Chrysene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Di-n-octyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 22:47	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Benzoic acid	ND		19		ug/L		12/21/18 18:31	12/21/18 22:47	1
Azobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*69*		*11 - 92*	*12/21/18 18:31*	*12/21/18 22:47*	*1*
2-Fluorobiphenyl	*80*		*10 - 101*	*12/21/18 18:31*	*12/21/18 22:47*	*1*
Terphenyl-d14	*88*		*34 - 128*	*12/21/18 18:31*	*12/21/18 22:47*	*1*
2-Fluorophenol	*34*		*10 - 65*	*12/21/18 18:31*	*12/21/18 22:47*	*1*
Phenol-d5	*23*		*10 - 46*	*12/21/18 18:31*	*12/21/18 22:47*	*1*

Client Sample ID: MK-8A

Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-2

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*17 - 115*	*12/21/18 18:31*	*12/21/18 22:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		49		ug/L		12/20/18 16:30	12/21/18 16:10	1
Motor Oil Range Organics [C24-C36]	ND		98		ug/L		12/20/18 16:30	12/21/18 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*81*		*23 - 156*	*12/20/18 16:30*	*12/21/18 16:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:38	1
Arsenic	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:38	1
Barium	**0.052**		0.010		mg/L		12/26/18 07:43	12/26/18 19:38	1
Beryllium	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:38	1
Cadmium	ND		0.0025		mg/L		12/26/18 07:43	12/26/18 19:38	1
Chromium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:38	1
Cobalt	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:38	1
Copper	**0.023**		0.020		mg/L		12/26/18 07:43	12/26/18 19:38	1
Lead	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:38	1
Molybdenum	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:38	1
Nickel	**0.019**		0.010		mg/L		12/26/18 07:43	12/26/18 19:38	1
Selenium	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:38	1
Silver	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:38	1
Thallium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:38	1
Vanadium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:38	1
Zinc	**0.67**		0.020		mg/L		12/26/18 07:43	12/26/18 19:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/03/19 19:52	01/04/19 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/19/18 22:14	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: LF-7A
Date Collected: 12/19/18 11:14
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**2.0**		0.50		ug/L			12/20/18 16:35	1
Acetone	ND		50		ug/L			12/20/18 16:35	1
Benzene	ND		0.50		ug/L			12/20/18 16:35	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 16:35	1
Bromobenzene	ND		1.0		ug/L			12/20/18 16:35	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 16:35	1
Bromoform	ND		1.0		ug/L			12/20/18 16:35	1
Bromomethane	ND		1.0		ug/L			12/20/18 16:35	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 16:35	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 16:35	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 16:35	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 16:35	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 16:35	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 16:35	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 16:35	1
Chloroethane	ND		1.0		ug/L			12/20/18 16:35	1
Chloroform	ND		1.0		ug/L			12/20/18 16:35	1
Chloromethane	ND		1.0		ug/L			12/20/18 16:35	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 16:35	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 16:35	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 16:35	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 16:35	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 16:35	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 16:35	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 16:35	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 16:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 16:35	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 16:35	1
Dibromomethane	ND		0.50		ug/L			12/20/18 16:35	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 16:35	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 16:35	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 16:35	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 16:35	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 16:35	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 16:35	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 16:35	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 16:35	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 16:35	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 16:35	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 16:35	1
2-Hexanone	ND		50		ug/L			12/20/18 16:35	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 16:35	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 16:35	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 16:35	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 16:35	1
Naphthalene	ND		1.0		ug/L			12/20/18 16:35	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 16:35	1
Styrene	ND		0.50		ug/L			12/20/18 16:35	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 16:35	1

Client Sample ID: LF-7A
Date Collected: 12/19/18 11:14
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 16:35	1
Tetrachloroethene	ND		0.50		ug/L			12/20/18 16:35	1
Toluene	ND		0.50		ug/L			12/20/18 16:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 16:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 16:35	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 16:35	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 16:35	1
Trichloroethene	ND		0.50		ug/L			12/20/18 16:35	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 16:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 16:35	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 16:35	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 16:35	1
Vinyl acetate	ND		10		ug/L			12/20/18 16:35	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 16:35	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 16:35	1
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 16:35	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/20/18 16:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*12/20/18 16:35*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/20/18 16:35*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
2-Chlorophenol	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Benzyl alcohol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
2-Methylphenol	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Methylphenol, 3 & 4	ND		7.6		ug/L		12/21/18 18:31	12/21/18 23:09	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Isophorone	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Bis(2-chloroethoxy)methane	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
2,4-Dichlorophenol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Naphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
4-Chloro-3-methylphenol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1

Client Sample ID: LF-7A
Date Collected: 12/19/18 11:14
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.5		ug/L		12/21/18 18:31	12/21/18 23:09	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
2,4,5-Trichlorophenol	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
2-Chloronaphthalene	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
2-Nitroaniline	ND		9.5		ug/L		12/21/18 18:31	12/21/18 23:09	1
Dimethyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Acenaphthylene	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
3-Nitroaniline	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Acenaphthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 18:31	12/21/18 23:09	1
4-Nitrophenol	ND		9.5		ug/L		12/21/18 18:31	12/21/18 23:09	1
Dibenzofuran	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
2,4-Dinitrotoluene	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
2,6-Dinitrotoluene	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Diethyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
4-Chlorophenyl phenyl ether	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Fluorene	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
4-Nitroaniline	ND		9.5		ug/L		12/21/18 18:31	12/21/18 23:09	1
2-Methyl-4,6-dinitrophenol	ND		9.5		ug/L		12/21/18 18:31	12/21/18 23:09	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
4-Bromophenyl phenyl ether	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Pentachlorophenol	ND		9.5		ug/L		12/21/18 18:31	12/21/18 23:09	1
Phenanthrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Di-n-butyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Butyl benzyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
3,3'-Dichlorobenzidine	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Benzo[a]anthracene	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		12/21/18 18:31	12/21/18 23:09	1
Chrysene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Di-n-octyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:09	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Benzoic acid	ND		19		ug/L		12/21/18 18:31	12/21/18 23:09	1
Azobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*70*		*11 - 92*	*12/21/18 18:31*	*12/21/18 23:09*	*1*
2-Fluorobiphenyl	*81*		*10 - 101*	*12/21/18 18:31*	*12/21/18 23:09*	*1*
Terphenyl-d14	*81*		*34 - 128*	*12/21/18 18:31*	*12/21/18 23:09*	*1*
2-Fluorophenol	*35*		*10 - 65*	*12/21/18 18:31*	*12/21/18 23:09*	*1*
Phenol-d5	*24*		*10 - 46*	*12/21/18 18:31*	*12/21/18 23:09*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: LF-7A
Date Collected: 12/19/18 11:14
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*17 - 115*	*12/21/18 18:31*	*12/21/18 23:09*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**99**		47		ug/L		12/20/18 16:30	12/21/18 16:34	1
Motor Oil Range Organics [C24-C36]	ND		94		ug/L		12/20/18 16:30	12/21/18 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*23 - 156*	*12/20/18 16:30*	*12/21/18 16:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:43	1
Arsenic	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:43	1
Barium	**0.58**		0.010		mg/L		12/26/18 07:43	12/26/18 19:43	1
Beryllium	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:43	1
Cadmium	ND		0.0025		mg/L		12/26/18 07:43	12/26/18 19:43	1
Chromium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:43	1
Cobalt	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:43	1
Copper	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:43	1
Lead	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:43	1
Molybdenum	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:43	1
Nickel	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:43	1
Selenium	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:43	1
Silver	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:43	1
Thallium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:43	1
Vanadium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:43	1
Zinc	**0.055**		0.020		mg/L		12/26/18 07:43	12/26/18 19:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/03/19 19:52	01/04/19 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/19/18 22:14	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: LF-5A
Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/20/18 14:56	1
Acetone	ND		50		ug/L			12/20/18 14:56	1
Benzene	ND		0.50		ug/L			12/20/18 14:56	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 14:56	1
Bromobenzene	ND		1.0		ug/L			12/20/18 14:56	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 14:56	1
Bromoform	ND		1.0		ug/L			12/20/18 14:56	1
Bromomethane	ND		1.0		ug/L			12/20/18 14:56	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 14:56	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 14:56	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 14:56	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 14:56	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 14:56	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 14:56	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 14:56	1
Chloroethane	ND		1.0		ug/L			12/20/18 14:56	1
Chloroform	ND		1.0		ug/L			12/20/18 14:56	1
Chloromethane	ND		1.0		ug/L			12/20/18 14:56	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 14:56	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 14:56	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 14:56	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 14:56	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 14:56	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 14:56	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 14:56	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 14:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 14:56	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 14:56	1
Dibromomethane	ND		0.50		ug/L			12/20/18 14:56	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 14:56	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 14:56	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 14:56	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 14:56	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 14:56	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 14:56	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 14:56	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 14:56	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 14:56	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 14:56	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 14:56	1
2-Hexanone	ND		50		ug/L			12/20/18 14:56	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 14:56	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 14:56	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 14:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 14:56	1
Naphthalene	ND		1.0		ug/L			12/20/18 14:56	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 14:56	1
Styrene	ND		0.50		ug/L			12/20/18 14:56	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 14:56	1

Client Sample ID: LF-5A
Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 14:56	1
Tetrachloroethene	ND		0.50		ug/L			12/20/18 14:56	1
Toluene	ND		0.50		ug/L			12/20/18 14:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 14:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 14:56	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 14:56	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 14:56	1
Trichloroethene	ND		0.50		ug/L			12/20/18 14:56	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 14:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 14:56	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 14:56	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 14:56	1
Vinyl acetate	ND		10		ug/L			12/20/18 14:56	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 14:56	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 14:56	1
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 14:56	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*12/20/18 14:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*		*12/20/18 14:56*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/20/18 14:56*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
2-Chlorophenol	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Benzyl alcohol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
2-Methylphenol	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Methylphenol, 3 & 4	ND		7.7		ug/L		12/21/18 18:31	12/21/18 23:32	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Isophorone	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Bis(2-chloroethoxy)methane	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
2,4-Dichlorophenol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Naphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
4-Chloro-3-methylphenol	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: LF-5A
Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.6		ug/L		12/21/18 18:31	12/21/18 23:32	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
2,4,5-Trichlorophenol	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
2-Chloronaphthalene	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
2-Nitroaniline	ND		9.6		ug/L		12/21/18 18:31	12/21/18 23:32	1
Dimethyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Acenaphthylene	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
3-Nitroaniline	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Acenaphthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 18:31	12/21/18 23:32	1
4-Nitrophenol	ND		9.6		ug/L		12/21/18 18:31	12/21/18 23:32	1
Dibenzofuran	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
2,4-Dinitrotoluene	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
2,6-Dinitrotoluene	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Diethyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
4-Chlorophenyl phenyl ether	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Fluorene	ND		3.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
4-Nitroaniline	ND		9.6		ug/L		12/21/18 18:31	12/21/18 23:32	1
2-Methyl-4,6-dinitrophenol	ND		9.6		ug/L		12/21/18 18:31	12/21/18 23:32	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
4-Bromophenyl phenyl ether	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Pentachlorophenol	ND		9.6		ug/L		12/21/18 18:31	12/21/18 23:32	1
Phenanthrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Di-n-butyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Butyl benzyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
3,3'-Dichlorobenzidine	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Benzo[a]anthracene	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Bis(2-ethylhexyl) phthalate	ND		9.6		ug/L		12/21/18 18:31	12/21/18 23:32	1
Chrysene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Di-n-octyl phthalate	ND		4.8		ug/L		12/21/18 18:31	12/21/18 23:32	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Benzoic acid	ND		19		ug/L		12/21/18 18:31	12/21/18 23:32	1
Azobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*73*		*11 - 92*	*12/21/18 18:31*	*12/21/18 23:32*	*1*
2-Fluorobiphenyl	*86*		*10 - 101*	*12/21/18 18:31*	*12/21/18 23:32*	*1*
Terphenyl-d14	*83*		*34 - 128*	*12/21/18 18:31*	*12/21/18 23:32*	*1*
2-Fluorophenol	*36*		*10 - 65*	*12/21/18 18:31*	*12/21/18 23:32*	*1*
Phenol-d5	*26*		*10 - 46*	*12/21/18 18:31*	*12/21/18 23:32*	*1*

Client Sample ID: LF-5A

Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-4

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*96*		*17 - 115*	*12/21/18 18:31*	*12/21/18 23:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**420**		47		ug/L		12/24/18 10:30	12/24/18 17:51	1
Motor Oil Range Organics [C24-C36]	**400**		94		ug/L		12/24/18 10:30	12/24/18 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*69*		*23 - 156*	*12/24/18 10:30*	*12/24/18 17:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:48	1
Arsenic	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:48	1
Barium	**0.72**		0.010		mg/L		12/26/18 07:43	12/26/18 19:48	1
Beryllium	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:48	1
Cadmium	ND		0.0025		mg/L		12/26/18 07:43	12/26/18 19:48	1
Chromium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:48	1
Cobalt	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:48	1
Copper	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:48	1
Lead	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:48	1
Molybdenum	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:48	1
Nickel	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:48	1
Selenium	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:48	1
Silver	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:48	1
Thallium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:48	1
Vanadium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:48	1
Zinc	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/03/19 19:52	01/04/19 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/19/18 22:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: LF-8A
Date Collected: 12/19/18 13:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**5.3**		0.50		ug/L			12/20/18 15:22	1
Acetone	ND		50		ug/L			12/20/18 15:22	1
Benzene	ND		0.50		ug/L			12/20/18 15:22	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 15:22	1
Bromobenzene	ND		1.0		ug/L			12/20/18 15:22	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 15:22	1
Bromoform	ND		1.0		ug/L			12/20/18 15:22	1
Bromomethane	ND		1.0		ug/L			12/20/18 15:22	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 15:22	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 15:22	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 15:22	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 15:22	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 15:22	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 15:22	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 15:22	1
Chloroethane	ND		1.0		ug/L			12/20/18 15:22	1
Chloroform	ND		1.0		ug/L			12/20/18 15:22	1
Chloromethane	ND		1.0		ug/L			12/20/18 15:22	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 15:22	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 15:22	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 15:22	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 15:22	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 15:22	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 15:22	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 15:22	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 15:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 15:22	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 15:22	1
Dibromomethane	ND		0.50		ug/L			12/20/18 15:22	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 15:22	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 15:22	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 15:22	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 15:22	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 15:22	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 15:22	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 15:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 15:22	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 15:22	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 15:22	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 15:22	1
2-Hexanone	ND		50		ug/L			12/20/18 15:22	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 15:22	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 15:22	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 15:22	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 15:22	1
Naphthalene	ND		1.0		ug/L			12/20/18 15:22	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 15:22	1
Styrene	ND		0.50		ug/L			12/20/18 15:22	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 15:22	1

Client Sample ID: LF-8A
Date Collected: 12/19/18 13:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 15:22	1
Tetrachloroethene	ND		0.50		ug/L			12/20/18 15:22	1
Toluene	ND		0.50		ug/L			12/20/18 15:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 15:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 15:22	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 15:22	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 15:22	1
Trichloroethene	ND		0.50		ug/L			12/20/18 15:22	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 15:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 15:22	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 15:22	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 15:22	1
Vinyl acetate	ND		10		ug/L			12/20/18 15:22	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 15:22	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 15:22	1
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 15:22	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*67 - 130*		*12/20/18 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*12/20/18 15:22*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/20/18 15:22*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2-Chlorophenol	ND		3.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Benzyl alcohol	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2-Methylphenol	ND		3.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Methylphenol, 3 & 4	ND		7.8		ug/L		12/21/18 18:31	12/21/18 23:54	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Hexachloroethane	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Nitrobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Isophorone	ND		3.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2-Nitrophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Bis(2-chloroethoxy)methane	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2,4-Dichlorophenol	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Naphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
4-Chloroaniline	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Hexachlorobutadiene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
4-Chloro-3-methylphenol	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2-Methylnaphthalene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: LF-8A
Date Collected: 12/19/18 13:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.7		ug/L		12/21/18 18:31	12/21/18 23:54	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2,4,5-Trichlorophenol	ND		3.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2-Chloronaphthalene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2-Nitroaniline	ND		9.7		ug/L		12/21/18 18:31	12/21/18 23:54	1
Dimethyl phthalate	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Acenaphthylene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
3-Nitroaniline	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Acenaphthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2,4-Dinitrophenol	ND		19		ug/L		12/21/18 18:31	12/21/18 23:54	1
4-Nitrophenol	ND		9.7		ug/L		12/21/18 18:31	12/21/18 23:54	1
Dibenzofuran	ND		3.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2,4-Dinitrotoluene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
2,6-Dinitrotoluene	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Diethyl phthalate	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
4-Chlorophenyl phenyl ether	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Fluorene	ND		3.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
4-Nitroaniline	ND		9.7		ug/L		12/21/18 18:31	12/21/18 23:54	1
2-Methyl-4,6-dinitrophenol	ND		9.7		ug/L		12/21/18 18:31	12/21/18 23:54	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
4-Bromophenyl phenyl ether	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Hexachlorobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Pentachlorophenol	ND		9.7		ug/L		12/21/18 18:31	12/21/18 23:54	1
Phenanthrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Di-n-butyl phthalate	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Butyl benzyl phthalate	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
3,3'-Dichlorobenzidine	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Benzo[a]anthracene	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Bis(2-ethylhexyl) phthalate	ND		9.7		ug/L		12/21/18 18:31	12/21/18 23:54	1
Chrysene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Di-n-octyl phthalate	ND		4.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Benzo[a]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Benzoic acid	ND		19		ug/L		12/21/18 18:31	12/21/18 23:54	1
Azobenzene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/21/18 18:31	12/21/18 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*64*		*11 - 92*	*12/21/18 18:31*	*12/21/18 23:54*	*1*
2-Fluorobiphenyl	*75*		*10 - 101*	*12/21/18 18:31*	*12/21/18 23:54*	*1*
Terphenyl-d14	*74*		*34 - 128*	*12/21/18 18:31*	*12/21/18 23:54*	*1*
2-Fluorophenol	*32*		*10 - 65*	*12/21/18 18:31*	*12/21/18 23:54*	*1*
Phenol-d5	*23*		*10 - 46*	*12/21/18 18:31*	*12/21/18 23:54*	*1*

Client Sample ID: LF-8A

Date Collected: 12/19/18 13:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-5

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*105*		*17 - 115*	*12/21/18 18:31*	*12/21/18 23:54*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4900**		49		ug/L		12/24/18 10:30	12/24/18 18:15	1
Motor Oil Range Organics [C24-C36]	**1400**		98		ug/L		12/24/18 10:30	12/24/18 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*54*		*23 - 156*	*12/24/18 10:30*	*12/24/18 18:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:52	1
Arsenic	**0.013**		0.010		mg/L		12/26/18 07:43	12/26/18 19:52	1
Barium	**1.8**		0.010		mg/L		12/26/18 07:43	12/26/18 19:52	1
Beryllium	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:52	1
Cadmium	ND		0.0025		mg/L		12/26/18 07:43	12/26/18 19:52	1
Chromium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:52	1
Cobalt	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:52	1
Copper	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:52	1
Lead	**0.0094**		0.0050		mg/L		12/26/18 07:43	12/27/18 11:51	1
Molybdenum	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:52	1
Nickel	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:52	1
Selenium	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:52	1
Silver	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:52	1
Thallium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:52	1
Vanadium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:52	1
Zinc	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/03/19 19:52	01/04/19 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	**0.014**		0.010		mg/L			12/19/18 22:16	1

Client Sample ID: MK-7A
Date Collected: 12/19/18 14:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.0**		0.50		ug/L			12/20/18 15:49	1
Acetone	ND		50		ug/L			12/20/18 15:49	1
Benzene	ND		0.50		ug/L			12/20/18 15:49	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 15:49	1
Bromobenzene	ND		1.0		ug/L			12/20/18 15:49	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 15:49	1
Bromoform	ND		1.0		ug/L			12/20/18 15:49	1
Bromomethane	ND		1.0		ug/L			12/20/18 15:49	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 15:49	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 15:49	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 15:49	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 15:49	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 15:49	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 15:49	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 15:49	1
Chloroethane	ND		1.0		ug/L			12/20/18 15:49	1
Chloroform	ND		1.0		ug/L			12/20/18 15:49	1
Chloromethane	ND		1.0		ug/L			12/20/18 15:49	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 15:49	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 15:49	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 15:49	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 15:49	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 15:49	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 15:49	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 15:49	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 15:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 15:49	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 15:49	1
Dibromomethane	ND		0.50		ug/L			12/20/18 15:49	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 15:49	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 15:49	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 15:49	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 15:49	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 15:49	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 15:49	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 15:49	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 15:49	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 15:49	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 15:49	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 15:49	1
2-Hexanone	ND		50		ug/L			12/20/18 15:49	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 15:49	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 15:49	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 15:49	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 15:49	1
Naphthalene	ND		1.0		ug/L			12/20/18 15:49	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 15:49	1
Styrene	ND		0.50		ug/L			12/20/18 15:49	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 15:49	1

Client Sample ID: MK-7A
Date Collected: 12/19/18 14:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 15:49	1
Tetrachloroethene	ND		0.50		ug/L			12/20/18 15:49	1
Toluene	ND		0.50		ug/L			12/20/18 15:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 15:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 15:49	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 15:49	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 15:49	1
Trichloroethene	ND		0.50		ug/L			12/20/18 15:49	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 15:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 15:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 15:49	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 15:49	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 15:49	1
Vinyl acetate	ND		10		ug/L			12/20/18 15:49	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 15:49	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 15:49	1
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 15:49	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*12/20/18 15:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*12/20/18 15:49*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/20/18 15:49*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2-Chlorophenol	ND		3.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Benzyl alcohol	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2-Methylphenol	ND		3.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Methylphenol, 3 & 4	ND		7.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Hexachloroethane	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Nitrobenzene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Isophorone	ND		3.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2-Nitrophenol	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2,4-Dimethylphenol	ND		2.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Bis(2-chloroethoxy)methane	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
2,4-Dichlorophenol	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Naphthalene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
4-Chloroaniline	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Hexachlorobutadiene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
4-Chloro-3-methylphenol	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
2-Methylnaphthalene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1

Client Sample ID: MK-7A
Date Collected: 12/19/18 14:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.7		ug/L		12/26/18 14:33	12/26/18 23:42	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2,4,5-Trichlorophenol	ND		3.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2-Chloronaphthalene	ND		3.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2-Nitroaniline	ND		9.7		ug/L		12/26/18 14:33	12/26/18 23:42	1
Dimethyl phthalate	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
Acenaphthylene	ND		3.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
3-Nitroaniline	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
Acenaphthene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2,4-Dinitrophenol	ND		19		ug/L		12/26/18 14:33	12/26/18 23:42	1
4-Nitrophenol	ND		9.7		ug/L		12/26/18 14:33	12/26/18 23:42	1
Dibenzofuran	ND		3.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2,4-Dinitrotoluene	ND		3.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
2,6-Dinitrotoluene	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
Diethyl phthalate	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
4-Chlorophenyl phenyl ether	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
Fluorene	ND		3.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
4-Nitroaniline	ND		9.7		ug/L		12/26/18 14:33	12/26/18 23:42	1
2-Methyl-4,6-dinitrophenol	ND		9.7		ug/L		12/26/18 14:33	12/26/18 23:42	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
4-Bromophenyl phenyl ether	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
Hexachlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Pentachlorophenol	ND		9.7		ug/L		12/26/18 14:33	12/26/18 23:42	1
Phenanthrene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Anthracene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Di-n-butyl phthalate	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
Fluoranthene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Pyrene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Butyl benzyl phthalate	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
3,3'-Dichlorobenzidine	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
Benzo[a]anthracene	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
Bis(2-ethylhexyl) phthalate	ND		9.7		ug/L		12/26/18 14:33	12/26/18 23:42	1
Chrysene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Di-n-octyl phthalate	ND		4.8		ug/L		12/26/18 14:33	12/26/18 23:42	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Benzo[a]pyrene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Benzoic acid	ND		19		ug/L		12/26/18 14:33	12/26/18 23:42	1
Azobenzene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/26/18 14:33	12/26/18 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*52*		*11 - 92*	*12/26/18 14:33*	*12/26/18 23:42*	*1*
2-Fluorobiphenyl	*70*		*10 - 101*	*12/26/18 14:33*	*12/26/18 23:42*	*1*
Terphenyl-d14	*70*		*34 - 128*	*12/26/18 14:33*	*12/26/18 23:42*	*1*
2-Fluorophenol	*26*		*10 - 65*	*12/26/18 14:33*	*12/26/18 23:42*	*1*
Phenol-d5	*18*		*10 - 46*	*12/26/18 14:33*	*12/26/18 23:42*	*1*

Client Sample ID: MK-7A

Date Collected: 12/19/18 14:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-6

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*17 - 115*	*12/26/18 14:33*	*12/26/18 23:42*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**190**		48		ug/L		12/24/18 10:30	12/27/18 03:57	1
Motor Oil Range Organics [C24-C36]	**140**		97		ug/L		12/24/18 10:30	12/27/18 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*94*		*23 - 156*	*12/24/18 10:30*	*12/27/18 03:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:57	1
Arsenic	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:57	1
Barium	**0.32**		0.010		mg/L		12/26/18 07:43	12/26/18 19:57	1
Beryllium	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 19:57	1
Cadmium	ND		0.0025		mg/L		12/26/18 07:43	12/26/18 19:57	1
Chromium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:57	1
Cobalt	**0.0021**		0.0020		mg/L		12/26/18 07:43	12/26/18 19:57	1
Copper	**0.025**		0.020		mg/L		12/26/18 07:43	12/26/18 19:57	1
Lead	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:57	1
Molybdenum	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:57	1
Nickel	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:57	1
Selenium	ND		0.020		mg/L		12/26/18 07:43	12/26/18 19:57	1
Silver	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 19:57	1
Thallium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:57	1
Vanadium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 19:57	1
Zinc	**0.088**		0.020		mg/L		12/26/18 07:43	12/26/18 19:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/03/19 19:52	01/04/19 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/19/18 22:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: KMW-7A
Date Collected: 12/19/18 15:16
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**6.1**		0.50		ug/L			12/20/18 16:16	1
Acetone	ND		50		ug/L			12/20/18 16:16	1
Benzene	ND		0.50		ug/L			12/20/18 16:16	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 16:16	1
Bromobenzene	ND		1.0		ug/L			12/20/18 16:16	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 16:16	1
Bromoform	ND		1.0		ug/L			12/20/18 16:16	1
Bromomethane	ND		1.0		ug/L			12/20/18 16:16	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 16:16	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 16:16	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 16:16	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 16:16	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 16:16	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 16:16	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 16:16	1
Chloroethane	ND		1.0		ug/L			12/20/18 16:16	1
Chloroform	ND		1.0		ug/L			12/20/18 16:16	1
Chloromethane	ND		1.0		ug/L			12/20/18 16:16	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 16:16	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 16:16	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 16:16	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 16:16	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 16:16	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 16:16	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 16:16	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 16:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 16:16	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 16:16	1
Dibromomethane	ND		0.50		ug/L			12/20/18 16:16	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 16:16	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 16:16	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 16:16	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 16:16	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 16:16	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 16:16	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 16:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 16:16	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 16:16	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 16:16	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 16:16	1
2-Hexanone	ND		50		ug/L			12/20/18 16:16	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 16:16	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 16:16	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 16:16	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 16:16	1
Naphthalene	ND		1.0		ug/L			12/20/18 16:16	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 16:16	1
Styrene	ND		0.50		ug/L			12/20/18 16:16	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 16:16	1

Client Sample ID: KMW-7A
Date Collected: 12/19/18 15:16
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 16:16	1
Tetrachloroethene	ND		0.50		ug/L			12/20/18 16:16	1
Toluene	ND		0.50		ug/L			12/20/18 16:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 16:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 16:16	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 16:16	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 16:16	1
Trichloroethene	ND		0.50		ug/L			12/20/18 16:16	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 16:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 16:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 16:16	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 16:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 16:16	1
Vinyl acetate	ND		10		ug/L			12/20/18 16:16	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 16:16	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 16:16	1
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 16:16	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*12/20/18 16:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*		*12/20/18 16:16*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/20/18 16:16*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Bis(2-chloroethyl)ether	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
2-Chlorophenol	ND		3.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
1,3-Dichlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
1,4-Dichlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Benzyl alcohol	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
1,2-Dichlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
2-Methylphenol	ND		3.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
Methylphenol, 3 & 4	ND		7.6		ug/L		12/26/18 14:33	12/27/18 11:30	1
N-Nitrosodi-n-propylamine	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Hexachloroethane	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Nitrobenzene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Isophorone	ND		3.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
2-Nitrophenol	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
2,4-Dimethylphenol	ND		2.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
Bis(2-chloroethoxy)methane	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
2,4-Dichlorophenol	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
1,2,4-Trichlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Naphthalene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
4-Chloroaniline	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Hexachlorobutadiene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
4-Chloro-3-methylphenol	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
2-Methylnaphthalene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1

Client Sample ID: KMW-7A
Date Collected: 12/19/18 15:16
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		9.5		ug/L		12/26/18 14:33	12/27/18 11:30	1
2,4,6-Trichlorophenol	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
2,4,5-Trichlorophenol	ND		3.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
2-Chloronaphthalene	ND		3.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
2-Nitroaniline	ND		9.5		ug/L		12/26/18 14:33	12/27/18 11:30	1
Dimethyl phthalate	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
Acenaphthylene	ND		3.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
3-Nitroaniline	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
Acenaphthene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
2,4-Dinitrophenol	ND		19		ug/L		12/26/18 14:33	12/27/18 11:30	1
4-Nitrophenol	ND		9.5		ug/L		12/26/18 14:33	12/27/18 11:30	1
Dibenzofuran	ND		3.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
2,4-Dinitrotoluene	ND		3.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
2,6-Dinitrotoluene	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
Diethyl phthalate	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
4-Chlorophenyl phenyl ether	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
Fluorene	ND		3.8		ug/L		12/26/18 14:33	12/27/18 11:30	1
4-Nitroaniline	ND		9.5		ug/L		12/26/18 14:33	12/27/18 11:30	1
2-Methyl-4,6-dinitrophenol	ND		9.5		ug/L		12/26/18 14:33	12/27/18 11:30	1
N-Nitrosodiphenylamine	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
4-Bromophenyl phenyl ether	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
Hexachlorobenzene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Pentachlorophenol	ND		9.5		ug/L		12/26/18 14:33	12/27/18 11:30	1
Phenanthrene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Anthracene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Di-n-butyl phthalate	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
Fluoranthene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Pyrene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Butyl benzyl phthalate	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
3,3'-Dichlorobenzidine	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
Benzo[a]anthracene	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		12/26/18 14:33	12/27/18 11:30	1
Chrysene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Di-n-octyl phthalate	ND		4.7		ug/L		12/26/18 14:33	12/27/18 11:30	1
Benzo[b]fluoranthene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Benzo[a]pyrene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Benzo[k]fluoranthene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Indeno[1,2,3-cd]pyrene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Benzo[g,h,i]perylene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Benzoic acid	ND		19		ug/L		12/26/18 14:33	12/27/18 11:30	1
Azobenzene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1
Dibenz(a,h)anthracene	ND		1.9		ug/L		12/26/18 14:33	12/27/18 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*55*		*11 - 92*	*12/26/18 14:33*	*12/27/18 11:30*	*1*
2-Fluorobiphenyl	*66*		*10 - 101*	*12/26/18 14:33*	*12/27/18 11:30*	*1*
Terphenyl-d14	*66*		*34 - 128*	*12/26/18 14:33*	*12/27/18 11:30*	*1*
2-Fluorophenol	*28*		*10 - 65*	*12/26/18 14:33*	*12/27/18 11:30*	*1*
Phenol-d5	*19*		*10 - 46*	*12/26/18 14:33*	*12/27/18 11:30*	*1*

Client Sample ID: KMW-7A

Date Collected: 12/19/18 15:16
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-7

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*17 - 115*	*12/26/18 14:33*	*12/27/18 11:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**350**		47		ug/L		12/24/18 10:30	12/24/18 19:04	1
Motor Oil Range Organics [C24-C36]	**230**		94		ug/L		12/24/18 10:30	12/24/18 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*89*		*23 - 156*	*12/24/18 10:30*	*12/24/18 19:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/26/18 07:43	12/26/18 20:02	1
Arsenic	**0.041**		0.010		mg/L		12/26/18 07:43	12/26/18 20:02	1
Barium	**0.17**		0.010		mg/L		12/26/18 07:43	12/26/18 20:02	1
Beryllium	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 20:02	1
Cadmium	ND		0.0025		mg/L		12/26/18 07:43	12/26/18 20:02	1
Chromium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 20:02	1
Cobalt	**0.0087**		0.0020		mg/L		12/26/18 07:43	12/26/18 20:02	1
Copper	ND		0.020		mg/L		12/26/18 07:43	12/26/18 20:02	1
Lead	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 20:02	1
Molybdenum	ND		0.010		mg/L		12/26/18 07:43	12/26/18 20:02	1
Nickel	**0.011**		0.010		mg/L		12/26/18 07:43	12/26/18 20:02	1
Selenium	ND		0.020		mg/L		12/26/18 07:43	12/26/18 20:02	1
Silver	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 20:02	1
Thallium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 20:02	1
Vanadium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 20:02	1
Zinc	ND		0.020		mg/L		12/26/18 07:43	12/26/18 20:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/03/19 19:52	01/04/19 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/19/18 22:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: TB-2
Date Collected: 12/19/18 08:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/20/18 10:48	1
Acetone	ND		50		ug/L			12/20/18 10:48	1
Benzene	ND		0.50		ug/L			12/20/18 10:48	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 10:48	1
Bromobenzene	ND		1.0		ug/L			12/20/18 10:48	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 10:48	1
Bromoform	ND		1.0		ug/L			12/20/18 10:48	1
Bromomethane	ND		1.0		ug/L			12/20/18 10:48	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 10:48	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 10:48	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 10:48	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 10:48	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 10:48	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 10:48	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 10:48	1
Chloroethane	ND		1.0		ug/L			12/20/18 10:48	1
Chloroform	ND		1.0		ug/L			12/20/18 10:48	1
Chloromethane	ND		1.0		ug/L			12/20/18 10:48	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 10:48	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 10:48	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 10:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 10:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 10:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 10:48	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 10:48	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 10:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 10:48	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 10:48	1
Dibromomethane	ND		0.50		ug/L			12/20/18 10:48	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 10:48	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 10:48	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 10:48	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 10:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 10:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 10:48	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 10:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 10:48	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 10:48	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 10:48	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 10:48	1
2-Hexanone	ND		50		ug/L			12/20/18 10:48	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 10:48	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 10:48	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 10:48	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 10:48	1
Naphthalene	ND		1.0		ug/L			12/20/18 10:48	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 10:48	1
Styrene	ND		0.50		ug/L			12/20/18 10:48	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 10:48	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: TB-2
Date Collected: 12/19/18 08:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 10:48	1
Tetrachloroethene	ND		0.50		ug/L			12/20/18 10:48	1
Toluene	ND		0.50		ug/L			12/20/18 10:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 10:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 10:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 10:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 10:48	1
Trichloroethene	ND		0.50		ug/L			12/20/18 10:48	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 10:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 10:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 10:48	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 10:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 10:48	1
Vinyl acetate	ND		10		ug/L			12/20/18 10:48	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 10:48	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 10:48	1
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 10:48	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*12/20/18 10:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*		*12/20/18 10:48*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/20/18 10:48*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-90436-A-5 MS	Matrix Spike	110	114	106
720-90436-A-5 MSD	Matrix Spike Duplicate	109	111	105
720-90436-A-10 MS	Matrix Spike	99	99	104
720-90436-A-10 MSD	Matrix Spike Duplicate	100	101	106
720-90444-1	MW-10A	97	101	104
720-90444-2	MK-8A	96	102	103
720-90444-3	LF-7A	98	105	104
720-90444-4	LF-5A	103	110	102
720-90444-5	LF-8A	107	111	103
720-90444-6	MK-7A	104	112	102
720-90444-7	KMW-7A	103	113	104
720-90444-8	TB-2	99	96	104
LCS 720-257313/5	Lab Control Sample	101	95	104
LCS 720-257313/7	Lab Control Sample	102	96	107
LCS 720-257314/5	Lab Control Sample	109	101	107
LCS 720-257314/7	Lab Control Sample	109	105	105
LCSD 720-257313/6	Lab Control Sample Dup	100	95	105
LCSD 720-257313/8	Lab Control Sample Dup	102	96	107
LCSD 720-257314/6	Lab Control Sample Dup	105	104	107
LCSD 720-257314/8	Lab Control Sample Dup	108	105	106
MB 720-257313/4	Method Blank	98	96	105
MB 720-257314/4	Method Blank	104	103	103

Surrogate Legend

BFB = 4-Bromofluorobenzene
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHL	2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(11-92)	(10-101)	(34-128)	(10-65)	(10-46)	(17-115)
720-90444-1	MW-10A	68	82	86	34	24	95
720-90444-2	MK-8A	69	80	88	34	23	92
720-90444-3	LF-7A	70	81	81	35	24	94
720-90444-4	LF-5A	73	86	83	36	26	96
720-90444-5	LF-8A	64	75	74	32	23	105
720-90444-6	MK-7A	52	70	70	26	18	75
720-90444-7	KMW-7A	55	66	66	28	19	87
LCS 720-257452/2-A	Lab Control Sample	66	75	95	41	29	92
LCS 720-257618/2-A	Lab Control Sample	68	80	93	36	26	87
LCSD 720-257452/3-A	Lab Control Sample Dup	69	81	97	41	30	97
LCSD 720-257618/3-A	Lab Control Sample Dup	59	70	84	32	23	80
MB 720-257452/1-A	Method Blank	56	67	84	38	27	75
MB 720-257618/1-A	Method Blank	54	71	93	32	24	75

Surrogate Legend

NBZ = Nitrobenzene-d5

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14
2FP = 2-Fluorophenol
PHL = Phenol-d5
TBP = 2,4,6-Tribromophenol

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TPH1 (23-156)									
720-90444-1	MW-10A	88									
720-90444-2	MK-8A	81									
720-90444-3	LF-7A	90									
720-90444-4	LF-5A	69									
720-90444-5	LF-8A	54									
720-90444-6	MK-7A	94									
720-90444-7	KMW-7A	89									
LCS 720-257384/2-A	Lab Control Sample	100									
LCS 720-257531/2-A	Lab Control Sample	100									
LCSD 720-257384/3-A	Lab Control Sample Dup	100									
LCSD 720-257531/3-A	Lab Control Sample Dup	98									
MB 720-257384/1-A	Method Blank	85									
MB 720-257531/1-A	Method Blank	88									

Surrogate Legend

TPH = p-Terphenyl

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-257313/4
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/20/18 10:19	1
Acetone	ND		50		ug/L			12/20/18 10:19	1
Benzene	ND		0.50		ug/L			12/20/18 10:19	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 10:19	1
Bromobenzene	ND		1.0		ug/L			12/20/18 10:19	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 10:19	1
Bromoform	ND		1.0		ug/L			12/20/18 10:19	1
Bromomethane	ND		1.0		ug/L			12/20/18 10:19	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 10:19	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 10:19	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 10:19	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 10:19	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 10:19	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 10:19	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 10:19	1
Chloroethane	ND		1.0		ug/L			12/20/18 10:19	1
Chloroform	ND		1.0		ug/L			12/20/18 10:19	1
Chloromethane	ND		1.0		ug/L			12/20/18 10:19	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 10:19	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 10:19	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 10:19	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 10:19	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 10:19	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 10:19	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 10:19	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 10:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 10:19	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 10:19	1
Dibromomethane	ND		0.50		ug/L			12/20/18 10:19	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 10:19	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 10:19	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 10:19	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 10:19	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 10:19	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 10:19	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 10:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 10:19	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 10:19	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 10:19	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 10:19	1
2-Hexanone	ND		50		ug/L			12/20/18 10:19	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 10:19	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 10:19	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 10:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 10:19	1
Naphthalene	ND		1.0		ug/L			12/20/18 10:19	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 10:19	1
Styrene	ND		0.50		ug/L			12/20/18 10:19	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-257313/4
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 10:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 10:19	1
Tetrachloroethene	ND		0.50		ug/L			12/20/18 10:19	1
Toluene	ND		0.50		ug/L			12/20/18 10:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 10:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 10:19	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 10:19	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 10:19	1
Trichloroethene	ND		0.50		ug/L			12/20/18 10:19	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 10:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 10:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 10:19	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 10:19	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 10:19	1
Vinyl acetate	ND		10		ug/L			12/20/18 10:19	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 10:19	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 10:19	1
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 10:19	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 10:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/20/18 10:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*		*12/20/18 10:19*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/20/18 10:19*	*1*

Lab Sample ID: LCS 720-257313/5
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.2		ug/L		97	70 - 130
Acetone	125	112		ug/L		89	61 - 147
Benzene	25.0	24.7		ug/L		99	79 - 119
Dichlorobromomethane	25.0	26.4		ug/L		106	81 - 130
Bromobenzene	25.0	25.8		ug/L		103	77 - 117
Chlorobromomethane	25.0	28.2		ug/L		113	81 - 122
Bromoform	25.0	27.2		ug/L		109	75 - 127
Bromomethane	25.0	29.7		ug/L		119	70 - 132
2-Butanone (MEK)	125	117		ug/L		93	66 - 133
n-Butylbenzene	25.0	25.6		ug/L		102	78 - 119
sec-Butylbenzene	25.0	24.5		ug/L		98	78 - 118
tert-Butylbenzene	25.0	25.5		ug/L		102	78 - 118
Carbon disulfide	25.0	26.4		ug/L		106	64 - 127
Carbon tetrachloride	25.0	27.7		ug/L		111	72 - 142
Chlorobenzene	25.0	25.5		ug/L		102	76 - 116
Chloroethane	25.0	26.8		ug/L		107	70 - 131
Chloroform	25.0	26.5		ug/L		106	82 - 119

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-257313/5
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	22.7		ug/L		91	49 - 134
2-Chlorotoluene	25.0	23.9		ug/L		96	75 - 115
4-Chlorotoluene	25.0	24.9		ug/L		100	73 - 119
Chlorodibromomethane	25.0	29.4		ug/L		118	77 - 133
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	77 - 117
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	76 - 116
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	76 - 116
1,3-Dichloropropane	25.0	25.4		ug/L		102	77 - 117
1,1-Dichloropropene	25.0	25.0		ug/L		100	83 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.3		ug/L		105	74 - 126
Ethylene Dibromide	25.0	26.1		ug/L		104	80 - 121
Dibromomethane	25.0	25.4		ug/L		102	79 - 117
Dichlorodifluoromethane	25.0	26.4		ug/L		106	21 - 150
1,1-Dichloroethane	25.0	24.7		ug/L		99	77 - 119
1,2-Dichloroethane	25.0	24.7		ug/L		99	73 - 122
1,1-Dichloroethene	25.0	26.0		ug/L		104	69 - 119
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	77 - 117
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	79 - 117
1,2-Dichloropropane	25.0	24.8		ug/L		99	79 - 119
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	82 - 119
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	76 - 122
Ethylbenzene	25.0	25.7		ug/L		103	77 - 117
Hexachlorobutadiene	25.0	29.2		ug/L		117	78 - 140
2-Hexanone	125	108		ug/L		86	63 - 140
Isopropylbenzene	25.0	27.7		ug/L		111	77 - 130
4-Isopropyltoluene	25.0	26.1		ug/L		104	80 - 120
Methylene Chloride	25.0	24.4		ug/L		97	75 - 117
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		86	66 - 140
Naphthalene	25.0	24.0		ug/L		96	81 - 121
N-Propylbenzene	25.0	23.8		ug/L		95	77 - 117
Styrene	25.0	25.0		ug/L		100	76 - 116
1,1,1,2-Tetrachloroethane	25.0	27.2		ug/L		109	81 - 121
1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 115
Tetrachloroethene	25.0	29.0		ug/L		116	81 - 130
Toluene	25.0	24.3		ug/L		97	75 - 120
1,2,3-Trichlorobenzene	25.0	27.9		ug/L		111	87 - 123
1,2,4-Trichlorobenzene	25.0	28.7		ug/L		115	78 - 120
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	74 - 130
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	80 - 117
Trichloroethene	25.0	28.2		ug/L		113	80 - 123
Trichlorofluoromethane	25.0	26.6		ug/L		106	75 - 141
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	77 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.6		ug/L		118	70 - 133
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		102	75 - 115
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	77 - 117
Vinyl acetate	25.0	21.9		ug/L		88	50 - 126
Vinyl chloride	25.0	26.5		ug/L		106	58 - 138

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-257313/5
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	74 - 119
o-Xylene	25.0	26.0		ug/L		104	77 - 118
2,2-Dichloropropane	25.0	27.9		ug/L		112	74 - 156

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCS 720-257313/7
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	487		ug/L		97	77 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 720-257313/6
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	23.8		ug/L		95	70 - 130	2	20
Acetone	125	105		ug/L		84	61 - 147	7	30
Benzene	25.0	24.8		ug/L		99	79 - 119	0	20
Dichlorobromomethane	25.0	26.5		ug/L		106	81 - 130	0	20
Bromobenzene	25.0	26.1		ug/L		105	77 - 117	1	20
Chlorobromomethane	25.0	28.2		ug/L		113	81 - 122	0	20
Bromoform	25.0	26.8		ug/L		107	75 - 127	2	20
Bromomethane	25.0	30.5		ug/L		122	70 - 132	3	20
2-Butanone (MEK)	125	113		ug/L		91	66 - 133	3	22
n-Butylbenzene	25.0	26.1		ug/L		104	78 - 119	2	20
sec-Butylbenzene	25.0	25.0		ug/L		100	78 - 118	2	20
tert-Butylbenzene	25.0	25.9		ug/L		104	78 - 118	2	20
Carbon disulfide	25.0	26.4		ug/L		106	64 - 127	0	20
Carbon tetrachloride	25.0	28.2		ug/L		113	72 - 142	2	20
Chlorobenzene	25.0	25.5		ug/L		102	76 - 116	0	20
Chloroethane	25.0	28.1		ug/L		113	70 - 131	5	20
Chloroform	25.0	26.6		ug/L		106	82 - 119	0	20
Chloromethane	25.0	22.9		ug/L		92	49 - 134	1	20
2-Chlorotoluene	25.0	24.5		ug/L		98	75 - 115	2	20
4-Chlorotoluene	25.0	25.1		ug/L		100	73 - 119	1	20
Chlorodibromomethane	25.0	29.5		ug/L		118	77 - 133	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-257313/6
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene			25.0	25.8		ug/L		103	77 - 117	1	20
1,3-Dichlorobenzene			25.0	26.5		ug/L		106	76 - 116	1	20
1,4-Dichlorobenzene			25.0	26.7		ug/L		107	76 - 116	1	20
1,3-Dichloropropane			25.0	25.0		ug/L		100	77 - 117	2	20
1,1-Dichloropropene			25.0	25.2		ug/L		101	83 - 130	1	20
1,2-Dibromo-3-Chloropropane			25.0	25.5		ug/L		102	74 - 126	3	20
Ethylene Dibromide			25.0	26.0		ug/L		104	80 - 121	0	20
Dibromomethane			25.0	25.4		ug/L		102	79 - 117	0	20
Dichlorodifluoromethane			25.0	26.4		ug/L		106	21 - 150	0	20
1,1-Dichloroethane			25.0	24.9		ug/L		100	77 - 119	1	20
1,2-Dichloroethane			25.0	24.7		ug/L		99	73 - 122	0	20
1,1-Dichloroethene			25.0	26.2		ug/L		105	69 - 119	1	20
cis-1,2-Dichloroethene			25.0	25.7		ug/L		103	77 - 117	1	20
trans-1,2-Dichloroethene			25.0	26.1		ug/L		105	79 - 117	1	20
1,2-Dichloropropane			25.0	24.7		ug/L		99	79 - 119	0	20
cis-1,3-Dichloropropene			25.0	26.9		ug/L		108	82 - 119	0	20
trans-1,3-Dichloropropene			25.0	26.0		ug/L		104	76 - 122	0	20
Ethylbenzene			25.0	25.8		ug/L		103	77 - 117	1	20
Hexachlorobutadiene			25.0	30.0		ug/L		120	78 - 140	3	20
2-Hexanone			125	105		ug/L		84	63 - 140	3	24
Isopropylbenzene			25.0	27.3		ug/L		109	77 - 130	1	20
4-Isopropyltoluene			25.0	26.5		ug/L		106	80 - 120	2	20
Methylene Chloride			25.0	24.4		ug/L		98	75 - 117	0	20
4-Methyl-2-pentanone (MIBK)			125	104		ug/L		83	66 - 140	3	21
Naphthalene			25.0	24.1		ug/L		96	81 - 121	1	20
N-Propylbenzene			25.0	24.2		ug/L		97	77 - 117	2	20
Styrene			25.0	24.9		ug/L		100	76 - 116	1	20
1,1,1,2-Tetrachloroethane			25.0	27.2		ug/L		109	81 - 121	0	20
1,1,2,2-Tetrachloroethane			25.0	22.1		ug/L		88	70 - 115	1	20
Tetrachloroethene			25.0	29.4		ug/L		118	81 - 130	2	20
Toluene			25.0	24.3		ug/L		97	75 - 120	0	20
1,2,3-Trichlorobenzene			25.0	28.4		ug/L		114	87 - 123	2	20
1,2,4-Trichlorobenzene			25.0	28.9		ug/L		115	78 - 120	1	20
1,1,1-Trichloroethane			25.0	26.9		ug/L		107	74 - 130	1	20
1,1,2-Trichloroethane			25.0	24.3		ug/L		97	80 - 117	4	20
Trichloroethene			25.0	28.2		ug/L		113	80 - 123	0	20
Trichlorofluoromethane			25.0	26.8		ug/L		107	75 - 141	1	20
1,2,3-Trichloropropane			25.0	22.6		ug/L		90	77 - 120	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	29.5		ug/L		118	70 - 133	0	20
1,2,4-Trimethylbenzene			25.0	25.9		ug/L		104	75 - 115	1	20
1,3,5-Trimethylbenzene			25.0	26.1		ug/L		104	77 - 117	2	20
Vinyl acetate			25.0	21.6		ug/L		86	50 - 126	2	20
Vinyl chloride			25.0	25.3		ug/L		101	58 - 138	5	20
m-Xylene & p-Xylene			25.0	25.5		ug/L		102	74 - 119	0	20
o-Xylene			25.0	25.8		ug/L		103	77 - 118	1	20
2,2-Dichloropropane			25.0	28.6		ug/L		115	74 - 156	3	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-257313/6
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		72 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: LCSD 720-257313/8
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			500	467		ug/L		93	77 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		72 - 130
Toluene-d8 (Surr)	107		70 - 130

Lab Sample ID: 720-90436-A-10 MS
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	24.7		ug/L		99	60 - 138
Acetone	ND		125	118		ug/L		95	60 - 140
Benzene	ND		25.0	25.8		ug/L		103	60 - 140
Dichlorobromomethane	ND		25.0	27.8		ug/L		111	60 - 140
Bromobenzene	ND		25.0	26.4		ug/L		106	60 - 140
Chlorobromomethane	ND		25.0	29.4		ug/L		118	60 - 140
Bromoform	ND		25.0	28.0		ug/L		112	56 - 140
Bromomethane	ND		25.0	30.6		ug/L		122	23 - 140
2-Butanone (MEK)	ND		125	118		ug/L		95	60 - 140
n-Butylbenzene	ND		25.0	26.0		ug/L		104	60 - 140
sec-Butylbenzene	ND		25.0	25.7		ug/L		103	60 - 140
tert-Butylbenzene	ND		25.0	26.3		ug/L		105	60 - 140
Carbon disulfide	ND		25.0	27.0		ug/L		108	38 - 140
Carbon tetrachloride	ND		25.0	28.8		ug/L		115	60 - 140
Chlorobenzene	ND		25.0	26.3		ug/L		105	60 - 140
Chloroethane	ND		25.0	27.0		ug/L		108	51 - 140
Chloroform	ND		25.0	27.4		ug/L		110	60 - 140
Chloromethane	ND		25.0	26.3		ug/L		105	52 - 140
2-Chlorotoluene	ND		25.0	24.8		ug/L		99	60 - 140
4-Chlorotoluene	ND		25.0	28.6		ug/L		114	60 - 140
Chlorodibromomethane	ND		25.0	30.9		ug/L		124	60 - 140
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140
1,3-Dichlorobenzene	ND		25.0	27.0		ug/L		108	60 - 140
1,4-Dichlorobenzene	ND		25.0	27.1		ug/L		108	60 - 140
1,3-Dichloropropane	ND		25.0	26.9		ug/L		107	60 - 140
1,1-Dichloropropene	ND		25.0	26.0		ug/L		104	60 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90436-A-10 MS
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	26.9		ug/L		107	60 - 140
Ethylene Dibromide	ND		25.0	27.7		ug/L		111	60 - 140
Dibromomethane	ND		25.0	26.7		ug/L		107	60 - 140
Dichlorodifluoromethane	ND		25.0	26.1		ug/L		104	38 - 140
1,1-Dichloroethane	ND		25.0	26.1		ug/L		104	60 - 140
1,2-Dichloroethane	ND		25.0	26.1		ug/L		104	60 - 140
1,1-Dichloroethene	ND		25.0	27.0		ug/L		108	60 - 140
cis-1,2-Dichloroethene	ND		25.0	27.0		ug/L		107	60 - 140
trans-1,2-Dichloroethene	ND		25.0	26.9		ug/L		107	60 - 140
1,2-Dichloropropane	ND		25.0	26.4		ug/L		106	60 - 140
cis-1,3-Dichloropropene	ND		25.0	28.1		ug/L		112	60 - 140
trans-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	60 - 140
Ethylbenzene	ND		25.0	26.5		ug/L		106	60 - 140
Hexachlorobutadiene	ND		25.0	29.0		ug/L		116	60 - 140
2-Hexanone	ND		125	115		ug/L		92	60 - 140
Isopropylbenzene	ND		25.0	27.9		ug/L		112	60 - 140
4-Isopropyltoluene	ND		25.0	27.1		ug/L		108	60 - 140
Methylene Chloride	ND		25.0	25.6		ug/L		102	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	118		ug/L		95	58 - 130
Naphthalene	ND		25.0	25.0		ug/L		100	56 - 140
N-Propylbenzene	ND		25.0	24.6		ug/L		98	60 - 140
Styrene	ND		25.0	25.5		ug/L		102	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	27.9		ug/L		112	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	23.9		ug/L		96	60 - 140
Tetrachloroethene	47		25.0	69.9		ug/L		93	60 - 140
Toluene	ND		25.0	24.9		ug/L		100	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	28.0		ug/L		112	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	28.4		ug/L		114	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.6		ug/L		110	60 - 140
1,1,2-Trichloroethane	ND		25.0	26.2		ug/L		105	60 - 140
Trichloroethene	2.0		25.0	31.3		ug/L		117	60 - 140
Trichlorofluoromethane	ND		25.0	27.5		ug/L		110	60 - 140
1,2,3-Trichloropropane	ND		25.0	23.9		ug/L		96	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.5		ug/L		118	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	26.5		ug/L		106	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	28.0		ug/L		112	60 - 140
Vinyl acetate	ND		25.0	23.4		ug/L		94	40 - 140
Vinyl chloride	ND		25.0	28.3		ug/L		113	58 - 140
m-Xylene & p-Xylene	ND		25.0	26.0		ug/L		104	60 - 140
o-Xylene	ND		25.0	26.6		ug/L		106	60 - 140
2,2-Dichloropropane	ND		25.0	28.7		ug/L		115	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90436-A-10 MSD
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	26.3		ug/L		105	60 - 138	7	20
Acetone	ND		125	126		ug/L		101	60 - 140	7	20
Benzene	ND		25.0	25.9		ug/L		103	60 - 140	0	20
Dichlorobromomethane	ND		25.0	28.2		ug/L		113	60 - 140	1	20
Bromobenzene	ND		25.0	26.6		ug/L		106	60 - 140	1	20
Chlorobromomethane	ND		25.0	30.0		ug/L		120	60 - 140	2	20
Bromoform	ND		25.0	29.4		ug/L		118	56 - 140	5	20
Bromomethane	ND		25.0	30.9		ug/L		124	23 - 140	1	20
2-Butanone (MEK)	ND		125	131		ug/L		105	60 - 140	10	20
n-Butylbenzene	ND		25.0	25.6		ug/L		102	60 - 140	2	20
sec-Butylbenzene	ND		25.0	25.2		ug/L		101	60 - 140	2	20
tert-Butylbenzene	ND		25.0	26.3		ug/L		105	60 - 140	0	20
Carbon disulfide	ND		25.0	26.7		ug/L		107	38 - 140	1	20
Carbon tetrachloride	ND		25.0	28.8		ug/L		115	60 - 140	0	20
Chlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140	0	20
Chloroethane	ND		25.0	26.6		ug/L		106	51 - 140	1	20
Chloroform	ND		25.0	28.1		ug/L		113	60 - 140	3	20
Chloromethane	ND		25.0	25.1		ug/L		101	52 - 140	5	20
2-Chlorotoluene	ND		25.0	24.9		ug/L		100	60 - 140	1	20
4-Chlorotoluene	ND		25.0	25.6		ug/L		102	60 - 140	11	20
Chlorodibromomethane	ND		25.0	31.8		ug/L		127	60 - 140	3	20
1,2-Dichlorobenzene	ND		25.0	26.5		ug/L		106	60 - 140	1	20
1,3-Dichlorobenzene	ND		25.0	27.1		ug/L		109	60 - 140	0	20
1,4-Dichlorobenzene	ND		25.0	27.2		ug/L		109	60 - 140	0	20
1,3-Dichloropropane	ND		25.0	27.8		ug/L		111	60 - 140	3	20
1,1-Dichloropropene	ND		25.0	26.0		ug/L		104	60 - 140	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	28.5		ug/L		114	60 - 140	6	20
Ethylene Dibromide	ND		25.0	28.9		ug/L		115	60 - 140	4	20
Dibromomethane	ND		25.0	27.7		ug/L		111	60 - 140	4	20
Dichlorodifluoromethane	ND		25.0	26.1		ug/L		105	38 - 140	0	20
1,1-Dichloroethane	ND		25.0	26.4		ug/L		106	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	27.4		ug/L		110	60 - 140	5	20
1,1-Dichloroethene	ND		25.0	26.7		ug/L		107	60 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	27.7		ug/L		110	60 - 140	3	20
trans-1,2-Dichloroethene	ND		25.0	26.8		ug/L		107	60 - 140	0	20
1,2-Dichloropropane	ND		25.0	26.6		ug/L		106	60 - 140	1	20
cis-1,3-Dichloropropene	ND		25.0	28.4		ug/L		114	60 - 140	1	20
trans-1,3-Dichloropropene	ND		25.0	28.1		ug/L		112	60 - 140	3	20
Ethylbenzene	ND		25.0	26.4		ug/L		106	60 - 140	0	20
Hexachlorobutadiene	ND		25.0	28.0		ug/L		112	60 - 140	4	20
2-Hexanone	ND		125	128		ug/L		102	60 - 140	10	20
Isopropylbenzene	ND		25.0	27.9		ug/L		112	60 - 140	0	20
4-Isopropyltoluene	ND		25.0	26.6		ug/L		106	60 - 140	2	20
Methylene Chloride	ND		25.0	25.8		ug/L		103	40 - 140	1	20
4-Methyl-2-pentanone (MIBK)	ND		125	132		ug/L		105	58 - 130	11	20
Naphthalene	ND		25.0	26.6		ug/L		106	56 - 140	6	20
N-Propylbenzene	ND		25.0	24.5		ug/L		98	60 - 140	1	20
Styrene	ND		25.0	25.7		ug/L		103	60 - 140	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90436-A-10 MSD
Matrix: Water
Analysis Batch: 257313

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	28.2		ug/L		113	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.4		ug/L		102	60 - 140	6	20
Tetrachloroethene	47		25.0	64.9		ug/L		73	60 - 140	7	20
Toluene	ND		25.0	25.1		ug/L		100	60 - 140	1	20
1,2,3-Trichlorobenzene	ND		25.0	28.8		ug/L		115	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	28.4		ug/L		113	60 - 140	0	20
1,1,1-Trichloroethane	ND		25.0	27.7		ug/L		111	60 - 140	0	20
1,1,2-Trichloroethane	ND		25.0	27.1		ug/L		108	60 - 140	3	20
Trichloroethene	2.0		25.0	30.7		ug/L		115	60 - 140	2	20
Trichlorofluoromethane	ND		25.0	27.4		ug/L		109	60 - 140	0	20
1,2,3-Trichloropropane	ND		25.0	25.7		ug/L		103	60 - 140	7	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.1		ug/L		116	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		25.0	26.2		ug/L		105	60 - 140	1	20
1,3,5-Trimethylbenzene	ND		25.0	26.6		ug/L		106	60 - 140	5	20
Vinyl acetate	ND		25.0	25.3		ug/L		101	40 - 140	8	20
Vinyl chloride	ND		25.0	28.2		ug/L		113	58 - 140	0	20
m-Xylene & p-Xylene	ND		25.0	26.1		ug/L		104	60 - 140	0	20
o-Xylene	ND		25.0	26.7		ug/L		107	60 - 140	0	20
2,2-Dichloropropane	ND		25.0	29.3		ug/L		117	60 - 140	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 720-257314/4
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/20/18 10:02	1
Acetone	ND		50		ug/L			12/20/18 10:02	1
Benzene	ND		0.50		ug/L			12/20/18 10:02	1
Dichlorobromomethane	ND		0.50		ug/L			12/20/18 10:02	1
Bromobenzene	ND		1.0		ug/L			12/20/18 10:02	1
Chlorobromomethane	ND		1.0		ug/L			12/20/18 10:02	1
Bromoform	ND		1.0		ug/L			12/20/18 10:02	1
Bromomethane	ND		1.0		ug/L			12/20/18 10:02	1
2-Butanone (MEK)	ND		50		ug/L			12/20/18 10:02	1
n-Butylbenzene	ND		1.0		ug/L			12/20/18 10:02	1
sec-Butylbenzene	ND		1.0		ug/L			12/20/18 10:02	1
tert-Butylbenzene	ND		1.0		ug/L			12/20/18 10:02	1
Carbon disulfide	ND		5.0		ug/L			12/20/18 10:02	1
Carbon tetrachloride	ND		0.50		ug/L			12/20/18 10:02	1
Chlorobenzene	ND		0.50		ug/L			12/20/18 10:02	1
Chloroethane	ND		1.0		ug/L			12/20/18 10:02	1
Chloroform	ND		1.0		ug/L			12/20/18 10:02	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-257314/4
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ug/L			12/20/18 10:02	1
2-Chlorotoluene	ND		0.50		ug/L			12/20/18 10:02	1
4-Chlorotoluene	ND		0.50		ug/L			12/20/18 10:02	1
Chlorodibromomethane	ND		0.50		ug/L			12/20/18 10:02	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/20/18 10:02	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/20/18 10:02	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/20/18 10:02	1
1,3-Dichloropropane	ND		1.0		ug/L			12/20/18 10:02	1
1,1-Dichloropropene	ND		0.50		ug/L			12/20/18 10:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/20/18 10:02	1
Ethylene Dibromide	ND		0.50		ug/L			12/20/18 10:02	1
Dibromomethane	ND		0.50		ug/L			12/20/18 10:02	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/20/18 10:02	1
1,1-Dichloroethane	ND		0.50		ug/L			12/20/18 10:02	1
1,2-Dichloroethane	ND		0.50		ug/L			12/20/18 10:02	1
1,1-Dichloroethene	ND		0.50		ug/L			12/20/18 10:02	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 10:02	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/20/18 10:02	1
1,2-Dichloropropane	ND		0.50		ug/L			12/20/18 10:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 10:02	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/20/18 10:02	1
Ethylbenzene	ND		0.50		ug/L			12/20/18 10:02	1
Hexachlorobutadiene	ND		1.0		ug/L			12/20/18 10:02	1
2-Hexanone	ND		50		ug/L			12/20/18 10:02	1
Isopropylbenzene	ND		0.50		ug/L			12/20/18 10:02	1
4-Isopropyltoluene	ND		1.0		ug/L			12/20/18 10:02	1
Methylene Chloride	ND		5.0		ug/L			12/20/18 10:02	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/20/18 10:02	1
Naphthalene	ND		1.0		ug/L			12/20/18 10:02	1
N-Propylbenzene	ND		1.0		ug/L			12/20/18 10:02	1
Styrene	ND		0.50		ug/L			12/20/18 10:02	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 10:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/20/18 10:02	1
Tetrachloroethene	ND		0.50		ug/L			12/20/18 10:02	1
Toluene	ND		0.50		ug/L			12/20/18 10:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/20/18 10:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/20/18 10:02	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/20/18 10:02	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/20/18 10:02	1
Trichloroethene	ND		0.50		ug/L			12/20/18 10:02	1
Trichlorofluoromethane	ND		1.0		ug/L			12/20/18 10:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/20/18 10:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/20/18 10:02	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/20/18 10:02	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/20/18 10:02	1
Vinyl acetate	ND		10		ug/L			12/20/18 10:02	1
Vinyl chloride	ND		0.50		ug/L			12/20/18 10:02	1
Xylenes, Total	ND		0.50		ug/L			12/20/18 10:02	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-257314/4
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50		ug/L			12/20/18 10:02	1
Gasoline Range Organics (GRO) -C4-C12	ND		50		ug/L			12/20/18 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*12/20/18 10:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*12/20/18 10:02*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/20/18 10:02*	*1*

Lab Sample ID: LCS 720-257314/5
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.8		ug/L		107	70 - 130
Acetone	125	115		ug/L		92	61 - 147
Benzene	25.0	25.4		ug/L		102	79 - 119
Dichlorobromomethane	25.0	26.7		ug/L		107	81 - 130
Bromobenzene	25.0	25.5		ug/L		102	77 - 117
Chlorobromomethane	25.0	23.7		ug/L		95	81 - 122
Bromoform	25.0	24.8		ug/L		99	75 - 127
Bromomethane	25.0	21.0		ug/L		84	70 - 132
2-Butanone (MEK)	125	113		ug/L		91	66 - 133
n-Butylbenzene	25.0	27.5		ug/L		110	78 - 119
sec-Butylbenzene	25.0	26.7		ug/L		107	78 - 118
tert-Butylbenzene	25.0	27.0		ug/L		108	78 - 118
Carbon disulfide	25.0	24.6		ug/L		98	64 - 127
Carbon tetrachloride	25.0	27.8		ug/L		111	72 - 142
Chlorobenzene	25.0	25.5		ug/L		102	76 - 116
Chloroethane	25.0	20.9		ug/L		84	70 - 131
Chloroform	25.0	25.8		ug/L		103	82 - 119
Chloromethane	25.0	18.1		ug/L		72	49 - 134
2-Chlorotoluene	25.0	26.5		ug/L		106	75 - 115
4-Chlorotoluene	25.0	26.8		ug/L		107	73 - 119
Chlorodibromomethane	25.0	26.0		ug/L		104	77 - 133
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	77 - 117
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	76 - 116
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	76 - 116
1,3-Dichloropropane	25.0	25.0		ug/L		100	77 - 117
1,1-Dichloropropene	25.0	26.5		ug/L		106	83 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	74 - 126
Ethylene Dibromide	25.0	24.5		ug/L		98	80 - 121
Dibromomethane	25.0	24.0		ug/L		96	79 - 117
Dichlorodifluoromethane	25.0	16.3		ug/L		65	21 - 150
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 119
1,2-Dichloroethane	25.0	25.5		ug/L		102	73 - 122
1,1-Dichloroethene	25.0	24.3		ug/L		97	69 - 119
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	77 - 117

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-257314/5
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	79 - 117
1,2-Dichloropropane	25.0	26.3		ug/L		105	79 - 119
cis-1,3-Dichloropropene	25.0	27.5		ug/L		110	82 - 119
trans-1,3-Dichloropropene	25.0	27.4		ug/L		109	76 - 122
Ethylbenzene	25.0	26.5		ug/L		106	77 - 117
Hexachlorobutadiene	25.0	29.6		ug/L		118	78 - 140
2-Hexanone	125	119		ug/L		95	63 - 140
Isopropylbenzene	25.0	27.6		ug/L		110	77 - 130
4-Isopropyltoluene	25.0	26.9		ug/L		107	80 - 120
Methylene Chloride	25.0	24.1		ug/L		97	75 - 117
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	66 - 140
Naphthalene	25.0	22.8		ug/L		91	81 - 121
N-Propylbenzene	25.0	27.0		ug/L		108	77 - 117
Styrene	25.0	27.8		ug/L		111	76 - 116
1,1,1,2-Tetrachloroethane	25.0	26.7		ug/L		107	81 - 121
1,1,2,2-Tetrachloroethane	25.0	22.4		ug/L		90	70 - 115
Tetrachloroethene	25.0	26.8		ug/L		107	81 - 130
Toluene	25.0	25.8		ug/L		103	75 - 120
1,2,3-Trichlorobenzene	25.0	24.3		ug/L		97	87 - 123
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	78 - 120
1,1,1-Trichloroethane	25.0	27.3		ug/L		109	74 - 130
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	80 - 117
Trichloroethene	25.0	25.5		ug/L		102	80 - 123
Trichlorofluoromethane	25.0	26.3		ug/L		105	75 - 141
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	77 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.3		ug/L		105	70 - 133
1,2,4-Trimethylbenzene	25.0	27.7		ug/L		111	75 - 115
1,3,5-Trimethylbenzene	25.0	27.9		ug/L		112	77 - 117
Vinyl acetate	25.0	24.7		ug/L		99	50 - 126
Vinyl chloride	25.0	18.8		ug/L		75	58 - 138
m-Xylene & p-Xylene	25.0	27.1		ug/L		108	74 - 119
o-Xylene	25.0	27.0		ug/L		108	77 - 118
2,2-Dichloropropane	25.0	29.7		ug/L		119	74 - 156

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCS 720-257314/7
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	591		ug/L		118	77 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-257314/7
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 720-257314/6
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			25.0	27.4		ug/L		110	70 - 130	2	20
Acetone			125	121		ug/L		96	61 - 147	5	30
Benzene			25.0	25.5		ug/L		102	79 - 119	0	20
Dichlorobromomethane			25.0	27.2		ug/L		109	81 - 130	2	20
Bromobenzene			25.0	25.6		ug/L		102	77 - 117	0	20
Chlorobromomethane			25.0	24.5		ug/L		98	81 - 122	3	20
Bromoform			25.0	24.9		ug/L		100	75 - 127	0	20
Bromomethane			25.0	21.2		ug/L		85	70 - 132	1	20
2-Butanone (MEK)			125	118		ug/L		94	66 - 133	4	22
n-Butylbenzene			25.0	27.1		ug/L		108	78 - 119	1	20
sec-Butylbenzene			25.0	26.4		ug/L		106	78 - 118	1	20
tert-Butylbenzene			25.0	27.2		ug/L		109	78 - 118	1	20
Carbon disulfide			25.0	24.3		ug/L		97	64 - 127	1	20
Carbon tetrachloride			25.0	27.6		ug/L		110	72 - 142	1	20
Chlorobenzene			25.0	25.0		ug/L		100	76 - 116	2	20
Chloroethane			25.0	20.9		ug/L		84	70 - 131	0	20
Chloroform			25.0	26.1		ug/L		104	82 - 119	1	20
Chloromethane			25.0	18.3		ug/L		73	49 - 134	1	20
2-Chlorotoluene			25.0	26.6		ug/L		106	75 - 115	0	20
4-Chlorotoluene			25.0	26.8		ug/L		107	73 - 119	0	20
Chlorodibromomethane			25.0	26.8		ug/L		107	77 - 133	3	20
1,2-Dichlorobenzene			25.0	25.3		ug/L		101	77 - 117	2	20
1,3-Dichlorobenzene			25.0	25.3		ug/L		101	76 - 116	1	20
1,4-Dichlorobenzene			25.0	25.4		ug/L		101	76 - 116	0	20
1,3-Dichloropropane			25.0	25.5		ug/L		102	77 - 117	2	20
1,1-Dichloropropene			25.0	26.3		ug/L		105	83 - 130	1	20
1,2-Dibromo-3-Chloropropane			25.0	23.7		ug/L		95	74 - 126	7	20
Ethylene Dibromide			25.0	25.1		ug/L		101	80 - 121	3	20
Dibromomethane			25.0	24.4		ug/L		98	79 - 117	2	20
Dichlorodifluoromethane			25.0	15.8		ug/L		63	21 - 150	3	20
1,1-Dichloroethane			25.0	26.2		ug/L		105	77 - 119	0	20
1,2-Dichloroethane			25.0	26.1		ug/L		104	73 - 122	2	20
1,1-Dichloroethene			25.0	24.1		ug/L		96	69 - 119	1	20
cis-1,2-Dichloroethene			25.0	25.9		ug/L		103	77 - 117	1	20
trans-1,2-Dichloroethene			25.0	24.6		ug/L		98	79 - 117	0	20
1,2-Dichloropropane			25.0	26.6		ug/L		106	79 - 119	1	20
cis-1,3-Dichloropropene			25.0	28.1		ug/L		113	82 - 119	2	20
trans-1,3-Dichloropropene			25.0	27.8		ug/L		111	76 - 122	2	20
Ethylbenzene			25.0	25.7		ug/L		103	77 - 117	3	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-257314/6
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene			25.0	30.0		ug/L		120	78 - 140	1	20
2-Hexanone			125	129		ug/L		103	63 - 140	8	24
Isopropylbenzene			25.0	26.6		ug/L		106	77 - 130	4	20
4-Isopropyltoluene			25.0	26.9		ug/L		108	80 - 120	0	20
Methylene Chloride			25.0	24.8		ug/L		99	75 - 117	3	20
4-Methyl-2-pentanone (MIBK)			125	127		ug/L		102	66 - 140	6	21
Naphthalene			25.0	24.7		ug/L		99	81 - 121	8	20
N-Propylbenzene			25.0	26.9		ug/L		108	77 - 117	1	20
Styrene			25.0	27.4		ug/L		110	76 - 116	2	20
1,1,1,2-Tetrachloroethane			25.0	26.3		ug/L		105	81 - 121	2	20
1,1,2,2-Tetrachloroethane			25.0	23.6		ug/L		94	70 - 115	5	20
Tetrachloroethene			25.0	26.5		ug/L		106	81 - 130	1	20
Toluene			25.0	24.9		ug/L		100	75 - 120	4	20
1,2,3-Trichlorobenzene			25.0	26.4		ug/L		106	87 - 123	8	20
1,2,4-Trichlorobenzene			25.0	27.4		ug/L		110	78 - 120	4	20
1,1,1-Trichloroethane			25.0	27.2		ug/L		109	74 - 130	0	20
1,1,2-Trichloroethane			25.0	25.2		ug/L		101	80 - 117	2	20
Trichloroethene			25.0	25.4		ug/L		102	80 - 123	0	20
Trichlorofluoromethane			25.0	25.8		ug/L		103	75 - 141	2	20
1,2,3-Trichloropropane			25.0	23.6		ug/L		95	77 - 120	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	25.5		ug/L		102	70 - 133	3	20
1,2,4-Trimethylbenzene			25.0	27.8		ug/L		111	75 - 115	0	20
1,3,5-Trimethylbenzene			25.0	27.9		ug/L		112	77 - 117	0	20
Vinyl acetate			25.0	25.6		ug/L		102	50 - 126	4	20
Vinyl chloride			25.0	18.7		ug/L		75	58 - 138	0	20
m-Xylene & p-Xylene			25.0	26.1		ug/L		104	74 - 119	4	20
o-Xylene			25.0	26.2		ug/L		105	77 - 118	3	20
2,2-Dichloropropane			25.0	29.4		ug/L		117	74 - 156	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 720-257314/8
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			500	590		ug/L		118	77 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90436-A-5 MS
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	30.0		ug/L		120	60 - 138
Acetone	ND		125	147		ug/L		117	60 - 140
Benzene	ND		25.0	25.9		ug/L		104	60 - 140
Dichlorobromomethane	ND		25.0	28.8		ug/L		115	60 - 140
Bromobenzene	ND		25.0	26.2		ug/L		105	60 - 140
Chlorobromomethane	ND		25.0	26.2		ug/L		105	60 - 140
Bromoform	ND		25.0	28.5		ug/L		114	56 - 140
Bromomethane	ND		25.0	21.6		ug/L		86	23 - 140
2-Butanone (MEK)	ND		125	143		ug/L		114	60 - 140
n-Butylbenzene	ND		25.0	25.9		ug/L		104	60 - 140
sec-Butylbenzene	ND		25.0	25.6		ug/L		102	60 - 140
tert-Butylbenzene	ND		25.0	26.3		ug/L		105	60 - 140
Carbon disulfide	ND		25.0	24.8		ug/L		99	38 - 140
Carbon tetrachloride	ND		25.0	28.3		ug/L		113	60 - 140
Chlorobenzene	ND		25.0	26.0		ug/L		104	60 - 140
Chloroethane	ND		25.0	21.2		ug/L		85	51 - 140
Chloroform	ND		25.0	27.1		ug/L		108	60 - 140
Chloromethane	ND		25.0	18.5		ug/L		74	52 - 140
2-Chlorotoluene	ND		25.0	25.9		ug/L		104	60 - 140
4-Chlorotoluene	ND		25.0	26.3		ug/L		105	60 - 140
Chlorodibromomethane	ND		25.0	29.4		ug/L		117	60 - 140
1,2-Dichlorobenzene	ND		25.0	25.6		ug/L		102	60 - 140
1,3-Dichlorobenzene	ND		25.0	25.1		ug/L		100	60 - 140
1,4-Dichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140
1,3-Dichloropropane	ND		25.0	28.2		ug/L		113	60 - 140
1,1-Dichloropropene	ND		25.0	26.3		ug/L		105	60 - 140
1,2-Dibromo-3-Chloropropane	ND		25.0	26.5		ug/L		106	60 - 140
Ethylene Dibromide	ND		25.0	28.1		ug/L		112	60 - 140
Dibromomethane	ND		25.0	27.1		ug/L		108	60 - 140
Dichlorodifluoromethane	ND		25.0	15.7		ug/L		63	38 - 140
1,1-Dichloroethane	ND		25.0	27.0		ug/L		108	60 - 140
1,2-Dichloroethane	ND		25.0	28.6		ug/L		114	60 - 140
1,1-Dichloroethene	ND		25.0	24.7		ug/L		99	60 - 140
cis-1,2-Dichloroethene	ND		25.0	27.0		ug/L		106	60 - 140
trans-1,2-Dichloroethene	ND		25.0	25.0		ug/L		100	60 - 140
1,2-Dichloropropane	ND		25.0	27.5		ug/L		110	60 - 140
cis-1,3-Dichloropropene	ND		25.0	29.2		ug/L		117	60 - 140
trans-1,3-Dichloropropene	ND		25.0	29.9		ug/L		119	60 - 140
Ethylbenzene	ND		25.0	26.3		ug/L		105	60 - 140
Hexachlorobutadiene	ND		25.0	27.7		ug/L		111	60 - 140
2-Hexanone	ND		125	152		ug/L		121	60 - 140
Isopropylbenzene	ND		25.0	26.9		ug/L		108	60 - 140
4-Isopropyltoluene	ND		25.0	25.8		ug/L		103	60 - 140
Methylene Chloride	ND		25.0	26.1		ug/L		104	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	148		ug/L		119	58 - 130
Naphthalene	ND		25.0	25.4		ug/L		101	56 - 140
N-Propylbenzene	ND		25.0	26.1		ug/L		104	60 - 140
Styrene	ND		25.0	28.3		ug/L		113	60 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90436-A-5 MS
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	27.7		ug/L		111	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	26.2		ug/L		105	60 - 140
Tetrachloroethene	49		25.0	66.6		ug/L		72	60 - 140
Toluene	ND		25.0	25.6		ug/L		103	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	25.6		ug/L		102	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.0		ug/L		104	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.8		ug/L		111	60 - 140
1,1,2-Trichloroethane	ND		25.0	27.9		ug/L		112	60 - 140
Trichloroethene	2.0		25.0	27.4		ug/L		102	60 - 140
Trichlorofluoromethane	ND		25.0	26.7		ug/L		107	60 - 140
1,2,3-Trichloropropane	ND		25.0	26.5		ug/L		106	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.7		ug/L		103	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	27.0		ug/L		108	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	26.9		ug/L		108	60 - 140
Vinyl acetate	ND		25.0	28.7		ug/L		115	40 - 140
Vinyl chloride	ND		25.0	18.7		ug/L		75	58 - 140
m-Xylene & p-Xylene	ND		25.0	26.6		ug/L		106	60 - 140
o-Xylene	ND		25.0	27.0		ug/L		108	60 - 140
2,2-Dichloropropane	ND		25.0	29.3		ug/L		117	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: 720-90436-A-5 MSD
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	29.4		ug/L		117	60 - 138	2	20
Acetone	ND		125	140		ug/L		112	60 - 140	5	20
Benzene	ND		25.0	26.4		ug/L		106	60 - 140	2	20
Dichlorobromomethane	ND		25.0	28.9		ug/L		116	60 - 140	0	20
Bromobenzene	ND		25.0	26.0		ug/L		104	60 - 140	1	20
Chlorobromomethane	ND		25.0	26.4		ug/L		105	60 - 140	1	20
Bromoform	ND		25.0	27.8		ug/L		111	56 - 140	3	20
Bromomethane	ND		25.0	22.1		ug/L		89	23 - 140	3	20
2-Butanone (MEK)	ND		125	137		ug/L		109	60 - 140	4	20
n-Butylbenzene	ND		25.0	27.0		ug/L		108	60 - 140	4	20
sec-Butylbenzene	ND		25.0	26.6		ug/L		106	60 - 140	4	20
tert-Butylbenzene	ND		25.0	27.3		ug/L		109	60 - 140	4	20
Carbon disulfide	ND		25.0	25.2		ug/L		101	38 - 140	2	20
Carbon tetrachloride	ND		25.0	28.8		ug/L		115	60 - 140	2	20
Chlorobenzene	ND		25.0	26.1		ug/L		105	60 - 140	1	20
Chloroethane	ND		25.0	21.7		ug/L		87	51 - 140	2	20
Chloroform	ND		25.0	27.3		ug/L		109	60 - 140	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90436-A-5 MSD
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	ND		25.0	19.0		ug/L		76	52 - 140	3	20
2-Chlorotoluene	ND		25.0	26.5		ug/L		106	60 - 140	2	20
4-Chlorotoluene	ND		25.0	26.6		ug/L		106	60 - 140	1	20
Chlorodibromomethane	ND		25.0	28.7		ug/L		115	60 - 140	2	20
1,2-Dichlorobenzene	ND		25.0	26.3		ug/L		105	60 - 140	3	20
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140	1	20
1,4-Dichlorobenzene	ND		25.0	25.5		ug/L		102	60 - 140	1	20
1,3-Dichloropropane	ND		25.0	27.4		ug/L		109	60 - 140	3	20
1,1-Dichloropropene	ND		25.0	27.0		ug/L		108	60 - 140	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	26.2		ug/L		105	60 - 140	1	20
Ethylene Dibromide	ND		25.0	27.4		ug/L		109	60 - 140	3	20
Dibromomethane	ND		25.0	27.0		ug/L		108	60 - 140	0	20
Dichlorodifluoromethane	ND		25.0	16.1		ug/L		65	38 - 140	3	20
1,1-Dichloroethane	ND		25.0	27.3		ug/L		109	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	28.3		ug/L		113	60 - 140	1	20
1,1-Dichloroethene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	27.5		ug/L		108	60 - 140	2	20
trans-1,2-Dichloroethene	ND		25.0	25.3		ug/L		101	60 - 140	1	20
1,2-Dichloropropane	ND		25.0	27.6		ug/L		110	60 - 140	0	20
cis-1,3-Dichloropropene	ND		25.0	29.0		ug/L		116	60 - 140	1	20
trans-1,3-Dichloropropene	ND		25.0	29.4		ug/L		118	60 - 140	2	20
Ethylbenzene	ND		25.0	26.6		ug/L		106	60 - 140	1	20
Hexachlorobutadiene	ND		25.0	30.2		ug/L		121	60 - 140	9	20
2-Hexanone	ND		125	147		ug/L		118	60 - 140	3	20
Isopropylbenzene	ND		25.0	28.0		ug/L		112	60 - 140	4	20
4-Isopropyltoluene	ND		25.0	26.9		ug/L		108	60 - 140	4	20
Methylene Chloride	ND		25.0	26.5		ug/L		106	40 - 140	1	20
4-Methyl-2-pentanone (MIBK)	ND		125	145		ug/L		116	58 - 130	3	20
Naphthalene	ND		25.0	27.0		ug/L		108	56 - 140	6	20
N-Propylbenzene	ND		25.0	26.5		ug/L		106	60 - 140	1	20
Styrene	ND		25.0	28.8		ug/L		115	60 - 140	2	20
1,1,1,2-Tetrachloroethane	ND		25.0	28.4		ug/L		113	60 - 140	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.4		ug/L		102	60 - 140	3	20
Tetrachloroethene	49		25.0	64.4		ug/L		63	60 - 140	3	20
Toluene	ND		25.0	26.1		ug/L		104	60 - 140	2	20
1,2,3-Trichlorobenzene	ND		25.0	27.9		ug/L		112	60 - 140	9	20
1,2,4-Trichlorobenzene	ND		25.0	27.8		ug/L		111	60 - 140	7	20
1,1,1-Trichloroethane	ND		25.0	28.3		ug/L		113	60 - 140	2	20
1,1,2-Trichloroethane	ND		25.0	27.4		ug/L		110	60 - 140	2	20
Trichloroethene	2.0		25.0	27.8		ug/L		103	60 - 140	2	20
Trichlorofluoromethane	ND		25.0	26.9		ug/L		108	60 - 140	1	20
1,2,3-Trichloropropane	ND		25.0	26.0		ug/L		104	60 - 140	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.9		ug/L		104	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		25.0	27.5		ug/L		110	60 - 140	2	20
1,3,5-Trimethylbenzene	ND		25.0	27.7		ug/L		111	60 - 140	3	20
Vinyl acetate	ND		25.0	28.2		ug/L		113	40 - 140	2	20
Vinyl chloride	ND		25.0	19.4		ug/L		77	58 - 140	3	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-90436-A-5 MSD
Matrix: Water
Analysis Batch: 257314

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	ND		25.0	27.0		ug/L		108	60 - 140	1	20
o-Xylene	ND		25.0	27.7		ug/L		111	60 - 140	2	20
2,2-Dichloropropane	ND		25.0	29.7		ug/L		119	60 - 140	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-257452/1-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Bis(2-chloroethyl)ether	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Chlorophenol	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
1,3-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
1,4-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzyl alcohol	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
1,2-Dichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Methylphenol	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Methylphenol, 3 & 4	ND		8.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
N-Nitrosodi-n-propylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Hexachloroethane	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Nitrobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Isophorone	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Nitrophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4-Dimethylphenol	ND		3.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Bis(2-chloroethoxy)methane	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4-Dichlorophenol	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Naphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Chloroaniline	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Hexachlorobutadiene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Chloro-3-methylphenol	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Methylnaphthalene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Hexachlorocyclopentadiene	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4,6-Trichlorophenol	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4,5-Trichlorophenol	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Chloronaphthalene	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Nitroaniline	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
Dimethyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Acenaphthylene	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
3-Nitroaniline	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Acenaphthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-257452/1-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		20		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Nitrophenol	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
Dibenzofuran	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,4-Dinitrotoluene	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
2,6-Dinitrotoluene	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Diethyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Chlorophenyl phenyl ether	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Fluorene	ND		4.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Nitroaniline	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
2-Methyl-4,6-dinitrophenol	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
N-Nitrosodiphenylamine	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
4-Bromophenyl phenyl ether	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Hexachlorobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Pentachlorophenol	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
Phenanthrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Di-n-butyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Butyl benzyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
3,3'-Dichlorobenzidine	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[a]anthracene	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		12/21/18 13:52	12/23/18 18:33	1
Chrysene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Di-n-octyl phthalate	ND		5.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[b]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[a]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[k]fluoranthene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzo[g,h,i]perylene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Benzoic acid	ND		20		ug/L		12/21/18 13:52	12/23/18 18:33	1
Azobenzene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1
Dibenz(a,h)anthracene	ND		2.0		ug/L		12/21/18 13:52	12/23/18 18:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*56*		*11 - 92*	*12/21/18 13:52*	*12/23/18 18:33*	*1*
2-Fluorobiphenyl	*67*		*10 - 101*	*12/21/18 13:52*	*12/23/18 18:33*	*1*
Terphenyl-d14	*84*		*34 - 128*	*12/21/18 13:52*	*12/23/18 18:33*	*1*
2-Fluorophenol	*38*		*10 - 65*	*12/21/18 13:52*	*12/23/18 18:33*	*1*
Phenol-d5	*27*		*10 - 46*	*12/21/18 13:52*	*12/23/18 18:33*	*1*
2,4,6-Tribromophenol	*75*		*17 - 115*	*12/21/18 13:52*	*12/23/18 18:33*	*1*

Lab Sample ID: LCS 720-257452/2-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257452

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenol			40.0	12.3		ug/L		31	10 - 110		

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-257452/2-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethyl)ether	40.0	31.7		ug/L		79	38 - 110
2-Chlorophenol	40.0	29.7		ug/L		74	37 - 110
1,3-Dichlorobenzene	40.0	25.9		ug/L		65	35 - 110
1,4-Dichlorobenzene	40.0	26.7		ug/L		67	36 - 110
Benzyl alcohol	40.0	29.0		ug/L		73	37 - 110
1,2-Dichlorobenzene	40.0	27.0		ug/L		68	36 - 110
2-Methylphenol	40.0	26.2		ug/L		66	34 - 110
Methylphenol, 3 & 4	40.0	23.9		ug/L		60	31 - 110
N-Nitrosodi-n-propylamine	40.0	33.1		ug/L		83	42 - 110
Hexachloroethane	40.0	26.3		ug/L		66	34 - 110
Nitrobenzene	40.0	29.7		ug/L		74	41 - 110
Isophorone	40.0	32.6		ug/L		82	47 - 110
2-Nitrophenol	40.0	31.2		ug/L		78	40 - 100
2,4-Dimethylphenol	40.0	31.7		ug/L		79	42 - 110
Bis(2-chloroethoxy)methane	40.0	32.5		ug/L		81	41 - 110
2,4-Dichlorophenol	40.0	30.4		ug/L		76	44 - 110
1,2,4-Trichlorobenzene	40.0	27.7		ug/L		69	40 - 110
Naphthalene	40.0	29.1		ug/L		73	41 - 110
4-Chloroaniline	40.0	31.0		ug/L		78	41 - 110
Hexachlorobutadiene	40.0	27.2		ug/L		68	40 - 110
4-Chloro-3-methylphenol	40.0	33.3		ug/L		83	50 - 110
2-Methylnaphthalene	40.0	29.4		ug/L		74	44 - 110
Hexachlorocyclopentadiene	40.0	21.7		ug/L		54	10 - 110
2,4,6-Trichlorophenol	40.0	31.6		ug/L		79	50 - 100
2,4,5-Trichlorophenol	40.0	32.4		ug/L		81	53 - 101
2-Chloronaphthalene	40.0	29.4		ug/L		73	46 - 110
2-Nitroaniline	40.0	33.9		ug/L		85	55 - 105
Dimethyl phthalate	40.0	37.5		ug/L		94	61 - 101
Acenaphthylene	40.0	31.0		ug/L		77	47 - 110
3-Nitroaniline	40.0	32.8		ug/L		82	56 - 110
Acenaphthene	40.0	30.5		ug/L		76	47 - 103
2,4-Dinitrophenol	80.0	79.1		ug/L		99	23 - 128
4-Nitrophenol	80.0	35.4		ug/L		44	15 - 110
Dibenzofuran	40.0	31.7		ug/L		79	51 - 110
2,4-Dinitrotoluene	40.0	37.3		ug/L		93	64 - 104
2,6-Dinitrotoluene	40.0	32.5		ug/L		81	57 - 102
Diethyl phthalate	40.0	37.7		ug/L		94	65 - 105
4-Chlorophenyl phenyl ether	40.0	31.1		ug/L		78	56 - 110
Fluorene	40.0	32.5		ug/L		81	54 - 100
4-Nitroaniline	40.0	36.9		ug/L		92	57 - 105
2-Methyl-4,6-dinitrophenol	80.0	75.5		ug/L		94	42 - 121
N-Nitrosodiphenylamine	40.0	33.7		ug/L		84	60 - 100
4-Bromophenyl phenyl ether	40.0	32.7		ug/L		82	58 - 110
Hexachlorobenzene	40.0	33.2		ug/L		83	60 - 100
Pentachlorophenol	80.0	75.9		ug/L		95	54 - 105
Phenanthrene	40.0	33.5		ug/L		84	62 - 102
Anthracene	40.0	33.9		ug/L		85	63 - 103
Di-n-butyl phthalate	40.0	39.1		ug/L		98	69 - 109

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-257452/2-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	40.0	34.0		ug/L		85	65 - 106
Pyrene	40.0	37.3		ug/L		93	68 - 115
Butyl benzyl phthalate	40.0	40.6		ug/L		101	72 - 115
3,3'-Dichlorobenzidine	40.0	31.5		ug/L		79	59 - 110
Benzo[a]anthracene	40.0	35.9		ug/L		90	67 - 107
Bis(2-ethylhexyl) phthalate	40.0	40.3		ug/L		101	72 - 115
Chrysene	40.0	35.5		ug/L		89	67 - 107
Di-n-octyl phthalate	40.0	37.7		ug/L		94	70 - 115
Benzo[b]fluoranthene	40.0	37.6		ug/L		94	68 - 115
Benzo[a]pyrene	40.0	34.9		ug/L		87	67 - 107
Benzo[k]fluoranthene	40.0	34.3		ug/L		86	67 - 109
Indeno[1,2,3-cd]pyrene	40.0	36.2		ug/L		90	66 - 111
Benzo[g,h,i]perylene	40.0	35.8		ug/L		89	63 - 115
Benzoic acid	40.0	14.6	J	ug/L		37	10 - 110
Azobenzene	40.0	31.5		ug/L		79	55 - 101
Dibenz(a,h)anthracene	40.0	36.7		ug/L		92	67 - 111

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*66*		*11 - 92*
2-Fluorobiphenyl	*75*		*10 - 101*
Terphenyl-d14	*95*		*34 - 128*
2-Fluorophenol	*41*		*10 - 65*
Phenol-d5	*29*		*10 - 46*
2,4,6-Tribromophenol	*92*		*17 - 115*

Lab Sample ID: LCSD 720-257452/3-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257452

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	40.0	12.7		ug/L		32	10 - 110	3	35
Bis(2-chloroethyl)ether	40.0	31.3		ug/L		78	38 - 110	1	35
2-Chlorophenol	40.0	30.4		ug/L		76	37 - 110	2	35
1,3-Dichlorobenzene	40.0	29.3		ug/L		73	35 - 110	12	35
1,4-Dichlorobenzene	40.0	28.8		ug/L		72	36 - 110	8	35
Benzyl alcohol	40.0	30.2		ug/L		76	37 - 110	4	35
1,2-Dichlorobenzene	40.0	28.5		ug/L		71	36 - 110	5	35
2-Methylphenol	40.0	27.3		ug/L		68	34 - 110	4	35
Methylphenol, 3 & 4	40.0	25.3		ug/L		63	31 - 110	6	35
N-Nitrosodi-n-propylamine	40.0	34.0		ug/L		85	42 - 110	3	35
Hexachloroethane	40.0	27.4		ug/L		68	34 - 110	4	35
Nitrobenzene	40.0	30.4		ug/L		76	41 - 110	3	35
Isophorone	40.0	33.9		ug/L		85	47 - 110	4	35
2-Nitrophenol	40.0	33.0		ug/L		82	40 - 100	6	35
2,4-Dimethylphenol	40.0	33.0		ug/L		82	42 - 110	4	35
Bis(2-chloroethoxy)methane	40.0	33.2		ug/L		83	41 - 110	2	35
2,4-Dichlorophenol	40.0	31.4		ug/L		78	44 - 110	3	35
1,2,4-Trichlorobenzene	40.0	29.4		ug/L		74	40 - 110	6	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-257452/3-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257452

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	40.0	30.3		ug/L		76	41 - 110	4	35
4-Chloroaniline	40.0	32.2		ug/L		81	41 - 110	4	35
Hexachlorobutadiene	40.0	29.8		ug/L		74	40 - 110	9	35
4-Chloro-3-methylphenol	40.0	33.9		ug/L		85	50 - 110	2	35
2-Methylnaphthalene	40.0	30.9		ug/L		77	44 - 110	5	35
Hexachlorocyclopentadiene	40.0	25.8		ug/L		65	10 - 110	17	35
2,4,6-Trichlorophenol	40.0	34.6		ug/L		87	50 - 100	9	35
2,4,5-Trichlorophenol	40.0	35.1		ug/L		88	53 - 101	8	35
2-Chloronaphthalene	40.0	32.7		ug/L		82	46 - 110	11	35
2-Nitroaniline	40.0	36.5		ug/L		91	55 - 105	7	35
Dimethyl phthalate	40.0	39.0		ug/L		97	61 - 101	4	35
Acenaphthylene	40.0	33.3		ug/L		83	47 - 110	7	35
3-Nitroaniline	40.0	35.1		ug/L		88	56 - 110	7	35
Acenaphthene	40.0	33.3		ug/L		83	47 - 103	9	35
2,4-Dinitrophenol	80.0	84.1		ug/L		105	23 - 128	6	35
4-Nitrophenol	80.0	35.3		ug/L		44	15 - 110	0	35
Dibenzofuran	40.0	33.1		ug/L		83	51 - 110	4	35
2,4-Dinitrotoluene	40.0	38.4		ug/L		96	64 - 104	3	35
2,6-Dinitrotoluene	40.0	35.1		ug/L		88	57 - 102	8	35
Diethyl phthalate	40.0	39.3		ug/L		98	65 - 105	4	35
4-Chlorophenyl phenyl ether	40.0	33.4		ug/L		83	56 - 110	7	35
Fluorene	40.0	34.7		ug/L		87	54 - 100	7	35
4-Nitroaniline	40.0	38.8		ug/L		97	57 - 105	5	35
2-Methyl-4,6-dinitrophenol	80.0	80.8		ug/L		101	42 - 121	7	35
N-Nitrosodiphenylamine	40.0	35.6		ug/L		89	60 - 100	5	35
4-Bromophenyl phenyl ether	40.0	34.1		ug/L		85	58 - 110	4	35
Hexachlorobenzene	40.0	34.1		ug/L		85	60 - 100	3	35
Pentachlorophenol	80.0	80.9		ug/L		101	54 - 105	6	35
Phenanthrene	40.0	35.0		ug/L		88	62 - 102	4	35
Anthracene	40.0	35.6		ug/L		89	63 - 103	5	35
Di-n-butyl phthalate	40.0	39.7		ug/L		99	69 - 109	2	35
Fluoranthene	40.0	36.3		ug/L		91	65 - 106	6	35
Pyrene	40.0	38.8		ug/L		97	68 - 115	4	35
Butyl benzyl phthalate	40.0	40.2		ug/L		101	72 - 115	1	35
3,3'-Dichlorobenzidine	40.0	34.0		ug/L		85	59 - 110	8	35
Benzo[a]anthracene	40.0	36.8		ug/L		92	67 - 107	2	35
Bis(2-ethylhexyl) phthalate	40.0	40.2		ug/L		100	72 - 115	0	35
Chrysene	40.0	36.1		ug/L		90	67 - 107	2	35
Di-n-octyl phthalate	40.0	37.7		ug/L		94	70 - 115	0	35
Benzo[b]fluoranthene	40.0	38.9		ug/L		97	68 - 115	3	35
Benzo[a]pyrene	40.0	36.8		ug/L		92	67 - 107	5	35
Benzo[k]fluoranthene	40.0	35.6		ug/L		89	67 - 109	4	35
Indeno[1,2,3-cd]pyrene	40.0	37.6		ug/L		94	66 - 111	4	35
Benzo[g,h,i]perylene	40.0	36.9		ug/L		92	63 - 115	3	35
Benzoic acid	40.0	12.3	J	ug/L		31	10 - 110	17	35
Azobenzene	40.0	33.1		ug/L		83	55 - 101	5	35
Dibenz(a,h)anthracene	40.0	38.2		ug/L		95	67 - 111	4	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-257452/3-A
Matrix: Water
Analysis Batch: 257503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257452

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*69*		*11 - 92*
2-Fluorobiphenyl	*81*		*10 - 101*
Terphenyl-d14	*97*		*34 - 128*
2-Fluorophenol	*41*		*10 - 65*
Phenol-d5	*30*		*10 - 46*
2,4,6-Tribromophenol	*97*		*17 - 115*

Lab Sample ID: MB 720-257618/1-A
Matrix: Water
Analysis Batch: 257632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Bis(2-chloroethyl)ether	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2-Chlorophenol	ND		4.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
1,3-Dichlorobenzene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
1,4-Dichlorobenzene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Benzyl alcohol	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
1,2-Dichlorobenzene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2-Methylphenol	ND		4.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Methylphenol, 3 & 4	ND		8.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
N-Nitrosodi-n-propylamine	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Hexachloroethane	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Nitrobenzene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Isophorone	ND		4.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2-Nitrophenol	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2,4-Dimethylphenol	ND		3.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Bis(2-chloroethoxy)methane	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2,4-Dichlorophenol	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Naphthalene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
4-Chloroaniline	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Hexachlorobutadiene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
4-Chloro-3-methylphenol	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2-Methylnaphthalene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Hexachlorocyclopentadiene	ND		10		ug/L		12/26/18 14:33	12/26/18 23:16	1
2,4,6-Trichlorophenol	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2,4,5-Trichlorophenol	ND		4.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2-Chloronaphthalene	ND		4.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2-Nitroaniline	ND		10		ug/L		12/26/18 14:33	12/26/18 23:16	1
Dimethyl phthalate	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Acenaphthylene	ND		4.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
3-Nitroaniline	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Acenaphthene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2,4-Dinitrophenol	ND		20		ug/L		12/26/18 14:33	12/26/18 23:16	1
4-Nitrophenol	ND		10		ug/L		12/26/18 14:33	12/26/18 23:16	1
Dibenzofuran	ND		4.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
2,4-Dinitrotoluene	ND		4.0		ug/L		12/26/18 14:33	12/26/18 23:16	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-257618/1-A
Matrix: Water
Analysis Batch: 257632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Diethyl phthalate	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
4-Chlorophenyl phenyl ether	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Fluorene	ND		4.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
4-Nitroaniline	ND		10		ug/L		12/26/18 14:33	12/26/18 23:16	1
2-Methyl-4,6-dinitrophenol	ND		10		ug/L		12/26/18 14:33	12/26/18 23:16	1
N-Nitrosodiphenylamine	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
4-Bromophenyl phenyl ether	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Hexachlorobenzene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Pentachlorophenol	ND		10		ug/L		12/26/18 14:33	12/26/18 23:16	1
Phenanthrene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Anthracene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Di-n-butyl phthalate	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Fluoranthene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Pyrene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Butyl benzyl phthalate	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
3,3'-Dichlorobenzidine	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Benzo[a]anthracene	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		12/26/18 14:33	12/26/18 23:16	1
Chrysene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Di-n-octyl phthalate	ND		5.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Benzo[b]fluoranthene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Benzo[a]pyrene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Benzo[k]fluoranthene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Benzo[g,h,i]perylene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Benzoic acid	ND		20		ug/L		12/26/18 14:33	12/26/18 23:16	1
Azobenzene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1
Dibenz(a,h)anthracene	ND		2.0		ug/L		12/26/18 14:33	12/26/18 23:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*54*		*11 - 92*	*12/26/18 14:33*	*12/26/18 23:16*	*1*
2-Fluorobiphenyl	*71*		*10 - 101*	*12/26/18 14:33*	*12/26/18 23:16*	*1*
Terphenyl-d14	*93*		*34 - 128*	*12/26/18 14:33*	*12/26/18 23:16*	*1*
2-Fluorophenol	*32*		*10 - 65*	*12/26/18 14:33*	*12/26/18 23:16*	*1*
Phenol-d5	*24*		*10 - 46*	*12/26/18 14:33*	*12/26/18 23:16*	*1*
2,4,6-Tribromophenol	*75*		*17 - 115*	*12/26/18 14:33*	*12/26/18 23:16*	*1*

Lab Sample ID: LCS 720-257618/2-A
Matrix: Water
Analysis Batch: 257632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	40.0	11.0		ug/L		28	10 - 110
Bis(2-chloroethyl)ether	40.0	26.3		ug/L		66	38 - 110
2-Chlorophenol	40.0	26.5		ug/L		66	37 - 110
1,3-Dichlorobenzene	40.0	27.0		ug/L		67	35 - 110
1,4-Dichlorobenzene	40.0	27.3		ug/L		68	36 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-257618/2-A
Matrix: Water
Analysis Batch: 257632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzyl alcohol	40.0	27.9		ug/L		70	37 - 110
1,2-Dichlorobenzene	40.0	26.7		ug/L		67	36 - 110
2-Methylphenol	40.0	22.8		ug/L		57	34 - 110
Methylphenol, 3 & 4	40.0	21.8		ug/L		54	31 - 110
N-Nitrosodi-n-propylamine	40.0	32.2		ug/L		81	42 - 110
Hexachloroethane	40.0	27.1		ug/L		68	34 - 110
Nitrobenzene	40.0	29.7		ug/L		74	41 - 110
Isophorone	40.0	32.2		ug/L		81	47 - 110
2-Nitrophenol	40.0	31.5		ug/L		79	40 - 100
2,4-Dimethylphenol	40.0	30.8		ug/L		77	42 - 110
Bis(2-chloroethoxy)methane	40.0	31.4		ug/L		78	41 - 110
2,4-Dichlorophenol	40.0	30.2		ug/L		75	44 - 110
1,2,4-Trichlorobenzene	40.0	28.5		ug/L		71	40 - 110
Naphthalene	40.0	29.3		ug/L		73	41 - 110
4-Chloroaniline	40.0	30.4		ug/L		76	41 - 110
Hexachlorobutadiene	40.0	28.6		ug/L		72	40 - 110
4-Chloro-3-methylphenol	40.0	31.0		ug/L		77	50 - 110
2-Methylnaphthalene	40.0	29.2		ug/L		73	44 - 110
Hexachlorocyclopentadiene	40.0	12.1		ug/L		30	10 - 110
2,4,6-Trichlorophenol	40.0	32.7		ug/L		82	50 - 100
2,4,5-Trichlorophenol	40.0	32.9		ug/L		82	53 - 101
2-Chloronaphthalene	40.0	31.2		ug/L		78	46 - 110
2-Nitroaniline	40.0	32.9		ug/L		82	55 - 105
Dimethyl phthalate	40.0	35.5		ug/L		89	61 - 101
Acenaphthylene	40.0	31.7		ug/L		79	47 - 110
3-Nitroaniline	40.0	31.7		ug/L		79	56 - 110
Acenaphthene	40.0	32.0		ug/L		80	47 - 103
2,4-Dinitrophenol	80.0	62.9		ug/L		79	23 - 128
4-Nitrophenol	80.0	31.0		ug/L		39	15 - 110
Dibenzofuran	40.0	32.1		ug/L		80	51 - 110
2,4-Dinitrotoluene	40.0	34.8		ug/L		87	64 - 104
2,6-Dinitrotoluene	40.0	32.3		ug/L		81	57 - 102
Diethyl phthalate	40.0	36.2		ug/L		91	65 - 105
4-Chlorophenyl phenyl ether	40.0	32.7		ug/L		82	56 - 110
Fluorene	40.0	33.3		ug/L		83	54 - 100
4-Nitroaniline	40.0	35.6		ug/L		89	57 - 105
2-Methyl-4,6-dinitrophenol	80.0	66.8		ug/L		84	42 - 121
N-Nitrosodiphenylamine	40.0	33.4		ug/L		83	60 - 100
4-Bromophenyl phenyl ether	40.0	33.9		ug/L		85	58 - 110
Hexachlorobenzene	40.0	33.8		ug/L		85	60 - 100
Pentachlorophenol	80.0	66.8		ug/L		83	54 - 105
Phenanthrene	40.0	33.4		ug/L		84	62 - 102
Anthracene	40.0	33.0		ug/L		83	63 - 103
Di-n-butyl phthalate	40.0	36.3		ug/L		91	69 - 109
Fluoranthene	40.0	33.2		ug/L		83	65 - 106
Pyrene	40.0	36.5		ug/L		91	68 - 115
Butyl benzyl phthalate	40.0	38.0		ug/L		95	72 - 115
3,3'-Dichlorobenzidine	40.0	29.7		ug/L		74	59 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-257618/2-A
Matrix: Water
Analysis Batch: 257632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	40.0	33.7		ug/L		84	67 - 107
Bis(2-ethylhexyl) phthalate	40.0	37.4		ug/L		93	72 - 115
Chrysene	40.0	33.5		ug/L		84	67 - 107
Di-n-octyl phthalate	40.0	36.3		ug/L		91	70 - 115
Benzo[b]fluoranthene	40.0	34.8		ug/L		87	68 - 115
Benzo[a]pyrene	40.0	31.9		ug/L		80	67 - 107
Benzo[k]fluoranthene	40.0	32.3		ug/L		81	67 - 109
Indeno[1,2,3-cd]pyrene	40.0	34.8		ug/L		87	66 - 111
Benzo[g,h,i]perylene	40.0	34.7		ug/L		87	63 - 115
Benzoic acid	40.0	12.1	J	ug/L		30	10 - 110
Azobenzene	40.0	31.8		ug/L		79	55 - 101
Dibenz(a,h)anthracene	40.0	35.5		ug/L		89	67 - 111

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*68*		*11 - 92*
2-Fluorobiphenyl	*80*		*10 - 101*
Terphenyl-d14	*93*		*34 - 128*
2-Fluorophenol	*36*		*10 - 65*
Phenol-d5	*26*		*10 - 46*
2,4,6-Tribromophenol	*87*		*17 - 115*

Lab Sample ID: LCSD 720-257618/3-A
Matrix: Water
Analysis Batch: 257632

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257618

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	40.0	9.81		ug/L		25	10 - 110	12	35
Bis(2-chloroethyl)ether	40.0	23.6		ug/L		59	38 - 110	11	35
2-Chlorophenol	40.0	24.0		ug/L		60	37 - 110	10	35
1,3-Dichlorobenzene	40.0	24.5		ug/L		61	35 - 110	10	35
1,4-Dichlorobenzene	40.0	24.7		ug/L		62	36 - 110	10	35
Benzyl alcohol	40.0	24.7		ug/L		62	37 - 110	12	35
1,2-Dichlorobenzene	40.0	25.6		ug/L		64	36 - 110	4	35
2-Methylphenol	40.0	19.7		ug/L		49	34 - 110	15	35
Methylphenol, 3 & 4	40.0	18.5		ug/L		46	31 - 110	16	35
N-Nitrosodi-n-propylamine	40.0	27.3		ug/L		68	42 - 110	17	35
Hexachloroethane	40.0	25.4		ug/L		63	34 - 110	7	35
Nitrobenzene	40.0	25.9		ug/L		65	41 - 110	14	35
Isophorone	40.0	28.6		ug/L		72	47 - 110	12	35
2-Nitrophenol	40.0	28.0		ug/L		70	40 - 100	12	35
2,4-Dimethylphenol	40.0	27.6		ug/L		69	42 - 110	11	35
Bis(2-chloroethoxy)methane	40.0	27.6		ug/L		69	41 - 110	13	35
2,4-Dichlorophenol	40.0	26.6		ug/L		66	44 - 110	13	35
1,2,4-Trichlorobenzene	40.0	25.3		ug/L		63	40 - 110	12	35
Naphthalene	40.0	25.9		ug/L		65	41 - 110	12	35
4-Chloroaniline	40.0	27.1		ug/L		68	41 - 110	11	35
Hexachlorobutadiene	40.0	26.8		ug/L		67	40 - 110	7	35
4-Chloro-3-methylphenol	40.0	26.6		ug/L		67	50 - 110	15	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-257618/3-A
Matrix: Water
Analysis Batch: 257632

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257618

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene			40.0	26.2		ug/L		66	44 - 110	11	35
Hexachlorocyclopentadiene			40.0	12.0		ug/L		30	10 - 110	0	35
2,4,6-Trichlorophenol			40.0	28.8		ug/L		72	50 - 100	13	35
2,4,5-Trichlorophenol			40.0	29.4		ug/L		73	53 - 101	11	35
2-Chloronaphthalene			40.0	27.4		ug/L		69	46 - 110	13	35
2-Nitroaniline			40.0	29.0		ug/L		72	55 - 105	13	35
Dimethyl phthalate			40.0	30.8		ug/L		77	61 - 101	14	35
Acenaphthylene			40.0	27.2		ug/L		68	47 - 110	15	35
3-Nitroaniline			40.0	27.6		ug/L		69	56 - 110	14	35
Acenaphthene			40.0	28.1		ug/L		70	47 - 103	13	35
2,4-Dinitrophenol			80.0	59.1		ug/L		74	23 - 128	6	35
4-Nitrophenol			80.0	26.8		ug/L		33	15 - 110	14	35
Dibenzofuran			40.0	28.0		ug/L		70	51 - 110	14	35
2,4-Dinitrotoluene			40.0	30.9		ug/L		77	64 - 104	12	35
2,6-Dinitrotoluene			40.0	28.9		ug/L		72	57 - 102	11	35
Diethyl phthalate			40.0	31.7		ug/L		79	65 - 105	13	35
4-Chlorophenyl phenyl ether			40.0	29.4		ug/L		73	56 - 110	11	35
Fluorene			40.0	29.7		ug/L		74	54 - 100	12	35
4-Nitroaniline			40.0	30.1		ug/L		75	57 - 105	17	35
2-Methyl-4,6-dinitrophenol			80.0	61.3		ug/L		77	42 - 121	9	35
N-Nitrosodiphenylamine			40.0	31.0		ug/L		77	60 - 100	8	35
4-Bromophenyl phenyl ether			40.0	31.8		ug/L		79	58 - 110	7	35
Hexachlorobenzene			40.0	31.4		ug/L		79	60 - 100	7	35
Pentachlorophenol			80.0	62.7		ug/L		78	54 - 105	6	35
Phenanthrene			40.0	31.0		ug/L		78	62 - 102	7	35
Anthracene			40.0	30.7		ug/L		77	63 - 103	7	35
Di-n-butyl phthalate			40.0	34.8		ug/L		87	69 - 109	4	35
Fluoranthene			40.0	31.4		ug/L		79	65 - 106	6	35
Pyrene			40.0	33.0		ug/L		82	68 - 115	10	35
Butyl benzyl phthalate			40.0	35.2		ug/L		88	72 - 115	8	35
3,3'-Dichlorobenzidine			40.0	27.1		ug/L		68	59 - 110	9	35
Benzo[a]anthracene			40.0	31.1		ug/L		78	67 - 107	8	35
Bis(2-ethylhexyl) phthalate			40.0	34.4		ug/L		86	72 - 115	8	35
Chrysene			40.0	30.8		ug/L		77	67 - 107	8	35
Di-n-octyl phthalate			40.0	33.2		ug/L		83	70 - 115	9	35
Benzo[b]fluoranthene			40.0	30.8		ug/L		77	68 - 115	12	35
Benzo[a]pyrene			40.0	30.5		ug/L		76	67 - 107	4	35
Benzo[k]fluoranthene			40.0	31.8		ug/L		80	67 - 109	2	35
Indeno[1,2,3-cd]pyrene			40.0	31.6		ug/L		79	66 - 111	9	35
Benzo[g,h,i]perylene			40.0	32.5		ug/L		81	63 - 115	7	35
Benzoic acid			40.0	ND		ug/L		24	10 - 110	23	35
Azobenzene			40.0	28.3		ug/L		71	55 - 101	12	35
Dibenz(a,h)anthracene			40.0	32.4		ug/L		81	67 - 111	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*59*		*11 - 92*
2-Fluorobiphenyl	*70*		*10 - 101*
Terphenyl-d14	*84*		*34 - 128*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-257618/3-A
Matrix: Water
Analysis Batch: 257632

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257618

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*32*		*10 - 65*
Phenol-d5	*23*		*10 - 46*
2,4,6-Tribromophenol	*80*		*17 - 115*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-257384/1-A
Matrix: Water
Analysis Batch: 257411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		12/20/18 16:30	12/21/18 10:53	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		12/20/18 16:30	12/21/18 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*85*		*23 - 156*	*12/20/18 16:30*	*12/21/18 10:53*	*1*

Lab Sample ID: LCS 720-257384/2-A
Matrix: Water
Analysis Batch: 257411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	2060		ug/L		82	34 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*100*		*23 - 156*

Lab Sample ID: LCSD 720-257384/3-A
Matrix: Water
Analysis Batch: 257411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257384

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	2190		ug/L		88	34 - 115	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*100*		*23 - 156*

Lab Sample ID: MB 720-257531/1-A
Matrix: Water
Analysis Batch: 257514

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		12/24/18 10:30	12/24/18 17:26	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		12/24/18 10:30	12/24/18 17:26	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-257531/1-A
Matrix: Water
Analysis Batch: 257514

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257531

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	*88*		*23 - 156*	*12/24/18 10:30*	*12/24/18 17:26*	*1*

Lab Sample ID: LCS 720-257531/2-A
Matrix: Water
Analysis Batch: 257514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257531

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2500	2180		ug/L		87	34 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*100*		*23 - 156*

Lab Sample ID: LCSD 720-257531/3-A
Matrix: Water
Analysis Batch: 257514

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257531

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	2300		ug/L		92	34 - 115	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*98*		*23 - 156*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257571/1-A
Matrix: Water
Analysis Batch: 257642

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		12/26/18 07:43	12/26/18 18:32	1
Arsenic	ND		0.010		mg/L		12/26/18 07:43	12/26/18 18:32	1
Barium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 18:32	1
Beryllium	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 18:32	1
Cadmium	ND		0.0025		mg/L		12/26/18 07:43	12/26/18 18:32	1
Chromium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 18:32	1
Cobalt	ND		0.0020		mg/L		12/26/18 07:43	12/26/18 18:32	1
Copper	ND		0.020		mg/L		12/26/18 07:43	12/26/18 18:32	1
Lead	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 18:32	1
Molybdenum	ND		0.010		mg/L		12/26/18 07:43	12/26/18 18:32	1
Nickel	ND		0.010		mg/L		12/26/18 07:43	12/26/18 18:32	1
Selenium	ND		0.020		mg/L		12/26/18 07:43	12/26/18 18:32	1
Silver	ND		0.0050		mg/L		12/26/18 07:43	12/26/18 18:32	1
Thallium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 18:32	1
Vanadium	ND		0.010		mg/L		12/26/18 07:43	12/26/18 18:32	1
Zinc	ND		0.020		mg/L		12/26/18 07:43	12/26/18 18:32	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257571/2-A
Matrix: Water
Analysis Batch: 257642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	0.971		mg/L		97	80 - 120
Arsenic	1.00	1.00		mg/L		100	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	1.00	1.01		mg/L		101	80 - 120
Cadmium	1.00	1.02		mg/L		102	80 - 120
Chromium	1.00	1.00		mg/L		100	80 - 120
Cobalt	1.00	1.03		mg/L		103	80 - 120
Copper	1.00	1.01		mg/L		101	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Molybdenum	1.00	1.02		mg/L		102	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Silver	0.500	0.451		mg/L		90	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Vanadium	1.00	1.03		mg/L		103	80 - 120
Zinc	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: 320-46304-A-1-A MS
Matrix: Water
Analysis Batch: 257642

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	0.943		mg/L		94	75 - 125
Arsenic	0.016		1.00	1.00		mg/L		99	75 - 125
Barium	0.13		1.00	1.12		mg/L		99	75 - 125
Beryllium	ND		1.00	0.992		mg/L		99	75 - 125
Cadmium	ND		1.00	0.954		mg/L		95	75 - 125
Chromium	ND		1.00	0.954		mg/L		95	75 - 125
Cobalt	ND		1.00	0.956		mg/L		95	75 - 125
Copper	0.048		1.00	1.01		mg/L		97	75 - 125
Lead	ND		1.00	0.958		mg/L		96	75 - 125
Molybdenum	ND		1.00	0.983		mg/L		98	75 - 125
Nickel	0.010		1.00	0.943		mg/L		93	75 - 125
Selenium	ND		1.00	0.981		mg/L		98	75 - 125
Silver	ND		0.500	0.440		mg/L		88	75 - 125
Thallium	ND		1.00	0.948		mg/L		95	75 - 125
Vanadium	0.011		1.00	0.999		mg/L		99	75 - 125
Zinc	0.056		1.00	1.02		mg/L		97	75 - 125

Lab Sample ID: 320-46304-A-1-B MSD
Matrix: Water
Analysis Batch: 257642

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257571

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1.00	0.942		mg/L		94	75 - 125	0	20
Arsenic	0.016		1.00	0.996		mg/L		98	75 - 125	1	20
Barium	0.13		1.00	1.10		mg/L		97	75 - 125	2	20
Beryllium	ND		1.00	0.983		mg/L		98	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 320-46304-A-1-B MSD
Matrix: Water
Analysis Batch: 257642

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257571

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	ND		1.00	0.948		mg/L		95	75 - 125	1	20
Chromium	ND		1.00	0.959		mg/L		96	75 - 125	0	20
Cobalt	ND		1.00	0.951		mg/L		95	75 - 125	0	20
Copper	0.048		1.00	1.03		mg/L		98	75 - 125	2	20
Lead	ND		1.00	0.950		mg/L		95	75 - 125	1	20
Molybdenum	ND		1.00	0.987		mg/L		98	75 - 125	0	20
Nickel	0.010		1.00	0.940		mg/L		93	75 - 125	0	20
Selenium	ND		1.00	0.969		mg/L		97	75 - 125	1	20
Silver	ND		0.500	0.450		mg/L		90	75 - 125	2	20
Thallium	ND		1.00	0.945		mg/L		94	75 - 125	0	20
Vanadium	0.011		1.00	0.993		mg/L		98	75 - 125	1	20
Zinc	0.056		1.00	1.01		mg/L		96	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-257846/1-A
Matrix: Water
Analysis Batch: 257979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/03/19 19:52	01/04/19 09:05	1

Lab Sample ID: LCS 720-257846/2-A
Matrix: Water
Analysis Batch: 257979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257846

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.0100	0.00974		mg/L		97	85 - 115		

Lab Sample ID: 720-90445-I-8-G MS
Matrix: Water
Analysis Batch: 257979

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 257846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.0100	0.00959		mg/L		96	75 - 125		

Lab Sample ID: 720-90445-I-8-H MSD
Matrix: Water
Analysis Batch: 257979

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 257846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.0100	0.00933		mg/L		93	75 - 125	3	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-257306/9
Matrix: Water
Analysis Batch: 257306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			12/19/18 22:11	1

Lab Sample ID: LCS 720-257306/10
Matrix: Water
Analysis Batch: 257306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			0.250	0.253		mg/L		101	90 - 110		

Lab Sample ID: LCSD 720-257306/11
Matrix: Water
Analysis Batch: 257306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			0.250	0.253		mg/L		101	90 - 110	0	20

Lab Sample ID: 720-90444-2 MS
Matrix: Water
Analysis Batch: 257306

Client Sample ID: MK-8A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		0.250	0.248		mg/L		99	85 - 115		

Lab Sample ID: 720-90444-2 MSD
Matrix: Water
Analysis Batch: 257306

Client Sample ID: MK-8A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		0.250	0.247		mg/L		99	85 - 115	0	20

GC/MS VOA

Analysis Batch: 257313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	8260B/CA_LUFT MS	
720-90444-2	MK-8A	Total/NA	Water	8260B/CA_LUFT MS	
720-90444-3	LF-7A	Total/NA	Water	8260B/CA_LUFT MS	
720-90444-8	TB-2	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-257313/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-257313/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-257313/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-257313/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-257313/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-90436-A-10 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
720-90436-A-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 257314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-4	LF-5A	Total/NA	Water	8260B/CA_LUFT MS	
720-90444-5	LF-8A	Total/NA	Water	8260B/CA_LUFT MS	
720-90444-6	MK-7A	Total/NA	Water	8260B/CA_LUFT MS	
720-90444-7	KMW-7A	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-257314/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-257314/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-257314/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-257314/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-257314/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-90436-A-5 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
720-90436-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 257452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	3510C	
720-90444-2	MK-8A	Total/NA	Water	3510C	
720-90444-3	LF-7A	Total/NA	Water	3510C	
720-90444-4	LF-5A	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 257452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-5	LF-8A	Total/NA	Water	3510C	
MB 720-257452/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-257452/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-257452/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 257488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	8270C	257452
720-90444-2	MK-8A	Total/NA	Water	8270C	257452
720-90444-3	LF-7A	Total/NA	Water	8270C	257452
720-90444-4	LF-5A	Total/NA	Water	8270C	257452
720-90444-5	LF-8A	Total/NA	Water	8270C	257452

Analysis Batch: 257503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257452/1-A	Method Blank	Total/NA	Water	8270C	257452
LCS 720-257452/2-A	Lab Control Sample	Total/NA	Water	8270C	257452
LCSD 720-257452/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	257452

Prep Batch: 257618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-6	MK-7A	Total/NA	Water	3510C	
720-90444-7	KMW-7A	Total/NA	Water	3510C	
MB 720-257618/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-257618/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-257618/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 257632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-6	MK-7A	Total/NA	Water	8270C	257618
MB 720-257618/1-A	Method Blank	Total/NA	Water	8270C	257618
LCS 720-257618/2-A	Lab Control Sample	Total/NA	Water	8270C	257618
LCSD 720-257618/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	257618

Analysis Batch: 257657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-7	KMW-7A	Total/NA	Water	8270C	257618

GC Semi VOA

Prep Batch: 257384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	3510C	
720-90444-2	MK-8A	Total/NA	Water	3510C	
720-90444-3	LF-7A	Total/NA	Water	3510C	
MB 720-257384/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-257384/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-257384/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Analysis Batch: 257411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	8015B	257384
720-90444-2	MK-8A	Total/NA	Water	8015B	257384
720-90444-3	LF-7A	Total/NA	Water	8015B	257384
MB 720-257384/1-A	Method Blank	Total/NA	Water	8015B	257384
LCS 720-257384/2-A	Lab Control Sample	Total/NA	Water	8015B	257384
LCSD 720-257384/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	257384

Analysis Batch: 257514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257531/1-A	Method Blank	Total/NA	Water	8015B	257531
LCS 720-257531/2-A	Lab Control Sample	Total/NA	Water	8015B	257531
LCSD 720-257531/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	257531

Analysis Batch: 257515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-4	LF-5A	Total/NA	Water	8015B	257531
720-90444-5	LF-8A	Total/NA	Water	8015B	257531
720-90444-7	KMW-7A	Total/NA	Water	8015B	257531

Prep Batch: 257531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-4	LF-5A	Total/NA	Water	3510C	
720-90444-5	LF-8A	Total/NA	Water	3510C	
720-90444-6	MK-7A	Total/NA	Water	3510C	
720-90444-7	KMW-7A	Total/NA	Water	3510C	
MB 720-257531/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-257531/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-257531/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 257609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-6	MK-7A	Total/NA	Water	8015B	257531

Metals

Prep Batch: 257571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	3010A	
720-90444-2	MK-8A	Total/NA	Water	3010A	
720-90444-3	LF-7A	Total/NA	Water	3010A	
720-90444-4	LF-5A	Total/NA	Water	3010A	
720-90444-5	LF-8A	Total/NA	Water	3010A	
720-90444-6	MK-7A	Total/NA	Water	3010A	
720-90444-7	KMW-7A	Total/NA	Water	3010A	
MB 720-257571/1-A	Method Blank	Total/NA	Water	3010A	
LCS 720-257571/2-A	Lab Control Sample	Total/NA	Water	3010A	
320-46304-A-1-A MS	Matrix Spike	Total/NA	Water	3010A	
320-46304-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Metals (Continued)

Analysis Batch: 257642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	6010B	257571
720-90444-2	MK-8A	Total/NA	Water	6010B	257571
720-90444-3	LF-7A	Total/NA	Water	6010B	257571
720-90444-4	LF-5A	Total/NA	Water	6010B	257571
720-90444-5	LF-8A	Total/NA	Water	6010B	257571
720-90444-6	MK-7A	Total/NA	Water	6010B	257571
720-90444-7	KMW-7A	Total/NA	Water	6010B	257571
MB 720-257571/1-A	Method Blank	Total/NA	Water	6010B	257571
LCS 720-257571/2-A	Lab Control Sample	Total/NA	Water	6010B	257571
320-46304-A-1-A MS	Matrix Spike	Total/NA	Water	6010B	257571
320-46304-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	257571

Analysis Batch: 257674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-5	LF-8A	Total/NA	Water	6010B	257571

Prep Batch: 257846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	7470A	
720-90444-2	MK-8A	Total/NA	Water	7470A	
720-90444-3	LF-7A	Total/NA	Water	7470A	
720-90444-4	LF-5A	Total/NA	Water	7470A	
720-90444-5	LF-8A	Total/NA	Water	7470A	
720-90444-6	MK-7A	Total/NA	Water	7470A	
720-90444-7	KMW-7A	Total/NA	Water	7470A	
MB 720-257846/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-257846/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90445-I-8-G MS	Matrix Spike	Dissolved	Water	7470A	
720-90445-I-8-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 257979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	7470A	257846
720-90444-2	MK-8A	Total/NA	Water	7470A	257846
720-90444-3	LF-7A	Total/NA	Water	7470A	257846
720-90444-4	LF-5A	Total/NA	Water	7470A	257846
720-90444-5	LF-8A	Total/NA	Water	7470A	257846
720-90444-6	MK-7A	Total/NA	Water	7470A	257846
720-90444-7	KMW-7A	Total/NA	Water	7470A	257846
MB 720-257846/1-A	Method Blank	Total/NA	Water	7470A	257846
LCS 720-257846/2-A	Lab Control Sample	Total/NA	Water	7470A	257846
720-90445-I-8-G MS	Matrix Spike	Dissolved	Water	7470A	257846
720-90445-I-8-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	257846

General Chemistry

Analysis Batch: 257306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-1	MW-10A	Total/NA	Water	7196A	
720-90444-2	MK-8A	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 257306 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90444-3	LF-7A	Total/NA	Water	7196A	
720-90444-4	LF-5A	Total/NA	Water	7196A	
720-90444-5	LF-8A	Total/NA	Water	7196A	
720-90444-6	MK-7A	Total/NA	Water	7196A	
720-90444-7	KMW-7A	Total/NA	Water	7196A	
MB 720-257306/9	Method Blank	Total/NA	Water	7196A	
LCS 720-257306/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-257306/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90444-2 MS	MK-8A	Total/NA	Water	7196A	
720-90444-2 MSD	MK-8A	Total/NA	Water	7196A	

Client Sample ID: MW-10A

Date Collected: 12/19/18 08:52
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257313	12/20/18 15:37	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 18:31	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257488	12/21/18 22:25	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257411	12/21/18 15:46	JXL	TAL PLS
Total/NA	Prep	3010A			257571	12/26/18 07:43	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257642	12/26/18 19:33	MAG	TAL PLS
Total/NA	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Total/NA	Analysis	7470A		1	257979	01/04/19 09:39	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:14	ECB	TAL PLS

Client Sample ID: MK-8A

Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257313	12/20/18 16:06	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 18:31	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257488	12/21/18 22:47	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257411	12/21/18 16:10	JXL	TAL PLS
Total/NA	Prep	3010A			257571	12/26/18 07:43	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257642	12/26/18 19:38	MAG	TAL PLS
Total/NA	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Total/NA	Analysis	7470A		1	257979	01/04/19 09:42	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:14	ECB	TAL PLS

Client Sample ID: LF-7A

Date Collected: 12/19/18 11:14
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257313	12/20/18 16:35	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 18:31	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257488	12/21/18 23:09	MQL	TAL PLS
Total/NA	Prep	3510C			257384	12/20/18 16:30	NDU	TAL PLS
Total/NA	Analysis	8015B		1	257411	12/21/18 16:34	JXL	TAL PLS
Total/NA	Prep	3010A			257571	12/26/18 07:43	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257642	12/26/18 19:43	MAG	TAL PLS
Total/NA	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Total/NA	Analysis	7470A		1	257979	01/04/19 09:44	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:14	ECB	TAL PLS

Client Sample ID: LF-5A

Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257314	12/20/18 14:56	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 18:31	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257488	12/21/18 23:32	MQL	TAL PLS
Total/NA	Prep	3510C			257531	12/24/18 10:30	BRR	TAL PLS
Total/NA	Analysis	8015B		1	257515	12/24/18 17:51	DCH	TAL PLS
Total/NA	Prep	3010A			257571	12/26/18 07:43	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257642	12/26/18 19:48	MAG	TAL PLS
Total/NA	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Total/NA	Analysis	7470A		1	257979	01/04/19 09:46	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:16	ECB	TAL PLS

Client Sample ID: LF-8A

Date Collected: 12/19/18 13:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257314	12/20/18 15:22	A1C	TAL PLS
Total/NA	Prep	3510C			257452	12/21/18 18:31	NDU	TAL PLS
Total/NA	Analysis	8270C		1	257488	12/21/18 23:54	MQL	TAL PLS
Total/NA	Prep	3510C			257531	12/24/18 10:30	BRR	TAL PLS
Total/NA	Analysis	8015B		1	257515	12/24/18 18:15	DCH	TAL PLS
Total/NA	Prep	3010A			257571	12/26/18 07:43	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257642	12/26/18 19:52	MAG	TAL PLS
Total/NA	Prep	3010A			257571	12/26/18 07:43	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257674	12/27/18 11:51	MAG	TAL PLS
Total/NA	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Total/NA	Analysis	7470A		1	257979	01/04/19 09:49	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:16	ECB	TAL PLS

Client Sample ID: MK-7A

Date Collected: 12/19/18 14:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257314	12/20/18 15:49	A1C	TAL PLS
Total/NA	Prep	3510C			257618	12/26/18 14:33	BRR	TAL PLS
Total/NA	Analysis	8270C		1	257632	12/26/18 23:42	LPL	TAL PLS
Total/NA	Prep	3510C			257531	12/24/18 10:30	BRR	TAL PLS
Total/NA	Analysis	8015B		1	257609	12/27/18 03:57	DCH	TAL PLS
Total/NA	Prep	3010A			257571	12/26/18 07:43	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257642	12/26/18 19:57	MAG	TAL PLS
Total/NA	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Total/NA	Analysis	7470A		1	257979	01/04/19 09:51	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Client Sample ID: MK-7A
Date Collected: 12/19/18 14:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	257306	12/19/18 22:16	ECB	TAL PLS

Client Sample ID: KMW-7A
Date Collected: 12/19/18 15:16
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257314	12/20/18 16:16	A1C	TAL PLS
Total/NA	Prep	3510C			257618	12/26/18 14:33	BRR	TAL PLS
Total/NA	Analysis	8270C		1	257657	12/27/18 11:30	LPL	TAL PLS
Total/NA	Prep	3510C			257531	12/24/18 10:30	BRR	TAL PLS
Total/NA	Analysis	8015B		1	257515	12/24/18 19:04	DCH	TAL PLS
Total/NA	Prep	3010A			257571	12/26/18 07:43	MAA	TAL PLS
Total/NA	Analysis	6010B		1	257642	12/26/18 20:02	MAG	TAL PLS
Total/NA	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Total/NA	Analysis	7470A		1	257979	01/04/19 09:53	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:16	ECB	TAL PLS

Client Sample ID: TB-2
Date Collected: 12/19/18 08:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90444-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	257313	12/20/18 10:48	A1C	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90444-1
Project/Site: Brisbane OU2

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3010A	Preparation, Total Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL PLS
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU2

TestAmerica Job ID: 720-90444-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90444-1	MW-10A	Water	12/19/18 08:52	12/19/18 19:30
720-90444-2	MK-8A	Water	12/19/18 09:50	12/19/18 19:30
720-90444-3	LF-7A	Water	12/19/18 11:14	12/19/18 19:30
720-90444-4	LF-5A	Water	12/19/18 13:30	12/19/18 19:30
720-90444-5	LF-8A	Water	12/19/18 13:50	12/19/18 19:30
720-90444-6	MK-7A	Water	12/19/18 14:55	12/19/18 19:30
720-90444-7	KMW-7A	Water	12/19/18 15:16	12/19/18 19:30
720-90444-8	TB-2	Water	12/19/18 08:00	12/19/18 19:30

BLAINE
TECH SERVICES, INC

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 181218-JS1

CLIENT: Geosyntec Consultants

SITE: Brisbane OU2

Brisbane, CA

Client P.O.

LAB: TA-SF 1874844 DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION
☐ LIA
☐ OTHER

720-90444

SPECIAL INSTRUCTIONS

COC to Geosyntec Consultants Attn: Anthony Smith

after log in: asmith@geosyntec.com

Report to : Geosyntec Consultants
PDF, EDD & EDF Required

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX (S= SOIL W=H_2O)	CONTAINERS TOTAL		VOCs + GRO (8260B)	CAM-17 (6010B, 7471)	Hexavalent Chromium (7196) Short Hold Time	TPH-D/MO (8015B)	SVOCs (8270C)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1. MW-10A	12/19/18	08:52	W	9	various	X	X	X	X	X				
2. MW-8A	12/19/18	09:50	W	9	various	X	X	X	X	X				
3. LF-7A	12/19/18	11:14	W	9	various	X	X	X	X	X				
4. LF-5A	12/19/18	13:30	W	9	various	X	X	X	X	X				
5. LF-8A	12/19/18	1350	W	9	various	X	X	X	X	X				
6. MW-7A	12/19/18	1455	W	9	various	X	X	X	X	X				
7. MW-7A	12/19/18	1516	W	9	various	X	X	X	X	X				
8. TB-2	12/19/18	0800	W	2	40mL VOA	X								

SAMPLING COMPLETED: DATE 12/19/18 TIME 1550

SAMPLING PERFORMED BY: Tyler Ramey / Jeff Stromberg

RESULTS NEEDED NO LATER THAN: Standard TAT

		DATE	TIME			DATE	TIME
RELEASED BY		12/19/18	1600	RECEIVED BY	TAPES	12/19/18	1600
RELEASED BY	TAPES	12/19/18	1930	RECEIVED BY		12/19/18	1930
RELEASED BY				RECEIVED BY			

SHIPPED VIA

720-90444 Chain of Custody

DATE SENT | TIME SENT | COOLER #: 0.8, 1.0, 1.6°C

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1/9/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90444-1

Login Number: 90444
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90445-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/9/2019 12:03:51 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90445-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90445-1

Comments
See client email in Correspondences for the receipt exceptions listed below.

Receipt
The samples were received on 12/19/2018 7:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 1.0º C, 1.0º C, 1.2º C, 1.3º C, 1.4º C, 1.6º C, 2.5º C and 2.7º C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#3) DG-AG3W. The container labels list time 09:55, while the COC lists time 1035. Logged using the COC time.
(#4) DG-AI3W. The container labels list time 11:09, while the COC lists dificult to read time 1409. Logged using the COC time.
(#8) DG-AM3W. The container labels list time 13:40, while the COC lists time 13:45. Logged using the COC time.

GC/MS VOA
Methods 8260B/CA_LUFTMS and 8260B: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was 4 and the following sample was analyzed after 7 days from sampling: DG-AG3W (720-90445-3).

Methods 8260B/CA_LUFTMS and 8260B: The following volatile sample was analyzed with significant headspace in the sample container(s): DG-AG3W (720-90445-3). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519967 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AC3W (720-90445-1), DG-AE3W (720-90445-2), DG-AG3W (720-90445-3), DG-AI3W (720-90445-4), DUP-17 (720-90445-5), FB-12.19.18 (720-90445-6), DG-AK3W (720-90445-7), DG-AM3W (720-90445-8), DG-AO3W (720-90445-9), DG-AQ3W (720-90445-10), TB-12.19.18 (720-90445-11) and (CCVIS 440-519967/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AG3W (720-90445-3) and DG-AO3W (720-90445-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257456 and analytical batch 720-257686 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Water sample DG-AI3W (720-90445-4) and DG-AM3W (720-90445-8[MSD]) contained excessive solid material, the 1-liter

Job ID: 720-90445-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

amber unpreserved sample container had approximately 1 to 2 inches of sediment on the bottom of the bottle. Only the water portion was extracted. The sediment layer remained in the sample bottle and therefore the sample bottle could not be solvent rinsed.

Method 3510C: Elevated reporting limits are provided for the following sample(s) due to insufficient sample provided for preparation/analysis: 8015B: DG-AG3W (720-90445-3)

Method 3520C: Water sample contained excessive solid material, the 1-liter sample container had approximately 1 inch of sediment on the bottom of the bottle. Only the water portion was extracted. The sediment layer remained in the sample bottle and therefore the sample bottle could not be solvent rinsed.
DG-AG3W (720-90445-3), DG-AI3W (720-90445-4), DG-AM3W (720-90445-8), DG-AM3W (720-90445-8[MS]), DG-AM3W (720-90445-8[MSD]) and DG-AQ3W (720-90445-10)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AC3W — Lab Sample ID: 720-90445-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.6		0.50	0.25	ug/L	1		8260B	Total/NA
Phenanthrene	0.16	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.16	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.23		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.36		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.38		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.11	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.50		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.40		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.46		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.70		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	340	J	480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	240	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	50		10	2.9	ug/L	1		6010B	Dissolved
Barium	160		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.21	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	3.0	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	16		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.0	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	11		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	5.0	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	17		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.7	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	13	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AE3W — Lab Sample ID: 720-90445-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.7		0.50	0.25	ug/L	1		8260B	Total/NA
Phenanthrene	0.18	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.12	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.15	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.19	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.22		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.24		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.19	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.31		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.39		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	310	J	480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	180	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	120		10	2.9	ug/L	1		6010B	Dissolved
Barium	220		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.75	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	0.27	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	4.7	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	12		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	9.6		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	3.2	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	12		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.0	J	10	0.87	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AE3W (Continued) — Lab Sample ID: 720-90445-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	8.2	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AG3W — Lab Sample ID: 720-90445-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	7.9		0.50	0.25	ug/L	1		8260B	Total/NA
Acetone	15	J	20	10	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	2200		570	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2900		570	110	ug/L	1		8015B	Total/NA
Arsenic	86		10	2.9	ug/L	1		6010B	Dissolved
Barium	150		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.74	J	2.0	0.59	ug/L	1		6010B	Dissolved
Chromium	7.6	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	13		2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	17		10	2.9	ug/L	1		6010B	Dissolved
Nickel	19		10	1.0	ug/L	1		6010B	Dissolved
Thallium	6.9	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	3.1	J B	10	0.87	ug/L	1		6010B	Dissolved
Zinc	25		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AI3W — Lab Sample ID: 720-90445-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	6.2		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	780		490	98	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	620		490	98	ug/L	1		8015B	Total/NA
Arsenic	110		10	2.9	ug/L	1		6010B	Dissolved
Barium	220		50	1.6	ug/L	1		6010B	Dissolved
Chromium	3.4	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	13		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.2	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	10		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.0	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	12		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.5	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	8.6	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DUP-17 — Lab Sample ID: 720-90445-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	6.0		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.32		0.19	0.096	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.13	J	0.19	0.096	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.36		0.19	0.096	ug/L	1		8270C SIM	Total/NA
Anthracene	0.17	J	0.19	0.096	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.12	J	0.19	0.096	ug/L	1		8270C SIM	Total/NA
Chrysene	0.19		0.19	0.096	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.20		0.19	0.096	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.29		0.19	0.096	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.098	J	0.19	0.096	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DUP-17 (Continued) — Lab Sample ID: 720-90445-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.28		0.19	0.096	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.20		0.19	0.096	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.46		0.19	0.096	ug/L	1		8270C SIM	Total/NA
Pyrene	0.69		0.19	0.096	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	640		490	97	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	500		490	97	ug/L	1		8015B	Total/NA
Arsenic	110		10	2.9	ug/L	1		6010B	Dissolved
Barium	230		50	1.6	ug/L	1		6010B	Dissolved
Chromium	3.4	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	14		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.6	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	11		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	3.7	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	13		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.6	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	12	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: FB-12.19.18 — Lab Sample ID: 720-90445-6

No Detections.

Client Sample ID: DG-AK3W — Lab Sample ID: 720-90445-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	6.7		0.50	0.25	ug/L	1		8260B	Total/NA
Phenanthrene	0.15	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.11	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	0.13	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	500		480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	380	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	110		10	2.9	ug/L	1		6010B	Dissolved
Barium	250		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.23	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	3.1	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	12		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	32		20	3.7	ug/L	1		6010B	Dissolved
Lead	11		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	6.8	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	17		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.8	J	10	0.87	ug/L	1		6010B	Dissolved
Mercury	0.22		0.20	0.10	ug/L	1		7470A	Dissolved

Client Sample ID: DG-AM3W — Lab Sample ID: 720-90445-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	7.2		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	400	J	540	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	190	J	540	110	ug/L	1		8015B	Total/NA
Arsenic	110		10	2.9	ug/L	1		6010B	Dissolved
Barium	390		50	1.6	ug/L	1		6010B	Dissolved
Chromium	3.1	J	10	0.70	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM3W (Continued) — Lab Sample ID: 720-90445-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	11		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.6	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	5.3	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	15		10	1.0	ug/L	1		6010B	Dissolved
Thallium	7.3	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	2.3	J B	10	0.87	ug/L	1		6010B	Dissolved
Zinc	20		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AO3W — Lab Sample ID: 720-90445-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	7.3		0.50	0.25	ug/L	1		8260B	Total/NA
Acetone	10	J	20	10	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	5300		480	95	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4200		480	95	ug/L	1		8015B	Total/NA
Arsenic	110		10	2.9	ug/L	1		6010B	Dissolved
Barium	150		50	1.6	ug/L	1		6010B	Dissolved
Chromium	4.1	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	9.6		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	12		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	2.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	10		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.3	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	24		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AQ3W — Lab Sample ID: 720-90445-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	6.1		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	480	J	490	99	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	350	J	490	99	ug/L	1		8015B	Total/NA
Arsenic	110		10	2.9	ug/L	1		6010B	Dissolved
Barium	270		50	1.6	ug/L	1		6010B	Dissolved
Chromium	2.7	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	12		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	9.3		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	3.5	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	11		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.9	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	10	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: TB-12.19.18 — Lab Sample ID: 720-90445-11

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AC3W
Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*12/29/18 11:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*12/29/18 11:42*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 11:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**2.6**		0.50	0.25	ug/L			12/29/18 11:42	1
Acetone	ND		20	10	ug/L			12/29/18 11:42	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 11:42	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 11:42	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 11:42	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 11:42	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 11:42	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 11:42	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 11:42	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 11:42	1

Client Sample ID: DG-AC3W

Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 11:42	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 11:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 11:42	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 11:42	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 11:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 11:42	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 11:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 11:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 11:42	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 11:42	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 11:42	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*12/29/18 11:42*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 11:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Acenaphthene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Acenaphthylene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Fluorene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Phenanthrene	**0.16**	**J**	0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Anthracene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Benzo[a]anthracene	**0.16**	**J**	0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Chrysene	**0.23**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Benzo[a]pyrene	**0.36**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Benzo[b]fluoranthene	**0.38**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Benzo[k]fluoranthene	**0.11**	**J**	0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Benzo[g,h,i]perylene	**0.50**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Indeno[1,2,3-cd]pyrene	**0.40**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Fluoranthene	**0.46**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Pyrene	**0.70**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:09	1

Client Sample ID: DG-AC3W

Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*46*		*21 - 120*	*12/22/18 08:51*	*12/26/18 14:09*	*1*
Nitrobenzene-d5	*88*		*10 - 120*	*12/22/18 08:51*	*12/26/18 14:09*	*1*
2-Fluorobiphenyl (Surr)	*91*		*38 - 120*	*12/22/18 08:51*	*12/26/18 14:09*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**340**	**J**	480	96	ug/L		12/22/18 05:34	12/29/18 00:45	1
Motor Oil Range Organics [C24-C36]	**240**	**J**	480	96	ug/L		12/22/18 05:34	12/29/18 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*58*		*45 - 120*	*12/22/18 05:34*	*12/29/18 00:45*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:23	1
Arsenic	**50**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:23	1
Barium	**160**		50	1.6	ug/L		12/21/18 14:27	12/27/18 14:23	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:23	1
Cadmium	**0.21**	**J**	2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:23	1
Chromium	**3.0**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 14:23	1
Cobalt	**16**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:23	1
Copper	**6.0**	**J**	20	3.7	ug/L		12/21/18 14:27	12/27/18 14:23	1
Lead	**11**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:23	1
Molybdenum	**5.0**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 14:23	1
Nickel	**17**		10	1.0	ug/L		12/21/18 14:27	12/27/18 14:23	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:23	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:23	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:23	1
Vanadium	**1.7**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 14:23	1
Zinc	**13**	**J**	20	7.4	ug/L		12/21/18 14:27	12/27/18 14:23	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AE3W
Date Collected: 12/19/18 09:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*12/29/18 12:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/29/18 12:07*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/29/18 12:07*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**3.7**		0.50	0.25	ug/L			12/29/18 12:07	1
Acetone	ND		20	10	ug/L			12/29/18 12:07	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 12:07	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 12:07	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 12:07	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 12:07	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 12:07	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 12:07	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 12:07	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 12:07	1

Client Sample ID: DG-AE3W

Date Collected: 12/19/18 09:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 12:07	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 12:07	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 12:07	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:07	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 12:07	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 12:07	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 12:07	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 12:07	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*12/29/18 12:07*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/29/18 12:07*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Acenaphthene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Acenaphthylene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Fluorene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Phenanthrene	**0.18**	**J**	0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Anthracene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Benzo[a]anthracene	**0.12**	**J**	0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Chrysene	**0.15**	**J**	0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Benzo[a]pyrene	**0.19**	**J**	0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Benzo[b]fluoranthene	**0.22**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Benzo[g,h,i]perylene	**0.24**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Indeno[1,2,3-cd]pyrene	**0.19**	**J**	0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Fluoranthene	**0.31**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Pyrene	**0.39**		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/26/18 14:34	1

Client Sample ID: DG-AE3W

Date Collected: 12/19/18 09:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*44*		*21 - 120*	*12/22/18 08:51*	*12/26/18 14:34*	*1*
Nitrobenzene-d5	*84*		*10 - 120*	*12/22/18 08:51*	*12/26/18 14:34*	*1*
2-Fluorobiphenyl (Surr)	*89*		*38 - 120*	*12/22/18 08:51*	*12/26/18 14:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**310**	**J**	480	96	ug/L		12/22/18 05:34	12/29/18 01:05	1
Motor Oil Range Organics [C24-C36]	**180**	**J**	480	96	ug/L		12/22/18 05:34	12/29/18 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*65*		*45 - 120*	*12/22/18 05:34*	*12/29/18 01:05*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:37	1
Arsenic	**120**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:37	1
Barium	**220**		50	1.6	ug/L		12/21/18 14:27	12/27/18 14:37	1
Beryllium	**0.75**	**J**	2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:37	1
Cadmium	**0.27**	**J**	2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:37	1
Chromium	**4.7**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 14:37	1
Cobalt	**12**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:37	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 14:37	1
Lead	**9.6**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:37	1
Molybdenum	**3.2**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 14:37	1
Nickel	**12**		10	1.0	ug/L		12/21/18 14:27	12/27/18 14:37	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:37	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:37	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:37	1
Vanadium	**2.0**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 14:37	1
Zinc	**8.2**	**J**	20	7.4	ug/L		12/21/18 14:27	12/27/18 14:37	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AG3W
Date Collected: 12/19/18 10:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*12/29/18 12:31*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*12/29/18 12:31*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*12/29/18 12:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**7.9**		0.50	0.25	ug/L			12/29/18 12:31	1
Acetone	**15**	**J**	20	10	ug/L			12/29/18 12:31	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 12:31	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 12:31	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 12:31	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 12:31	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 12:31	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 12:31	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 12:31	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 12:31	1

Client Sample ID: DG-AG3W
Date Collected: 12/19/18 10:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 12:31	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 12:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 12:31	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 12:31	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:31	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 12:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 12:31	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 12:31	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 12:31	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*12/29/18 12:31*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*12/29/18 12:31*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Acenaphthene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Acenaphthylene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Fluorene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Phenanthrene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Anthracene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Benzo[a]anthracene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Chrysene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Benzo[a]pyrene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Benzo[b]fluoranthene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Benzo[k]fluoranthene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Benzo[g,h,i]perylene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Indeno[1,2,3-cd]pyrene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Fluoranthene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Pyrene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5
Dibenz(a,h)anthracene	ND		1.0	0.51	ug/L		12/22/18 08:51	12/31/18 14:11	5

Client Sample ID: DG-AG3W

Date Collected: 12/19/18 10:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*91*		*21 - 120*	*12/22/18 08:51*	*12/31/18 14:11*	*5*
Nitrobenzene-d5	*48*		*10 - 120*	*12/22/18 08:51*	*12/31/18 14:11*	*5*
2-Fluorobiphenyl (Surr)	*90*		*38 - 120*	*12/22/18 08:51*	*12/31/18 14:11*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2200**		570	110	ug/L		12/22/18 05:34	12/29/18 01:46	1
Motor Oil Range Organics [C24-C36]	**2900**		570	110	ug/L		12/22/18 05:34	12/29/18 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*58*		*45 - 120*	*12/22/18 05:34*	*12/29/18 01:46*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 20:55	1
Arsenic	**86**		10	2.9	ug/L		12/26/18 09:30	12/26/18 20:55	1
Barium	**150**		50	1.6	ug/L		12/26/18 09:30	12/26/18 20:55	1
Beryllium	**0.74**	**J**	2.0	0.59	ug/L		12/26/18 09:30	12/26/18 20:55	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 20:55	1
Chromium	**7.6**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 20:55	1
Cobalt	**13**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 20:55	1
Copper	ND		20	3.7	ug/L		12/26/18 09:30	12/26/18 20:55	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 20:55	1
Molybdenum	**17**		10	2.9	ug/L		12/26/18 09:30	12/26/18 20:55	1
Nickel	**19**		10	1.0	ug/L		12/26/18 09:30	12/26/18 20:55	1
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 20:55	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 20:55	1
Thallium	**6.9**	**J**	10	3.5	ug/L		12/26/18 09:30	12/26/18 20:55	1
Vanadium	**3.1**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 20:55	1
Zinc	**25**		20	7.4	ug/L		12/26/18 09:30	12/26/18 20:55	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AI3W
Date Collected: 12/19/18 14:09
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*12/29/18 12:55*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*12/29/18 12:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 12:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**6.2**		0.50	0.25	ug/L			12/29/18 12:55	1
Acetone	ND		20	10	ug/L			12/29/18 12:55	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 12:55	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 12:55	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 12:55	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 12:55	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 12:55	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 12:55	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 12:55	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 12:55	1

Client Sample ID: DG-AI3W
Date Collected: 12/19/18 14:09
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 12:55	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 12:55	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 12:55	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 12:55	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 12:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 12:55	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 12:55	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 12:55	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*12/29/18 12:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 12:55*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Acenaphthene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Fluorene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Phenanthrene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Anthracene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Chrysene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Fluoranthene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Pyrene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 14:58	1

Client Sample ID: DG-AI3W

Date Collected: 12/19/18 14:09
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*55*		*21 - 120*	*12/22/18 08:51*	*12/26/18 14:58*	*1*
Nitrobenzene-d5	*91*		*10 - 120*	*12/22/18 08:51*	*12/26/18 14:58*	*1*
2-Fluorobiphenyl (Surr)	*92*		*38 - 120*	*12/22/18 08:51*	*12/26/18 14:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**780**		490	98	ug/L		12/22/18 05:34	12/29/18 02:06	1
Motor Oil Range Organics [C24-C36]	**620**		490	98	ug/L		12/22/18 05:34	12/29/18 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*63*		*45 - 120*	*12/22/18 05:34*	*12/29/18 02:06*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:41	1
Arsenic	**110**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:41	1
Barium	**220**		50	1.6	ug/L		12/21/18 14:27	12/27/18 14:41	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:41	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:41	1
Chromium	**3.4**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 14:41	1
Cobalt	**13**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:41	1
Copper	**4.2**	**J**	20	3.7	ug/L		12/21/18 14:27	12/27/18 14:41	1
Lead	**10**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:41	1
Molybdenum	**4.0**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 14:41	1
Nickel	**12**		10	1.0	ug/L		12/21/18 14:27	12/27/18 14:41	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:41	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:41	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:41	1
Vanadium	**2.5**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 14:41	1
Zinc	**8.6**	**J**	20	7.4	ug/L		12/21/18 14:27	12/27/18 14:41	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DUP-17
Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*12/29/18 13:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/29/18 13:20*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 13:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**6.0**		0.50	0.25	ug/L			12/29/18 13:20	1
Acetone	ND		20	10	ug/L			12/29/18 13:20	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 13:20	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 13:20	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 13:20	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 13:20	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 13:20	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 13:20	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 13:20	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 13:20	1

Client Sample ID: DUP-17

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 13:20	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 13:20	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 13:20	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 13:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 13:20	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 13:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 13:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 13:20	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 13:20	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 13:20	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*12/29/18 13:20*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 13:20*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.32**		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Acenaphthene	ND		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Acenaphthylene	**0.13**	**J**	0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Fluorene	ND		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Phenanthrene	**0.36**		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Anthracene	**0.17**	**J**	0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Benzo[a]anthracene	**0.12**	**J**	0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Chrysene	**0.19**		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Benzo[a]pyrene	**0.20**		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Benzo[b]fluoranthene	**0.29**		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Benzo[k]fluoranthene	**0.098**	**J**	0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Benzo[g,h,i]perylene	**0.28**		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Indeno[1,2,3-cd]pyrene	**0.20**		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Fluoranthene	**0.46**		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Pyrene	**0.69**		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1
Dibenz(a,h)anthracene	ND		0.19	0.096	ug/L		12/22/18 08:51	12/27/18 20:23	1

Client Sample ID: DUP-17

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*61*		*21 - 120*	*12/22/18 08:51*	*12/27/18 20:23*	*1*
Nitrobenzene-d5	*96*		*10 - 120*	*12/22/18 08:51*	*12/27/18 20:23*	*1*
2-Fluorobiphenyl (Surr)	*86*		*38 - 120*	*12/22/18 08:51*	*12/27/18 20:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**640**		490	97	ug/L		12/22/18 05:34	12/29/18 02:26	1
Motor Oil Range Organics [C24-C36]	**500**		490	97	ug/L		12/22/18 05:34	12/29/18 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*54*		*45 - 120*	*12/22/18 05:34*	*12/29/18 02:26*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:46	1
Arsenic	**110**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:46	1
Barium	**230**		50	1.6	ug/L		12/21/18 14:27	12/27/18 14:46	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:46	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:46	1
Chromium	**3.4**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 14:46	1
Cobalt	**14**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:46	1
Copper	**4.6**	**J**	20	3.7	ug/L		12/21/18 14:27	12/27/18 14:46	1
Lead	**11**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:46	1
Molybdenum	**3.7**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 14:46	1
Nickel	**13**		10	1.0	ug/L		12/21/18 14:27	12/27/18 14:46	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:46	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:46	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:46	1
Vanadium	**2.6**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 14:46	1
Zinc	**12**	**J**	20	7.4	ug/L		12/21/18 14:27	12/27/18 14:46	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: FB-12.19.18
Date Collected: 12/19/18 11:40
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*12/29/18 13:44*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/29/18 13:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 13:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Acetone	ND		20	10	ug/L			12/29/18 13:44	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 13:44	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 13:44	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 13:44	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 13:44	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 13:44	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 13:44	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 13:44	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 13:44	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: FB-12.19.18
Date Collected: 12/19/18 11:40
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 13:44	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 13:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 13:44	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 13:44	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 13:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 13:44	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 13:44	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 13:44	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 13:44	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 13:44	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*		*12/29/18 13:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 13:44*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AK3W
Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*12/29/18 14:09*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/29/18 14:09*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 14:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**6.7**		0.50	0.25	ug/L			12/29/18 14:09	1
Acetone	ND		20	10	ug/L			12/29/18 14:09	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 14:09	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 14:09	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 14:09	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 14:09	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 14:09	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 14:09	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 14:09	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 14:09	1

Client Sample ID: DG-AK3W
Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 14:09	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 14:09	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 14:09	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 14:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 14:09	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 14:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 14:09	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 14:09	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 14:09	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*12/29/18 14:09*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 14:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Acenaphthene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Fluorene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Phenanthrene	**0.15**	**J**	0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Anthracene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Chrysene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Fluoranthene	**0.11**	**J**	0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Pyrene	**0.13**	**J**	0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		12/22/18 08:51	12/26/18 17:49	1

Client Sample ID: DG-AK3W

Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*32*		*21 - 120*	*12/22/18 08:51*	*12/26/18 17:49*	*1*
Nitrobenzene-d5	*98*		*10 - 120*	*12/22/18 08:51*	*12/26/18 17:49*	*1*
2-Fluorobiphenyl (Surr)	*91*		*38 - 120*	*12/22/18 08:51*	*12/26/18 17:49*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**500**		480	96	ug/L		12/22/18 05:34	12/29/18 02:47	1
Motor Oil Range Organics [C24-C36]	**380**	**J**	480	96	ug/L		12/22/18 05:34	12/29/18 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*57*		*45 - 120*	*12/22/18 05:34*	*12/29/18 02:47*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:51	1
Arsenic	**110**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:51	1
Barium	**250**		50	1.6	ug/L		12/21/18 14:27	12/27/18 14:51	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:51	1
Cadmium	**0.23**	**J**	2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:51	1
Chromium	**3.1**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 14:51	1
Cobalt	**12**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:51	1
Copper	**32**		20	3.7	ug/L		12/21/18 14:27	12/27/18 14:51	1
Lead	**11**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:51	1
Molybdenum	**6.8**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 14:51	1
Nickel	**17**		10	1.0	ug/L		12/21/18 14:27	12/27/18 14:51	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:51	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:51	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:51	1
Vanadium	**2.8**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 14:51	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 14:51	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AM3W
Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-8
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*12/29/18 10:04*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/29/18 10:04*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 10:04*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**7.2**		0.50	0.25	ug/L			12/29/18 10:04	1
Acetone	ND		20	10	ug/L			12/29/18 10:04	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 10:04	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 10:04	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 10:04	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 10:04	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 10:04	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 10:04	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 10:04	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 10:04	1

Client Sample ID: DG-AM3W

Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 10:04	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 10:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 10:04	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 10:04	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 10:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 10:04	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 10:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 10:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 10:04	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 10:04	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 10:04	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*12/29/18 10:04*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 10:04*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Acenaphthene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Acenaphthylene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Fluorene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Phenanthrene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Anthracene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Chrysene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Fluoranthene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Pyrene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/24/18 16:57	1

Client Sample ID: DG-AM3W

Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*37*		*21 - 120*	*12/22/18 08:51*	*12/24/18 16:57*	*1*
Nitrobenzene-d5	*85*		*10 - 120*	*12/22/18 08:51*	*12/24/18 16:57*	*1*
2-Fluorobiphenyl (Surr)	*96*		*38 - 120*	*12/22/18 08:51*	*12/24/18 16:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**400**	**J**	540	110	ug/L		12/22/18 05:34	12/26/18 22:00	1
Motor Oil Range Organics [C24-C36]	**190**	**J**	540	110	ug/L		12/22/18 05:34	12/26/18 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*45 - 120*	*12/22/18 05:34*	*12/26/18 22:00*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 20:45	1
Arsenic	**110**		10	2.9	ug/L		12/26/18 09:30	12/26/18 20:45	1
Barium	**390**		50	1.6	ug/L		12/26/18 09:30	12/26/18 20:45	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 20:45	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 20:45	1
Chromium	**3.1**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 20:45	1
Cobalt	**11**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 20:45	1
Copper	**4.6**	**J**	20	3.7	ug/L		12/26/18 09:30	12/26/18 20:45	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 20:45	1
Molybdenum	**5.3**	**J**	10	2.9	ug/L		12/26/18 09:30	12/26/18 20:45	1
Nickel	**15**		10	1.0	ug/L		12/26/18 09:30	12/26/18 20:45	1
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 20:45	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 20:45	1
Thallium	**7.3**	**J**	10	3.5	ug/L		12/26/18 09:30	12/26/18 20:45	1
Vanadium	**2.3**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 20:45	1
Zinc	**20**		20	7.4	ug/L		12/26/18 09:30	12/26/18 20:45	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AO3W
Date Collected: 12/19/18 14:25
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-9
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*12/29/18 14:33*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/29/18 14:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 14:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**7.3**		0.50	0.25	ug/L			12/29/18 14:33	1
Acetone	**10**	**J**	20	10	ug/L			12/29/18 14:33	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 14:33	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 14:33	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 14:33	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 14:33	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 14:33	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 14:33	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 14:33	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 14:33	1

Client Sample ID: DG-AO3W
Date Collected: 12/19/18 14:25
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 14:33	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 14:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 14:33	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 14:33	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 14:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 14:33	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 14:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 14:33	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 14:33	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 14:33	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 14:33	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*12/29/18 14:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 14:33*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Acenaphthene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Acenaphthylene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Fluorene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Phenanthrene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Anthracene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Benzo[a]anthracene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Chrysene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Benzo[a]pyrene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Benzo[b]fluoranthene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Benzo[k]fluoranthene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Benzo[g,h,i]perylene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Indeno[1,2,3-cd]pyrene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Fluoranthene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Pyrene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5
Dibenz(a,h)anthracene	ND		1.0	0.50	ug/L		12/22/18 08:51	12/31/18 14:36	5

Client Sample ID: DG-AO3W

Date Collected: 12/19/18 14:25
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*48*		*21 - 120*	*12/22/18 08:51*	*12/31/18 14:36*	*5*
Nitrobenzene-d5	*106*		*10 - 120*	*12/22/18 08:51*	*12/31/18 14:36*	*5*
2-Fluorobiphenyl (Surr)	*67*		*38 - 120*	*12/22/18 08:51*	*12/31/18 14:36*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5300**		480	95	ug/L		12/22/18 05:34	12/29/18 03:07	1
Motor Oil Range Organics [C24-C36]	**4200**		480	95	ug/L		12/22/18 05:34	12/29/18 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*45 - 120*	*12/22/18 05:34*	*12/29/18 03:07*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 14:56	1
Arsenic	**110**		10	2.9	ug/L		12/21/18 14:27	12/27/18 14:56	1
Barium	**150**		50	1.6	ug/L		12/21/18 14:27	12/27/18 14:56	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 14:56	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 14:56	1
Chromium	**4.1**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 14:56	1
Cobalt	**9.6**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 14:56	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 14:56	1
Lead	**12**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 14:56	1
Molybdenum	**2.9**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 14:56	1
Nickel	**10**		10	1.0	ug/L		12/21/18 14:27	12/27/18 14:56	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 14:56	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 14:56	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 14:56	1
Vanadium	**2.3**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 14:56	1
Zinc	**24**		20	7.4	ug/L		12/21/18 14:27	12/27/18 14:56	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:14	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AQ3W
Date Collected: 12/19/18 15:10
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-10
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*12/29/18 14:58*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/29/18 14:58*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 14:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**6.1**		0.50	0.25	ug/L			12/29/18 14:58	1
Acetone	ND		20	10	ug/L			12/29/18 14:58	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 14:58	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 14:58	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 14:58	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 14:58	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 14:58	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 14:58	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 14:58	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 14:58	1

Client Sample ID: DG-AQ3W

Date Collected: 12/19/18 15:10
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 14:58	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 14:58	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 14:58	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 14:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 14:58	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 14:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 14:58	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 14:58	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 14:58	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*12/29/18 14:58*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 14:58*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Acenaphthene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Acenaphthylene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Fluorene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Phenanthrene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Anthracene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Chrysene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Fluoranthene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Pyrene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		12/22/18 08:51	12/26/18 18:13	1

Client Sample ID: DG-AQ3W

Date Collected: 12/19/18 15:10
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*72*		*21 - 120*	*12/22/18 08:51*	*12/26/18 18:13*	*1*
Nitrobenzene-d5	*81*		*10 - 120*	*12/22/18 08:51*	*12/26/18 18:13*	*1*
2-Fluorobiphenyl (Surr)	*85*		*38 - 120*	*12/22/18 08:51*	*12/26/18 18:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**480**	**J**	490	99	ug/L		12/22/18 05:34	12/29/18 03:27	1
Motor Oil Range Organics [C24-C36]	**350**	**J**	490	99	ug/L		12/22/18 05:34	12/29/18 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*12/22/18 05:34*	*12/29/18 03:27*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 15:01	1
Arsenic	**110**		10	2.9	ug/L		12/21/18 14:27	12/27/18 15:01	1
Barium	**270**		50	1.6	ug/L		12/21/18 14:27	12/27/18 15:01	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 15:01	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 15:01	1
Chromium	**2.7**	**J**	10	0.70	ug/L		12/21/18 14:27	12/27/18 15:01	1
Cobalt	**12**		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 15:01	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 15:01	1
Lead	**9.3**		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 15:01	1
Molybdenum	**3.5**	**J**	10	2.9	ug/L		12/21/18 14:27	12/27/18 15:01	1
Nickel	**11**		10	1.0	ug/L		12/21/18 14:27	12/27/18 15:01	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 15:01	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 15:01	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 15:01	1
Vanadium	**1.9**	**J**	10	0.87	ug/L		12/21/18 14:27	12/27/18 15:01	1
Zinc	**10**	**J**	20	7.4	ug/L		12/21/18 14:27	12/27/18 15:01	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:14	1

Client Sample ID: TB-12.19.18
Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-11
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*12/29/18 15:22*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/29/18 15:22*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/29/18 15:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Acetone	ND		20	10	ug/L			12/29/18 15:22	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 15:22	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 15:22	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 15:22	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 15:22	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 15:22	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 15:22	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 15:22	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 15:22	1

Client Sample ID: TB-12.19.18
Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 15:22	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 15:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 15:22	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 15:22	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 15:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 15:22	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 15:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 15:22	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 15:22	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 15:22	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*12/29/18 15:22*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/29/18 15:22*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCA	TOL								
Lab Sample ID	Client Sample ID	(70-130)	(80-128)								
720-90445-1	DG-AC3W	112	98								
720-90445-2	DG-AE3W	112	100								
720-90445-3	DG-AG3W	115	101								
720-90445-4	DG-AI3W	117	99								
720-90445-5	DUP-17	116	98								
720-90445-6	FB-12.19.18	121	98								
720-90445-7	DG-AK3W	119	98								
720-90445-8	DG-AM3W	109	99								
720-90445-8 MS	DG-AM3W	106	99								
720-90445-8 MSD	DG-AM3W	105	97								
720-90445-9	DG-AO3W	119	98								
720-90445-10	DG-AQ3W	120	99								
720-90445-11	TB-12.19.18	118	100								
LCS 440-519967/5	Lab Control Sample	100	100								
MB 440-519967/4	Method Blank	100	99								

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DBFM	BFB	TOL							
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)							
720-90445-1	DG-AC3W	109	102	98							
720-90445-2	DG-AE3W	109	100	100							
720-90445-3	DG-AG3W	110	102	101							
720-90445-4	DG-AI3W	112	103	99							
720-90445-5	DUP-17	112	101	98							
720-90445-6	FB-12.19.18	114	100	98							
720-90445-7	DG-AK3W	115	101	98							
720-90445-8	DG-AM3W	107	101	99							
720-90445-8 MS	DG-AM3W	104	105	99							
720-90445-8 MSD	DG-AM3W	105	102	97							
720-90445-9	DG-AO3W	116	99	98							
720-90445-10	DG-AQ3W	113	97	99							
720-90445-11	TB-12.19.18	112	99	100							
LCS 440-519968/6	Lab Control Sample	103	103	100							
MB 440-519968/4	Method Blank	103	101	99							

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	TPHL (21-120)	NBZ (10-120)	FBP (38-120)
720-90445-1	DG-AC3W	46	88	91
720-90445-2	DG-AE3W	44	84	89
720-90445-3	DG-AG3W	91	48	90
720-90445-4	DG-AI3W	55	91	92
720-90445-5	DUP-17	61	96	86
720-90445-7	DG-AK3W	32	98	91
720-90445-8	DG-AM3W	37	85	96
720-90445-8 MS	DG-AM3W	68	97	106
720-90445-8 MSD	DG-AM3W	68	92	104
720-90445-9	DG-AO3W	48	106	67
720-90445-10	DG-AQ3W	72	81	85
LCS 440-518884/2-A	Lab Control Sample	94	86	88
MB 440-518884/1-A	Method Blank	95	82	91

Surrogate Legend

TPHL = Terphenyl-d14
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
720-90445-1	DG-AC3W	58
720-90445-2	DG-AE3W	65
720-90445-3	DG-AG3W	58
720-90445-4	DG-AI3W	63
720-90445-5	DUP-17	54
720-90445-7	DG-AK3W	57
720-90445-8	DG-AM3W	81
720-90445-8 MS	DG-AM3W	84
720-90445-8 MSD	DG-AM3W	67
720-90445-9	DG-AO3W	71
720-90445-10	DG-AQ3W	69
LCS 440-518859/2-A	Lab Control Sample	82
MB 440-518859/1-A	Method Blank	78

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-519967/4
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Acetone	ND		20	10	ug/L			12/29/18 08:27	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 08:27	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 08:27	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 08:27	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 08:27	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 08:27	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 08:27	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 08:27	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 08:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 08:27	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 08:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519967/4
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 08:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 08:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 08:27	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 08:27	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/29/18 08:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 08:27*	*1*

Lab Sample ID: LCS 440-519967/5
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	23.3		ug/L		93	63 - 131
Acetone	25.0	21.8		ug/L		87	10 - 150
Benzene	25.0	23.8		ug/L		95	68 - 130
Dichlorobromomethane	25.0	26.8		ug/L		107	70 - 132
Bromobenzene	25.0	26.3		ug/L		105	70 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Bromoform	25.0	29.0		ug/L		116	60 - 148
Bromomethane	25.0	23.5		ug/L		94	64 - 139
2-Butanone (MEK)	25.0	27.2		ug/L		109	44 - 150
n-Butylbenzene	25.0	28.6		ug/L		114	65 - 150
sec-Butylbenzene	25.0	28.0		ug/L		112	70 - 138
tert-Butylbenzene	25.0	27.6		ug/L		110	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	52 - 136
Carbon tetrachloride	25.0	26.5		ug/L		106	60 - 150
Chlorobenzene	25.0	23.6		ug/L		94	70 - 130
Chloroethane	25.0	21.3		ug/L		85	64 - 135
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	21.4		ug/L		85	47 - 140
2-Chlorotoluene	25.0	27.2		ug/L		109	70 - 130
4-Chlorotoluene	25.0	26.8		ug/L		107	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519967/5
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	28.0		ug/L		112	69 - 145
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	25.9		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.4		ug/L		94	52 - 140
Ethylene Dibromide	25.0	26.5		ug/L		106	70 - 130
Dibromomethane	25.0	25.8		ug/L		103	70 - 130
Dichlorodifluoromethane	25.0	21.9		ug/L		88	29 - 150
1,1-Dichloroethane	25.0	23.9		ug/L		95	64 - 130
1,2-Dichloroethane	25.0	22.9		ug/L		92	57 - 138
1,1-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 133
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
1,2-Dichloropropane	25.0	24.0		ug/L		96	67 - 130
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 133
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 132
Ethylbenzene	25.0	24.8		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	27.8		ug/L		111	10 - 150
2-Hexanone	25.0	22.2		ug/L		89	10 - 150
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 136
4-Isopropyltoluene	25.0	27.7		ug/L		111	70 - 132
Methylene Chloride	25.0	23.0		ug/L		92	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	23.4		ug/L		93	59 - 149
Naphthalene	25.0	26.0		ug/L		104	60 - 140
N-Propylbenzene	25.0	27.9		ug/L		111	67 - 139
Styrene	25.0	25.8		ug/L		103	70 - 134
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	60 - 141
1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		104	63 - 130
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130
Toluene	25.0	24.6		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	25.0	26.6		ug/L		106	60 - 140
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	60 - 140
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
Trichloroethene	25.0	25.1		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	26.5		ug/L		106	60 - 150
1,2,3-Trichloropropane	25.0	24.6		ug/L		98	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0		ug/L		100	60 - 140
1,2,4-Trimethylbenzene	25.0	27.8		ug/L		111	70 - 135
1,3,5-Trimethylbenzene	25.0	28.0		ug/L		112	70 - 136
Vinyl acetate	25.0	24.7		ug/L		99	48 - 140
Vinyl chloride	25.0	23.6		ug/L		94	59 - 133
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 130
o-Xylene	25.0	26.1		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	27.1		ug/L		108	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519967/5
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-90445-8 MS
Matrix: Water
Analysis Batch: 519967

Client Sample ID: DG-AM3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	7.2		25.0	30.5		ug/L		93	70 - 130
Acetone	ND		25.0	24.7		ug/L		99	10 - 150
Benzene	ND		25.0	23.9		ug/L		95	66 - 130
Dichlorobromomethane	ND		25.0	27.2		ug/L		109	70 - 138
Bromobenzene	ND		25.0	26.6		ug/L		106	70 - 130
Chlorobromomethane	ND		25.0	25.2		ug/L		101	70 - 130
Bromoform	ND		25.0	30.1		ug/L		120	59 - 150
Bromomethane	ND		25.0	23.9		ug/L		96	62 - 131
2-Butanone (MEK)	ND		25.0	25.0		ug/L		100	48 - 140
n-Butylbenzene	ND		25.0	29.4		ug/L		118	61 - 149
sec-Butylbenzene	ND		25.0	28.2		ug/L		113	67 - 134
tert-Butylbenzene	ND		25.0	28.1		ug/L		112	70 - 130
Carbon disulfide	ND		25.0	24.9		ug/L		100	49 - 140
Carbon tetrachloride	ND		25.0	27.8		ug/L		111	60 - 150
Chlorobenzene	ND		25.0	24.0		ug/L		96	70 - 130
Chloroethane	ND		25.0	21.5		ug/L		86	68 - 130
Chloroform	ND		25.0	24.4		ug/L		98	70 - 130
Chloromethane	ND		25.0	22.5		ug/L		90	39 - 144
2-Chlorotoluene	ND		25.0	27.5		ug/L		110	70 - 130
4-Chlorotoluene	ND		25.0	27.1		ug/L		108	70 - 130
Chlorodibromomethane	ND		25.0	29.3		ug/L		117	70 - 148
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	ND		25.0	25.3		ug/L		101	70 - 130
1,1-Dichloropropene	ND		25.0	25.0		ug/L		100	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	25.5		ug/L		102	48 - 140
Ethylene Dibromide	ND		25.0	26.9		ug/L		107	70 - 131
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	ND		25.0	24.7		ug/L		99	25 - 142
1,1-Dichloroethane	ND		25.0	23.8		ug/L		95	65 - 130
1,2-Dichloroethane	ND		25.0	23.9		ug/L		96	56 - 146
1,1-Dichloroethene	ND		25.0	25.1		ug/L		100	70 - 130
cis-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.1		ug/L		100	70 - 130
1,2-Dichloropropane	ND		25.0	24.5		ug/L		98	69 - 130
cis-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	70 - 133
trans-1,3-Dichloropropene	ND		25.0	24.9		ug/L		100	70 - 138
Ethylbenzene	ND		25.0	25.0		ug/L		100	70 - 130
Hexachlorobutadiene	ND		25.0	28.6		ug/L		114	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-8 MS
Matrix: Water
Analysis Batch: 519967

Client Sample ID: DG-AM3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	23.3		ug/L		93	10 - 150
Isopropylbenzene	ND		25.0	26.2		ug/L		105	70 - 132
4-Isopropyltoluene	ND		25.0	27.6		ug/L		111	70 - 130
Methylene Chloride	ND		25.0	22.7		ug/L		91	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	24.0		ug/L		96	52 - 150
Naphthalene	ND		25.0	25.9		ug/L		104	60 - 140
N-Propylbenzene	ND		25.0	28.3		ug/L		113	66 - 135
Styrene	ND		25.0	25.7		ug/L		103	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	26.9		ug/L		107	63 - 130
Tetrachloroethene	ND		25.0	26.9		ug/L		108	70 - 137
Toluene	ND		25.0	24.6		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.5		ug/L		106	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.9		ug/L		112	70 - 130
1,1,2-Trichloroethane	ND		25.0	26.6		ug/L		107	70 - 130
Trichloroethene	ND		25.0	25.0		ug/L		100	70 - 130
Trichlorofluoromethane	ND		25.0	28.0		ug/L		112	60 - 150
1,2,3-Trichloropropane	ND		25.0	25.7		ug/L		103	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.8		ug/L		103	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	27.8		ug/L		111	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.9		ug/L		112	70 - 130
Vinyl acetate	ND		25.0	25.0		ug/L		100	23 - 150
Vinyl chloride	ND		25.0	24.1		ug/L		96	50 - 137
m-Xylene & p-Xylene	ND		25.0	25.5		ug/L		102	70 - 133
o-Xylene	ND		25.0	25.7		ug/L		103	70 - 133
2,2-Dichloropropane	ND		25.0	26.6		ug/L		106	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 519967

Client Sample ID: DG-AM3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	7.2		25.0	31.5		ug/L		97	70 - 130	3	25
Acetone	ND		25.0	26.7		ug/L		107	10 - 150	8	35
Benzene	ND		25.0	23.7		ug/L		95	66 - 130	0	20
Dichlorobromomethane	ND		25.0	27.4		ug/L		110	70 - 138	1	20
Bromobenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
Chlorobromomethane	ND		25.0	25.1		ug/L		101	70 - 130	0	25
Bromoform	ND		25.0	28.9		ug/L		115	59 - 150	4	25
Bromomethane	ND		25.0	26.2		ug/L		105	62 - 131	9	25
2-Butanone (MEK)	ND		25.0	28.1		ug/L		113	48 - 140	12	40
n-Butylbenzene	ND		25.0	29.0		ug/L		116	61 - 149	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 519967

Client Sample ID: DG-AM3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	27.7		ug/L		111	67 - 134	2	20
tert-Butylbenzene	ND		25.0	27.6		ug/L		111	70 - 130	2	20
Carbon disulfide	ND		25.0	25.0		ug/L		100	49 - 140	0	20
Carbon tetrachloride	ND		25.0	27.3		ug/L		109	60 - 150	2	25
Chlorobenzene	ND		25.0	22.8		ug/L		91	70 - 130	5	20
Chloroethane	ND		25.0	20.5		ug/L		82	68 - 130	5	25
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130	1	20
Chloromethane	ND		25.0	21.6		ug/L		86	39 - 144	4	25
2-Chlorotoluene	ND		25.0	26.4		ug/L		106	70 - 130	4	20
4-Chlorotoluene	ND		25.0	26.5		ug/L		106	70 - 130	2	20
Chlorodibromomethane	ND		25.0	27.8		ug/L		111	70 - 148	5	25
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	0	20
1,4-Dichlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130	3	20
1,3-Dichloropropane	ND		25.0	24.6		ug/L		99	70 - 130	2	25
1,1-Dichloropropene	ND		25.0	24.7		ug/L		99	64 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.2		ug/L		101	48 - 140	1	30
Ethylene Dibromide	ND		25.0	25.9		ug/L		104	70 - 131	4	25
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130	0	25
Dichlorodifluoromethane	ND		25.0	23.7		ug/L		95	25 - 142	4	30
1,1-Dichloroethane	ND		25.0	24.0		ug/L		96	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	23.6		ug/L		94	56 - 146	1	20
1,1-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130	0	20
cis-1,2-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	24.9		ug/L		100	70 - 130	1	20
1,2-Dichloropropane	ND		25.0	23.8		ug/L		95	69 - 130	3	20
cis-1,3-Dichloropropene	ND		25.0	26.8		ug/L		107	70 - 133	4	20
trans-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	70 - 138	2	25
Ethylbenzene	ND		25.0	23.8		ug/L		95	70 - 130	5	20
Hexachlorobutadiene	ND		25.0	28.8		ug/L		115	10 - 150	1	20
2-Hexanone	ND		25.0	23.0		ug/L		92	10 - 150	1	35
Isopropylbenzene	ND		25.0	24.9		ug/L		99	70 - 132	5	20
4-Isopropyltoluene	ND		25.0	27.1		ug/L		109	70 - 130	2	20
Methylene Chloride	ND		25.0	23.2		ug/L		93	52 - 130	2	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.7		ug/L		95	52 - 150	1	35
Naphthalene	ND		25.0	27.9		ug/L		112	60 - 140	7	30
N-Propylbenzene	ND		25.0	27.3		ug/L		109	66 - 135	4	20
Styrene	ND		25.0	24.6		ug/L		98	29 - 150	4	35
1,1,1,2-Tetrachloroethane	ND		25.0	26.1		ug/L		105	60 - 149	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.5		ug/L		106	63 - 130	1	30
Tetrachloroethene	ND		25.0	25.8		ug/L		103	70 - 137	4	20
Toluene	ND		25.0	23.5		ug/L		94	70 - 130	5	20
1,2,3-Trichlorobenzene	ND		25.0	27.3		ug/L		109	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	27.1		ug/L		108	70 - 130	3	20
1,1,2-Trichloroethane	ND		25.0	25.1		ug/L		100	70 - 130	6	25
Trichloroethene	ND		25.0	24.5		ug/L		98	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	27.2		ug/L		109	60 - 150	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 519967

Client Sample ID: DG-AM3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	25.7		ug/L		103	60 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.0		ug/L		100	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		25.0	27.1		ug/L		109	70 - 130	3	25
1,3,5-Trimethylbenzene	ND		25.0	27.4		ug/L		110	70 - 130	2	20
Vinyl acetate	ND		25.0	25.6		ug/L		103	23 - 150	2	30
Vinyl chloride	ND		25.0	24.4		ug/L		97	50 - 137	1	30
m-Xylene & p-Xylene	ND		25.0	24.7		ug/L		99	70 - 133	3	25
o-Xylene	ND		25.0	24.8		ug/L		99	70 - 133	4	20
2,2-Dichloropropane	ND		25.0	26.4		ug/L		106	69 - 138	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-519968/4
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*12/29/18 08:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/29/18 08:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 08:27*	*1*

Lab Sample ID: LCS 440-519968/6
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	396		ug/L		79	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90445-8 MS
Matrix: Water
Analysis Batch: 519968

Client Sample ID: DG-AM3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1910		ug/L		111	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 519968

Client Sample ID: DG-AM3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1890		ug/L		109	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-518884/1-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518884

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Acenaphthene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Acenaphthylene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Fluorene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Phenanthrene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Anthracene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Chrysene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Fluoranthene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Pyrene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/22/18 08:51	12/24/18 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*95*		*21 - 120*	*12/22/18 08:51*	*12/24/18 12:28*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-518884/1-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518884

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		10 - 120	12/22/18 08:51	12/24/18 12:28	1
2-Fluorobiphenyl (Surr)	91		38 - 120	12/22/18 08:51	12/24/18 12:28	1

Lab Sample ID: LCS 440-518884/2-A
Matrix: Water
Analysis Batch: 519025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.760		ug/L		76	50 - 120
Acenaphthene	1.00	0.793		ug/L		79	55 - 120
Acenaphthylene	1.00	0.840		ug/L		84	53 - 120
Fluorene	1.00	0.901		ug/L		90	56 - 120
Phenanthrene	1.00	0.834		ug/L		83	56 - 120
Anthracene	1.00	0.754		ug/L		75	54 - 120
Benzo[a]anthracene	1.00	0.830		ug/L		83	53 - 120
Chrysene	1.00	0.862		ug/L		86	56 - 120
Benzo[a]pyrene	1.00	0.772		ug/L		77	44 - 120
Benzo[b]fluoranthene	1.00	0.828		ug/L		83	48 - 120
Benzo[k]fluoranthene	1.00	0.873		ug/L		87	47 - 121
Benzo[g,h,i]perylene	1.00	0.895		ug/L		90	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	1.12		ug/L		112	38 - 120
Fluoranthene	1.00	0.888		ug/L		89	59 - 120
Pyrene	1.00	0.887		ug/L		89	59 - 120
Dibenz(a,h)anthracene	1.00	0.912		ug/L		91	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	94		21 - 120
Nitrobenzene-d5	86		10 - 120
2-Fluorobiphenyl (Surr)	88		38 - 120

Lab Sample ID: 720-90445-8 MS
Matrix: Water
Analysis Batch: 519025

Client Sample ID: DG-AM3W
Prep Type: Total/NA
Prep Batch: 518884

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		1.03	0.891		ug/L		86	10 - 150
Acenaphthene	ND		1.03	0.945		ug/L		92	10 - 150
Acenaphthylene	ND		1.03	0.978		ug/L		95	23 - 132
Fluorene	ND		1.03	1.06		ug/L		103	10 - 150
Phenanthrene	ND		1.03	1.01		ug/L		98	10 - 150
Anthracene	ND		1.03	0.913		ug/L		89	13 - 136
Benzo[a]anthracene	ND		1.03	0.761		ug/L		74	10 - 123
Chrysene	ND		1.03	0.766		ug/L		74	10 - 131
Benzo[a]pyrene	ND		1.03	0.686		ug/L		67	10 - 122
Benzo[b]fluoranthene	ND		1.03	0.757		ug/L		73	10 - 129
Benzo[k]fluoranthene	ND		1.03	0.750		ug/L		73	10 - 132
Benzo[g,h,i]perylene	ND		1.03	0.481		ug/L		47	10 - 126
Indeno[1,2,3-cd]pyrene	ND		1.03	0.659		ug/L		64	10 - 121

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90445-8 MS
Matrix: Water
Analysis Batch: 519025

Client Sample ID: DG-AM3W
Prep Type: Total/NA
Prep Batch: 518884

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	ND		1.03	0.888		ug/L		86	11 - 148
Pyrene	ND		1.03	0.918		ug/L		89	13 - 144
Dibenz(a,h)anthracene	ND		1.03	0.563		ug/L		55	10 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*68*		*21 - 120*
Nitrobenzene-d5	*97*		*10 - 120*
2-Fluorobiphenyl (Surr)	*106*		*38 - 120*

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 519025

Client Sample ID: DG-AM3W
Prep Type: Total/NA
Prep Batch: 518884

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		1.03	0.860		ug/L		84	10 - 150	4	35
Acenaphthene	ND		1.03	0.929		ug/L		91	10 - 150	2	35
Acenaphthylene	ND		1.03	0.939		ug/L		92	23 - 132	4	35
Fluorene	ND		1.03	1.01		ug/L		99	10 - 150	5	35
Phenanthrene	ND		1.03	0.960		ug/L		94	10 - 150	5	35
Anthracene	ND		1.03	0.898		ug/L		88	13 - 136	2	35
Benzo[a]anthracene	ND		1.03	0.742		ug/L		72	10 - 123	3	35
Chrysene	ND		1.03	0.729		ug/L		71	10 - 131	5	35
Benzo[a]pyrene	ND		1.03	0.681		ug/L		66	10 - 122	1	35
Benzo[b]fluoranthene	ND		1.03	0.724		ug/L		71	10 - 129	4	35
Benzo[k]fluoranthene	ND		1.03	0.732		ug/L		71	10 - 132	2	35
Benzo[g,h,i]perylene	ND		1.03	0.485		ug/L		47	10 - 126	1	35
Indeno[1,2,3-cd]pyrene	ND		1.03	0.470		ug/L		46	10 - 121	33	35
Fluoranthene	ND		1.03	0.859		ug/L		84	11 - 148	3	35
Pyrene	ND		1.03	0.864		ug/L		84	13 - 144	6	35
Dibenz(a,h)anthracene	ND		1.03	0.546		ug/L		53	10 - 119	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*68*		*21 - 120*
Nitrobenzene-d5	*92*		*10 - 120*
2-Fluorobiphenyl (Surr)	*104*		*38 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-518859/1-A
Matrix: Water
Analysis Batch: 519249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		12/22/18 05:34	12/26/18 21:40	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		12/22/18 05:34	12/26/18 21:40	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-518859/1-A
Matrix: Water
Analysis Batch: 519249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518859

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	78		45 - 120	12/22/18 05:34	12/26/18 21:40	1

Lab Sample ID: LCS 440-518859/2-A
Matrix: Water
Analysis Batch: 519249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518859

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	702		ug/L		70	40 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	82		45 - 120

Lab Sample ID: 720-90445-8 MS
Matrix: Water
Analysis Batch: 519249

Client Sample ID: DG-AM3W
Prep Type: Total/NA
Prep Batch: 518859

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	400	J	1070	1120		ug/L		68	40 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	84		45 - 120

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 519249

Client Sample ID: DG-AM3W
Prep Type: Total/NA
Prep Batch: 518859

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	400	J	990	990		ug/L		60	40 - 120	12	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	67		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257456/1-A
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/21/18 14:27	12/27/18 12:45	1
Arsenic	ND		10	2.9	ug/L		12/21/18 14:27	12/27/18 12:45	1
Barium	ND		50	1.6	ug/L		12/21/18 14:27	12/27/18 12:45	1
Beryllium	ND		2.0	0.59	ug/L		12/21/18 14:27	12/27/18 12:45	1
Cadmium	ND		2.0	0.21	ug/L		12/21/18 14:27	12/27/18 12:45	1
Chromium	ND		10	0.70	ug/L		12/21/18 14:27	12/27/18 12:45	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257456/1-A
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		2.0	0.68	ug/L		12/21/18 14:27	12/27/18 12:45	1
Copper	ND		20	3.7	ug/L		12/21/18 14:27	12/27/18 12:45	1
Lead	ND		5.0	2.2	ug/L		12/21/18 14:27	12/27/18 12:45	1
Molybdenum	ND		10	2.9	ug/L		12/21/18 14:27	12/27/18 12:45	1
Nickel	ND		10	1.0	ug/L		12/21/18 14:27	12/27/18 12:45	1
Selenium	ND		20	4.6	ug/L		12/21/18 14:27	12/27/18 12:45	1
Silver	ND		5.0	2.0	ug/L		12/21/18 14:27	12/27/18 12:45	1
Thallium	ND		10	3.5	ug/L		12/21/18 14:27	12/27/18 12:45	1
Vanadium	ND		10	0.87	ug/L		12/21/18 14:27	12/27/18 12:45	1
Zinc	ND		20	7.4	ug/L		12/21/18 14:27	12/27/18 12:45	1

Lab Sample ID: LCS 720-257456/2-A
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 257456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	897		ug/L		90	80 - 120
Arsenic	1000	914		ug/L		91	80 - 120
Barium	1000	837		ug/L		84	80 - 120
Beryllium	1000	894		ug/L		89	80 - 120
Cadmium	1000	916		ug/L		92	80 - 120
Chromium	1000	894		ug/L		89	80 - 120
Cobalt	1000	943		ug/L		94	80 - 120
Copper	1000	882		ug/L		88	80 - 120
Lead	1000	927		ug/L		93	80 - 120
Molybdenum	1000	914		ug/L		91	80 - 120
Nickel	1000	903		ug/L		90	80 - 120
Selenium	1000	924		ug/L		92	80 - 120
Silver	500	417		ug/L		83	80 - 120
Thallium	1000	927		ug/L		93	80 - 120
Vanadium	1000	891		ug/L		89	80 - 120
Zinc	1000	871		ug/L		87	80 - 120

Lab Sample ID: MB 720-257584/1-A
Matrix: Water
Analysis Batch: 257643

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 20:07	1
Arsenic	ND		10	2.9	ug/L		12/26/18 09:30	12/26/18 20:07	1
Barium	ND		50	1.6	ug/L		12/26/18 09:30	12/26/18 20:07	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 20:07	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 20:07	1
Chromium	ND		10	0.70	ug/L		12/26/18 09:30	12/26/18 20:07	1
Cobalt	ND		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 20:07	1
Copper	ND		20	3.7	ug/L		12/26/18 09:30	12/26/18 20:07	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 20:07	1
Molybdenum	ND		10	2.9	ug/L		12/26/18 09:30	12/26/18 20:07	1
Nickel	ND		10	1.0	ug/L		12/26/18 09:30	12/26/18 20:07	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257584/1-A
Matrix: Water
Analysis Batch: 257643

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 20:07	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 20:07	1
Thallium	ND		10	3.5	ug/L		12/26/18 09:30	12/26/18 20:07	1
Vanadium	1.05	J	10	0.87	ug/L		12/26/18 09:30	12/26/18 20:07	1
Zinc	ND		20	7.4	ug/L		12/26/18 09:30	12/26/18 20:07	1

Lab Sample ID: LCS 720-257584/2-A
Matrix: Water
Analysis Batch: 257643

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 257584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	938		ug/L		94	80 - 120
Arsenic	1000	960		ug/L		96	80 - 120
Barium	1000	928		ug/L		93	80 - 120
Beryllium	1000	905		ug/L		91	80 - 120
Cadmium	1000	974		ug/L		97	80 - 120
Chromium	1000	942		ug/L		94	80 - 120
Cobalt	1000	971		ug/L		97	80 - 120
Copper	1000	941		ug/L		94	80 - 120
Lead	1000	996		ug/L		100	80 - 120
Molybdenum	1000	954		ug/L		95	80 - 120
Nickel	1000	958		ug/L		96	80 - 120
Selenium	1000	994		ug/L		99	80 - 120
Silver	500	438		ug/L		88	80 - 120
Thallium	1000	1000		ug/L		100	80 - 120
Vanadium	1000	968		ug/L		97	80 - 120
Zinc	1000	986		ug/L		99	80 - 120

Lab Sample ID: 720-90382-H-3-B MS
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 257456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	893		ug/L		89	75 - 125
Arsenic	9.5	J	1000	939		ug/L		93	75 - 125
Barium	48	J	1000	852		ug/L		80	75 - 125
Beryllium	1.1	J	1000	876		ug/L		87	75 - 125
Cadmium	0.90	J	1000	885		ug/L		88	75 - 125
Chromium	2.0	J	1000	870		ug/L		87	75 - 125
Cobalt	7.5		1000	907		ug/L		90	75 - 125
Copper	4.8	J	1000	873		ug/L		87	75 - 125
Lead	6.7		1000	891		ug/L		88	75 - 125
Molybdenum	4.1	J	1000	911		ug/L		91	75 - 125
Nickel	7.1	J	1000	868		ug/L		86	75 - 125
Selenium	ND		1000	917		ug/L		92	75 - 125
Silver	ND	F1 F2	500	180	F1	ug/L		36	75 - 125
Thallium	ND		1000	864		ug/L		86	75 - 125
Vanadium	1.6	J	1000	889		ug/L		89	75 - 125
Zinc	ND		1000	849		ug/L		85	75 - 125

Lab Sample ID: 720-90382-H-3-C MSD
Matrix: Water
Analysis Batch: 257686

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 257456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	897		ug/L		90	75 - 125	1	20
Arsenic	9.5	J	1000	931		ug/L		92	75 - 125	1	20
Barium	48	J	1000	890		ug/L		84	75 - 125	4	20
Beryllium	1.1	J	1000	884		ug/L		88	75 - 125	1	20
Cadmium	0.90	J	1000	888		ug/L		89	75 - 125	0	20
Chromium	2.0	J	1000	876		ug/L		87	75 - 125	1	20
Cobalt	7.5		1000	899		ug/L		89	75 - 125	1	20
Copper	4.8	J	1000	885		ug/L		88	75 - 125	1	20
Lead	6.7		1000	882		ug/L		88	75 - 125	1	20
Molybdenum	4.1	J	1000	907		ug/L		90	75 - 125	0	20
Nickel	7.1	J	1000	874		ug/L		87	75 - 125	1	20
Selenium	ND		1000	924		ug/L		92	75 - 125	1	20
Silver	ND	F1 F2	500	423	F2	ug/L		85	75 - 125	81	20
Thallium	ND		1000	861		ug/L		86	75 - 125	0	20
Vanadium	1.6	J	1000	883		ug/L		88	75 - 125	1	20
Zinc	ND		1000	867		ug/L		87	75 - 125	2	20

Lab Sample ID: 720-90445-8 MS
Matrix: Water
Analysis Batch: 257643

Client Sample ID: DG-AM3W
Prep Type: Dissolved
Prep Batch: 257584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	914		ug/L		91	75 - 125
Arsenic	110		1000	1050		ug/L		95	75 - 125
Barium	390		1000	1300		ug/L		90	75 - 125
Beryllium	ND		1000	911		ug/L		91	75 - 125
Cadmium	ND		1000	906		ug/L		91	75 - 125
Chromium	3.1	J	1000	894		ug/L		89	75 - 125
Cobalt	11		1000	905		ug/L		89	75 - 125
Copper	4.6	J	1000	912		ug/L		91	75 - 125
Lead	ND		1000	905		ug/L		91	75 - 125
Molybdenum	5.3	J	1000	924		ug/L		92	75 - 125
Nickel	15		1000	888		ug/L		87	75 - 125
Selenium	ND		1000	960		ug/L		96	75 - 125
Silver	ND		500	426		ug/L		85	75 - 125
Thallium	7.3	J	1000	887		ug/L		88	75 - 125
Vanadium	2.3	J B	1000	936		ug/L		93	75 - 125
Zinc	20		1000	944		ug/L		92	75 - 125

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 257643

Client Sample ID: DG-AM3W
Prep Type: Dissolved
Prep Batch: 257584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	934		ug/L		93	75 - 125	2	20
Arsenic	110		1000	1080		ug/L		97	75 - 125	2	20
Barium	390		1000	1320		ug/L		93	75 - 125	2	20
Beryllium	ND		1000	923		ug/L		92	75 - 125	1	20
Cadmium	ND		1000	927		ug/L		93	75 - 125	2	20
Chromium	3.1	J	1000	915		ug/L		91	75 - 125	2	20
Cobalt	11		1000	925		ug/L		91	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 257643

Client Sample ID: DG-AM3W
Prep Type: Dissolved
Prep Batch: 257584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	4.6	J	1000	920		ug/L		92	75 - 125	1	20
Lead	ND		1000	925		ug/L		92	75 - 125	2	20
Molybdenum	5.3	J	1000	939		ug/L		93	75 - 125	2	20
Nickel	15		1000	908		ug/L		89	75 - 125	2	20
Selenium	ND		1000	981		ug/L		98	75 - 125	2	20
Silver	ND		500	434		ug/L		87	75 - 125	2	20
Thallium	7.3	J	1000	902		ug/L		89	75 - 125	2	20
Vanadium	2.3	J B	1000	961		ug/L		96	75 - 125	3	20
Zinc	20		1000	959		ug/L		94	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-257846/1-A
Matrix: Water
Analysis Batch: 257979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/03/19 19:52	01/04/19 09:05	1

Lab Sample ID: LCS 720-257846/2-A
Matrix: Water
Analysis Batch: 257979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.74		ug/L		97	85 - 115

Lab Sample ID: 720-90445-8 MS
Matrix: Water
Analysis Batch: 257979

Client Sample ID: DG-AM3W
Prep Type: Dissolved
Prep Batch: 257846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.59		ug/L		96	75 - 125

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 257979

Client Sample ID: DG-AM3W
Prep Type: Dissolved
Prep Batch: 257846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.33		ug/L		93	75 - 125	3	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-257306/9
Matrix: Water
Analysis Batch: 257306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/19/18 22:11	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 720-257306/10
Matrix: Water
Analysis Batch: 257306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	250	253		ug/L		101	90 - 110

Lab Sample ID: LCSD 720-257306/11
Matrix: Water
Analysis Batch: 257306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	250	253		ug/L		101	90 - 110	0	20

Lab Sample ID: 720-90445-8 MS
Matrix: Water
Analysis Batch: 257306

Client Sample ID: DG-AM3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		250	238		ug/L		95	85 - 115

Lab Sample ID: 720-90445-8 MSD
Matrix: Water
Analysis Batch: 257306

Client Sample ID: DG-AM3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	239		ug/L		96	85 - 115	0	20

GC/MS VOA

Analysis Batch: 519967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Total/NA	Water	8260B	
720-90445-2	DG-AE3W	Total/NA	Water	8260B	
720-90445-3	DG-AG3W	Total/NA	Water	8260B	
720-90445-4	DG-AI3W	Total/NA	Water	8260B	
720-90445-5	DUP-17	Total/NA	Water	8260B	
720-90445-6	FB-12.19.18	Total/NA	Water	8260B	
720-90445-7	DG-AK3W	Total/NA	Water	8260B	
720-90445-8	DG-AM3W	Total/NA	Water	8260B	
720-90445-9	DG-AO3W	Total/NA	Water	8260B	
720-90445-10	DG-AQ3W	Total/NA	Water	8260B	
720-90445-11	TB-12.19.18	Total/NA	Water	8260B	
MB 440-519967/4	Method Blank	Total/NA	Water	8260B	
LCS 440-519967/5	Lab Control Sample	Total/NA	Water	8260B	
720-90445-8 MS	DG-AM3W	Total/NA	Water	8260B	
720-90445-8 MSD	DG-AM3W	Total/NA	Water	8260B	

Analysis Batch: 519968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-2	DG-AE3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-3	DG-AG3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-4	DG-AI3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-5	DUP-17	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-6	FB-12.19.18	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-7	DG-AK3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-8	DG-AM3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-9	DG-AO3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-10	DG-AQ3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-11	TB-12.19.18	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-519968/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-519968/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-8 MS	DG-AM3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-8 MSD	DG-AM3W	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 518884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 518884 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-2	DG-AE3W	Total/NA	Water	3520C	
720-90445-3	DG-AG3W	Total/NA	Water	3520C	
720-90445-4	DG-AI3W	Total/NA	Water	3520C	
720-90445-5	DUP-17	Total/NA	Water	3520C	
720-90445-7	DG-AK3W	Total/NA	Water	3520C	
720-90445-8	DG-AM3W	Total/NA	Water	3520C	
720-90445-9	DG-AO3W	Total/NA	Water	3520C	
720-90445-10	DG-AQ3W	Total/NA	Water	3520C	
MB 440-518884/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-518884/2-A	Lab Control Sample	Total/NA	Water	3520C	
720-90445-8 MS	DG-AM3W	Total/NA	Water	3520C	
720-90445-8 MSD	DG-AM3W	Total/NA	Water	3520C	

Analysis Batch: 519025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-8	DG-AM3W	Total/NA	Water	8270C SIM	518884
MB 440-518884/1-A	Method Blank	Total/NA	Water	8270C SIM	518884
LCS 440-518884/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	518884
720-90445-8 MS	DG-AM3W	Total/NA	Water	8270C SIM	518884
720-90445-8 MSD	DG-AM3W	Total/NA	Water	8270C SIM	518884

Analysis Batch: 519273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Total/NA	Water	8270C SIM	518884
720-90445-2	DG-AE3W	Total/NA	Water	8270C SIM	518884
720-90445-4	DG-AI3W	Total/NA	Water	8270C SIM	518884
720-90445-7	DG-AK3W	Total/NA	Water	8270C SIM	518884
720-90445-10	DG-AQ3W	Total/NA	Water	8270C SIM	518884

Analysis Batch: 519590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-5	DUP-17	Total/NA	Water	8270C SIM	518884

Analysis Batch: 520151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-3	DG-AG3W	Total/NA	Water	8270C SIM	518884
720-90445-9	DG-AO3W	Total/NA	Water	8270C SIM	518884

GC Semi VOA

Prep Batch: 518859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Total/NA	Water	3510C	
720-90445-2	DG-AE3W	Total/NA	Water	3510C	
720-90445-3	DG-AG3W	Total/NA	Water	3510C	
720-90445-4	DG-AI3W	Total/NA	Water	3510C	
720-90445-5	DUP-17	Total/NA	Water	3510C	
720-90445-7	DG-AK3W	Total/NA	Water	3510C	
720-90445-8	DG-AM3W	Total/NA	Water	3510C	
720-90445-9	DG-AO3W	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 518859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-10	DG-AQ3W	Total/NA	Water	3510C	
MB 440-518859/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-518859/2-A	Lab Control Sample	Total/NA	Water	3510C	
720-90445-8 MS	DG-AM3W	Total/NA	Water	3510C	
720-90445-8 MSD	DG-AM3W	Total/NA	Water	3510C	

Analysis Batch: 519249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-8	DG-AM3W	Total/NA	Water	8015B	518859
MB 440-518859/1-A	Method Blank	Total/NA	Water	8015B	518859
LCS 440-518859/2-A	Lab Control Sample	Total/NA	Water	8015B	518859
720-90445-8 MS	DG-AM3W	Total/NA	Water	8015B	518859
720-90445-8 MSD	DG-AM3W	Total/NA	Water	8015B	518859

Analysis Batch: 519777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Total/NA	Water	8015B	518859
720-90445-2	DG-AE3W	Total/NA	Water	8015B	518859
720-90445-3	DG-AG3W	Total/NA	Water	8015B	518859
720-90445-4	DG-AI3W	Total/NA	Water	8015B	518859
720-90445-5	DUP-17	Total/NA	Water	8015B	518859
720-90445-7	DG-AK3W	Total/NA	Water	8015B	518859
720-90445-9	DG-AO3W	Total/NA	Water	8015B	518859
720-90445-10	DG-AQ3W	Total/NA	Water	8015B	518859

Metals

Prep Batch: 257456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Dissolved	Water	3005A	
720-90445-2	DG-AE3W	Dissolved	Water	3005A	
720-90445-4	DG-AI3W	Dissolved	Water	3005A	
720-90445-5	DUP-17	Dissolved	Water	3005A	
720-90445-7	DG-AK3W	Dissolved	Water	3005A	
720-90445-9	DG-AO3W	Dissolved	Water	3005A	
720-90445-10	DG-AQ3W	Dissolved	Water	3005A	
MB 720-257456/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-257456/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90382-H-3-B MS	Matrix Spike	Dissolved	Water	3005A	
720-90382-H-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 257584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-3	DG-AG3W	Dissolved	Water	3005A	
720-90445-8	DG-AM3W	Dissolved	Water	3005A	
MB 720-257584/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-257584/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90445-8 MS	DG-AM3W	Dissolved	Water	3005A	
720-90445-8 MSD	DG-AM3W	Dissolved	Water	3005A	

Metals (Continued)

Analysis Batch: 257643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-3	DG-AG3W	Dissolved	Water	6010B	257584
720-90445-8	DG-AM3W	Dissolved	Water	6010B	257584
MB 720-257584/1-A	Method Blank	Total Recoverable	Water	6010B	257584
LCS 720-257584/2-A	Lab Control Sample	Total Recoverable	Water	6010B	257584
720-90445-8 MS	DG-AM3W	Dissolved	Water	6010B	257584
720-90445-8 MSD	DG-AM3W	Dissolved	Water	6010B	257584

Analysis Batch: 257686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Dissolved	Water	6010B	257456
720-90445-2	DG-AE3W	Dissolved	Water	6010B	257456
720-90445-4	DG-AI3W	Dissolved	Water	6010B	257456
720-90445-5	DUP-17	Dissolved	Water	6010B	257456
720-90445-7	DG-AK3W	Dissolved	Water	6010B	257456
720-90445-9	DG-AO3W	Dissolved	Water	6010B	257456
720-90445-10	DG-AQ3W	Dissolved	Water	6010B	257456
MB 720-257456/1-A	Method Blank	Total Recoverable	Water	6010B	257456
LCS 720-257456/2-A	Lab Control Sample	Total Recoverable	Water	6010B	257456
720-90382-H-3-B MS	Matrix Spike	Dissolved	Water	6010B	257456
720-90382-H-3-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	257456

Prep Batch: 257846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Dissolved	Water	7470A	
720-90445-2	DG-AE3W	Dissolved	Water	7470A	
720-90445-3	DG-AG3W	Dissolved	Water	7470A	
720-90445-4	DG-AI3W	Dissolved	Water	7470A	
720-90445-5	DUP-17	Dissolved	Water	7470A	
720-90445-7	DG-AK3W	Dissolved	Water	7470A	
720-90445-8	DG-AM3W	Dissolved	Water	7470A	
720-90445-9	DG-AO3W	Dissolved	Water	7470A	
720-90445-10	DG-AQ3W	Dissolved	Water	7470A	
MB 720-257846/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-257846/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90445-8 MS	DG-AM3W	Dissolved	Water	7470A	
720-90445-8 MSD	DG-AM3W	Dissolved	Water	7470A	

Analysis Batch: 257979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Dissolved	Water	7470A	257846
720-90445-2	DG-AE3W	Dissolved	Water	7470A	257846
720-90445-3	DG-AG3W	Dissolved	Water	7470A	257846
720-90445-4	DG-AI3W	Dissolved	Water	7470A	257846
720-90445-5	DUP-17	Dissolved	Water	7470A	257846
720-90445-7	DG-AK3W	Dissolved	Water	7470A	257846
720-90445-8	DG-AM3W	Dissolved	Water	7470A	257846
720-90445-9	DG-AO3W	Dissolved	Water	7470A	257846
720-90445-10	DG-AQ3W	Dissolved	Water	7470A	257846
MB 720-257846/1-A	Method Blank	Total/NA	Water	7470A	257846
LCS 720-257846/2-A	Lab Control Sample	Total/NA	Water	7470A	257846
720-90445-8 MS	DG-AM3W	Dissolved	Water	7470A	257846

Metals (Continued)

Analysis Batch: 257979 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-8 MSD	DG-AM3W	Dissolved	Water	7470A	257846

General Chemistry

Analysis Batch: 257306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90445-1	DG-AC3W	Total/NA	Water	7196A	
720-90445-2	DG-AE3W	Total/NA	Water	7196A	
720-90445-3	DG-AG3W	Total/NA	Water	7196A	
720-90445-4	DG-AI3W	Total/NA	Water	7196A	
720-90445-5	DUP-17	Total/NA	Water	7196A	
720-90445-7	DG-AK3W	Total/NA	Water	7196A	
720-90445-8	DG-AM3W	Total/NA	Water	7196A	
720-90445-9	DG-AO3W	Total/NA	Water	7196A	
720-90445-10	DG-AQ3W	Total/NA	Water	7196A	
MB 720-257306/9	Method Blank	Total/NA	Water	7196A	
LCS 720-257306/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-257306/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90445-8 MS	DG-AM3W	Total/NA	Water	7196A	
720-90445-8 MSD	DG-AM3W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AC3W

Lab Sample ID: 720-90445-1

Date Collected: 12/19/18 08:30

Matrix: Water

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 11:42	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 11:42	WC	TAL IRV
Total/NA	Prep	3520C			518884	12/22/18 08:51	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 14:09	HN	TAL IRV
Total/NA	Prep	3510C			518859	12/22/18 05:34	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/29/18 00:45	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:23	BKR	TAL PLS
Dissolved	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257979	01/04/19 09:55	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:11	ECB	TAL PLS

Client Sample ID: DG-AE3W

Lab Sample ID: 720-90445-2

Date Collected: 12/19/18 09:05

Matrix: Water

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 12:07	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 12:07	WC	TAL IRV
Total/NA	Prep	3520C			518884	12/22/18 08:51	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 14:34	HN	TAL IRV
Total/NA	Prep	3510C			518859	12/22/18 05:34	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/29/18 01:05	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:37	BKR	TAL PLS
Dissolved	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257979	01/04/19 09:58	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:11	ECB	TAL PLS

Client Sample ID: DG-AG3W

Lab Sample ID: 720-90445-3

Date Collected: 12/19/18 10:35

Matrix: Water

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 12:31	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 12:31	WC	TAL IRV
Total/NA	Prep	3520C			518884	12/22/18 08:51	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		5	520151	12/31/18 14:11	HN	TAL IRV
Total/NA	Prep	3510C			518859	12/22/18 05:34	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/29/18 01:46	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 20:55	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AG3W

Date Collected: 12/19/18 10:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257979	01/04/19 10:05	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:11	ECB	TAL PLS

Client Sample ID: DG-AI3W

Date Collected: 12/19/18 14:09
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 12:55	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 12:55	WC	TAL IRV
Total/NA	Prep	3520C			518884	12/22/18 08:51	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 14:58	HN	TAL IRV
Total/NA	Prep	3510C			518859	12/22/18 05:34	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/29/18 02:06	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:41	BKR	TAL PLS
Dissolved	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257979	01/04/19 10:07	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:11	ECB	TAL PLS

Client Sample ID: DUP-17

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 13:20	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 13:20	WC	TAL IRV
Total/NA	Prep	3520C			518884	12/22/18 08:51	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519590	12/27/18 20:23	HN	TAL IRV
Total/NA	Prep	3510C			518859	12/22/18 05:34	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/29/18 02:26	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:46	BKR	TAL PLS
Dissolved	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257979	01/04/19 10:09	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:11	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: FB-12.19.18

Lab Sample ID: 720-90445-6

Date Collected: 12/19/18 11:40
Matrix: Water
Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 13:44	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 13:44	WC	TAL IRV

Client Sample ID: DG-AK3W

Lab Sample ID: 720-90445-7

Date Collected: 12/19/18 13:00
Matrix: Water
Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 14:09	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 14:09	WC	TAL IRV
Total/NA	Prep	3520C			518884	12/22/18 08:51	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 17:49	HN	TAL IRV
Total/NA	Prep	3510C			518859	12/22/18 05:34	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/29/18 02:47	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:51	BKR	TAL PLS
Dissolved	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257979	01/04/19 10:11	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:11	ECB	TAL PLS

Client Sample ID: DG-AM3W

Lab Sample ID: 720-90445-8

Date Collected: 12/19/18 13:45
Matrix: Water
Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 10:04	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 10:04	WC	TAL IRV
Total/NA	Prep	3520C			518884	12/22/18 08:51	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519025	12/24/18 16:57	HN	TAL IRV
Total/NA	Prep	3510C			518859	12/22/18 05:34	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519249	12/26/18 22:00	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 20:45	MAG	TAL PLS
Dissolved	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257979	01/04/19 09:37	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:11	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Client Sample ID: DG-AO3W

Date Collected: 12/19/18 14:25
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 14:33	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 14:33	WC	TAL IRV
Total/NA	Prep	3520C			518884	12/22/18 08:51	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		5	520151	12/31/18 14:36	HN	TAL IRV
Total/NA	Prep	3510C			518859	12/22/18 05:34	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/29/18 03:07	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 14:56	BKR	TAL PLS
Dissolved	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257979	01/04/19 10:14	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:14	ECB	TAL PLS

Client Sample ID: DG-AQ3W

Date Collected: 12/19/18 15:10
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 14:58	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 14:58	WC	TAL IRV
Total/NA	Prep	3520C			518884	12/22/18 08:51	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	519273	12/26/18 18:13	HN	TAL IRV
Total/NA	Prep	3510C			518859	12/22/18 05:34	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/29/18 03:27	MPD	TAL IRV
Dissolved	Prep	3005A			257456	12/21/18 14:27	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257686	12/27/18 15:01	BKR	TAL PLS
Dissolved	Prep	7470A			257846	01/03/19 19:52	GLL	TAL PLS
Dissolved	Analysis	7470A		1	257979	01/04/19 10:16	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257306	12/19/18 22:14	ECB	TAL PLS

Client Sample ID: TB-12.19.18

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90445-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 15:22	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 15:22	WC	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90445-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90445-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90445-1	DG-AC3W	Water	12/19/18 08:30	12/19/18 19:30
720-90445-2	DG-AE3W	Water	12/19/18 09:05	12/19/18 19:30
720-90445-3	DG-AG3W	Water	12/19/18 10:35	12/19/18 19:30
720-90445-4	DG-AI3W	Water	12/19/18 14:09	12/19/18 19:30
720-90445-5	DUP-17	Water	12/19/18 00:00	12/19/18 19:30
720-90445-6	FB-12.19.18	Water	12/19/18 11:40	12/19/18 19:30
720-90445-7	DG-AK3W	Water	12/19/18 13:00	12/19/18 19:30
720-90445-8	DG-AM3W	Water	12/19/18 13:45	12/19/18 19:30
720-90445-9	DG-AO3W	Water	12/19/18 14:25	12/19/18 19:30
720-90445-10	DG-AQ3W	Water	12/19/18 15:10	12/19/18 19:30
720-90445-11	TB-12.19.18	Water	12/19/18 00:00	12/19/18 19:30

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90445

Chain of Custody Record

187485

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12.19.18	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90445 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG-AC3W	12-19-18	0830	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG-AE3W	12.19.18	0905				Y		X	X	X	X	X	
3	DG-AG3W	12.19.18	1035				Y		X	X	X	X	X	
4	DG-AI3W	12.19.18	1109				Y		X	X	X	X	X	
5	DUP-17	12.19.18	—				Y		X	X	X	X	X	
6	FB.12.19.18	12.19.18	1140			2			X					
7	DG-AK3W	121918	1300			9	X		X	X	X	X	X	
8	DG-AM3W	121918	1345			17	X	X	X	X	X	X	X	
9	DG-AO3W	12/19/18	1425			9	X		X	X	X	X	X	
10	DG-AQ3W	12/19/18	1510			9	X		X	X	X	X	X	
11	Trip Blank	12/19/18	—			1			X					

Page 1 of 1

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.6, 1.3, 1.0, 1.4
2.5, 1.2, 1.0, 2.7 °C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company: GEOSYNTEC	Date/Time: 12/19/18 1545	Received by:	Company: TAPLS	Date/Time: 12/19/18 1542
Relinquished by	Company: TAPLS	Date/Time: 12/19/18 1900	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/9/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4636 0276 6155	COC No: 720-40597.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90445-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastaoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AC3W (720-90445-1)	12/19/18	08:30 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AE3W (720-90445-2)	12/19/18	09:05 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AG3W (720-90445-3)	12/19/18	10:35 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AI3W (720-90445-4)	12/19/18	14:09 Pacific		Water			X	X	X	X	7	check for 2 phases
DUP-17 (720-90445-5)	12/19/18	Pacific		Water			X	X	X	X	7	check for 2 phases
FB-12 19.18 (720-90445-6)	12/19/18	11:40 Pacific		Water			X	X			2	check for 2 phases
DG-AK3W (720-90445-7)	12/19/18	13:00 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AM3W (720-90445-8)	12/19/18	13:45 Pacific		Water			X	X	X	X	5	check for 2 phases
DG-AM3W (720-90445-8MS)	12/19/18	13:45 Pacific	MS	Water			X	X	X	X	5	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 12/20/18 1358	Company: TAPL	Received by:	Date/Time	Company	
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company	
Relinquished by:	Date/Time	Company	Received by: A. Kennedy	Date/Time: 12/21/18 10:00	Company: TA IR	
Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: Temp IR			

2.1/2.3 1.9/3.1 3.1/3.3 1.1/1.3 IR - 94

Ver: 09/20/2016

1/9/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-40597.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90445-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B - TEPH (DRO and MRO)	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AM3W (720-90445-8MSD)	12/19/18	13:45 Pacific	MSD	Water			X	X	X	X	5	check for 2 phases
DG-AO3W (720-90445-9)	12/19/18	14:25 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AQ3W (720-90445-10)	12/19/18	15:10 Pacific		Water			X	X	X	X	7	check for 2 phases
TRIP BLANK (720-90445-11)	12/19/18	Pacific		Water			X	X			1	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/20/18 1358	TAPL			
2	Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time: 12/21/18	Company TAIR

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: Temp 1.1/1.3 IR-94

Ver: 09/20/2016

1/9/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90445-1

Login Number: 90445
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90445-1

Login Number: 90445
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/21/18 01:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90445-1

Login Number: 90445
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/21/18 03:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Headspace larger than 1/4".3 of 3 for sample # 3
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, December 20, 2018 1:24 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith
Cc: Patel, Urvashi
Subject: RE: TestAmerica sample confirmation files from 720-90445-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Confirmed to use sampling time listed on COCs. Please change sample ID for sample 11 from "Trip Blank" to "TB-12.19.18".

Please confirm you can still run VOC analysis on the samples listed below with air bubbles.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Thursday, December 20, 2018 11:26 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Cc: Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: TestAmerica sample confirmation files from 720-90445-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90445-1; Brisbane OU-2 Data Gap Investigation

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#3) DG-AG3W. The container labels list time 09:55, while the COC lists time 1035. Logged using the COC time.
(#8) DG-AM3W. The container labels list time 13:40, while the COC lists time 13:45. Logged using the COC time.
Please confirm the correct sampling time.

Additionally, please note that the following samples were received with an air bubble > 1/4" in the sample vials:
(#3) DG-AG3W all 3 vials
(#5) DUP-17 (1 of 3) vials
(#7) DG-AK3W (1 of 3) vials
(#8) DG-AM3W (4 of 9) vials (MS/MSD)
(#9) DG-AO3W (1 of 3) vials

We will proceed with all tests unless otherwise notified.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [490107]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90446-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/16/2019 1:01:41 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.
F4	MS/MSD RPD exceeds control limits due to sample size difference.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90446-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90446-1

Comments
No additional comments.
Revision created to remove sample -6 and sample -24 as they were analyzed past the 7 day analytical hold time for Terracores.

Receipt
The samples were received on 12/19/2018 7:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 1.0º C, 1.0º C, 1.2º C, 1.3º C, 1.4º C, 1.6º C, 2.5º C and 2.7º C.

GC/MS VOA
Method 8260B/CA_LUFTMS: Surrogate recovery for the following samples were outside control limits: (440-228365-A-1), (440-228365-A-1 MS) and (440-228365-A-1 MSD). Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

Method 8260B: The matrix spike and matrix spike duplicate (MS/MSD) precision for preparation batch 440-518913 and analytical batch 440-518877 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518870 recovered above the upper control limit for Toluene, Chloroform, 1,1-Dichloroethene, trans-1,2-Dichloroethene and Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-518870 recovered outside control limits for the following analyte: Bromobenzene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a “*” symbol .

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518913 and analytical batch 440-518870 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: The matrix spike duplicate (MSD) recovery for preparation batch 440-518913 and analytical batch 440-518870 was outside control limit. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-519008 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 440-519008 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 8260B: Surrogate recovery for Dibromofluoromethane for the following samples was below control limits: (440-228365-A-1 MS) and (440-228365-A-1 MSD). Re-analysis was performed with concurring results. The original analysis has been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519479 recovered above the upper control limit for 1,1-Dichloroethane and trans-1,2-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519967 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have

Job ID: 720-90446-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

been reported. The following samples are impacted: TB-121918 (720-90446-18) and (CCVIS 440-519967/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The method blank for preparation batch 720-257608 and analytical batch 720-257703 contained Benzo[b]fluoranthene and 2-Methylnaphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257608 and analytical batch 720-257703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The method blank for preparation batch 720-257611 and analytical batch 720-257766 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-AM3S-0.5-1 (720-90446-12). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The method blank for preparation batch 720-257713 and analytical batch 720-257793 contained Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene and Dibenz(a,h)anthracene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-P4S-4.5-5 (720-90446-21). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-O4S-4.5-5 (720-90446-22). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following sample required a dilution due to the nature of the sample matrix: DG-AM3S-0.5-1 (720-90446-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257428 and analytical batch 720-257557 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8081A: The continuing calibration verification (CCV) associated with batch 720-257557 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (MB 720-257428/1-A), (MB 720-257432/1-A) and (720-90470-B-1-I).

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-N4S-4.5-5 (720-90446-20), DG-P4S-4.5-5 (720-90446-21) and DG-O4S-4.5-5 (720-90446-22). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257432 and analytical batch 720-257700 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257432 and analytical batch 720-257700 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated

Job ID: 720-90446-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-257460 and analytical batch 720-257762 contained Ba above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257460 and analytical batch 720-257762 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257762 were outside of control limits. Ag-128%, Ba-162%, Be-157%, Cr-135%, Cu-163%, V-157%

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-AI3S-0.5-1 (720-90446-7), DG-AI3S-0.5-1 (720-90446-7[MS]), DG-AI3S-0.5-1 (720-90446-7[MSD]), (720-90446-A-7-C PDS) and (720-90446-A-7-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257446 and analytical batch 720-257788 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257446 and analytical batch 720-257788 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257788 was outside control limits for Barium-19%, Cobalt-18%, Chromium-15%, Copper-16%, Nickel-13%, Lead-13%, Vanadium-12%, Zinc-14%: (720-90446-A-1-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AC3S-0.5-1 (720-90446-1), DG-AC3S-3.5-4 (720-90446-2), DG-AE3S-0.5-1 (720-90446-3), DG-AE3S-3.5-4 (720-90446-4), DG-AG3S-0.5-1 (720-90446-5), DG-AG3S-3.5-4 (720-90446-6), DG-AI3S-3.5-4 (720-90446-8), DG-AK3S-0.5-1 (720-90446-9), DG-AK3S-3.5-4 (720-90446-10), DUP-17 (720-90446-11), DG-AM3S-0.5-1 (720-90446-12), DG-AM3S-3.5-4 (720-90446-13) and DG-AO3S-0.5-1 (720-90446-14). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Client Sample ID: DG-AC3S-0.5-1 — Lab Sample ID: 720-90446-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	33	B	10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.0	J	5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	16		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	27		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	50		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	68		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	110	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	33	F1	5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	44		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	74		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	11	F1	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	78		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.9	J	5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	28	F1	5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	22		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	58		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	100		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	72		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	170		50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	3.3	F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	20	F1 F2	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	61	F1 F2	1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	17		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	210	F2	5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	260	F2	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	18		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	77	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	230	F2	5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC3S-3.5-4 — Lab Sample ID: 720-90446-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.9	J B	10	5.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.0	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	7.1	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.2	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	3.6	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.9	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.2		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	12		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	3.7	J	5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	4.0		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	15	J	50	10	mg/Kg	1		8015B	Total/NA
Aroclor 1260	23	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	1.0	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.9	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC3S-3.5-4 (Continued) — Lab Sample ID: 720-90446-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	150		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.092	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	160		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	25		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	47		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	26		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.90	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	210		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	86		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	67		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	7.2		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-AE3S-0.5-1 — Lab Sample ID: 720-90446-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	J	1.8	0.90	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	2.8	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	3.6	J B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.0	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Pyrene	2.3	J	5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.0		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	13	J	50	9.9	mg/Kg	1		8015B	Total/NA
Arsenic	1.2	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	31		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.053	J	0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	9.3		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	120		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	2.3		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.46	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	4.1		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.61	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	39		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.027		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE3S-3.5-4 — Lab Sample ID: 720-90446-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	23	B	10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	8.4		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	10		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	34		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	47		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	60	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	44		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	21		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	45		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE3S-3.5-4 (Continued) — Lab Sample ID: 720-90446-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	10		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	72		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.2	J	5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	35		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	20		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	49		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	83		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	24		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	69		50	10	mg/Kg	1		8015B	Total/NA
Antimony	1.6	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	71		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	130		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.38	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	92		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	57		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	91		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.67	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	110		1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	120		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	1.2		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG3S-0.5-1 — Lab Sample ID: 720-90446-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	2.5	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	6.3		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	8.5		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	12		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	17	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	18		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.8		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	13		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	3.8	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	18		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	9.7		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	4.3	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	9.3		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	19		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	11		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	45	J	50	10	mg/Kg	1		8015B	Total/NA
Antimony	0.31	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	6.7		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	39		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	8.5		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	95		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	20		1.3	0.26	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG3S-0.5-1 (Continued) — Lab Sample ID: 720-90446-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.53	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	6.1		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	92		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	65		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.085		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG3S-3.5-4 — Lab Sample ID: 720-90446-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	3.8	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.7		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	11	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	7.4		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.6	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	7.1		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	7.3		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.4	J	5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	8.8		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	20		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	210		6.0	2.2	mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	690		150	30	mg/Kg	3		8015B	Total/NA
Antimony	0.98	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	30		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	150		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.51		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	120		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	41		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	25		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.96	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	160		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.65	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	70		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	1.0		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI3S-0.5-1 — Lab Sample ID: 720-90446-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.3	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	1.7	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.5	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	5.9	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.5	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	1.5	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	3.0	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Pyrene	3.3	J	5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.1		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	13	J	50	10	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AI3S-0.5-1 (Continued) — Lab Sample ID: 720-90446-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.62	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	38	B F1 F2	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	5.9	F1	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	98	F1	4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	6.6		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	2.7		1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	75	F1	1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	35		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.066		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI3S-3.5-4 — Lab Sample ID: 720-90446-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.40	J	0.75	0.37	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	55		9.6	4.8	ug/Kg	1		8270C SIM	Total/NA
Anthracene	7.4		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	3.4	J	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.5	B	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	35	B	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	14		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.3	J B	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	32		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.1	B	4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	9.0		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	19		4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	5.8		4.8	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	7.6		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	55		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	22		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	20		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	47	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	0.76	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	59		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	220		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.27	0.088	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	33		1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	48		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	29		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.82	J	1.4	0.17	mg/Kg	4		6010B	Total/NA
Nickel	47		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	110		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK3S-0.5-1 — Lab Sample ID: 720-90446-9

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK3S-0.5-1 (Continued)

Lab Sample ID: 720-90446-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	6.0	J	9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	2.6	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.7	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	5.6	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.5	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	2.6	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	3.6	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	3.5	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	5.2		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	3.4	J	5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	14		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	32	J	50	10	mg/Kg	1		8015B	Total/NA
4,4'-DDE	0.76	J	2.0	0.41	ug/Kg	1		8081A	Total/NA
4,4'-DDT	1.2	J	2.0	0.40	ug/Kg	1		8081A	Total/NA
Antimony	0.81	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	1.6	J	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	53		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.28		0.22	0.072	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.28	0.027	mg/Kg	4		6010B	Total/NA
Chromium	11		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	150		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	26		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.92	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	5.6		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.62	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	98		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	69		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.35		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK3S-3.5-4

Lab Sample ID: 720-90446-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	150		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	18		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	83		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	110		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	260		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	290		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	350	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	120		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	110		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	280		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	42		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	410		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	43		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	110		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	120		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	400		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	490		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK3S-3.5-4 (Continued) — Lab Sample ID: 720-90446-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	27		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	45	J	50	10	mg/Kg	1		8015B	Total/NA
Antimony	1.3	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	85		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	300		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.52		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	35		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	63		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	180		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	34		1.4	0.15	mg/Kg	4		6010B	Total/NA
Silver	0.23	J	0.72	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	210		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-17 — Lab Sample ID: 720-90446-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	130		81	56	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Trichloroethene	1.4		0.81	0.40	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	54		10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.1	J	5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.4	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	10		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.7		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	9.4		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	36	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	20		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.2		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	32		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.4		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	17		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	20		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	10		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	14		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	56		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	28		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	38		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	74		50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	1.3		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	110		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	160		1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.25		0.25	0.080	mg/Kg	4		6010B	Total/NA
Cadmium	0.33		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	27		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	85		3.7	1.8	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-17 (Continued) — Lab Sample ID: 720-90446-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	57		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.83	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	34		1.2	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	170		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM3S-0.5-1 — Lab Sample ID: 720-90446-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	550		99	48	ug/Kg	20		8270C SIM	Total/NA
Anthracene	550		99	40	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	160		99	30	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	350		99	38	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	390	B	99	42	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	3100		99	85	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	160		99	42	ug/Kg	20		8270C SIM	Total/NA
Chrysene	240		99	28	ug/Kg	20		8270C SIM	Total/NA
Dibenz(a,h)anthracene	210		99	70	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	150		99	28	ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	1100		99	83	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	98	J	99	36	ug/Kg	20		8270C SIM	Total/NA
Pyrene	210		99	34	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	310		10	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	780		250	50	mg/Kg	5		8015B	Total/NA
4,4'-DDE	3.1		1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	12		1.9	0.39	ug/Kg	1		8081A	Total/NA
Aroclor 1260	25	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	1.9		1.1	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	13		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	57		1.1	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.59		0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	17		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	130		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	140		1.1	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1		1.1	0.13	mg/Kg	4		6010B	Total/NA
Nickel	16		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	85		1.1	0.14	mg/Kg	4		6010B	Total/NA
Zinc	190		3.2	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.098		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM3S-3.5-4 — Lab Sample ID: 720-90446-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	58	J	68	47	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Methyl tert-butyl ether	0.82	J	1.4	0.68	ug/Kg	1		8260B	Total/NA
Toluene	0.37	J	0.68	0.34	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	31		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	3.3	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM3S-3.5-4 (Continued) — Lab Sample ID: 720-90446-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	6.5		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	12		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	15		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	33	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	17		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	8.6		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	27		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.4		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	22		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	12		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	23		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	29		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	31		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	65		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130		50	10	mg/Kg	1		8015B	Total/NA
Antimony	1.3		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	140		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	88		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	0.36		0.32	0.031	mg/Kg	4		6010B	Total/NA
Chromium	28		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	75		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	51		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.66	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	37		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.55	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	93		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO3S-0.5-1 — Lab Sample ID: 720-90446-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	40		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	11		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	19		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	23		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	28		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	60	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	17		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	22		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	37		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	7.0		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	52		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	15		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	40		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	39		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	53		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	42		2.0	0.75	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AO3S-0.5-1 (Continued) — Lab Sample ID: 720-90446-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	89		50	10	mg/Kg	1		8015B	Total/NA
Aroclor 1260	24	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	0.76	J	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	3.9		2.6	0.23	mg/Kg	4		6010B	Total/NA
Barium	39		1.3	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.33		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	14		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	140		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	64		1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.70	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	14		1.3	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	110		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO3S-3.5-4 — Lab Sample ID: 720-90446-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether - RA	1.2	J	1.3	0.67	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	16		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.5	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	6.8		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.9		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.6		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	29	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	12		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.9	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	23		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.5		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	18		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.5	J	5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	8.0		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	12		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	30		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	27		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	23		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	47	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	2.7		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	230		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	190		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.51		0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	31		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	72		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	43		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	48		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.9	0.44	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AO3S-3.5-4 (Continued) — Lab Sample ID: 720-90446-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	37		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	110		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.070		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ3S-0.5-1 — Lab Sample ID: 720-90446-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	3.5	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.1	J B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.1	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	1.5	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.4	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Pyrene	4.5	J	5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.0		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	11	J	50	10	mg/Kg	1		8015B	Total/NA
Arsenic	0.60	J	2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	23		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.29		0.27	0.088	mg/Kg	4		6010B	Total/NA
Cadmium	0.038	J	0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	5.1		1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	7.0		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	150		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	2.7		1.4	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.33	J	1.4	0.17	mg/Kg	4		6010B	Total/NA
Nickel	3.6		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.4	0.18	mg/Kg	4		6010B	Total/NA
Zinc	22		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.045		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ3S-3.5-4 — Lab Sample ID: 720-90446-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.6	J	10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	6.3		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Anthracene	16		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	30		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	24		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	54	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	18		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	11		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	54		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	10		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	58		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	5.8		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	14		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.2		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	79		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	80		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.5		2.0	0.75	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ3S-3.5-4 (Continued) — Lab Sample ID: 720-90446-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	15	J	50	10	mg/Kg	1		8015B	Total/NA
Antimony	0.88	J	1.2	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	52		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	130		1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.089	J	0.25	0.081	mg/Kg	4		6010B	Total/NA
Cadmium	0.25	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	23		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	39		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	45		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.58	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	37		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.68	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	82		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.062		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: TB-121918 — Lab Sample ID: 720-90446-18

No Detections.

Client Sample ID: DG-N4S-8.5-9 — Lab Sample ID: 720-90446-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	700		57	40	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Anthracene	3.4	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	2.8	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.3	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	18	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.8	J	5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.1	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	11		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	9.1		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.6	J	5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	4.3	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	15		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	11		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	29		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	40	J	50	10	mg/Kg	1		8015B	Total/NA

Client Sample ID: DG-N4S-4.5-5 — Lab Sample ID: 720-90446-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	39000		7000	4900	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	84	J	170	70	ug/Kg	100		8260B	Total/NA
N-Propylbenzene	35	J	70	35	ug/Kg	100		8260B	Total/NA
2-Methylnaphthalene	740		10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	250		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	73		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N4S-4.5-5 (Continued) — Lab Sample ID: 720-90446-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	200		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	10		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.4		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	57	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	10		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.7		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	55		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	6.2		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	44		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	330		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	7.5		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	280		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	720		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	69		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2800		40	15	mg/Kg	20		8015B	Total/NA

Client Sample ID: DG-P4S-4.5-5 — Lab Sample ID: 720-90446-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	260000		54000	38000	ug/Kg	500		8260B/CA_LUFT MS	Total/NA
2-Methylnaphthalene	730		100	50	ug/Kg	10		8270C SIM	Total/NA
Acenaphthene	240		50	28	ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	110		50	24	ug/Kg	10		8270C SIM	Total/NA
Anthracene	230		50	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	27	J	50	15	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	36	J	50	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	80	B	50	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	25	J	50	21	ug/Kg	10		8270C SIM	Total/NA
Chrysene	72		50	14	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	84		50	14	ug/Kg	10		8270C SIM	Total/NA
Fluorene	360		50	22	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	520		50	35	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	270		50	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	140		50	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3600		40	15	mg/Kg	20		8015B	Total/NA

Client Sample ID: DG-O4S-4.5-5 — Lab Sample ID: 720-90446-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	210000		41000	29000	ug/Kg	500		8260B/CA_LUFT MS	Total/NA
2-Methylnaphthalene	130		50	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthene	220		25	14	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	52		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	110		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	8.8	J	25	7.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	14	J	25	9.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	19	J B	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	10	J	25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	13	J	25	7.0	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O4S-4.5-5 (Continued) — Lab Sample ID: 720-90446-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	31		25	7.0	ug/Kg	5		8270C SIM	Total/NA
Fluorene	250		25	11	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	97		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	210		25	9.0	ug/Kg	5		8270C SIM	Total/NA
Pyrene	63		25	8.5	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2000		20	7.5	mg/Kg	10		8015B	Total/NA

Client Sample ID: DG-P4S-7.5-8 — Lab Sample ID: 720-90446-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	20000		7300	5100	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
2-Methylnaphthalene	11		10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	5.0		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.8	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	6.0		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	2.5	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.3	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	31	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	6.1		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.2	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	36		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.7	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	12		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	6.7		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	23		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	83		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	12		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	54		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	15	J	50	10	mg/Kg	1		8015B	Total/NA

Client Sample ID: DG-O4S-9.5-10 — Lab Sample ID: 720-90446-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	7.7	J	9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	14		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	3.8	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	8.1		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	2.8	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.1		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	21	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.6		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.8	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	9.1		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	7.9		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	16		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	11		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	21		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	12		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	130		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	21	J	50	9.9	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC3S-0.5-1
Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		77	54	ug/Kg		12/19/18 20:00	12/22/18 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*12/19/18 20:00*	*12/22/18 12:05*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*	*12/19/18 20:00*	*12/22/18 12:05*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/19/18 20:00*	*12/22/18 12:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,1,1-Trichloroethane	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.9	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,1,2-Trichloroethane	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,1-Dichloroethane	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,1-Dichloroethene	ND		1.5	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,1-Dichloropropene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,2,3-Trichlorobenzene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,2,3-Trichloropropane	ND		7.7	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,2,4-Trichlorobenzene	ND		3.9	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,2,4-Trimethylbenzene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.5	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,2-Dichlorobenzene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,2-Dichloroethane	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,2-Dichloropropane	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,3,5-Trimethylbenzene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,3-Dichlorobenzene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,3-Dichloropropane	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
1,4-Dichlorobenzene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
2,2-Dichloropropane	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
2-Butanone (MEK)	ND		7.7	3.9	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
2-Chlorotoluene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
2-Hexanone	ND		7.7	3.9	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
4-Chlorotoluene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
4-Isopropyltoluene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Benzene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Bromobenzene	ND	*	1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Bromoform	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Bromomethane	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Carbon tetrachloride	ND		1.5	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Chlorobenzene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Chlorodibromomethane	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Chloroethane	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Chloroform	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Chloromethane	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
cis-1,2-Dichloroethene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1

Client Sample ID: DG-AC3S-0.5-1
Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Dibromomethane	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Dichlorobromomethane	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Ethylbenzene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Ethylene Dibromide	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Hexachlorobutadiene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Isopropylbenzene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Methylene Chloride	ND		7.7	3.9	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Naphthalene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
n-Butylbenzene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
N-Propylbenzene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
sec-Butylbenzene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Styrene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
tert-Butylbenzene	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Tetrachloroethene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Toluene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
trans-1,2-Dichloroethene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
trans-1,3-Dichloropropene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Trichloroethene	ND		0.77	0.39	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Vinyl acetate	ND	F2 F1	6.2	3.1	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		12/19/18 20:00	12/22/18 12:05	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		12/19/18 20:00	12/22/18 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*12/19/18 20:00*	*12/22/18 12:05*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/19/18 20:00*	*12/22/18 12:05*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**33**	**B**	10	5.0	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Acenaphthene	**3.0**	**J**	5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Acenaphthylene	**16**		5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Anthracene	**27**		5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Benzo[a]anthracene	**50**		5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Benzo[a]pyrene	**68**		5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Benzo[b]fluoranthene	**110**	**B**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Benzo[g,h,i]perylene	**33**	**F1**	5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Benzo[k]fluoranthene	**44**		5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Chrysene	**74**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Dibenz(a,h)anthracene	**11**	**F1**	5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Fluoranthene	**78**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Fluorene	**2.9**	**J**	5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Indeno[1,2,3-cd]pyrene	**28**	**F1**	5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Naphthalene	**22**		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Phenanthrene	**58**		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 08:58	1
Pyrene	**100**		5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 08:58	1

Client Sample ID: DG-AC3S-0.5-1

Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/26/18 12:40*	*12/28/18 08:58*	*1*
Terphenyl-d14	*105*		*35 - 146*	*12/26/18 12:40*	*12/28/18 08:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**72**		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 22:38	1
Motor Oil Range Organics [C24-C36]	**170**		50	9.9	mg/Kg		12/26/18 10:01	12/27/18 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*85*		*40 - 130*	*12/26/18 10:01*	*12/27/18 22:38*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F2	1.9	0.58	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Chlordane (technical)	ND		38	3.1	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Endrin aldehyde	ND	F2	1.9	0.60	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/21/18 09:50	12/28/18 12:19	1
Toxaphene	ND		38	6.5	ug/Kg		12/21/18 09:50	12/28/18 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*21 - 136*	*12/21/18 09:50*	*12/28/18 12:19*	*1*
Tetrachloro-m-xylene	*94*		*21 - 145*	*12/21/18 09:50*	*12/28/18 12:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:38	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:38	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:38	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:38	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:38	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:38	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:38	1

Client Sample ID: DG-AC3S-0.5-1

Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*12/22/18 08:18*	*12/26/18 17:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.3**	**F1**	1.9	0.32	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Arsenic	**20**	**F1 F2**	3.8	0.32	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Barium	**61**	**F1 F2**	1.9	0.27	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Beryllium	ND		0.38	0.12	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Cadmium	**1.5**		0.48	0.047	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Chromium	**17**		1.9	0.20	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Cobalt	**10**		0.76	0.076	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Copper	**210**	**F2**	5.7	2.7	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Lead	**260**	**F2**	1.9	0.40	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Molybdenum	**1.2**	**J**	1.9	0.24	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Nickel	**18**		1.9	0.19	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Selenium	ND		3.8	0.57	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Silver	ND		0.95	0.19	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Thallium	ND		1.9	0.55	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Vanadium	**77**	**F1**	1.9	0.26	mg/Kg		12/22/18 10:25	12/28/18 17:06	4
Zinc	**230**	**F2**	5.7	2.4	mg/Kg		12/22/18 10:25	12/28/18 17:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.017	0.0025	mg/Kg		12/20/18 19:24	12/21/18 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AC3S-3.5-4

Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		62	44	ug/Kg		12/19/18 20:00	12/22/18 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*12/19/18 20:00*	*12/22/18 15:18*	*1*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*	*12/19/18 20:00*	*12/22/18 15:18*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/19/18 20:00*	*12/22/18 15:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,1,1-Trichloroethane	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	3.1	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,1,2-Trichloroethane	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,1-Dichloroethane	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,1-Dichloroethene	ND		1.2	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,1-Dichloropropene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,2,3-Trichlorobenzene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,2,3-Trichloropropane	ND		6.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,2,4-Trichlorobenzene	ND		3.1	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,2,4-Trimethylbenzene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,2-Dibromo-3-Chloropropane	ND		3.1	1.2	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,2-Dichlorobenzene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,2-Dichloroethane	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,2-Dichloropropane	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,3,5-Trimethylbenzene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,3-Dichlorobenzene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,3-Dichloropropane	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
1,4-Dichlorobenzene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
2,2-Dichloropropane	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
2-Butanone (MEK)	ND		6.2	3.1	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
2-Chlorotoluene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
2-Hexanone	ND		6.2	3.1	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
4-Chlorotoluene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
4-Isopropyltoluene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
4-Methyl-2-pentanone (MIBK)	ND		3.1	1.6	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Benzene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Bromobenzene	ND	*	1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Bromoform	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Bromomethane	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Carbon disulfide	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Carbon tetrachloride	ND		1.2	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Chlorobenzene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Chlorobromomethane	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Chlorodibromomethane	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Chloroethane	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Chloroform	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Chloromethane	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
cis-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1

Client Sample ID: DG-AC3S-3.5-4
Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Dibromomethane	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Dichlorobromomethane	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Dichlorodifluoromethane	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Ethylbenzene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Ethylene Dibromide	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Hexachlorobutadiene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Isopropylbenzene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Methyl tert-butyl ether	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Methylene Chloride	ND		6.2	3.1	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Naphthalene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
n-Butylbenzene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
N-Propylbenzene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
sec-Butylbenzene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Styrene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
tert-Butylbenzene	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Tetrachloroethene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Toluene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
trans-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
trans-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Trichloroethene	ND		0.62	0.31	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Trichlorofluoromethane	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Vinyl acetate	ND		5.0	2.5	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Vinyl chloride	ND		1.2	0.62	ug/Kg		12/19/18 20:00	12/22/18 15:18	1
Xylenes, Total	ND		1.2	0.81	ug/Kg		12/19/18 20:00	12/22/18 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*12/19/18 20:00*	*12/22/18 15:18*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/19/18 20:00*	*12/22/18 15:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.9**	**J B**	10	5.0	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Benzo[a]pyrene	**3.0**	**J**	5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Benzo[b]fluoranthene	**7.1**	**B**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Benzo[k]fluoranthene	**2.2**	**J**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Chrysene	**3.6**	**J**	5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Fluoranthene	**2.9**	**J**	5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Naphthalene	**5.2**		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Phenanthrene	**12**		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 14:21	1
Pyrene	**3.7**	**J**	5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 14:21	1

Client Sample ID: DG-AC3S-3.5-4

Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*12/26/18 12:40*	*12/28/18 14:21*	*1*
Terphenyl-d14	*94*		*35 - 146*	*12/26/18 12:40*	*12/28/18 14:21*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.0**		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 17:48	1
Motor Oil Range Organics [C24-C36]	**15**	**J**	50	10	mg/Kg		12/26/18 10:01	12/27/18 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*99*		*40 - 130*	*12/26/18 10:01*	*12/27/18 17:48*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:38	12/27/18 13:19	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:38	12/27/18 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*21 - 136*	*12/21/18 09:38*	*12/27/18 13:19*	*1*
Tetrachloro-m-xylene	*96*	*p*	*21 - 145*	*12/21/18 09:38*	*12/27/18 13:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:52	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:52	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:52	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:52	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:52	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 17:52	1
Aroclor 1260	**23**	**J**	50	17	ug/Kg		12/22/18 08:18	12/26/18 17:52	1

Client Sample ID: DG-AC3S-3.5-4

Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*12/22/18 08:18*	*12/26/18 17:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.4	0.24	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Arsenic	11		2.9	0.24	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Barium	150		1.4	0.20	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Beryllium	0.50		0.29	0.094	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Cadmium	0.092	J	0.36	0.036	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Chromium	160		1.4	0.15	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Cobalt	25		0.58	0.058	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Copper	47		4.3	2.0	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Lead	26		1.4	0.30	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Molybdenum	0.90	J	1.4	0.18	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Nickel	210		1.4	0.15	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Selenium	ND		2.9	0.43	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Silver	ND		0.72	0.15	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Thallium	ND		1.4	0.42	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Vanadium	86		1.4	0.20	mg/Kg		12/22/18 10:25	12/28/18 17:15	4
Zinc	67		4.3	1.8	mg/Kg		12/22/18 10:25	12/28/18 17:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.2		0.16	0.023	mg/Kg		12/20/18 19:24	12/21/18 16:18	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-AE3S-0.5-1

Date Collected: 12/19/18 09:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		90	63	ug/Kg		12/19/18 20:00	12/22/18 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*12/19/18 20:00*	*12/22/18 15:46*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*12/19/18 20:00*	*12/22/18 15:46*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/19/18 20:00*	*12/22/18 15:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,1,1-Trichloroethane	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.0	4.5	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,1,2-Trichloroethane	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,1-Dichloroethane	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,1-Dichloroethene	ND		1.8	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,1-Dichloropropene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,2,3-Trichlorobenzene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,2,3-Trichloropropane	ND		9.0	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,2,4-Trichlorobenzene	ND		4.5	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,2,4-Trimethylbenzene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,2-Dibromo-3-Chloropropane	ND		4.5	1.8	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,2-Dichlorobenzene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,2-Dichloroethane	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,2-Dichloropropane	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,3,5-Trimethylbenzene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,3-Dichlorobenzene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,3-Dichloropropane	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
1,4-Dichlorobenzene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
2,2-Dichloropropane	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
2-Butanone (MEK)	ND		9.0	4.5	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
2-Chlorotoluene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
2-Hexanone	ND		9.0	4.5	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
4-Chlorotoluene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
4-Isopropyltoluene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		4.5	2.2	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Benzene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Bromobenzene	ND	*	1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Bromoform	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Bromomethane	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Carbon disulfide	**1.1**	**J**	1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Carbon tetrachloride	ND		1.8	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Chlorobenzene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Chlorobromomethane	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Chlorodibromomethane	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Chloroethane	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Chloroform	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Chloromethane	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
cis-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1

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Lab Sample ID: 720-90446-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Dibromomethane	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Dichlorobromomethane	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Dichlorodifluoromethane	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Ethylbenzene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Ethylene Dibromide	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Hexachlorobutadiene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Isopropylbenzene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Methyl tert-butyl ether	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Methylene Chloride	ND		9.0	4.5	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Naphthalene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
n-Butylbenzene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
N-Propylbenzene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
sec-Butylbenzene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Styrene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
tert-Butylbenzene	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Tetrachloroethene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Toluene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
trans-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
trans-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Trichloroethene	ND		0.90	0.45	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Trichlorofluoromethane	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Vinyl acetate	ND		7.2	3.6	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Vinyl chloride	ND		1.8	0.90	ug/Kg		12/19/18 20:00	12/22/18 15:46	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		12/19/18 20:00	12/22/18 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*12/19/18 20:00*	*12/22/18 15:46*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/19/18 20:00*	*12/22/18 15:46*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Benzo[a]pyrene	**2.8**	**J**	5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Benzo[b]fluoranthene	**3.6**	**J B**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Chrysene	ND		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Fluoranthene	**2.0**	**J**	5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 14:44	1
Pyrene	**2.3**	**J**	5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 14:44	1

Client Sample ID: DG-AE3S-0.5-1

Date Collected: 12/19/18 09:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*12/26/18 12:40*	*12/28/18 14:44*	*1*
Terphenyl-d14	*96*		*35 - 146*	*12/26/18 12:40*	*12/28/18 14:44*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.0**		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 18:17	1
Motor Oil Range Organics [C24-C36]	**13**	**J**	50	9.9	mg/Kg		12/26/18 10:01	12/27/18 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*99*		*40 - 130*	*12/26/18 10:01*	*12/27/18 18:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:38	12/27/18 13:37	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:38	12/27/18 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*21 - 136*	*12/21/18 09:38*	*12/27/18 13:37*	*1*
Tetrachloro-m-xylene	*89*		*21 - 145*	*12/21/18 09:38*	*12/27/18 13:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:05	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:05	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:05	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:05	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:05	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:05	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:05	1

Client Sample ID: DG-AE3S-0.5-1

Date Collected: 12/19/18 09:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*12/22/18 08:18*	*12/26/18 18:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Arsenic	**1.2**	**J**	3.2	0.27	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Barium	**31**		1.6	0.23	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Beryllium	**0.11**	**J**	0.32	0.10	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Cadmium	**0.053**	**J**	0.40	0.039	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Chromium	**9.3**		1.6	0.17	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Cobalt	**11**		0.63	0.063	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Copper	**120**		4.8	2.3	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Lead	**2.3**		1.6	0.33	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Molybdenum	**0.46**	**J**	1.6	0.20	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Nickel	**4.1**		1.6	0.16	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Selenium	**0.61**	**J**	3.2	0.48	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Silver	ND		0.79	0.16	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Thallium	ND		1.6	0.46	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Vanadium	**110**		1.6	0.22	mg/Kg		12/22/18 10:25	12/28/18 17:20	4
Zinc	**39**		4.8	2.0	mg/Kg		12/22/18 10:25	12/28/18 17:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.017	0.0025	mg/Kg		12/20/18 19:24	12/21/18 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.6**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AE3S-3.5-4

Date Collected: 12/19/18 09:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		68	48	ug/Kg		12/19/18 20:00	12/22/18 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*12/19/18 20:00*	*12/22/18 16:13*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*12/19/18 20:00*	*12/22/18 16:13*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*	*12/19/18 20:00*	*12/22/18 16:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,1,1-Trichloroethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	3.4	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,1,2-Trichloroethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,1-Dichloroethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,1-Dichloropropene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,2,3-Trichlorobenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,2,3-Trichloropropane	ND		6.8	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,2,4-Trichlorobenzene	ND		3.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,2,4-Trimethylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,2-Dichlorobenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,2-Dichloroethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,2-Dichloropropane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,3,5-Trimethylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,3-Dichlorobenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,3-Dichloropropane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
1,4-Dichlorobenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
2,2-Dichloropropane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
2-Butanone (MEK)	ND		6.8	3.4	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
2-Chlorotoluene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
2-Hexanone	ND		6.8	3.4	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
4-Chlorotoluene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
4-Isopropyltoluene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Benzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Bromobenzene	ND	*	1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Bromoform	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Bromomethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Carbon disulfide	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Chlorobenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Chlorobromomethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Chlorodibromomethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Chloroethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Chloroform	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Chloromethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
cis-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1

Client Sample ID: DG-AE3S-3.5-4
Date Collected: 12/19/18 09:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Dibromomethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Dichlorobromomethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Dichlorodifluoromethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Ethylbenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Ethylene Dibromide	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Hexachlorobutadiene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Isopropylbenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Methyl tert-butyl ether	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Methylene Chloride	ND		6.8	3.4	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Naphthalene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
n-Butylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
N-Propylbenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
sec-Butylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Styrene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
tert-Butylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Tetrachloroethene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Toluene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
trans-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
trans-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Trichloroethene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Trichlorofluoromethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Vinyl acetate	ND		5.5	2.7	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Vinyl chloride	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 16:13	1
Xylenes, Total	ND		1.4	0.89	ug/Kg		12/19/18 20:00	12/22/18 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*12/19/18 20:00*	*12/22/18 16:13*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*	*12/19/18 20:00*	*12/22/18 16:13*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**23**	**B**	10	5.0	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Acenaphthylene	**8.4**		5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Anthracene	**10**		5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Benzo[a]anthracene	**34**		5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Benzo[a]pyrene	**47**		5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Benzo[b]fluoranthene	**60**	**B**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Benzo[g,h,i]perylene	**44**		5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Benzo[k]fluoranthene	**21**		5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Chrysene	**45**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Dibenz(a,h)anthracene	**10**		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Fluoranthene	**72**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Fluorene	**3.2**	**J**	5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Indeno[1,2,3-cd]pyrene	**35**		5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Naphthalene	**20**		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Phenanthrene	**49**		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 15:08	1
Pyrene	**83**		5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 15:08	1

Client Sample ID: DG-AE3S-3.5-4

Date Collected: 12/19/18 09:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*12/26/18 12:40*	*12/28/18 15:08*	*1*
Terphenyl-d14	*96*		*35 - 146*	*12/26/18 12:40*	*12/28/18 15:08*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**24**		2.0	0.75	mg/Kg		12/26/18 10:01	12/28/18 12:59	1
Motor Oil Range Organics [C24-C36]	**69**		50	10	mg/Kg		12/26/18 10:01	12/28/18 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*105*		*40 - 130*	*12/26/18 10:01*	*12/28/18 12:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:50	12/28/18 12:37	1
Toxaphene	ND		40	6.7	ug/Kg		12/21/18 09:50	12/28/18 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*21 - 136*	*12/21/18 09:50*	*12/28/18 12:37*	*1*
Tetrachloro-m-xylene	*93*		*21 - 145*	*12/21/18 09:50*	*12/28/18 12:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:18	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:18	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:18	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:18	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:18	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:18	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:18	1

Client Sample ID: DG-AE3S-3.5-4

Date Collected: 12/19/18 09:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*45 - 120*	*12/22/18 08:18*	*12/26/18 18:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.6**	**J**	1.8	0.30	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Arsenic	**71**		3.7	0.31	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Barium	**130**		1.8	0.26	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Beryllium	ND		0.37	0.12	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Cadmium	**0.38**	**J**	0.46	0.046	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Chromium	**92**		1.8	0.19	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Cobalt	**16**		0.73	0.073	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Copper	**57**		5.5	2.6	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Lead	**91**		1.8	0.39	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Molybdenum	**0.67**	**J**	1.8	0.23	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Nickel	**110**		1.8	0.19	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Selenium	ND		3.7	0.55	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Silver	ND		0.92	0.19	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Thallium	ND		1.8	0.53	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Vanadium	**62**		1.8	0.25	mg/Kg		12/22/18 10:25	12/28/18 17:34	4
Zinc	**120**		5.5	2.3	mg/Kg		12/22/18 10:25	12/28/18 17:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.2**		0.015	0.0022	mg/Kg		12/24/18 08:18	01/07/19 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AG3S-0.5-1

Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		97	68	ug/Kg		12/19/18 20:00	12/22/18 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*12/19/18 20:00*	*12/22/18 16:41*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*	*12/19/18 20:00*	*12/22/18 16:41*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/19/18 20:00*	*12/22/18 16:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,1,1-Trichloroethane	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	4.8	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,1,2-Trichloroethane	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,1-Dichloroethane	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,1-Dichloroethene	ND		1.9	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,1-Dichloropropene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,2,3-Trichlorobenzene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,2,3-Trichloropropane	ND		9.7	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,2,4-Trichlorobenzene	ND		4.8	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,2,4-Trimethylbenzene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,2-Dibromo-3-Chloropropane	ND		4.8	1.9	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,2-Dichlorobenzene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,2-Dichloroethane	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,2-Dichloropropane	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,3,5-Trimethylbenzene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,3-Dichlorobenzene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,3-Dichloropropane	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
1,4-Dichlorobenzene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
2,2-Dichloropropane	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
2-Butanone (MEK)	ND		9.7	4.8	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
2-Chlorotoluene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
2-Hexanone	ND		9.7	4.8	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
4-Chlorotoluene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
4-Isopropyltoluene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
4-Methyl-2-pentanone (MIBK)	ND		4.8	2.4	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Benzene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Bromobenzene	ND	*	1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Bromoform	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Bromomethane	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Carbon disulfide	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Carbon tetrachloride	ND		1.9	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Chlorobenzene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Chlorobromomethane	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Chlorodibromomethane	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Chloroethane	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Chloroform	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Chloromethane	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
cis-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1

Client Sample ID: DG-AG3S-0.5-1

Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Dibromomethane	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Dichlorobromomethane	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Dichlorodifluoromethane	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Ethylbenzene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Ethylene Dibromide	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Hexachlorobutadiene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Isopropylbenzene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Methyl tert-butyl ether	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Methylene Chloride	ND		9.7	4.8	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Naphthalene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
n-Butylbenzene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
N-Propylbenzene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
sec-Butylbenzene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Styrene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
tert-Butylbenzene	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Tetrachloroethene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Toluene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
trans-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
trans-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Trichloroethene	ND		0.97	0.48	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Trichlorofluoromethane	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Vinyl acetate	ND		7.7	3.9	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Vinyl chloride	ND		1.9	0.97	ug/Kg		12/19/18 20:00	12/22/18 16:41	1
Xylenes, Total	ND		1.9	1.3	ug/Kg		12/19/18 20:00	12/22/18 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*12/19/18 20:00*	*12/22/18 16:41*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/19/18 20:00*	*12/22/18 16:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Acenaphthylene	**2.5**	**J**	5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Anthracene	**6.3**		5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Benzo[a]anthracene	**8.5**		5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Benzo[a]pyrene	**12**		5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Benzo[b]fluoranthene	**17**	**B**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Benzo[g,h,i]perylene	**18**		5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Benzo[k]fluoranthene	**6.8**		5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Chrysene	**13**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Dibenz(a,h)anthracene	**3.8**	**J**	5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Fluoranthene	**18**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Indeno[1,2,3-cd]pyrene	**9.7**		5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Naphthalene	**4.3**	**J**	5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Phenanthrene	**9.3**		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 15:31	1
Pyrene	**19**		5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 15:31	1

Client Sample ID: DG-AG3S-0.5-1

Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*12/26/18 12:40*	*12/28/18 15:31*	*1*
Terphenyl-d14	*93*		*35 - 146*	*12/26/18 12:40*	*12/28/18 15:31*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		2.0	0.75	mg/Kg		12/26/18 10:01	12/28/18 13:23	1
Motor Oil Range Organics [C24-C36]	45	J	50	10	mg/Kg		12/26/18 10:01	12/28/18 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*114*		*40 - 130*	*12/26/18 10:01*	*12/28/18 13:23*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Aldrin	ND		1.9	0.49	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
delta-BHC	ND		1.9	0.43	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Endosulfan II	ND		1.9	0.48	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Endrin	ND		1.9	0.45	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Heptachlor	ND		1.9	0.45	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/21/18 09:50	12/28/18 12:54	1
Toxaphene	ND		39	6.6	ug/Kg		12/21/18 09:50	12/28/18 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*21 - 136*	*12/21/18 09:50*	*12/28/18 12:54*	*1*
Tetrachloro-m-xylene	*97*		*21 - 145*	*12/21/18 09:50*	*12/28/18 12:54*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:32	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:32	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:32	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:32	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:32	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:32	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:32	1

Client Sample ID: DG-AG3S-0.5-1

Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*12/22/18 08:18*	*12/26/18 18:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	1.3	0.21	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Arsenic	**6.7**		2.5	0.21	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Barium	**39**		1.3	0.18	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Beryllium	ND		0.25	0.082	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Cadmium	**0.14**	**J**	0.31	0.031	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Chromium	**8.5**		1.3	0.13	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Cobalt	**11**		0.50	0.050	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Copper	**95**		3.8	1.8	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Lead	**20**		1.3	0.26	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Molybdenum	**0.53**	**J**	1.3	0.16	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Nickel	**6.1**		1.3	0.13	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Selenium	ND		2.5	0.38	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Silver	ND		0.63	0.13	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Thallium	ND		1.3	0.36	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Vanadium	**92**		1.3	0.17	mg/Kg		12/22/18 10:25	12/28/18 17:39	4
Zinc	**65**		3.8	1.6	mg/Kg		12/22/18 10:25	12/28/18 17:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.085**		0.015	0.0022	mg/Kg		12/24/18 08:18	01/07/19 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AG3S-3.5-4

Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-6

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Benzo[a]anthracene	**3.8**	**J**	5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Benzo[a]pyrene	**7.7**		5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Benzo[b]fluoranthene	**11**	**B**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Benzo[g,h,i]perylene	**7.4**		5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Benzo[k]fluoranthene	**3.6**	**J**	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Chrysene	**7.1**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Fluoranthene	**7.3**		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Indeno[1,2,3-cd]pyrene	**4.4**	**J**	5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Phenanthrene	**8.8**		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 15:55	1
Pyrene	**20**		5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*12/26/18 12:40*	*12/28/18 15:55*	*1*
Terphenyl-d14	*102*		*35 - 146*	*12/26/18 12:40*	*12/28/18 15:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**210**		6.0	2.2	mg/Kg		12/26/18 10:01	12/27/18 22:00	3
Motor Oil Range Organics [C24-C36]	**690**		150	30	mg/Kg		12/26/18 10:01	12/27/18 22:00	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*40 - 130*	*12/26/18 10:01*	*12/27/18 22:00*	*3*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:50	12/28/18 13:13	1

Client Sample ID: DG-AG3S-3.5-4

Date Collected: 12/19/18 09:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-6

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:50	12/28/18 13:13	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:50	12/28/18 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*21 - 136*	*12/21/18 09:50*	*12/28/18 13:13*	*1*
Tetrachloro-m-xylene	*86*		*21 - 145*	*12/21/18 09:50*	*12/28/18 13:13*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:45	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:45	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:45	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:45	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:45	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:45	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*12/22/18 08:18*	*12/26/18 18:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.98**	**J**	1.6	0.26	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Arsenic	**30**		3.1	0.26	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Barium	**150**		1.6	0.22	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Beryllium	**0.51**		0.31	0.10	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Cadmium	**0.29**	**J**	0.39	0.038	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Chromium	**120**		1.6	0.16	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Cobalt	**20**		0.62	0.062	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Copper	**41**		4.7	2.2	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Lead	**25**		1.6	0.33	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Molybdenum	**0.96**	**J**	1.6	0.20	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Nickel	**160**		1.6	0.16	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Selenium	**0.65**	**J**	3.1	0.47	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Silver	ND		0.78	0.16	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Thallium	ND		1.6	0.45	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Vanadium	**81**		1.6	0.21	mg/Kg		12/22/18 10:25	12/28/18 17:44	4
Zinc	**70**		4.7	2.0	mg/Kg		12/22/18 10:25	12/28/18 17:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.0**		0.016	0.0023	mg/Kg		12/24/18 08:18	01/07/19 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AI3S-0.5-1

Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		95	66	ug/Kg		12/19/18 20:00	12/22/18 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*12/19/18 20:00*	*12/22/18 11:56*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*12/19/18 20:00*	*12/22/18 11:56*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*12/19/18 20:00*	*12/22/18 11:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,1,1-Trichloroethane	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.5	4.7	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,1,2-Trichloroethane	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,1-Dichloroethane	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,1-Dichloropropene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,2,3-Trichlorobenzene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,2,3-Trichloropropane	ND		9.5	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,2,4-Trichlorobenzene	ND		4.7	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,2,4-Trimethylbenzene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,2-Dichlorobenzene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,2-Dichloroethane	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,2-Dichloropropane	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,3,5-Trimethylbenzene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,3-Dichlorobenzene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,3-Dichloropropane	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
1,4-Dichlorobenzene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
2,2-Dichloropropane	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
2-Butanone (MEK)	ND		9.5	4.7	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
2-Chlorotoluene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
2-Hexanone	ND		9.5	4.7	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
4-Chlorotoluene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
4-Isopropyltoluene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.4	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Benzene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Bromobenzene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Bromoform	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Bromomethane	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Carbon disulfide	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Chlorobenzene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Chlorobromomethane	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Chlorodibromomethane	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Chloroethane	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Chloroform	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Chloromethane	ND	F2	1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
cis-1,2-Dichloroethene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1

Client Sample ID: DG-AI3S-0.5-1
Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Dibromomethane	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Dichlorobromomethane	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Dichlorodifluoromethane	ND	F2	1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Ethylbenzene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Ethylene Dibromide	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Hexachlorobutadiene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Isopropylbenzene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Methyl tert-butyl ether	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Methylene Chloride	ND		9.5	4.7	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Naphthalene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
n-Butylbenzene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
N-Propylbenzene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
sec-Butylbenzene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Styrene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
tert-Butylbenzene	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Tetrachloroethene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Toluene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
trans-1,2-Dichloroethene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
trans-1,3-Dichloropropene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Trichloroethene	ND		0.95	0.47	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Trichlorofluoromethane	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Vinyl acetate	ND	F1 F2	7.6	3.8	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Vinyl chloride	ND		1.9	0.95	ug/Kg		12/19/18 20:00	12/22/18 11:56	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		12/19/18 20:00	12/22/18 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*	*12/19/18 20:00*	*12/22/18 11:56*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*12/19/18 20:00*	*12/22/18 11:56*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Anthracene	**2.3**	**J**	5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Benzo[a]anthracene	**1.7**	**J**	5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Benzo[a]pyrene	**3.5**	**J**	5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Benzo[b]fluoranthene	**5.9**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Benzo[k]fluoranthene	**2.5**	**J**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Chrysene	**1.5**	**J**	5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Fluoranthene	**3.0**	**J**	5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 01:40	1
Pyrene	**3.3**	**J**	5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 01:40	1

Client Sample ID: DG-AI3S-0.5-1

Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*12/26/18 13:22*	*12/29/18 01:40*	*1*
Terphenyl-d14	*88*		*35 - 146*	*12/26/18 13:22*	*12/29/18 01:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.1**		2.0	0.75	mg/Kg		12/20/18 14:36	12/26/18 10:40	1
Motor Oil Range Organics [C24-C36]	**13**	**J**	50	10	mg/Kg		12/20/18 14:36	12/26/18 10:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*88*		*40 - 130*	*12/20/18 14:36*	*12/26/18 10:40*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1	1.9	0.59	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
delta-BHC	ND		1.9	0.43	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Endrin	ND		1.9	0.45	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Heptachlor	ND		1.9	0.45	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/21/18 09:50	12/28/18 14:05	1
Toxaphene	ND		39	6.6	ug/Kg		12/21/18 09:50	12/28/18 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*21 - 136*	*12/21/18 09:50*	*12/28/18 14:05*	*1*
Tetrachloro-m-xylene	*88*		*21 - 145*	*12/21/18 09:50*	*12/28/18 14:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:38	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:38	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:38	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:38	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:38	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:38	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:38	1

Client Sample ID: DG-AI3S-0.5-1

Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*	*12/22/18 08:18*	*12/26/18 19:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	1.6	0.27	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Arsenic	**0.62**	**J**	3.3	0.28	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Barium	**38**	**B F1 F2**	1.6	0.23	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Beryllium	ND	F1	0.33	0.11	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Cadmium	**0.11**	**J**	0.41	0.040	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Chromium	**5.9**	**F1**	1.6	0.17	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Cobalt	**8.2**		0.65	0.065	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Copper	**98**	**F1**	4.9	2.3	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Lead	**6.6**		1.6	0.34	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Molybdenum	**0.35**	**J**	1.6	0.21	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Nickel	**2.7**		1.6	0.17	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Selenium	ND		3.3	0.49	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Silver	ND		0.81	0.16	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Thallium	ND		1.6	0.47	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Vanadium	**75**	**F1**	1.6	0.22	mg/Kg		12/21/18 15:30	12/28/18 13:20	4
Zinc	**35**		4.9	2.1	mg/Kg		12/21/18 15:30	12/28/18 13:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**		0.015	0.0022	mg/Kg		12/24/18 08:18	01/07/19 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AI3S-3.5-4
Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-8
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	52	ug/Kg		12/19/18 20:00	12/22/18 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*12/19/18 20:00*	*12/22/18 17:36*	*1*
4-Bromofluorobenzene (Surr)	*120*		*79 - 120*	*12/19/18 20:00*	*12/22/18 17:36*	*1*
Toluene-d8 (Surr)	*112*		*79 - 123*	*12/19/18 20:00*	*12/22/18 17:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,1,1-Trichloroethane	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
2-Hexanone	ND		7.5	3.7	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
4-Isopropyltoluene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Benzene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Bromobenzene	ND	*	1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Bromoform	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Bromomethane	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Chloroethane	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Chloroform	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Chloromethane	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1

Client Sample ID: DG-AI3S-3.5-4
Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Dibromomethane	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Naphthalene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
N-Propylbenzene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Styrene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Tetrachloroethene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Toluene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Trichloroethene	**0.40**	**J**	0.75	0.37	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		12/19/18 20:00	12/22/18 17:36	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		12/19/18 20:00	12/22/18 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*12/19/18 20:00*	*12/22/18 17:36*	*1*
Toluene-d8 (Surr)	*112*		*79 - 123*	*12/19/18 20:00*	*12/22/18 17:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**55**		9.6	4.8	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Acenaphthene	ND		4.8	2.7	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Anthracene	**7.4**		4.8	1.9	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Benzo[a]anthracene	**3.4**	**J**	4.8	1.4	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Benzo[a]pyrene	**5.5**	**B**	4.8	1.8	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Benzo[b]fluoranthene	**35**	**B**	4.8	2.0	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Benzo[g,h,i]perylene	**14**		4.8	4.1	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Benzo[k]fluoranthene	**4.3**	**J B**	4.8	2.0	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Chrysene	**32**		4.8	1.3	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Dibenz(a,h)anthracene	**5.1**	**B**	4.8	3.4	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Fluoranthene	**9.0**		4.8	1.3	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Fluorene	**19**		4.8	2.1	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Indeno[1,2,3-cd]pyrene	**5.8**		4.8	4.0	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Naphthalene	**7.6**		4.8	3.4	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Phenanthrene	**55**		4.8	1.7	ug/Kg		12/28/18 20:35	12/31/18 16:17	1
Pyrene	**22**		4.8	1.6	ug/Kg		12/28/18 20:35	12/31/18 16:17	1

Client Sample ID: DG-AI3S-3.5-4

Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-8

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		33 - 120	12/28/18 20:35	12/31/18 16:17	1
Terphenyl-d14	86		35 - 146	12/28/18 20:35	12/31/18 16:17	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		2.0	0.75	mg/Kg		12/20/18 14:36	12/26/18 12:52	1
Motor Oil Range Organics [C24-C36]	47	J	50	9.9	mg/Kg		12/20/18 14:36	12/26/18 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	100		40 - 130	12/20/18 14:36	12/26/18 12:52	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Chlordane (technical)	ND		38	3.1	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/21/18 09:50	12/28/18 14:23	1
Toxaphene	ND		38	6.5	ug/Kg		12/21/18 09:50	12/28/18 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		21 - 136	12/21/18 09:50	12/28/18 14:23	1
Tetrachloro-m-xylene	82		21 - 145	12/21/18 09:50	12/28/18 14:23	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:52	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:52	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:52	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:52	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:52	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:52	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 19:52	1

Client Sample ID: DG-AI3S-3.5-4

Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*12/22/18 08:18*	*12/26/18 19:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.76**	**J**	1.4	0.23	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Arsenic	**59**		2.7	0.23	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Barium	**220**		1.4	0.19	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Beryllium	**0.41**		0.27	0.088	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Cadmium	**0.12**	**J**	0.34	0.034	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Chromium	**33**		1.4	0.14	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Cobalt	**18**		0.54	0.054	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Copper	**48**		4.1	1.9	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Lead	**29**		1.4	0.29	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Molybdenum	**0.82**	**J**	1.4	0.17	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Nickel	**47**		1.4	0.14	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Selenium	ND		2.7	0.41	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Silver	ND		0.68	0.14	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Thallium	ND		1.4	0.39	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Vanadium	**37**		1.4	0.19	mg/Kg		12/22/18 10:25	12/28/18 17:48	4
Zinc	**110**		4.1	1.7	mg/Kg		12/22/18 10:25	12/28/18 17:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.016	0.0023	mg/Kg		12/24/18 08:18	01/07/19 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AK3S-0.5-1

Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		65	45	ug/Kg		12/19/18 20:00	12/24/18 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*60 - 120*	*12/19/18 20:00*	*12/24/18 14:05*	*1*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*	*12/19/18 20:00*	*12/24/18 14:05*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*12/19/18 20:00*	*12/24/18 14:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,1,1-Trichloroethane	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.5	3.2	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,1,2-Trichloroethane	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,1-Dichloroethane	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,1-Dichloropropene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,2,3-Trichlorobenzene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,2,3-Trichloropropane	ND		6.5	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,2,4-Trichlorobenzene	ND		3.2	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,2,4-Trimethylbenzene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,2-Dichlorobenzene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,2-Dichloroethane	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,2-Dichloropropane	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,3,5-Trimethylbenzene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,3-Dichlorobenzene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,3-Dichloropropane	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
1,4-Dichlorobenzene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
2,2-Dichloropropane	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
2-Butanone (MEK)	ND		6.5	3.2	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
2-Chlorotoluene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
2-Hexanone	ND		6.5	3.2	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
4-Chlorotoluene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
4-Isopropyltoluene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Benzene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Bromobenzene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Bromoform	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Bromomethane	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Carbon disulfide	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Chlorobenzene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Chlorobromomethane	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Chlorodibromomethane	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Chloroethane	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Chloroform	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Chloromethane	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
cis-1,2-Dichloroethene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1

Client Sample ID: DG-AK3S-0.5-1
Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Dibromomethane	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Dichlorobromomethane	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Dichlorodifluoromethane	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Ethylbenzene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Ethylene Dibromide	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Hexachlorobutadiene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Isopropylbenzene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Methyl tert-butyl ether	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Methylene Chloride	ND		6.5	3.2	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Naphthalene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
n-Butylbenzene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
N-Propylbenzene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
sec-Butylbenzene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Styrene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
tert-Butylbenzene	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Tetrachloroethene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Toluene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
trans-1,2-Dichloroethene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
trans-1,3-Dichloropropene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Trichloroethene	ND		0.65	0.32	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Trichlorofluoromethane	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Vinyl acetate	ND		5.2	2.6	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Vinyl chloride	ND		1.3	0.65	ug/Kg		12/19/18 20:00	12/24/18 14:05	1
Xylenes, Total	ND		1.3	0.84	ug/Kg		12/19/18 20:00	12/24/18 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*	*12/19/18 20:00*	*12/24/18 14:05*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*12/19/18 20:00*	*12/24/18 14:05*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**6.0**	**J**	9.9	5.0	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Benzo[a]anthracene	**2.6**	**J**	5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Benzo[a]pyrene	**3.7**	**J**	5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Benzo[b]fluoranthene	**5.6**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Benzo[k]fluoranthene	**2.5**	**J**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Chrysene	**2.6**	**J**	5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Fluoranthene	**3.6**	**J**	5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Naphthalene	**3.5**	**J**	5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Phenanthrene	**5.2**		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 02:04	1
Pyrene	**3.4**	**J**	5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 02:04	1

Client Sample ID: DG-AK3S-0.5-1

Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-9

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120	12/26/18 13:22	12/29/18 02:04	1
Terphenyl-d14	90		35 - 146	12/26/18 13:22	12/29/18 02:04	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**		2.0	0.75	mg/Kg		12/20/18 14:36	12/26/18 11:54	1
Motor Oil Range Organics [C24-C36]	**32**	**J**	50	10	mg/Kg		12/20/18 14:36	12/26/18 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	84		40 - 130	12/20/18 14:36	12/26/18 11:54	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
4,4'-DDE	**0.76**	**J**	2.0	0.41	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
4,4'-DDT	**1.2**	**J**	2.0	0.40	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Endrin	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Endrin aldehyde	ND		2.0	0.61	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
gamma-BHC (Lindane)	ND		2.0	0.61	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Methoxychlor	ND		2.0	0.66	ug/Kg		12/21/18 09:50	12/28/18 14:40	1
Toxaphene	ND		39	6.6	ug/Kg		12/21/18 09:50	12/28/18 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		21 - 136	12/21/18 09:50	12/28/18 14:40	1
Tetrachloro-m-xylene	85		21 - 145	12/21/18 09:50	12/28/18 14:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:05	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:05	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:05	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:05	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:05	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:05	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:05	1

Client Sample ID: DG-AK3S-0.5-1

Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*12/22/18 08:18*	*12/26/18 20:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.81	J	1.1	0.18	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Arsenic	1.6	J	2.2	0.19	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Barium	53		1.1	0.16	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Beryllium	0.28		0.22	0.072	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Cadmium	0.20	J	0.28	0.027	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Chromium	11		1.1	0.12	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Cobalt	10		0.44	0.044	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Copper	150		3.3	1.6	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Lead	26		1.1	0.23	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Molybdenum	0.92	J	1.1	0.14	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Nickel	5.6		1.1	0.11	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Selenium	0.62	J	2.2	0.33	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Silver	ND		0.55	0.11	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Thallium	ND		1.1	0.32	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Vanadium	98		1.1	0.15	mg/Kg		12/22/18 10:25	12/28/18 17:53	4
Zinc	69		3.3	1.4	mg/Kg		12/22/18 10:25	12/28/18 17:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.015	0.0022	mg/Kg		12/24/18 08:18	01/07/19 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AK3S-3.5-4

Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		12/19/18 20:00	12/22/18 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*60 - 120*	*12/19/18 20:00*	*12/22/18 18:32*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*12/19/18 20:00*	*12/22/18 18:32*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/19/18 20:00*	*12/22/18 18:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,1,1-Trichloroethane	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.2	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,1,2-Trichloroethane	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,1-Dichloroethane	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,1-Dichloropropene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,2,4-Trichlorobenzene	ND		4.2	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,2-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,2-Dichloroethane	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,2-Dichloropropane	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,3-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,3-Dichloropropane	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
1,4-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
2-Butanone (MEK)	ND		8.3	4.2	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
2-Hexanone	ND		8.3	4.2	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
4-Isopropyltoluene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Benzene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Bromobenzene	ND	*	1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Bromoform	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Bromomethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Carbon disulfide	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Chlorobenzene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Chlorodibromomethane	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Chloroethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Chloroform	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Chloromethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
cis-1,2-Dichloroethene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1

Client Sample ID: DG-AK3S-3.5-4

Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Dibromomethane	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Dichlorobromomethane	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Ethylbenzene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Ethylene Dibromide	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Isopropylbenzene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Methyl tert-butyl ether	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Methylene Chloride	ND		8.3	4.2	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Naphthalene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
N-Propylbenzene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Styrene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Tetrachloroethene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Toluene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
trans-1,2-Dichloroethene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
trans-1,3-Dichloropropene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Trichloroethene	ND		0.83	0.42	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Vinyl acetate	ND		6.7	3.3	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 18:32	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/19/18 20:00	12/22/18 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*12/19/18 20:00*	*12/22/18 18:32*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/19/18 20:00*	*12/22/18 18:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**150**		9.9	5.0	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Acenaphthene	**18**		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Acenaphthylene	**83**		5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Anthracene	**110**		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Benzo[a]anthracene	**260**		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Benzo[a]pyrene	**290**		5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Benzo[b]fluoranthene	**350**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Benzo[g,h,i]perylene	**120**		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Benzo[k]fluoranthene	**110**		5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Chrysene	**280**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Dibenz(a,h)anthracene	**42**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Fluoranthene	**410**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Fluorene	**43**		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Indeno[1,2,3-cd]pyrene	**110**		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Naphthalene	**120**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Phenanthrene	**400**		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 03:14	1
Pyrene	**490**		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 03:14	1

Client Sample ID: DG-AK3S-3.5-4

Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-10

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	44		33 - 120	12/26/18 13:22	12/29/18 03:14	1
Terphenyl-d14	67		35 - 146	12/26/18 13:22	12/29/18 03:14	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	27		2.0	0.75	mg/Kg		12/20/18 14:36	12/26/18 13:21	1
Motor Oil Range Organics [C24-C36]	45	J	50	10	mg/Kg		12/20/18 14:36	12/26/18 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	78		40 - 130	12/20/18 14:36	12/26/18 13:21	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:50	12/24/18 17:21	1
Toxaphene	ND		40	6.7	ug/Kg		12/21/18 09:50	12/24/18 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		21 - 136	12/21/18 09:50	12/24/18 17:21	1
Tetrachloro-m-xylene	78		21 - 145	12/21/18 09:50	12/24/18 17:21	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:18	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:18	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:18	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:18	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:18	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:18	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:18	1

Client Sample ID: DG-AK3S-3.5-4

Date Collected: 12/19/18 13:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*12/22/18 08:18*	*12/26/18 20:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**	**J**	1.4	0.24	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Arsenic	**85**		2.9	0.24	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Barium	**300**		1.4	0.20	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Beryllium	**0.52**		0.29	0.094	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Cadmium	**0.26**	**J**	0.36	0.036	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Chromium	**35**		1.4	0.15	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Cobalt	**10**		0.58	0.058	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Copper	**63**		4.3	2.0	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Lead	**180**		1.4	0.30	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Molybdenum	**1.1**	**J**	1.4	0.18	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Nickel	**34**		1.4	0.15	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Selenium	ND		2.9	0.43	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Silver	**0.23**	**J**	0.72	0.15	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Thallium	ND		1.4	0.42	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Vanadium	**43**		1.4	0.20	mg/Kg		12/22/18 10:25	12/28/18 17:58	4
Zinc	**210**		4.3	1.8	mg/Kg		12/22/18 10:25	12/28/18 17:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.31**		0.017	0.0025	mg/Kg		12/24/18 08:18	01/07/19 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.0**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DUP-17

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	130		81	56	ug/Kg		12/19/18 20:00	12/24/18 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*12/19/18 20:00*	*12/24/18 14:34*	*1*
4-Bromofluorobenzene (Surr)	*115*		*79 - 120*	*12/19/18 20:00*	*12/24/18 14:34*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*12/19/18 20:00*	*12/24/18 14:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,1,1-Trichloroethane	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.1	4.0	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,1,2-Trichloroethane	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,1-Dichloroethane	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,1-Dichloropropene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,2,3-Trichlorobenzene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,2,3-Trichloropropane	ND		8.1	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,2,4-Trichlorobenzene	ND		4.0	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,2,4-Trimethylbenzene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,2-Dichlorobenzene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,2-Dichloroethane	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,2-Dichloropropane	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,3,5-Trimethylbenzene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,3-Dichlorobenzene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,3-Dichloropropane	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
1,4-Dichlorobenzene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
2,2-Dichloropropane	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
2-Butanone (MEK)	ND		8.1	4.0	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
2-Chlorotoluene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
2-Hexanone	ND		8.1	4.0	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
4-Chlorotoluene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
4-Isopropyltoluene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Benzene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Bromobenzene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Bromoform	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Bromomethane	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Carbon disulfide	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Chlorobenzene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Chlorobromomethane	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Chlorodibromomethane	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Chloroethane	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Chloroform	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Chloromethane	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
cis-1,2-Dichloroethene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1

Client Sample ID: DUP-17
Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-11
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Dibromomethane	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Dichlorobromomethane	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Dichlorodifluoromethane	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Ethylbenzene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Ethylene Dibromide	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Hexachlorobutadiene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Isopropylbenzene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Methyl tert-butyl ether	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Methylene Chloride	ND		8.1	4.0	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Naphthalene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
n-Butylbenzene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
N-Propylbenzene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
sec-Butylbenzene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Styrene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
tert-Butylbenzene	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Tetrachloroethene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Toluene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
trans-1,2-Dichloroethene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
trans-1,3-Dichloropropene	ND		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Trichloroethene	**1.4**		0.81	0.40	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Trichlorofluoromethane	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Vinyl acetate	ND		6.5	3.2	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Vinyl chloride	ND		1.6	0.81	ug/Kg		12/19/18 20:00	12/24/18 14:34	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		12/19/18 20:00	12/24/18 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*	*12/19/18 20:00*	*12/24/18 14:34*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*12/19/18 20:00*	*12/24/18 14:34*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**54**		10	5.0	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Acenaphthene	**3.1**	**J**	5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Acenaphthylene	**2.4**	**J**	5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Anthracene	**10**		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Benzo[a]anthracene	**7.7**		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Benzo[a]pyrene	**9.4**		5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Benzo[b]fluoranthene	**36**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Benzo[g,h,i]perylene	**20**		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Benzo[k]fluoranthene	**6.2**		5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Chrysene	**32**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Dibenz(a,h)anthracene	**5.4**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Fluoranthene	**17**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Fluorene	**20**		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Indeno[1,2,3-cd]pyrene	**10**		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Naphthalene	**14**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Phenanthrene	**56**		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 02:27	1
Pyrene	**28**		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 02:27	1

Client Sample ID: DUP-17

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-11

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		33 - 120	12/26/18 13:22	12/29/18 02:27	1
Terphenyl-d14	87		35 - 146	12/26/18 13:22	12/29/18 02:27	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		2.0	0.75	mg/Kg		12/20/18 14:36	12/26/18 13:50	1
Motor Oil Range Organics [C24-C36]	74		50	9.9	mg/Kg		12/20/18 14:36	12/26/18 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	69		40 - 130	12/20/18 14:36	12/26/18 13:50	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Chlordane (technical)	ND		38	3.0	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Endosulfan I	ND		1.9	0.30	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/21/18 09:50	12/24/18 15:18	1
Toxaphene	ND		38	6.5	ug/Kg		12/21/18 09:50	12/24/18 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		21 - 136	12/21/18 09:50	12/24/18 15:18	1
Tetrachloro-m-xylene	85		21 - 145	12/21/18 09:50	12/24/18 15:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:31	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:31	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:31	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:31	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:31	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:31	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:31	1

Client Sample ID: DUP-17

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*12/22/18 08:18*	*12/26/18 20:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**		1.2	0.20	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Arsenic	**110**		2.5	0.21	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Barium	**160**		1.2	0.18	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Beryllium	**0.25**		0.25	0.080	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Cadmium	**0.33**		0.31	0.031	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Chromium	**27**		1.2	0.13	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Cobalt	**15**		0.49	0.049	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Copper	**85**		3.7	1.8	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Lead	**57**		1.2	0.26	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Molybdenum	**0.83**	**J**	1.2	0.16	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Nickel	**34**		1.2	0.13	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Selenium	ND		2.5	0.37	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Silver	ND		0.62	0.12	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Thallium	ND		1.2	0.36	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Vanadium	**62**		1.2	0.17	mg/Kg		12/22/18 10:25	12/28/18 18:03	4
Zinc	**170**		3.7	1.6	mg/Kg		12/22/18 10:25	12/28/18 18:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.015	0.0022	mg/Kg		12/24/18 08:18	01/07/19 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AM3S-0.5-1
Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		82	57	ug/Kg		12/19/18 20:00	12/22/18 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*60 - 120*	*12/19/18 20:00*	*12/22/18 19:27*	*1*
4-Bromofluorobenzene (Surr)	*119*		*79 - 120*	*12/19/18 20:00*	*12/22/18 19:27*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*	*12/19/18 20:00*	*12/22/18 19:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,1,1-Trichloroethane	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.2	4.1	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,1,2-Trichloroethane	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,1-Dichloroethane	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,1-Dichloroethene	ND		1.6	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,1-Dichloropropene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,2,3-Trichlorobenzene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,2,3-Trichloropropane	ND		8.2	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,2,4-Trichlorobenzene	ND		4.1	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,2,4-Trimethylbenzene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,2-Dichlorobenzene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,2-Dichloroethane	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,2-Dichloropropane	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,3,5-Trimethylbenzene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,3-Dichlorobenzene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,3-Dichloropropane	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
1,4-Dichlorobenzene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
2,2-Dichloropropane	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
2-Butanone (MEK)	ND		8.2	4.1	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
2-Chlorotoluene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
2-Hexanone	ND		8.2	4.1	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
4-Chlorotoluene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
4-Isopropyltoluene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.1	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Benzene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Bromobenzene	ND	*	1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Bromoform	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Bromomethane	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Carbon disulfide	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Carbon tetrachloride	ND		1.6	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Chlorobenzene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Chlorobromomethane	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Chlorodibromomethane	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Chloroethane	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Chloroform	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Chloromethane	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
cis-1,2-Dichloroethene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1

Client Sample ID: DG-AM3S-0.5-1
Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Dibromomethane	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Dichlorobromomethane	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Dichlorodifluoromethane	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Ethylbenzene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Ethylene Dibromide	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Hexachlorobutadiene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Isopropylbenzene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Methyl tert-butyl ether	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Methylene Chloride	ND		8.2	4.1	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Naphthalene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
n-Butylbenzene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
N-Propylbenzene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
sec-Butylbenzene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Styrene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
tert-Butylbenzene	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Tetrachloroethene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Toluene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
trans-1,2-Dichloroethene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
trans-1,3-Dichloropropene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Trichloroethene	ND		0.82	0.41	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Trichlorofluoromethane	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Vinyl acetate	ND		6.6	3.3	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Vinyl chloride	ND		1.6	0.82	ug/Kg		12/19/18 20:00	12/22/18 19:27	1
Xylenes, Total	ND		1.6	1.1	ug/Kg		12/19/18 20:00	12/22/18 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*12/19/18 20:00*	*12/22/18 19:27*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*	*12/19/18 20:00*	*12/22/18 19:27*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	99	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Acenaphthene	ND		99	56	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Acenaphthylene	**550**		99	48	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Anthracene	**550**		99	40	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Benzo[a]anthracene	**160**		99	30	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Benzo[a]pyrene	**350**		99	38	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Benzo[b]fluoranthene	**390**	**B**	99	42	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Benzo[g,h,i]perylene	**3100**		99	85	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Benzo[k]fluoranthene	**160**		99	42	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Chrysene	**240**		99	28	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Dibenz(a,h)anthracene	**210**		99	70	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Fluoranthene	**150**		99	28	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Fluorene	ND		99	44	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Indeno[1,2,3-cd]pyrene	**1100**		99	83	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Naphthalene	ND		99	70	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Phenanthrene	**98**	**J**	99	36	ug/Kg		12/26/18 13:22	12/29/18 03:37	20
Pyrene	**210**		99	34	ug/Kg		12/26/18 13:22	12/29/18 03:37	20

Client Sample ID: DG-AM3S-0.5-1

Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-12

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		33 - 120	12/26/18 13:22	12/29/18 03:37	20
Terphenyl-d14	96		35 - 146	12/26/18 13:22	12/29/18 03:37	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**310**		10	3.7	mg/Kg		12/20/18 14:36	12/26/18 15:17	5
Motor Oil Range Organics [C24-C36]	**780**		250	50	mg/Kg		12/20/18 14:36	12/26/18 15:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	12/20/18 14:36	12/26/18 15:17	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
4,4'-DDE	**3.1**		1.9	0.40	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
4,4'-DDT	**12**		1.9	0.39	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Aldrin	ND		1.9	0.47	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Chlordane (n.o.s.)	ND		38	2.7	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Chlordane (technical)	ND		38	3.0	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Endosulfan I	ND		1.9	0.30	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Endosulfan II	ND		1.9	0.46	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Endrin	ND		1.9	0.43	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Endrin aldehyde	ND		1.9	0.59	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
gamma-BHC (Lindane)	ND		1.9	0.59	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Heptachlor	ND		1.9	0.43	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Methoxychlor	ND		1.9	0.64	ug/Kg		12/21/18 09:50	12/24/18 15:36	1
Toxaphene	ND		38	6.4	ug/Kg		12/21/18 09:50	12/24/18 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		21 - 136	12/21/18 09:50	12/24/18 15:36	1
Tetrachloro-m-xylene	76		21 - 145	12/21/18 09:50	12/24/18 15:36	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:45	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:45	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:45	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:45	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:45	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:45	1
Aroclor 1260	**25**	**J**	50	17	ug/Kg		12/22/18 08:18	12/26/18 20:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Client Sample ID: DG-AM3S-0.5-1
Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-12
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*12/22/18 08:18*	*12/26/18 20:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.9**		1.1	0.17	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Arsenic	**13**		2.1	0.18	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Barium	**57**		1.1	0.15	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Beryllium	ND		0.21	0.068	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Cadmium	**0.59**		0.26	0.026	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Chromium	**17**		1.1	0.11	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Cobalt	**9.8**		0.42	0.042	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Copper	**130**		3.2	1.5	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Lead	**140**		1.1	0.22	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Molybdenum	**1.1**		1.1	0.13	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Nickel	**16**		1.1	0.11	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Selenium	ND		2.1	0.32	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Silver	ND		0.53	0.11	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Thallium	ND		1.1	0.31	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Vanadium	**85**		1.1	0.14	mg/Kg		12/22/18 10:25	12/28/18 18:07	4
Zinc	**190**		3.2	1.3	mg/Kg		12/22/18 10:25	12/28/18 18:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.098**		0.015	0.0023	mg/Kg		12/24/18 08:18	01/07/19 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AM3S-3.5-4

Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	58	J	68	47	ug/Kg		12/19/18 20:00	12/22/18 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*12/19/18 20:00*	*12/22/18 14:34*	*1*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*	*12/19/18 20:00*	*12/22/18 14:34*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*12/19/18 20:00*	*12/22/18 14:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,1,1-Trichloroethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	3.4	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,1,2-Trichloroethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,1-Dichloroethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,1-Dichloropropene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,2,3-Trichlorobenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,2,3-Trichloropropane	ND		6.8	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,2,4-Trichlorobenzene	ND		3.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,2,4-Trimethylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,2-Dichlorobenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,2-Dichloroethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,2-Dichloropropane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,3,5-Trimethylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,3-Dichlorobenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,3-Dichloropropane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
1,4-Dichlorobenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
2,2-Dichloropropane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
2-Butanone (MEK)	ND		6.8	3.4	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
2-Chlorotoluene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
2-Hexanone	ND		6.8	3.4	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
4-Chlorotoluene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
4-Isopropyltoluene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Benzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Bromobenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Bromoform	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Bromomethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Carbon disulfide	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Chlorobenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Chlorobromomethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Chlorodibromomethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Chloroethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Chloroform	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Chloromethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
cis-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1

Client Sample ID: DG-AM3S-3.5-4
Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Dibromomethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Dichlorobromomethane	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Dichlorodifluoromethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Ethylbenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Ethylene Dibromide	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Hexachlorobutadiene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Isopropylbenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Methyl tert-butyl ether	**0.82**	**J**	1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Methylene Chloride	ND		6.8	3.4	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Naphthalene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
n-Butylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
N-Propylbenzene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
sec-Butylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Styrene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
tert-Butylbenzene	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Tetrachloroethene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Toluene	**0.37**	**J**	0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
trans-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
trans-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Trichloroethene	ND		0.68	0.34	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Trichlorofluoromethane	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Vinyl chloride	ND		1.4	0.68	ug/Kg		12/19/18 20:00	12/22/18 14:34	1
Xylenes, Total	ND		1.4	0.88	ug/Kg		12/19/18 20:00	12/22/18 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*	*12/19/18 20:00*	*12/22/18 14:34*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*12/19/18 20:00*	*12/22/18 14:34*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**31**		9.9	5.0	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Acenaphthylene	**3.3**	**J**	5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Anthracene	**6.5**		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Benzo[a]anthracene	**12**		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Benzo[a]pyrene	**15**		5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Benzo[b]fluoranthene	**33**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Benzo[g,h,i]perylene	**17**		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Benzo[k]fluoranthene	**8.6**		5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Chrysene	**27**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Dibenz(a,h)anthracene	**5.4**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Fluoranthene	**22**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Indeno[1,2,3-cd]pyrene	**12**		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Naphthalene	**23**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Phenanthrene	**29**		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 02:50	1
Pyrene	**31**		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 02:50	1

Client Sample ID: DG-AM3S-3.5-4

Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*33 - 120*	*12/26/18 13:22*	*12/29/18 02:50*	*1*
Terphenyl-d14	*87*		*35 - 146*	*12/26/18 13:22*	*12/29/18 02:50*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**65**		2.0	0.75	mg/Kg		12/20/18 14:36	12/26/18 14:19	1
Motor Oil Range Organics [C24-C36]	**130**		50	10	mg/Kg		12/20/18 14:36	12/26/18 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*69*		*40 - 130*	*12/20/18 14:36*	*12/26/18 14:19*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:50	12/24/18 15:53	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:50	12/24/18 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*21 - 136*	*12/21/18 09:50*	*12/24/18 15:53*	*1*
Tetrachloro-m-xylene	*82*		*21 - 145*	*12/21/18 09:50*	*12/24/18 15:53*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:58	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:58	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:58	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:58	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:58	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:58	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 20:58	1

Client Sample ID: DG-AM3S-3.5-4

Date Collected: 12/19/18 13:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*12/22/18 08:18*	*12/26/18 20:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3		1.3	0.21	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Arsenic	140		2.5	0.22	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Barium	88		1.3	0.18	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Beryllium	0.16	J	0.25	0.082	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Cadmium	0.36		0.32	0.031	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Chromium	28		1.3	0.13	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Cobalt	12		0.51	0.051	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Copper	75		3.8	1.8	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Lead	51		1.3	0.27	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Molybdenum	0.66	J	1.3	0.16	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Nickel	37		1.3	0.13	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Selenium	0.55	J	2.5	0.38	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Silver	ND		0.63	0.13	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Thallium	ND		1.3	0.37	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Vanadium	58		1.3	0.17	mg/Kg		12/22/18 10:25	12/28/18 18:12	4
Zinc	93		3.8	1.6	mg/Kg		12/22/18 10:25	12/28/18 18:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0022	mg/Kg		12/24/18 08:18	01/07/19 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AO3S-0.5-1

Date Collected: 12/19/18 14:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-14

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		12/19/18 20:00	12/22/18 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*12/19/18 20:00*	*12/22/18 14:08*	*1*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*	*12/19/18 20:00*	*12/22/18 14:08*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/19/18 20:00*	*12/22/18 14:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
2-Hexanone	ND		7.4	3.7	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Benzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Bromobenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Bromoform	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Bromomethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Chloroethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Chloroform	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Chloromethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1

Client Sample ID: DG-AO3S-0.5-1

Date Collected: 12/19/18 14:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-14

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Dibromomethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Naphthalene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Styrene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Toluene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Trichloroethene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Vinyl acetate	ND		5.9	3.0	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:08	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		12/19/18 20:00	12/22/18 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*	*12/19/18 20:00*	*12/22/18 14:08*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/19/18 20:00*	*12/22/18 14:08*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**40**		9.9	5.0	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Acenaphthylene	**11**		5.0	2.4	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Anthracene	**19**		5.0	2.0	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Benzo[a]anthracene	**23**		5.0	1.5	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Benzo[a]pyrene	**28**		5.0	1.9	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Benzo[b]fluoranthene	**60**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Benzo[g,h,i]perylene	**17**		5.0	4.3	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Benzo[k]fluoranthene	**22**		5.0	2.1	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Chrysene	**37**		5.0	1.4	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Dibenz(a,h)anthracene	**7.0**		5.0	3.5	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Fluoranthene	**52**		5.0	1.4	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Indeno[1,2,3-cd]pyrene	**15**		5.0	4.2	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Naphthalene	**40**		5.0	3.5	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Phenanthrene	**39**		5.0	1.8	ug/Kg		12/26/18 13:22	12/31/18 17:27	1
Pyrene	**53**		5.0	1.7	ug/Kg		12/26/18 13:22	12/31/18 17:27	1

Client Sample ID: DG-AO3S-0.5-1

Date Collected: 12/19/18 14:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*12/26/18 13:22*	*12/31/18 17:27*	*1*
Terphenyl-d14	*90*		*35 - 146*	*12/26/18 13:22*	*12/31/18 17:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**42**		2.0	0.75	mg/Kg		12/20/18 14:36	12/26/18 14:48	1
Motor Oil Range Organics [C24-C36]	**89**		50	10	mg/Kg		12/20/18 14:36	12/26/18 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*67*		*40 - 130*	*12/20/18 14:36*	*12/26/18 14:48*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Aldrin	ND		1.9	0.47	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Chlordane (n.o.s.)	ND		38	2.7	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Chlordane (technical)	ND		38	3.0	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Endosulfan I	ND		1.9	0.30	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Endosulfan II	ND		1.9	0.46	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Endrin	ND		1.9	0.43	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Endrin aldehyde	ND		1.9	0.59	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
gamma-BHC (Lindane)	ND		1.9	0.59	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Heptachlor	ND		1.9	0.43	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Methoxychlor	ND		1.9	0.64	ug/Kg		12/21/18 09:50	12/24/18 16:11	1
Toxaphene	ND		38	6.4	ug/Kg		12/21/18 09:50	12/24/18 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*21 - 136*	*12/21/18 09:50*	*12/24/18 16:11*	*1*
Tetrachloro-m-xylene	*88*		*21 - 145*	*12/21/18 09:50*	*12/24/18 16:11*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:11	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:11	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:11	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:11	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:11	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:11	1
Aroclor 1260	**24**	**J**	50	17	ug/Kg		12/22/18 08:18	12/26/18 21:11	1

Client Sample ID: DG-AO3S-0.5-1

Date Collected: 12/19/18 14:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*	*12/22/18 08:18*	*12/26/18 21:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.76**	**J**	1.3	0.22	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Arsenic	**3.9**		2.6	0.23	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Barium	**39**		1.3	0.19	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Beryllium	ND		0.26	0.086	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Cadmium	**0.33**		0.33	0.033	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Chromium	**14**		1.3	0.14	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Cobalt	**7.5**		0.53	0.053	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Copper	**140**		4.0	1.9	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Lead	**64**		1.3	0.28	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Molybdenum	**0.70**	**J**	1.3	0.17	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Nickel	**14**		1.3	0.14	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Selenium	ND		2.6	0.40	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Silver	ND		0.66	0.13	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Thallium	ND		1.3	0.38	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Vanadium	**81**		1.3	0.18	mg/Kg		12/22/18 10:25	12/28/18 18:17	4
Zinc	**110**		4.0	1.7	mg/Kg		12/22/18 10:25	12/28/18 18:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.015	0.0021	mg/Kg		12/24/18 08:18	01/07/19 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AO3S-3.5-4

Date Collected: 12/19/18 14:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		12/19/18 20:00	12/22/18 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*12/19/18 20:00*	*12/22/18 13:21*	*1*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*	*12/19/18 20:00*	*12/22/18 13:21*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*12/19/18 20:00*	*12/22/18 13:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,1,1-Trichloroethane	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.1	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,1,2-Trichloroethane	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,1-Dichloroethane	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,1-Dichloroethene	ND		1.7	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,1-Dichloropropene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,2,4-Trichlorobenzene	ND		4.1	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.7	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,2-Dichlorobenzene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,2-Dichloroethane	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,2-Dichloropropane	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,3-Dichlorobenzene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,3-Dichloropropane	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
1,4-Dichlorobenzene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
2-Butanone (MEK)	ND		8.3	4.1	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
2-Hexanone	ND		8.3	4.1	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
4-Isopropyltoluene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.1	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Benzene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Bromobenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Bromoform	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Bromomethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Carbon disulfide	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Carbon tetrachloride	ND		1.7	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Chlorobenzene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Chlorodibromomethane	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Chloroethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Chloroform	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Chloromethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
cis-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1

Client Sample ID: DG-AO3S-3.5-4

Date Collected: 12/19/18 14:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Dibromomethane	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Dichlorobromomethane	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Ethylbenzene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Ethylene Dibromide	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Isopropylbenzene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Methylene Chloride	ND		8.3	4.1	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
N-Propylbenzene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Styrene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Tetrachloroethene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Toluene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
trans-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
trans-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Trichloroethene	ND		0.83	0.41	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Vinyl acetate	ND		6.6	3.3	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		12/19/18 20:00	12/22/18 13:21	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/19/18 20:00	12/22/18 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*12/19/18 20:00*	*12/22/18 13:21*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*12/19/18 20:00*	*12/22/18 13:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.2**	**J**	1.3	0.67	ug/Kg		12/19/18 20:00	12/24/18 15:03	1
Naphthalene	ND		1.3	0.67	ug/Kg		12/19/18 20:00	12/24/18 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*	*12/19/18 20:00*	*12/24/18 15:03*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*	*12/19/18 20:00*	*12/24/18 15:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**16**		9.9	5.0	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Acenaphthylene	**2.5**	**J**	5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Anthracene	**6.8**		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Benzo[a]anthracene	**7.9**		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Benzo[a]pyrene	**8.6**		5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Benzo[b]fluoranthene	**29**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Benzo[g,h,i]perylene	**12**		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Benzo[k]fluoranthene	**4.9**	**J**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Chrysene	**23**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Dibenz(a,h)anthracene	**5.5**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 13:22	1

Client Sample ID: DG-AO3S-3.5-4

Date Collected: 12/19/18 14:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-15

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	18		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Fluorene	2.5	J	5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Indeno[1,2,3-cd]pyrene	8.0		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Naphthalene	12		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Phenanthrene	30		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 13:22	1
Pyrene	27		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*33 - 120*	*12/26/18 13:22*	*12/29/18 13:22*	*1*
Terphenyl-d14	*83*		*35 - 146*	*12/26/18 13:22*	*12/29/18 13:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	23		2.0	0.74	mg/Kg		12/20/18 14:43	12/26/18 12:23	1
Motor Oil Range Organics [C24-C36]	47	J	50	9.9	mg/Kg		12/20/18 14:43	12/26/18 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*62*		*40 - 130*	*12/20/18 14:43*	*12/26/18 12:23*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:50	12/24/18 16:28	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:50	12/24/18 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*21 - 136*	*12/21/18 09:50*	*12/24/18 16:28*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*12/21/18 09:50*	*12/24/18 16:28*	*1*

Client Sample ID: DG-AO3S-3.5-4

Date Collected: 12/19/18 14:35
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-15

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:25	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:25	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:25	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:25	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:25	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:25	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*12/22/18 08:18*	*12/26/18 21:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.7**		1.5	0.24	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Arsenic	**230**		2.9	0.25	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Barium	**190**		1.5	0.21	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Beryllium	**0.51**		0.29	0.096	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Cadmium	**0.27**	**J**	0.37	0.036	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Chromium	**31**		1.5	0.16	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Cobalt	**16**		0.59	0.059	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Copper	**72**		4.4	2.1	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Lead	**43**		1.5	0.31	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Molybdenum	**1.5**		1.5	0.19	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Nickel	**48**		1.5	0.15	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Selenium	**1.8**	**J**	2.9	0.44	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Silver	ND		0.74	0.15	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Thallium	ND		1.5	0.43	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Vanadium	**37**		1.5	0.20	mg/Kg		12/22/18 10:25	12/31/18 11:01	4
Zinc	**110**		4.4	1.9	mg/Kg		12/22/18 10:25	12/31/18 11:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.070**		0.016	0.0023	mg/Kg		12/24/18 08:18	01/07/19 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AQ3S-0.5-1
Date Collected: 12/19/18 15:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-16
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		84	59	ug/Kg		12/19/18 20:00	12/22/18 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*60 - 120*	*12/19/18 20:00*	*12/22/18 13:50*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*12/19/18 20:00*	*12/22/18 13:50*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*	*12/19/18 20:00*	*12/22/18 13:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,1,1-Trichloroethane	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.4	4.2	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,1,2-Trichloroethane	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,1-Dichloroethane	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,1-Dichloropropene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,2,3-Trichlorobenzene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,2,3-Trichloropropane	ND		8.4	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,2,4-Trichlorobenzene	ND		4.2	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,2,4-Trimethylbenzene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,2-Dichlorobenzene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,2-Dichloroethane	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,2-Dichloropropane	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,3,5-Trimethylbenzene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,3-Dichlorobenzene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,3-Dichloropropane	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
1,4-Dichlorobenzene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
2,2-Dichloropropane	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
2-Butanone (MEK)	ND		8.4	4.2	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
2-Chlorotoluene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
2-Hexanone	ND		8.4	4.2	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
4-Chlorotoluene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
4-Isopropyltoluene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Benzene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Bromobenzene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Bromoform	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Bromomethane	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Carbon disulfide	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Chlorobenzene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Chlorobromomethane	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Chlorodibromomethane	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Chloroethane	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Chloroform	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Chloromethane	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
cis-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1

Client Sample ID: DG-AQ3S-0.5-1

Date Collected: 12/19/18 15:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-16

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Dibromomethane	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Dichlorobromomethane	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Dichlorodifluoromethane	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Ethylbenzene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Ethylene Dibromide	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Hexachlorobutadiene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Isopropylbenzene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Methyl tert-butyl ether	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Methylene Chloride	ND		8.4	4.2	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Naphthalene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
n-Butylbenzene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
N-Propylbenzene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
sec-Butylbenzene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Styrene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
tert-Butylbenzene	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Tetrachloroethene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Toluene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
trans-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
trans-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Trichloroethene	ND		0.84	0.42	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Trichlorofluoromethane	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Vinyl chloride	ND		1.7	0.84	ug/Kg		12/19/18 20:00	12/22/18 13:50	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/19/18 20:00	12/22/18 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*	*12/19/18 20:00*	*12/22/18 13:50*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*	*12/19/18 20:00*	*12/22/18 13:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Benzo[a]pyrene	**3.5**	**J**	5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Benzo[b]fluoranthene	**4.1**	**J B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Benzo[k]fluoranthene	**2.1**	**J**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Chrysene	**1.5**	**J**	5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Fluoranthene	**2.4**	**J**	5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 13:45	1
Pyrene	**4.5**	**J**	5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 13:45	1

Client Sample ID: DG-AQ3S-0.5-1

Date Collected: 12/19/18 15:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*12/26/18 13:22*	*12/29/18 13:45*	*1*
Terphenyl-d14	*87*		*35 - 146*	*12/26/18 13:22*	*12/29/18 13:45*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.0**		2.0	0.75	mg/Kg		12/20/18 14:43	12/24/18 14:12	1
Motor Oil Range Organics [C24-C36]	**11**	**J**	50	10	mg/Kg		12/20/18 14:43	12/24/18 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*84*		*40 - 130*	*12/20/18 14:43*	*12/24/18 14:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Endrin	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:50	12/24/18 17:38	1
Toxaphene	ND		39	6.7	ug/Kg		12/21/18 09:50	12/24/18 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*21 - 136*	*12/21/18 09:50*	*12/24/18 17:38*	*1*
Tetrachloro-m-xylene	*91*		*21 - 145*	*12/21/18 09:50*	*12/24/18 17:38*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:38	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:38	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:38	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:38	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:38	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:38	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:38	1

Client Sample ID: DG-AQ3S-0.5-1

Date Collected: 12/19/18 15:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*12/22/18 08:18*	*12/26/18 21:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.22	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Arsenic	**0.60**	**J**	2.7	0.23	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Barium	**23**		1.4	0.19	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Beryllium	**0.29**		0.27	0.088	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Cadmium	**0.038**	**J**	0.34	0.034	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Chromium	**5.1**		1.4	0.14	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Cobalt	**7.0**		0.54	0.054	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Copper	**150**		4.1	1.9	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Lead	**2.7**		1.4	0.28	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Molybdenum	**0.33**	**J**	1.4	0.17	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Nickel	**3.6**		1.4	0.14	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Selenium	**1.2**	**J**	2.7	0.41	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Silver	ND		0.68	0.14	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Thallium	ND		1.4	0.39	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Vanadium	**62**		1.4	0.18	mg/Kg		12/22/18 10:25	12/31/18 11:06	4
Zinc	**22**		4.1	1.7	mg/Kg		12/22/18 10:25	12/31/18 11:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.045**		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.2**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-AQ3S-3.5-4

Date Collected: 12/19/18 15:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-17

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		12/19/18 20:00	12/22/18 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*60 - 120*	*12/19/18 20:00*	*12/22/18 14:18*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*12/19/18 20:00*	*12/22/18 14:18*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/19/18 20:00*	*12/22/18 14:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
2-Hexanone	ND		7.4	3.7	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Benzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Bromobenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Bromoform	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Bromomethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Chloroethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Chloroform	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Chloromethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1

Client Sample ID: DG-AQ3S-3.5-4
Date Collected: 12/19/18 15:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-17
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Dibromomethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Naphthalene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Styrene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Toluene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Trichloroethene	ND		0.74	0.37	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:18	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		12/19/18 20:00	12/22/18 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*	*12/19/18 20:00*	*12/22/18 14:18*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/19/18 20:00*	*12/22/18 14:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.6**	**J**	10	5.0	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Acenaphthene	**6.3**		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Anthracene	**16**		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Benzo[a]anthracene	**30**		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Benzo[a]pyrene	**24**		5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Benzo[b]fluoranthene	**54**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Benzo[g,h,i]perylene	**18**		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Benzo[k]fluoranthene	**11**		5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Chrysene	**54**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Dibenz(a,h)anthracene	**10**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Fluoranthene	**58**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Fluorene	**5.8**		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Indeno[1,2,3-cd]pyrene	**14**		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Naphthalene	**5.2**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Phenanthrene	**79**		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 14:09	1
Pyrene	**80**		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 14:09	1

Client Sample ID: DG-AQ3S-3.5-4

Date Collected: 12/19/18 15:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*33 - 120*	*12/26/18 13:22*	*12/29/18 14:09*	*1*
Terphenyl-d14	*84*		*35 - 146*	*12/26/18 13:22*	*12/29/18 14:09*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.5**		2.0	0.75	mg/Kg		12/20/18 14:43	12/24/18 14:36	1
Motor Oil Range Organics [C24-C36]	**15**	**J**	50	10	mg/Kg		12/20/18 14:43	12/24/18 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*94*		*40 - 130*	*12/20/18 14:43*	*12/24/18 14:36*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Endrin	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:50	12/24/18 17:56	1
Toxaphene	ND		39	6.7	ug/Kg		12/21/18 09:50	12/24/18 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*21 - 136*	*12/21/18 09:50*	*12/24/18 17:56*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*12/21/18 09:50*	*12/24/18 17:56*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:51	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:51	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:51	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:51	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:51	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:51	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 21:51	1

Client Sample ID: DG-AQ3S-3.5-4

Date Collected: 12/19/18 15:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*45 - 120*	*12/22/18 08:18*	*12/26/18 21:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.88**	**J**	1.2	0.21	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Arsenic	**52**		2.5	0.21	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Barium	**130**		1.2	0.18	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Beryllium	**0.089**	**J**	0.25	0.081	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Cadmium	**0.25**	**J**	0.31	0.031	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Chromium	**23**		1.2	0.13	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Cobalt	**12**		0.50	0.050	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Copper	**39**		3.7	1.8	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Lead	**45**		1.2	0.26	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Molybdenum	**0.58**	**J**	1.2	0.16	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Nickel	**37**		1.2	0.13	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Selenium	**0.68**	**J**	2.5	0.37	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Silver	ND		0.62	0.13	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Thallium	ND		1.2	0.36	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Vanadium	**25**		1.2	0.17	mg/Kg		12/22/18 10:25	12/31/18 11:11	4
Zinc	**82**		3.7	1.6	mg/Kg		12/22/18 10:25	12/31/18 11:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.4**		0.1	0.05	%			12/21/18 15:38	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Client Sample ID: TB-121918
Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-18
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*12/29/18 16:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*12/29/18 16:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 16:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Acetone	ND		20	10	ug/L			12/29/18 16:11	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 16:11	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 16:11	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 16:11	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 16:11	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 16:11	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 16:11	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 16:11	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 16:11	1

Client Sample ID: TB-121918
Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 16:11	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 16:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 16:11	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 16:11	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 16:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 16:11	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 16:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 16:11	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 16:11	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 16:11	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*12/29/18 16:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*12/29/18 16:11*	*1*

Client Sample ID: DG-N4S-8.5-9
Date Collected: 12/19/18 11:19
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-19
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	700		57	40	ug/Kg		12/19/18 20:00	12/22/18 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*60 - 120*	*12/19/18 20:00*	*12/22/18 14:47*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*12/19/18 20:00*	*12/22/18 14:47*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*12/19/18 20:00*	*12/22/18 14:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,1,1-Trichloroethane	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7	2.9	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,1,2-Trichloroethane	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,1-Dichloroethane	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,1-Dichloroethene	ND		1.1	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,1-Dichloropropene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,2,3-Trichlorobenzene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,2,3-Trichloropropane	ND		5.7	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,2,4-Trichlorobenzene	ND		2.9	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,2,4-Trimethylbenzene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,2-Dibromo-3-Chloropropane	ND		2.9	1.1	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,2-Dichlorobenzene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,2-Dichloroethane	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,2-Dichloropropane	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,3,5-Trimethylbenzene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,3-Dichlorobenzene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,3-Dichloropropane	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
1,4-Dichlorobenzene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
2,2-Dichloropropane	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
2-Butanone (MEK)	ND		5.7	2.9	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
2-Chlorotoluene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
2-Hexanone	ND		5.7	2.9	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
4-Chlorotoluene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
4-Isopropyltoluene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.9	1.4	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Benzene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Bromobenzene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Bromoform	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Bromomethane	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Carbon disulfide	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Carbon tetrachloride	ND		1.1	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Chlorobenzene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Chlorobromomethane	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Chlorodibromomethane	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Chloroethane	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Chloroform	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Chloromethane	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
cis-1,2-Dichloroethene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1

Client Sample ID: DG-N4S-8.5-9

Date Collected: 12/19/18 11:19
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-19

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Dibromomethane	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Dichlorobromomethane	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Dichlorodifluoromethane	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Ethylbenzene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Ethylene Dibromide	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Hexachlorobutadiene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Isopropylbenzene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Methyl tert-butyl ether	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Methylene Chloride	ND		5.7	2.9	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Naphthalene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
n-Butylbenzene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
N-Propylbenzene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
sec-Butylbenzene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Styrene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
tert-Butylbenzene	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Tetrachloroethene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Toluene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
trans-1,2-Dichloroethene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
trans-1,3-Dichloropropene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Trichloroethene	ND		0.57	0.29	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Trichlorofluoromethane	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Vinyl acetate	ND		4.6	2.3	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Vinyl chloride	ND		1.1	0.57	ug/Kg		12/19/18 20:00	12/22/18 14:47	1
Xylenes, Total	ND		1.1	0.74	ug/Kg		12/19/18 20:00	12/22/18 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*	*12/19/18 20:00*	*12/22/18 14:47*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*12/19/18 20:00*	*12/22/18 14:47*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Anthracene	**3.4**	**J**	5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Benzo[a]anthracene	**2.8**	**J**	5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Benzo[a]pyrene	**4.3**	**J**	5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Benzo[b]fluoranthene	**18**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Benzo[g,h,i]perylene	**4.8**	**J**	5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Benzo[k]fluoranthene	**3.1**	**J**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Chrysene	**11**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Fluoranthene	**9.1**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Fluorene	**3.6**	**J**	5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Naphthalene	**4.3**	**J**	5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Phenanthrene	**15**		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 14:32	1
Pyrene	**11**		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 14:32	1

Client Sample ID: DG-N4S-8.5-9

Date Collected: 12/19/18 11:19
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*33 - 120*	*12/26/18 13:22*	*12/29/18 14:32*	*1*
Terphenyl-d14	*77*		*35 - 146*	*12/26/18 13:22*	*12/29/18 14:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	29		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 21:40	1
Motor Oil Range Organics [C24-C36]	40	J	50	10	mg/Kg		12/26/18 10:01	12/27/18 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*12/26/18 10:01*	*12/27/18 21:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-N4S-4.5-5

Date Collected: 12/19/18 10:54
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	39000		7000	4900	ug/Kg		12/21/18 16:44	12/29/18 12:20	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*	*12/21/18 16:44*	*12/29/18 12:20*	*100*
4-Bromofluorobenzene (Surr)	*101*		*65 - 140*	*12/21/18 16:44*	*12/29/18 12:20*	*100*
Toluene-d8 (Surr)	*112*		*60 - 140*	*12/21/18 16:44*	*12/29/18 12:20*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		350	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,1,1,2-Tetrachloroethane	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,1,1-Trichloroethane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,1,2,2-Tetrachloroethane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,1,2-Trichloroethane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,1-Dichloroethane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,1-Dichloroethene	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,1-Dichloropropene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,2,3-Trichlorobenzene	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,2,4-Trichlorobenzene	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,2,4-Trimethylbenzene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,2-Dibromo-3-Chloropropane	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,2-Dichlorobenzene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,2-Dichloroethane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,2-Dichloropropane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,3,5-Trimethylbenzene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,3-Dichlorobenzene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,3-Dichloropropane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,4-Dichlorobenzene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
2,2-Dichloropropane	ND		140	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
2-Chlorotoluene	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
2-Hexanone	ND		870	350	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
4-Chlorotoluene	ND		170	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
4-Isopropyltoluene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Benzene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Bromobenzene	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Bromoform	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Bromomethane	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Carbon disulfide	ND		170	87	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Carbon tetrachloride	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Chlorobenzene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Chlorobromomethane	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Chloroethane	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Chloroform	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Chloromethane	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
cis-1,2-Dichloroethene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
cis-1,3-Dichloropropene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Chlorodibromomethane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Dibromomethane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Dichlorobromomethane	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100

Client Sample ID: DG-N4S-4.5-5
Date Collected: 12/19/18 10:54
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Ethylbenzene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Hexachlorobutadiene	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Isopropylbenzene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Methylene Chloride	ND		700	350	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Methyl tert-butyl ether	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Naphthalene	**84**	**J**	170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
n-Butylbenzene	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
N-Propylbenzene	**35**	**J**	70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
sec-Butylbenzene	ND		170	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Styrene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
tert-Butylbenzene	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Tetrachloroethene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Toluene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
trans-1,2-Dichloroethene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
trans-1,3-Dichloropropene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Trichloroethene	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Trichlorofluoromethane	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		350	140	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Vinyl acetate	ND		350	170	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Vinyl chloride	ND		170	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Xylenes, Total	ND		140	70	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
Ethylene Dibromide	ND		70	35	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
2-Butanone (MEK)	ND		700	350	ug/Kg		12/21/18 16:44	12/22/18 12:08	100
4-Methyl-2-pentanone (MIBK)	ND		350	140	ug/Kg		12/21/18 16:44	12/22/18 12:08	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*60 - 140*	*12/21/18 16:44*	*12/22/18 12:08*	*100*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*12/21/18 16:44*	*12/22/18 12:08*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**740**		10	5.0	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Acenaphthene	**250**		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Acenaphthylene	**73**		5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Anthracene	**200**		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Benzo[a]anthracene	**10**		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Benzo[a]pyrene	**7.4**		5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Benzo[b]fluoranthene	**57**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Benzo[g,h,i]perylene	**10**		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Benzo[k]fluoranthene	**5.7**		5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Chrysene	**55**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Dibenz(a,h)anthracene	**6.2**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Fluoranthene	**44**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Fluorene	**330**		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Indeno[1,2,3-cd]pyrene	**7.5**		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Naphthalene	**280**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Phenanthrene	**720**		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 14:56	1
Pyrene	**69**		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 14:56	1

Client Sample ID: DG-N4S-4.5-5

Date Collected: 12/19/18 10:54
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*33 - 120*	*12/26/18 13:22*	*12/29/18 14:56*	*1*
Terphenyl-d14	*85*		*35 - 146*	*12/26/18 13:22*	*12/29/18 14:56*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2800**		40	15	mg/Kg		12/26/18 10:01	12/27/18 20:22	20
Motor Oil Range Organics [C24-C36]	ND		990	200	mg/Kg		12/26/18 10:01	12/27/18 20:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/26/18 10:01*	*12/27/18 20:22*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.0**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-P4S-4.5-5

Date Collected: 12/19/18 09:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-21

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	260000		54000	38000	ug/Kg		12/21/18 16:44	12/29/18 12:49	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*55 - 140*	*12/21/18 16:44*	*12/29/18 12:49*	*500*
4-Bromofluorobenzene (Surr)	*102*		*65 - 140*	*12/21/18 16:44*	*12/29/18 12:49*	*500*
Toluene-d8 (Surr)	*114*		*60 - 140*	*12/21/18 16:44*	*12/29/18 12:49*	*500*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		2700	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,1,1,2-Tetrachloroethane	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,1,1-Trichloroethane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,1,2,2-Tetrachloroethane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,1,2-Trichloroethane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,1-Dichloroethane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,1-Dichloroethene	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,1-Dichloropropene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,2,3-Trichlorobenzene	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,2,4-Trichlorobenzene	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,2,4-Trimethylbenzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,2-Dibromo-3-Chloropropane	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,2-Dichlorobenzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,2-Dichloroethane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,2-Dichloropropane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,3,5-Trimethylbenzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,3-Dichlorobenzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,3-Dichloropropane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,4-Dichlorobenzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
2,2-Dichloropropane	ND		1100	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
2-Chlorotoluene	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
2-Hexanone	ND		6800	2700	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
4-Chlorotoluene	ND		1400	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
4-Isopropyltoluene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Benzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Bromobenzene	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Bromoform	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Bromomethane	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Carbon disulfide	ND		1400	680	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Carbon tetrachloride	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Chlorobenzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Chlorobromomethane	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Chloroethane	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Chloroform	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Chloromethane	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
cis-1,2-Dichloroethene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
cis-1,3-Dichloropropene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Chlorodibromomethane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Dibromomethane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Dichlorobromomethane	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500

Client Sample ID: DG-P4S-4.5-5
Date Collected: 12/19/18 09:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-21
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Ethylbenzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Hexachlorobutadiene	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Isopropylbenzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Methylene Chloride	ND		5400	2700	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Methyl tert-butyl ether	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Naphthalene	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
n-Butylbenzene	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
N-Propylbenzene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
sec-Butylbenzene	ND		1400	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Styrene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
tert-Butylbenzene	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Tetrachloroethene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Toluene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
trans-1,2-Dichloroethene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
trans-1,3-Dichloropropene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Trichloroethene	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Trichlorofluoromethane	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2700	1100	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Vinyl acetate	ND		2700	1400	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Vinyl chloride	ND		1400	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Xylenes, Total	ND		1100	540	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
Ethylene Dibromide	ND		540	270	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
2-Butanone (MEK)	ND		5400	2700	ug/Kg		12/21/18 16:44	12/22/18 12:32	500
4-Methyl-2-pentanone (MIBK)	ND		2700	1100	ug/Kg		12/21/18 16:44	12/22/18 12:32	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*60 - 140*	*12/21/18 16:44*	*12/22/18 12:32*	*500*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*12/21/18 16:44*	*12/22/18 12:32*	*500*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**730**		100	50	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Acenaphthene	**240**		50	28	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Acenaphthylene	**110**		50	24	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Anthracene	**230**		50	20	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Benzo[a]anthracene	**27**	**J**	50	15	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Benzo[a]pyrene	**36**	**J**	50	19	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Benzo[b]fluoranthene	**80**	**B**	50	21	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Benzo[g,h,i]perylene	ND		50	43	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Benzo[k]fluoranthene	**25**	**J**	50	21	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Chrysene	**72**		50	14	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Dibenz(a,h)anthracene	ND		50	35	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Fluoranthene	**84**		50	14	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Fluorene	**360**		50	22	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Indeno[1,2,3-cd]pyrene	ND		50	42	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Naphthalene	**520**		50	35	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Phenanthrene	**270**		50	18	ug/Kg		12/26/18 13:22	12/31/18 17:03	10
Pyrene	**140**		50	17	ug/Kg		12/26/18 13:22	12/31/18 17:03	10

Client Sample ID: DG-P4S-4.5-5

Date Collected: 12/19/18 09:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*33 - 120*	*12/26/18 13:22*	*12/31/18 17:03*	*10*
Terphenyl-d14	*89*		*35 - 146*	*12/26/18 13:22*	*12/31/18 17:03*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3600**		40	15	mg/Kg		12/26/18 10:01	12/27/18 21:36	20
Motor Oil Range Organics [C24-C36]	ND		1000	200	mg/Kg		12/26/18 10:01	12/27/18 21:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/26/18 10:01*	*12/27/18 21:36*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.05	%			12/21/18 15:38	1

Client Sample ID: DG-O4S-4.5-5

Date Collected: 12/19/18 10:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-22

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	210000		41000	29000	ug/Kg		12/21/18 16:44	12/29/18 13:17	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*	*12/21/18 16:44*	*12/29/18 13:17*	*500*
4-Bromofluorobenzene (Surr)	*102*		*65 - 140*	*12/21/18 16:44*	*12/29/18 13:17*	*500*
Toluene-d8 (Surr)	*114*		*60 - 140*	*12/21/18 16:44*	*12/29/18 13:17*	*500*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		2100	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,1,1,2-Tetrachloroethane	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,1,1-Trichloroethane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,1,2,2-Tetrachloroethane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,1,2-Trichloroethane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,1-Dichloroethane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,1-Dichloroethene	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,1-Dichloropropene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,2,3-Trichlorobenzene	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,2,4-Trichlorobenzene	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,2,4-Trimethylbenzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,2-Dibromo-3-Chloropropane	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,2-Dichlorobenzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,2-Dichloroethane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,2-Dichloropropane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,3,5-Trimethylbenzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,3-Dichlorobenzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,3-Dichloropropane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,4-Dichlorobenzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
2,2-Dichloropropane	ND		830	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
2-Chlorotoluene	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
2-Hexanone	ND		5200	2100	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
4-Chlorotoluene	ND		1000	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
4-Isopropyltoluene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Benzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Bromobenzene	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Bromoform	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Bromomethane	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Carbon disulfide	ND		1000	520	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Carbon tetrachloride	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Chlorobenzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Chlorobromomethane	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Chloroethane	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Chloroform	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Chloromethane	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
cis-1,2-Dichloroethene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
cis-1,3-Dichloropropene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Chlorodibromomethane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Dibromomethane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Dichlorobromomethane	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500

Client Sample ID: DG-O4S-4.5-5
Date Collected: 12/19/18 10:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-22
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Ethylbenzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Hexachlorobutadiene	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Isopropylbenzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Methylene Chloride	ND		4100	2100	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Methyl tert-butyl ether	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Naphthalene	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
n-Butylbenzene	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
N-Propylbenzene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
sec-Butylbenzene	ND		1000	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Styrene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
tert-Butylbenzene	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Tetrachloroethene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Toluene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
trans-1,2-Dichloroethene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
trans-1,3-Dichloropropene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Trichloroethene	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Trichlorofluoromethane	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2100	830	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Vinyl acetate	ND		2100	1000	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Vinyl chloride	ND		1000	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Xylenes, Total	ND		830	410	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
Ethylene Dibromide	ND		410	210	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
2-Butanone (MEK)	ND		4100	2100	ug/Kg		12/21/18 16:44	12/22/18 12:56	500
4-Methyl-2-pentanone (MIBK)	ND		2100	830	ug/Kg		12/21/18 16:44	12/22/18 12:56	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*60 - 140*	*12/21/18 16:44*	*12/22/18 12:56*	*500*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*12/21/18 16:44*	*12/22/18 12:56*	*500*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**130**		50	25	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Acenaphthene	**220**		25	14	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Acenaphthylene	**52**		25	12	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Anthracene	**110**		25	10	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Benzo[a]anthracene	**8.8**	**J**	25	7.5	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Benzo[a]pyrene	**14**	**J**	25	9.5	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Benzo[b]fluoranthene	**19**	**J B**	25	10	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Benzo[g,h,i]perylene	ND		25	21	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Benzo[k]fluoranthene	**10**	**J**	25	10	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Chrysene	**13**	**J**	25	7.0	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Dibenz(a,h)anthracene	ND		25	17	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Fluoranthene	**31**		25	7.0	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Fluorene	**250**		25	11	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Indeno[1,2,3-cd]pyrene	ND		25	21	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Naphthalene	**97**		25	17	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Phenanthrene	**210**		25	9.0	ug/Kg		12/26/18 13:22	01/02/19 11:43	5
Pyrene	**63**		25	8.5	ug/Kg		12/26/18 13:22	01/02/19 11:43	5

Client Sample ID: DG-O4S-4.5-5
Date Collected: 12/19/18 10:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-22
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*33 - 120*	*12/26/18 13:22*	*01/02/19 11:43*	*5*
Terphenyl-d14	*84*		*35 - 146*	*12/26/18 13:22*	*01/02/19 11:43*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2000**		20	7.5	mg/Kg		12/26/18 10:01	12/27/18 21:11	10
Motor Oil Range Organics [C24-C36]	ND		500	99	mg/Kg		12/26/18 10:01	12/27/18 21:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/26/18 10:01*	*12/27/18 21:11*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.8**		0.1	0.05	%			12/21/18 16:09	1

Client Sample ID: DG-P4S-7.5-8

Date Collected: 12/19/18 10:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-23

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	20000		7300	5100	ug/Kg		12/21/18 16:44	01/02/19 22:05	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*55 - 140*	*12/21/18 16:44*	*01/02/19 22:05*	*100*
4-Bromofluorobenzene (Surr)	*102*		*65 - 140*	*12/21/18 16:44*	*01/02/19 22:05*	*100*
Toluene-d8 (Surr)	*113*		*60 - 140*	*12/21/18 16:44*	*01/02/19 22:05*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		370	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,1,1,2-Tetrachloroethane	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,1,1-Trichloroethane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,1,2,2-Tetrachloroethane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,1,2-Trichloroethane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,1-Dichloroethane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,1-Dichloroethene	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,1-Dichloropropene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,2,3-Trichlorobenzene	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,2,4-Trichlorobenzene	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,2,4-Trimethylbenzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,2-Dibromo-3-Chloropropane	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,2-Dichlorobenzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,2-Dichloroethane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,2-Dichloropropane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,3,5-Trimethylbenzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,3-Dichlorobenzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,3-Dichloropropane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,4-Dichlorobenzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
2,2-Dichloropropane	ND		150	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
2-Chlorotoluene	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
2-Hexanone	ND		910	370	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
4-Chlorotoluene	ND		180	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
4-Isopropyltoluene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Benzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Bromobenzene	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Bromoform	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Bromomethane	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Carbon disulfide	ND		180	91	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Carbon tetrachloride	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Chlorobenzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Chlorobromomethane	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Chloroethane	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Chloroform	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Chloromethane	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
cis-1,2-Dichloroethene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
cis-1,3-Dichloropropene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Chlorodibromomethane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Dibromomethane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Dichlorobromomethane	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100

Client Sample ID: DG-P4S-7.5-8

Date Collected: 12/19/18 10:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-23

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Ethylbenzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Hexachlorobutadiene	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Isopropylbenzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Methylene Chloride	ND		730	370	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Methyl tert-butyl ether	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Naphthalene	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
n-Butylbenzene	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
N-Propylbenzene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
sec-Butylbenzene	ND		180	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Styrene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
tert-Butylbenzene	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Tetrachloroethene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Toluene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
trans-1,2-Dichloroethene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
trans-1,3-Dichloropropene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Trichloroethene	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Trichlorofluoromethane	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		370	150	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Vinyl acetate	ND		370	180	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Vinyl chloride	ND		180	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Xylenes, Total	ND		150	73	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
Ethylene Dibromide	ND		73	37	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
2-Butanone (MEK)	ND		730	370	ug/Kg		12/21/18 16:44	12/22/18 13:20	100
4-Methyl-2-pentanone (MIBK)	ND		370	150	ug/Kg		12/21/18 16:44	12/22/18 13:20	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*60 - 140*	*12/21/18 16:44*	*12/22/18 13:20*	*100*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*	*12/21/18 16:44*	*12/22/18 13:20*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**11**		10	5.0	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Acenaphthene	**5.0**		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Acenaphthylene	**2.8**	**J**	5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Anthracene	**6.0**		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Benzo[a]anthracene	**2.5**	**J**	5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Benzo[a]pyrene	**4.3**	**J**	5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Benzo[b]fluoranthene	**31**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Benzo[g,h,i]perylene	**6.1**		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Benzo[k]fluoranthene	**3.2**	**J**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Chrysene	**36**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Dibenz(a,h)anthracene	**4.7**	**J**	5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Fluoranthene	**12**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Fluorene	**6.7**		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Naphthalene	**23**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Phenanthrene	**83**		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 16:06	1
Pyrene	**12**		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 16:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Client Sample ID: DG-P4S-7.5-8
Date Collected: 12/19/18 10:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-23
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*12/26/18 13:22*	*12/29/18 16:06*	*1*
Terphenyl-d14	*82*		*35 - 146*	*12/26/18 13:22*	*12/29/18 16:06*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	54		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 22:24	1
Motor Oil Range Organics [C24-C36]	15	J	50	10	mg/Kg		12/26/18 10:01	12/27/18 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*112*		*40 - 130*	*12/26/18 10:01*	*12/27/18 22:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.05	%			12/21/18 16:09	1

Client Sample ID: DG-O4S-9.5-10

Date Collected: 12/19/18 11:11
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-24

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	7.7	J	9.9	5.0	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Acenaphthene	14		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Acenaphthylene	3.8	J	5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Anthracene	8.1		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Benzo[a]anthracene	2.8	J	5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Benzo[a]pyrene	5.1		5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Benzo[b]fluoranthene	21	B	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Benzo[g,h,i]perylene	5.6		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Benzo[k]fluoranthene	2.8	J	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Chrysene	9.1		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Fluoranthene	7.9		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Fluorene	16		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Naphthalene	11		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Phenanthrene	21		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 16:29	1
Pyrene	12		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*12/26/18 13:22*	*12/29/18 16:29*	*1*
Terphenyl-d14	*81*		*35 - 146*	*12/26/18 13:22*	*12/29/18 16:29*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	130		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 22:48	1
Motor Oil Range Organics [C24-C36]	21	J	50	9.9	mg/Kg		12/26/18 10:01	12/27/18 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*114*		*40 - 130*	*12/26/18 10:01*	*12/27/18 22:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.1	0.05	%			12/21/18 16:09	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(79-123)
440-228365-A-1 MS	Matrix Spike	117	100
440-228365-A-1 MS	Matrix Spike	100	109
440-228365-A-1 MSD	Matrix Spike Duplicate	112	100
440-228365-A-1 MSD	Matrix Spike Duplicate	109	107
720-90446-1	DG-AC3S-0.5-1	105	108
720-90446-1 MS	DG-AC3S-0.5-1	104	107
720-90446-1 MSD	DG-AC3S-0.5-1	100	102
720-90446-2	DG-AC3S-3.5-4	104	108
720-90446-3	DG-AE3S-0.5-1	105	108
720-90446-4	DG-AE3S-3.5-4	103	107
720-90446-5	DG-AG3S-0.5-1	105	109
720-90446-7	DG-AI3S-0.5-1	116	115
720-90446-7 MS	DG-AI3S-0.5-1	121	104
720-90446-7 MSD	DG-AI3S-0.5-1	117	103
720-90446-8	DG-AI3S-3.5-4	106	112
720-90446-9	DG-AK3S-0.5-1	119	122
720-90446-10	DG-AK3S-3.5-4	104	108
720-90446-11	DUP-17	114	121
720-90446-12	DG-AM3S-0.5-1	107	107
720-90446-13	DG-AM3S-3.5-4	114	111
720-90446-14	DG-AO3S-0.5-1	117	106
720-90446-15	DG-AO3S-3.5-4	112	115
720-90446-15 - RA	DG-AO3S-3.5-4	121	116
720-90446-16	DG-AQ3S-0.5-1	115	114
720-90446-17	DG-AQ3S-3.5-4	116	117
720-90446-19	DG-N4S-8.5-9	118	110
LCS 440-518870/5	Lab Control Sample	102	97
LCS 440-518877/5	Lab Control Sample	120	105
LCS 440-518903/5	Lab Control Sample	111	100
LCS 440-519008/5	Lab Control Sample	109	107
MB 440-518870/4	Method Blank	100	107
MB 440-518877/4	Method Blank	110	118
MB 440-518903/4	Method Blank	107	108
MB 440-519008/4	Method Blank	100	115

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)
720-90446-20	DG-N4S-4.5-5	98	104
720-90446-21	DG-P4S-4.5-5	98	106
720-90446-22	DG-O4S-4.5-5	97	102
720-90446-23	DG-P4S-7.5-8	101	96

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)
LCS 440-518867/5	Lab Control Sample	93	121
LCSD 440-518867/6	Lab Control Sample Dup	91	121
MB 440-518867/4	Method Blank	99	118

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
720-90445-B-8 MS	Matrix Spike	106	99
720-90445-B-8 MSD	Matrix Spike Duplicate	105	97
720-90446-18	TB-121918	119	98
LCS 440-519967/5	Lab Control Sample	100	100
MB 440-519967/4	Method Blank	100	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
440-228365-A-1 MS	Matrix Spike	3 X	109	100
440-228365-A-1 MS	Matrix Spike	7 X	104	109
440-228365-A-1 MSD	Matrix Spike Duplicate	1 X	110	100
440-228365-A-1 MSD	Matrix Spike Duplicate	3 X	100	107
720-90446-1	DG-AC3S-0.5-1	105	111	108
720-90446-1 MS	DG-AC3S-0.5-1	109	104	107
720-90446-1 MSD	DG-AC3S-0.5-1	104	108	102
720-90446-2	DG-AC3S-3.5-4	106	108	108
720-90446-3	DG-AE3S-0.5-1	106	110	108
720-90446-4	DG-AE3S-3.5-4	106	106	107
720-90446-5	DG-AG3S-0.5-1	107	111	109
720-90446-7	DG-AI3S-0.5-1	110	109	115
720-90446-7 MS	DG-AI3S-0.5-1	112	103	104
720-90446-7 MSD	DG-AI3S-0.5-1	109	103	103
720-90446-8	DG-AI3S-3.5-4	105	120	112
720-90446-9	DG-AK3S-0.5-1	118	117	122
720-90446-10	DG-AK3S-3.5-4	93	105	108
720-90446-11	DUP-17	110	115	121
720-90446-12	DG-AM3S-0.5-1	96	119	107
720-90446-13	DG-AM3S-3.5-4	108	117	111

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-90446-14	DG-AO3S-0.5-1	108	112	106
720-90446-15	DG-AO3S-3.5-4	107	108	115
720-90446-16	DG-AQ3S-0.5-1	111	109	114
720-90446-17	DG-AQ3S-3.5-4	115	114	117
720-90446-19	DG-N4S-8.5-9	114	103	110
LCS 440-518871/6	Lab Control Sample	105	104	105
LCS 440-518878/6	Lab Control Sample	110	111	115
LCS 440-518904/6	Lab Control Sample	106	108	107
LCS 440-519009/6	Lab Control Sample	104	103	114
MB 440-518871/4	Method Blank	104	101	107
MB 440-518878/4	Method Blank	106	113	118
MB 440-518904/4	Method Blank	103	107	108
MB 440-519009/4	Method Blank	102	109	115

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
720-90446-20	DG-N4S-4.5-5	104	101	112
720-90446-21	DG-P4S-4.5-5	101	102	114
720-90446-22	DG-O4S-4.5-5	104	102	114
720-90446-23	DG-P4S-7.5-8	109	102	113
LCS 440-519974/7	Lab Control Sample	101	105	113
LCS 440-520436/10	Lab Control Sample	102	106	113
LCSD 440-519974/8	Lab Control Sample Dup	104	104	112
LCSD 440-520436/11	Lab Control Sample Dup	102	106	115
MB 440-519974/4	Method Blank	103	105	116
MB 440-520436/5	Method Blank	104	106	113

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
720-90445-B-8 MS	Matrix Spike	104	105	99
720-90445-B-8 MSD	Matrix Spike Duplicate	105	102	97
720-90446-18	TB-121918	116	102	98

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
LCS 440-519968/6	Lab Control Sample	103	103	100
MB 440-519968/4	Method Blank	103	101	99

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-90446-1	DG-AC3S-0.5-1	73	105
720-90446-1 MS	DG-AC3S-0.5-1	69	104
720-90446-1 MSD	DG-AC3S-0.5-1	69	107
720-90446-2	DG-AC3S-3.5-4	76	94
720-90446-3	DG-AE3S-0.5-1	77	96
720-90446-4	DG-AE3S-3.5-4	74	96
720-90446-5	DG-AG3S-0.5-1	75	93
720-90446-6	DG-AG3S-3.5-4	76	102
720-90446-7	DG-AI3S-0.5-1	67	88
720-90446-7 MS	DG-AI3S-0.5-1	66	90
720-90446-7 MSD	DG-AI3S-0.5-1	68	91
720-90446-8	DG-AI3S-3.5-4	64	86
720-90446-9	DG-AK3S-0.5-1	68	90
720-90446-10	DG-AK3S-3.5-4	44	67
720-90446-11	DUP-17	62	87
720-90446-12	DG-AM3S-0.5-1	72	96
720-90446-13	DG-AM3S-3.5-4	61	87
720-90446-14	DG-AO3S-0.5-1	63	90
720-90446-15	DG-AO3S-3.5-4	64	83
720-90446-16	DG-AQ3S-0.5-1	67	87
720-90446-17	DG-AQ3S-3.5-4	65	84
720-90446-19	DG-N4S-8.5-9	62	77
720-90446-20	DG-N4S-4.5-5	61	85
720-90446-21	DG-P4S-4.5-5	70	89
720-90446-22	DG-O4S-4.5-5	64	84
720-90446-23	DG-P4S-7.5-8	63	82
720-90446-24	DG-O4S-9.5-10	63	81
720-90529-A-1-D MS	Matrix Spike	57	82
720-90529-A-1-E MSD	Matrix Spike Duplicate	56	83
LCS 720-257608/2-A	Lab Control Sample	70	92
LCS 720-257611/2-A	Lab Control Sample	66	89
LCS 720-257713/2-A	Lab Control Sample	60	88
MB 720-257608/1-A	Method Blank	75	94
MB 720-257611/1-A	Method Blank	73	90
MB 720-257713/1-A	Method Blank	63	89

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-90446-1	DG-AC3S-0.5-1	85
720-90446-1 MS	DG-AC3S-0.5-1	78
720-90446-1 MSD	DG-AC3S-0.5-1	77
720-90446-2	DG-AC3S-3.5-4	99
720-90446-3	DG-AE3S-0.5-1	99
720-90446-4	DG-AE3S-3.5-4	105
720-90446-5	DG-AG3S-0.5-1	114
720-90446-6	DG-AG3S-3.5-4	87
720-90446-7	DG-AI3S-0.5-1	88
720-90446-7 MS	DG-AI3S-0.5-1	109
720-90446-7 MSD	DG-AI3S-0.5-1	86
720-90446-8	DG-AI3S-3.5-4	100
720-90446-9	DG-AK3S-0.5-1	84
720-90446-10	DG-AK3S-3.5-4	78
720-90446-11	DUP-17	69
720-90446-12	DG-AM3S-0.5-1	0 X D
720-90446-13	DG-AM3S-3.5-4	69
720-90446-14	DG-AO3S-0.5-1	67
720-90446-15	DG-AO3S-3.5-4	62
720-90446-16	DG-AQ3S-0.5-1	84
720-90446-17	DG-AQ3S-3.5-4	94
720-90446-19	DG-N4S-8.5-9	90
720-90446-20	DG-N4S-4.5-5	0 X D
720-90446-21	DG-P4S-4.5-5	0 X D
720-90446-22	DG-O4S-4.5-5	0 X D
720-90446-23	DG-P4S-7.5-8	112
720-90446-24	DG-O4S-9.5-10	114
LCS 720-257368/2-A	Lab Control Sample	95
LCS 720-257590/2-A	Lab Control Sample	112
MB 720-257368/1-A	Method Blank	87
MB 720-257590/1-A	Method Blank	94

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX2 (21-145)
720-90446-1 MS	DG-AC3S-0.5-1	116	87
LCS 720-257428/2-A	Lab Control Sample	111	95

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90446-11	DUP-17	95	85
720-90446-12	DG-AM3S-0.5-1	92	76
720-90446-14	DG-AO3S-0.5-1	95	88
720-90446-15	DG-AO3S-3.5-4	77	85
LCS 720-257432/2-A	Lab Control Sample	109	85

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90446-13	DG-AM3S-3.5-4	104	82
720-90470-A-1-D MS	Matrix Spike	51 p	66
720-90470-A-1-E MSD	Matrix Spike Duplicate	64 p	70
MB 720-257428/1-A	Method Blank	101	85
MB 720-257432/1-A	Method Blank	104	85

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90446-1	DG-AC3S-0.5-1	111	94
720-90446-1 MSD	DG-AC3S-0.5-1	98	76
720-90446-2	DG-AC3S-3.5-4	90	96 p
720-90446-3	DG-AE3S-0.5-1	88	89
720-90446-4	DG-AE3S-3.5-4	109	93
720-90446-5	DG-AG3S-0.5-1	114	97
720-90446-6	DG-AG3S-3.5-4	96	86
720-90446-7	DG-AI3S-0.5-1	97	88
720-90446-7 MS	DG-AI3S-0.5-1	109	93
720-90446-7 MSD	DG-AI3S-0.5-1	103	87
720-90446-8	DG-AI3S-3.5-4	86	82
720-90446-9	DG-AK3S-0.5-1	90	85
720-90446-10	DG-AK3S-3.5-4	93	78
720-90446-16	DG-AQ3S-0.5-1	97	91
720-90446-17	DG-AQ3S-3.5-4	98	87

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**DCB2 (45-120)**
720-90446-1	DG-AC3S-0.5-1	70
720-90446-1 MS	DG-AC3S-0.5-1	85
720-90446-1 MSD	DG-AC3S-0.5-1	86
720-90446-2	DG-AC3S-3.5-4	85
720-90446-3	DG-AE3S-0.5-1	72
720-90446-4	DG-AE3S-3.5-4	62
720-90446-5	DG-AG3S-0.5-1	85
720-90446-6	DG-AG3S-3.5-4	65
720-90446-7	DG-AI3S-0.5-1	95
720-90446-7 MS	DG-AI3S-0.5-1	91
720-90446-7 MSD	DG-AI3S-0.5-1	94
720-90446-8	DG-AI3S-3.5-4	91
720-90446-9	DG-AK3S-0.5-1	81
720-90446-10	DG-AK3S-3.5-4	73
720-90446-11	DUP-17	68
720-90446-12	DG-AM3S-0.5-1	65
720-90446-13	DG-AM3S-3.5-4	73
720-90446-14	DG-AO3S-0.5-1	75
720-90446-15	DG-AO3S-3.5-4	69
720-90446-16	DG-AQ3S-0.5-1	88
720-90446-17	DG-AQ3S-3.5-4	79
LCS 440-518872/2-A	Lab Control Sample	85
MB 440-518872/1-A	Method Blank	85

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-518867/4
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
2-Chlorotoluene	ND		250	100	ug/Kg			12/22/18 09:35	100
1,3-Dichloropropane	ND		100	50	ug/Kg			12/22/18 09:35	100
1,1-Dichloropropene	ND		100	50	ug/Kg			12/22/18 09:35	100
4-Chlorotoluene	ND		250	50	ug/Kg			12/22/18 09:35	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			12/22/18 09:35	100
Benzene	ND		100	50	ug/Kg			12/22/18 09:35	100
Bromobenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
1,1-Dichloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
Bromoform	ND		250	100	ug/Kg			12/22/18 09:35	100
1,2-Dichloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
Bromomethane	ND		250	100	ug/Kg			12/22/18 09:35	100
1,1-Dichloroethene	ND		250	100	ug/Kg			12/22/18 09:35	100
Carbon disulfide	ND		250	130	ug/Kg			12/22/18 09:35	100
Carbon tetrachloride	ND		250	100	ug/Kg			12/22/18 09:35	100
Chlorobenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,2-Dichloropropane	ND		100	50	ug/Kg			12/22/18 09:35	100
Chlorobromomethane	ND		250	100	ug/Kg			12/22/18 09:35	100
Chlorodibromomethane	ND		100	50	ug/Kg			12/22/18 09:35	100
Chloroethane	ND		250	100	ug/Kg			12/22/18 09:35	100
Chloroform	ND		100	50	ug/Kg			12/22/18 09:35	100
Chloromethane	ND		250	100	ug/Kg			12/22/18 09:35	100
2-Hexanone	ND		1300	500	ug/Kg			12/22/18 09:35	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			12/22/18 09:35	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			12/22/18 09:35	100
4-Isopropyltoluene	ND		100	50	ug/Kg			12/22/18 09:35	100
Dibromomethane	ND		100	50	ug/Kg			12/22/18 09:35	100
Dichlorobromomethane	ND		100	50	ug/Kg			12/22/18 09:35	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			12/22/18 09:35	100
Ethylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
Hexachlorobutadiene	ND		250	100	ug/Kg			12/22/18 09:35	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			12/22/18 09:35	100
Isopropylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			12/22/18 09:35	100
Methylene Chloride	ND		1000	500	ug/Kg			12/22/18 09:35	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
Naphthalene	ND		250	100	ug/Kg			12/22/18 09:35	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
n-Butylbenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
N-Propylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			12/22/18 09:35	100
sec-Butylbenzene	ND		250	50	ug/Kg			12/22/18 09:35	100
Styrene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,2,3-Trichloropropane	ND		500	100	ug/Kg			12/22/18 09:35	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518867/4
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		250	100	ug/Kg			12/22/18 09:35	100
Tetrachloroethene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
Toluene	ND		100	50	ug/Kg			12/22/18 09:35	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			12/22/18 09:35	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			12/22/18 09:35	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			12/22/18 09:35	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			12/22/18 09:35	100
Trichloroethene	ND		100	50	ug/Kg			12/22/18 09:35	100
Ethylene Dibromide	ND		100	50	ug/Kg			12/22/18 09:35	100
Trichlorofluoromethane	ND		250	100	ug/Kg			12/22/18 09:35	100
2-Butanone (MEK)	ND		1000	500	ug/Kg			12/22/18 09:35	100
Vinyl acetate	ND		500	250	ug/Kg			12/22/18 09:35	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			12/22/18 09:35	100
Vinyl chloride	ND		250	100	ug/Kg			12/22/18 09:35	100
Xylenes, Total	ND		200	100	ug/Kg			12/22/18 09:35	100
2,2-Dichloropropane	ND		200	100	ug/Kg			12/22/18 09:35	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*		*12/22/18 09:35*	*100*
Toluene-d8 (Surr)	*99*		*60 - 140*		*12/22/18 09:35*	*100*

Lab Sample ID: LCS 440-518867/5
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	2500	2390		ug/Kg		96	70 - 120
1,3-Dichlorobenzene	2500	2430		ug/Kg		97	70 - 125
1,4-Dichlorobenzene	2500	2440		ug/Kg		98	70 - 125
2-Chlorotoluene	2500	2400		ug/Kg		96	70 - 125
1,3-Dichloropropane	2500	2290		ug/Kg		92	65 - 130
1,1-Dichloropropene	2500	2360		ug/Kg		94	70 - 130
4-Chlorotoluene	2500	2450		ug/Kg		98	70 - 125
1,2-Dibromo-3-Chloropropane	2500	2390		ug/Kg		96	45 - 135
Benzene	2500	2260		ug/Kg		90	65 - 120
Bromobenzene	2500	2460		ug/Kg		98	70 - 120
1,1-Dichloroethane	2500	2410		ug/Kg		96	65 - 130
Bromoform	2500	2560		ug/Kg		103	50 - 130
1,2-Dichloroethane	2500	2700		ug/Kg		108	60 - 145
Bromomethane	2500	2430		ug/Kg		97	30 - 140
1,1-Dichloroethene	2500	2420		ug/Kg		97	75 - 140
Carbon disulfide	2500	2160		ug/Kg		86	50 - 130
Carbon tetrachloride	2500	2880		ug/Kg		115	65 - 145
Chlorobenzene	2500	2290		ug/Kg		92	70 - 125
1,2-Dichloropropane	2500	2420		ug/Kg		97	75 - 125
Chlorobromomethane	2500	2530		ug/Kg		101	65 - 125
Chlorodibromomethane	2500	2520		ug/Kg		101	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518867/5
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2500	2150		ug/Kg		86	40 - 140
Chloroform	2500	2530		ug/Kg		101	75 - 130
Chloromethane	2500	2140		ug/Kg		86	30 - 140
2-Hexanone	2500	2110		ug/Kg		84	35 - 140
cis-1,2-Dichloroethene	2500	2320		ug/Kg		93	65 - 130
cis-1,3-Dichloropropene	2500	2460		ug/Kg		98	70 - 130
4-Isopropyltoluene	2500	2510		ug/Kg		101	70 - 125
Dibromomethane	2500	2270		ug/Kg		91	65 - 130
Dichlorobromomethane	2500	2650		ug/Kg		106	65 - 135
Dichlorodifluoromethane	2500	1420		ug/Kg		57	10 - 155
Ethylbenzene	2500	2360		ug/Kg		94	80 - 120
Hexachlorobutadiene	2500	2360		ug/Kg		94	60 - 135
1,1,1,2-Tetrachloroethane	2500	2560		ug/Kg		103	70 - 140
Isopropylbenzene	2500	2410		ug/Kg		96	70 - 125
1,1,2,2-Tetrachloroethane	2500	2180		ug/Kg		87	55 - 135
Methyl tert-butyl ether	2500	2420		ug/Kg		97	55 - 145
Methylene Chloride	2500	2210		ug/Kg		89	60 - 140
1,2,3-Trichlorobenzene	2500	2300		ug/Kg		92	60 - 135
Naphthalene	2500	2110		ug/Kg		85	50 - 140
1,2,4-Trichlorobenzene	2500	2280		ug/Kg		91	65 - 135
n-Butylbenzene	2500	2480		ug/Kg		99	70 - 130
1,1,1-Trichloroethane	2500	2800		ug/Kg		112	65 - 140
N-Propylbenzene	2500	2460		ug/Kg		98	70 - 130
1,1,2-Trichloroethane	2500	2350		ug/Kg		94	65 - 130
sec-Butylbenzene	2500	2450		ug/Kg		98	70 - 125
Styrene	2500	2310		ug/Kg		92	70 - 135
1,2,3-Trichloropropane	2500	2550		ug/Kg		102	55 - 130
tert-Butylbenzene	2500	2540		ug/Kg		102	70 - 125
Tetrachloroethene	2500	2410		ug/Kg		97	65 - 125
1,2,4-Trimethylbenzene	2500	2510		ug/Kg		100	70 - 125
Toluene	2500	2220		ug/Kg		89	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2530		ug/Kg		101	60 - 140
1,3,5-Trimethylbenzene	2500	2490		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	2500	2440		ug/Kg		97	65 - 130
trans-1,3-Dichloropropene	2500	2500		ug/Kg		100	65 - 135
m-Xylene & p-Xylene	2500	2340		ug/Kg		94	70 - 125
Trichloroethene	2500	2480		ug/Kg		99	70 - 130
Ethylene Dibromide	2500	2240		ug/Kg		90	70 - 130
o-Xylene	2500	2310		ug/Kg		93	70 - 125
Trichlorofluoromethane	2500	2670		ug/Kg		107	50 - 145
2-Butanone (MEK)	2500	2200		ug/Kg		88	40 - 145
Vinyl acetate	2500	2500		ug/Kg		100	25 - 145
4-Methyl-2-pentanone (MIBK)	2500	2030		ug/Kg		81	40 - 145
Vinyl chloride	2500	2500		ug/Kg		100	10 - 120
2,2-Dichloropropane	2500	2750		ug/Kg		110	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518867/5
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*
Toluene-d8 (Surr)	*93*		*60 - 140*

Lab Sample ID: LCSD 440-518867/6
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene			2500	2470		ug/Kg		99	70 - 120	3	20
1,3-Dichlorobenzene			2500	2560		ug/Kg		102	70 - 125	5	20
1,4-Dichlorobenzene			2500	2510		ug/Kg		100	70 - 125	3	20
2-Chlorotoluene			2500	2540		ug/Kg		102	70 - 125	6	20
1,3-Dichloropropane			2500	2490		ug/Kg		99	65 - 130	8	20
1,1-Dichloropropene			2500	2800		ug/Kg		112	70 - 130	17	20
4-Chlorotoluene			2500	2590		ug/Kg		104	70 - 125	5	20
1,2-Dibromo-3-Chloropropane			2500	2580		ug/Kg		103	45 - 135	8	25
Benzene			2500	2640		ug/Kg		106	65 - 120	16	20
Bromobenzene			2500	2600		ug/Kg		104	70 - 120	6	20
1,1-Dichloroethane			2500	2770		ug/Kg		111	65 - 130	14	20
Bromoform			2500	2790		ug/Kg		111	50 - 130	8	25
1,2-Dichloroethane			2500	3040		ug/Kg		122	60 - 145	12	20
Bromomethane			2500	2820		ug/Kg		113	30 - 140	15	30
1,1-Dichloroethene			2500	2820		ug/Kg		113	75 - 140	16	20
Carbon disulfide			2500	2500		ug/Kg		100	50 - 130	14	20
Carbon tetrachloride			2500	3310		ug/Kg		133	65 - 145	14	20
Chlorobenzene			2500	2600		ug/Kg		104	70 - 125	13	20
1,2-Dichloropropane			2500	2720		ug/Kg		109	75 - 125	12	20
Chlorobromomethane			2500	2770		ug/Kg		111	65 - 125	9	20
Chlorodibromomethane			2500	2710		ug/Kg		108	65 - 140	7	20
Chloroethane			2500	2510		ug/Kg		101	40 - 140	16	25
Chloroform			2500	2890		ug/Kg		116	75 - 130	13	20
Chloromethane			2500	2450		ug/Kg		98	30 - 140	13	25
2-Hexanone			2500	2330		ug/Kg		93	35 - 140	10	30
cis-1,2-Dichloroethene			2500	2590		ug/Kg		103	65 - 130	11	20
cis-1,3-Dichloropropene			2500	2620		ug/Kg		105	70 - 130	6	20
4-Isopropyltoluene			2500	2660		ug/Kg		106	70 - 125	6	20
Dibromomethane			2500	2540		ug/Kg		102	65 - 130	11	20
Dichlorobromomethane			2500	2970		ug/Kg		119	65 - 135	11	20
Dichlorodifluoromethane			2500	1660		ug/Kg		66	10 - 155	16	30
Ethylbenzene			2500	2600		ug/Kg		104	80 - 120	10	20
Hexachlorobutadiene			2500	2560		ug/Kg		102	60 - 135	8	20
1,1,1,2-Tetrachloroethane			2500	2760		ug/Kg		110	70 - 140	7	20
Isopropylbenzene			2500	2650		ug/Kg		106	70 - 125	9	20
1,1,2,2-Tetrachloroethane			2500	2320		ug/Kg		93	55 - 135	6	25
Methyl tert-butyl ether			2500	2820		ug/Kg		113	55 - 145	15	25
Methylene Chloride			2500	2550		ug/Kg		102	60 - 140	14	20
1,2,3-Trichlorobenzene			2500	2500		ug/Kg		100	60 - 135	8	20
Naphthalene			2500	2320		ug/Kg		93	50 - 140	9	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-518867/6
Matrix: Solid
Analysis Batch: 518867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			2500	2430		ug/Kg		97	65 - 135	6	20
n-Butylbenzene			2500	2610		ug/Kg		104	70 - 130	5	20
1,1,1-Trichloroethane			2500	3160		ug/Kg		126	65 - 140	12	20
N-Propylbenzene			2500	2630		ug/Kg		105	70 - 130	7	20
1,1,2-Trichloroethane			2500	2550		ug/Kg		102	65 - 130	8	20
sec-Butylbenzene			2500	2640		ug/Kg		105	70 - 125	7	20
Styrene			2500	2510		ug/Kg		100	70 - 135	8	20
1,2,3-Trichloropropane			2500	2670		ug/Kg		107	55 - 130	5	25
tert-Butylbenzene			2500	2730		ug/Kg		109	70 - 125	7	20
Tetrachloroethene			2500	2660		ug/Kg		107	65 - 125	10	20
1,2,4-Trimethylbenzene			2500	2690		ug/Kg		108	70 - 125	7	20
Toluene			2500	2460		ug/Kg		98	80 - 120	10	20
1,1,2-Trichloro-1,2,2-trifluoroethane			2500	2830		ug/Kg		113	60 - 140	11	40
1,3,5-Trimethylbenzene			2500	2660		ug/Kg		106	70 - 125	7	20
trans-1,2-Dichloroethene			2500	2800		ug/Kg		112	65 - 130	14	20
trans-1,3-Dichloropropene			2500	2770		ug/Kg		111	65 - 135	10	20
m-Xylene & p-Xylene			2500	2630		ug/Kg		105	70 - 125	11	20
Trichloroethene			2500	2790		ug/Kg		112	70 - 130	12	20
Ethylene Dibromide			2500	2430		ug/Kg		97	70 - 130	8	20
o-Xylene			2500	2550		ug/Kg		102	70 - 125	10	20
Trichlorofluoromethane			2500	3060		ug/Kg		122	50 - 145	13	25
2-Butanone (MEK)			2500	2040		ug/Kg		82	40 - 145	7	30
Vinyl acetate			2500	2700		ug/Kg		108	25 - 145	8	25
4-Methyl-2-pentanone (MIBK)			2500	2170		ug/Kg		87	40 - 145	7	30
Vinyl chloride			2500	2830		ug/Kg		113	10 - 120	13	30
2,2-Dichloropropane			2500	3080		ug/Kg		123	60 - 145	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*
Toluene-d8 (Surr)	*91*		*60 - 140*

Lab Sample ID: MB 440-518870/4
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/22/18 09:46	1
Benzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518870/4
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/22/18 09:46	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/22/18 09:46	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Chloroform	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
2-Hexanone	ND		10	5.0	ug/Kg			12/22/18 09:46	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/22/18 09:46	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/22/18 09:46	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Styrene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/22/18 09:46	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Toluene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/22/18 09:46	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/22/18 09:46	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518870/4
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/22/18 09:46	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/22/18 09:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/22/18 09:46	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/22/18 09:46	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/22/18 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/22/18 09:46*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*12/22/18 09:46*	*1*

Lab Sample ID: LCS 440-518870/5
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	59.3		ug/Kg		119	75 - 120
1,3-Dichlorobenzene	50.0	56.4		ug/Kg		113	75 - 125
1,4-Dichlorobenzene	50.0	57.7		ug/Kg		115	75 - 120
2-Chlorotoluene	50.0	57.6		ug/Kg		115	70 - 125
1,3-Dichloropropane	50.0	55.7		ug/Kg		111	70 - 125
1,1-Dichloropropene	50.0	57.8		ug/Kg		116	70 - 130
4-Chlorotoluene	50.0	58.3		ug/Kg		117	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	60.9		ug/Kg		122	50 - 135
Benzene	50.0	57.7		ug/Kg		115	65 - 120
Bromobenzene	50.0	61.3	*	ug/Kg		123	75 - 120
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 130
Bromoform	50.0	60.6		ug/Kg		121	55 - 135
1,2-Dichloroethane	50.0	53.7		ug/Kg		107	60 - 140
Bromomethane	50.0	45.4		ug/Kg		91	60 - 145
1,1-Dichloroethene	50.0	53.5		ug/Kg		107	70 - 125
Carbon disulfide	50.0	51.5		ug/Kg		103	50 - 130
Carbon tetrachloride	50.0	58.0		ug/Kg		116	65 - 140
Chlorobenzene	50.0	55.2		ug/Kg		110	75 - 120
1,2-Dichloropropane	50.0	58.7		ug/Kg		117	70 - 130
Chlorobromomethane	50.0	61.8		ug/Kg		124	70 - 135
Chlorodibromomethane	50.0	57.5		ug/Kg		115	65 - 140
Chloroethane	50.0	42.3		ug/Kg		85	60 - 140
Chloroform	50.0	59.2		ug/Kg		118	70 - 130
Chloromethane	50.0	27.6		ug/Kg		55	45 - 145
2-Hexanone	50.0	49.3		ug/Kg		99	40 - 150
cis-1,2-Dichloroethene	50.0	60.4		ug/Kg		121	70 - 125
cis-1,3-Dichloropropene	50.0	58.9		ug/Kg		118	75 - 125
4-Isopropyltoluene	50.0	57.6		ug/Kg		115	75 - 125
Dibromomethane	50.0	59.0		ug/Kg		118	70 - 130
Dichlorobromomethane	50.0	59.4		ug/Kg		119	70 - 135
Dichlorodifluoromethane	50.0	29.1		ug/Kg		58	35 - 160
Ethylbenzene	50.0	54.4		ug/Kg		109	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518870/5
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	58.3		ug/Kg		117	60 - 135
1,1,1,2-Tetrachloroethane	50.0	59.8		ug/Kg		120	70 - 130
Isopropylbenzene	50.0	56.8		ug/Kg		114	75 - 130
1,1,2,2-Tetrachloroethane	50.0	61.6		ug/Kg		123	55 - 140
Methyl tert-butyl ether	50.0	60.5		ug/Kg		121	60 - 140
Methylene Chloride	50.0	56.8		ug/Kg		114	55 - 135
1,2,3-Trichlorobenzene	50.0	61.7		ug/Kg		123	60 - 130
Naphthalene	50.0	62.2		ug/Kg		124	55 - 135
1,2,4-Trichlorobenzene	50.0	60.9		ug/Kg		122	70 - 135
n-Butylbenzene	50.0	56.5		ug/Kg		113	70 - 130
1,1,1-Trichloroethane	50.0	59.6		ug/Kg		119	65 - 135
N-Propylbenzene	50.0	58.4		ug/Kg		117	70 - 130
1,1,2-Trichloroethane	50.0	59.5		ug/Kg		119	65 - 135
sec-Butylbenzene	50.0	58.8		ug/Kg		118	70 - 125
Styrene	50.0	55.4		ug/Kg		111	75 - 130
1,2,3-Trichloropropane	50.0	65.7		ug/Kg		131	60 - 135
tert-Butylbenzene	50.0	58.8		ug/Kg		118	70 - 125
Tetrachloroethene	50.0	53.4		ug/Kg		107	70 - 125
1,2,4-Trimethylbenzene	50.0	57.3		ug/Kg		115	70 - 125
Toluene	50.0	56.8		ug/Kg		114	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.3		ug/Kg		107	60 - 140
1,3,5-Trimethylbenzene	50.0	57.5		ug/Kg		115	70 - 125
trans-1,2-Dichloroethene	50.0	59.9		ug/Kg		120	70 - 125
trans-1,3-Dichloropropene	50.0	56.9		ug/Kg		114	70 - 135
m-Xylene & p-Xylene	50.0	55.6		ug/Kg		111	70 - 125
Trichloroethene	50.0	61.0		ug/Kg		122	70 - 125
Ethylene Dibromide	50.0	60.9		ug/Kg		122	70 - 130
o-Xylene	50.0	56.5		ug/Kg		113	70 - 125
Trichlorofluoromethane	50.0	43.0		ug/Kg		86	60 - 145
2-Butanone (MEK)	50.0	69.3		ug/Kg		139	40 - 145
Vinyl acetate	50.0	51.1		ug/Kg		102	45 - 145
4-Methyl-2-pentanone (MIBK)	50.0	46.1		ug/Kg		92	40 - 145
Vinyl chloride	50.0	34.7		ug/Kg		69	55 - 135
2,2-Dichloropropane	50.0	54.4		ug/Kg		109	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: MB 440-518877/4
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518877/4
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/22/18 10:31	1
Benzene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Bromoform	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/22/18 10:31	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/22/18 10:31	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Chloroform	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
2-Hexanone	ND		10	5.0	ug/Kg			12/22/18 10:31	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/22/18 10:31	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/22/18 10:31	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Styrene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/22/18 10:31	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518877/4
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/22/18 10:31	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/22/18 10:31	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/22/18 10:31	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/22/18 10:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/22/18 10:31	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/22/18 10:31	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/22/18 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*12/22/18 10:31*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*		*12/22/18 10:31*	*1*

Lab Sample ID: LCS 440-518877/5
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	53.3		ug/Kg		107	75 - 120
1,3-Dichlorobenzene	50.0	50.9		ug/Kg		102	75 - 125
1,4-Dichlorobenzene	50.0	52.6		ug/Kg		105	75 - 120
2-Chlorotoluene	50.0	49.0		ug/Kg		98	70 - 125
1,3-Dichloropropane	50.0	51.8		ug/Kg		104	70 - 125
1,1-Dichloropropene	50.0	59.1		ug/Kg		118	70 - 130
4-Chlorotoluene	50.0	50.4		ug/Kg		101	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	50.3		ug/Kg		101	50 - 135
Benzene	50.0	53.1		ug/Kg		106	65 - 120
Bromobenzene	50.0	56.0		ug/Kg		112	75 - 120
1,1-Dichloroethane	50.0	54.2		ug/Kg		108	70 - 130
Bromoform	50.0	56.2		ug/Kg		112	55 - 135
1,2-Dichloroethane	50.0	56.5		ug/Kg		113	60 - 140
Bromomethane	50.0	46.7		ug/Kg		93	60 - 145
1,1-Dichloroethene	50.0	55.4		ug/Kg		111	70 - 125
Carbon disulfide	50.0	51.9		ug/Kg		104	50 - 130
Carbon tetrachloride	50.0	59.0		ug/Kg		118	65 - 140
Chlorobenzene	50.0	51.4		ug/Kg		103	75 - 120
1,2-Dichloropropane	50.0	56.2		ug/Kg		112	70 - 130
Chlorobromomethane	50.0	54.7		ug/Kg		109	70 - 135
Chlorodibromomethane	50.0	57.8		ug/Kg		116	65 - 140
Chloroethane	50.0	48.2		ug/Kg		96	60 - 140
Chloroform	50.0	53.7		ug/Kg		107	70 - 130
Chloromethane	50.0	41.7		ug/Kg		83	45 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518877/5
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	50.0	54.1		ug/Kg		108	40 - 150
cis-1,2-Dichloroethene	50.0	53.7		ug/Kg		107	70 - 125
cis-1,3-Dichloropropene	50.0	57.2		ug/Kg		114	75 - 125
4-Isopropyltoluene	50.0	49.7		ug/Kg		99	75 - 125
Dibromomethane	50.0	57.5		ug/Kg		115	70 - 130
Dichlorobromomethane	50.0	55.6		ug/Kg		111	70 - 135
Dichlorodifluoromethane	50.0	37.7		ug/Kg		75	35 - 160
Ethylbenzene	50.0	51.6		ug/Kg		103	70 - 125
Hexachlorobutadiene	50.0	45.1		ug/Kg		90	60 - 135
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/Kg		109	70 - 130
Isopropylbenzene	50.0	52.6		ug/Kg		105	75 - 130
1,1,2,2-Tetrachloroethane	50.0	48.7		ug/Kg		97	55 - 140
Methyl tert-butyl ether	50.0	54.4		ug/Kg		109	60 - 140
Methylene Chloride	50.0	50.6		ug/Kg		101	55 - 135
1,2,3-Trichlorobenzene	50.0	45.4		ug/Kg		91	60 - 130
Naphthalene	50.0	44.6		ug/Kg		89	55 - 135
1,2,4-Trichlorobenzene	50.0	44.8		ug/Kg		90	70 - 135
n-Butylbenzene	50.0	48.8		ug/Kg		98	70 - 130
1,1,1-Trichloroethane	50.0	56.3		ug/Kg		113	65 - 135
N-Propylbenzene	50.0	52.5		ug/Kg		105	70 - 130
1,1,2-Trichloroethane	50.0	55.8		ug/Kg		112	65 - 135
sec-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 125
Styrene	50.0	46.4		ug/Kg		93	75 - 130
1,2,3-Trichloropropane	50.0	55.5		ug/Kg		111	60 - 135
tert-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 125
Tetrachloroethene	50.0	59.9		ug/Kg		120	70 - 125
1,2,4-Trimethylbenzene	50.0	50.0		ug/Kg		100	70 - 125
Toluene	50.0	51.2		ug/Kg		102	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.1		ug/Kg		108	60 - 140
1,3,5-Trimethylbenzene	50.0	50.3		ug/Kg		101	70 - 125
trans-1,2-Dichloroethene	50.0	57.2		ug/Kg		114	70 - 125
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	70 - 135
m-Xylene & p-Xylene	50.0	53.5		ug/Kg		107	70 - 125
Trichloroethene	50.0	57.8		ug/Kg		116	70 - 125
Ethylene Dibromide	50.0	53.6		ug/Kg		107	70 - 130
o-Xylene	50.0	51.2		ug/Kg		102	70 - 125
Trichlorofluoromethane	50.0	48.8		ug/Kg		98	60 - 145
2-Butanone (MEK)	50.0	53.8		ug/Kg		108	40 - 145
Vinyl acetate	50.0	56.7		ug/Kg		113	45 - 145
4-Methyl-2-pentanone (MIBK)	50.0	61.7		ug/Kg		123	40 - 145
Vinyl chloride	50.0	44.8		ug/Kg		90	55 - 135
2,2-Dichloropropane	50.0	57.1		ug/Kg		114	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*
Toluene-d8 (Surr)	*105*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518903/4
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/22/18 11:39	1
Benzene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Bromoform	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/22/18 11:39	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/22/18 11:39	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Chloroform	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
2-Hexanone	ND		10	5.0	ug/Kg			12/22/18 11:39	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/22/18 11:39	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/22/18 11:39	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Styrene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/22/18 11:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-518903/4
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Toluene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/22/18 11:39	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/22/18 11:39	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/22/18 11:39	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/22/18 11:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/22/18 11:39	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/22/18 11:39	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/22/18 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*12/22/18 11:39*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*		*12/22/18 11:39*	*1*

Lab Sample ID: LCS 440-518903/5
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	52.3		ug/Kg		105	75 - 120
1,3-Dichlorobenzene	50.0	49.8		ug/Kg		100	75 - 125
1,4-Dichlorobenzene	50.0	51.1		ug/Kg		102	75 - 120
2-Chlorotoluene	50.0	52.0		ug/Kg		104	70 - 125
1,3-Dichloropropane	50.0	51.4		ug/Kg		103	70 - 125
1,1-Dichloropropene	50.0	48.6		ug/Kg		97	70 - 130
4-Chlorotoluene	50.0	49.7		ug/Kg		99	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	66.2		ug/Kg		132	50 - 135
Benzene	50.0	49.3		ug/Kg		99	65 - 120
Bromobenzene	50.0	53.3		ug/Kg		107	75 - 120
1,1-Dichloroethane	50.0	52.2		ug/Kg		104	70 - 130
Bromoform	50.0	57.4		ug/Kg		115	55 - 135
1,2-Dichloroethane	50.0	60.3		ug/Kg		121	60 - 140
Bromomethane	50.0	35.4		ug/Kg		71	60 - 145
1,1-Dichloroethene	50.0	45.3		ug/Kg		91	70 - 125
Carbon disulfide	50.0	41.5		ug/Kg		83	50 - 130
Carbon tetrachloride	50.0	48.9		ug/Kg		98	65 - 140
Chlorobenzene	50.0	49.5		ug/Kg		99	75 - 120
1,2-Dichloropropane	50.0	57.5		ug/Kg		115	70 - 130
Chlorobromomethane	50.0	53.1		ug/Kg		106	70 - 135
Chlorodibromomethane	50.0	53.6		ug/Kg		107	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518903/5
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	37.7		ug/Kg		75	60 - 140
Chloroform	50.0	51.1		ug/Kg		102	70 - 130
Chloromethane	50.0	30.3		ug/Kg		61	45 - 145
2-Hexanone	50.0	68.6		ug/Kg		137	40 - 150
cis-1,2-Dichloroethene	50.0	51.6		ug/Kg		103	70 - 125
cis-1,3-Dichloropropene	50.0	55.9		ug/Kg		112	75 - 125
4-Isopropyltoluene	50.0	49.8		ug/Kg		100	75 - 125
Dibromomethane	50.0	57.5		ug/Kg		115	70 - 130
Dichlorobromomethane	50.0	55.3		ug/Kg		111	70 - 135
Dichlorodifluoromethane	50.0	23.6		ug/Kg		47	35 - 160
Ethylbenzene	50.0	46.5		ug/Kg		93	70 - 125
Hexachlorobutadiene	50.0	48.2		ug/Kg		96	60 - 135
1,1,1,2-Tetrachloroethane	50.0	51.5		ug/Kg		103	70 - 130
Isopropylbenzene	50.0	47.9		ug/Kg		96	75 - 130
1,1,2,2-Tetrachloroethane	50.0	61.0		ug/Kg		122	55 - 140
Methyl tert-butyl ether	50.0	55.9		ug/Kg		112	60 - 140
Methylene Chloride	50.0	45.8		ug/Kg		92	55 - 135
1,2,3-Trichlorobenzene	50.0	54.1		ug/Kg		108	60 - 130
Naphthalene	50.0	57.2		ug/Kg		114	55 - 135
1,2,4-Trichlorobenzene	50.0	53.1		ug/Kg		106	70 - 135
n-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 130
1,1,1-Trichloroethane	50.0	50.1		ug/Kg		100	65 - 135
N-Propylbenzene	50.0	51.6		ug/Kg		103	70 - 130
1,1,2-Trichloroethane	50.0	55.4		ug/Kg		111	65 - 135
sec-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 125
Styrene	50.0	47.9		ug/Kg		96	75 - 130
1,2,3-Trichloropropane	50.0	56.4		ug/Kg		113	60 - 135
tert-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 125
Tetrachloroethene	50.0	47.2		ug/Kg		94	70 - 125
1,2,4-Trimethylbenzene	50.0	51.0		ug/Kg		102	70 - 125
Toluene	50.0	47.1		ug/Kg		94	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.3		ug/Kg		87	60 - 140
1,3,5-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 125
trans-1,3-Dichloropropene	50.0	56.1		ug/Kg		112	70 - 135
m-Xylene & p-Xylene	50.0	48.1		ug/Kg		96	70 - 125
Trichloroethene	50.0	50.3		ug/Kg		101	70 - 125
Ethylene Dibromide	50.0	53.7		ug/Kg		107	70 - 130
o-Xylene	50.0	49.6		ug/Kg		99	70 - 125
Trichlorofluoromethane	50.0	37.5		ug/Kg		75	60 - 145
2-Butanone (MEK)	50.0	58.4		ug/Kg		117	40 - 145
Vinyl acetate	50.0	64.8		ug/Kg		130	45 - 145
4-Methyl-2-pentanone (MIBK)	50.0	70.7		ug/Kg		141	40 - 145
Vinyl chloride	50.0	28.7		ug/Kg		57	55 - 135
2,2-Dichloropropane	50.0	51.9		ug/Kg		104	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-518903/5
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MS
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		49.3	58.2		ug/Kg		118	70 - 130
1,3-Dichlorobenzene	ND		49.3	55.7		ug/Kg		113	70 - 130
1,4-Dichlorobenzene	ND		49.3	55.6		ug/Kg		113	70 - 130
2-Chlorotoluene	ND		49.3	57.4		ug/Kg		116	60 - 135
1,3-Dichloropropane	ND		49.3	57.2		ug/Kg		116	65 - 140
1,1-Dichloropropene	ND		49.3	55.7		ug/Kg		113	65 - 135
4-Chlorotoluene	ND		49.3	56.5		ug/Kg		115	65 - 135
1,2-Dibromo-3-Chloropropane	ND		49.3	54.8		ug/Kg		111	40 - 150
Benzene	ND		49.3	55.1		ug/Kg		112	65 - 130
Bromobenzene	ND		49.3	59.8		ug/Kg		121	65 - 140
1,1-Dichloroethane	69	F1	49.3	103		ug/Kg		70	65 - 135
Bromoform	ND		49.3	63.4		ug/Kg		129	50 - 145
1,2-Dichloroethane	ND		49.3	68.6		ug/Kg		139	60 - 150
Bromomethane	ND		49.3	39.9		ug/Kg		81	60 - 155
1,1-Dichloroethene	ND	F1	49.3	76.9	F1	ug/Kg		156	65 - 135
Carbon disulfide	ND		49.3	43.9		ug/Kg		89	40 - 140
Carbon tetrachloride	ND		49.3	57.5		ug/Kg		117	60 - 145
Chlorobenzene	ND		49.3	54.4		ug/Kg		110	70 - 130
1,2-Dichloropropane	ND		49.3	62.7		ug/Kg		127	65 - 130
Chlorobromomethane	ND		49.3	59.3		ug/Kg		120	65 - 145
Chlorodibromomethane	ND		49.3	57.2		ug/Kg		116	60 - 145
Chloroethane	ND		49.3	42.7		ug/Kg		87	60 - 150
Chloroform	ND		49.3	56.4		ug/Kg		114	65 - 135
Chloromethane	ND		49.3	34.8		ug/Kg		71	40 - 145
2-Hexanone	ND		49.3	76.9		ug/Kg		156	35 - 160
cis-1,2-Dichloroethene	92	F1	49.3	119	F1	ug/Kg		55	65 - 135
cis-1,3-Dichloropropene	ND		49.3	62.0		ug/Kg		126	70 - 135
4-Isopropyltoluene	ND		49.3	53.3		ug/Kg		108	60 - 140
Dibromomethane	ND		49.3	63.2		ug/Kg		128	65 - 140
Dichlorobromomethane	ND		49.3	58.0		ug/Kg		118	65 - 145
Dichlorodifluoromethane	ND		49.3	28.4		ug/Kg		57	30 - 160
Ethylbenzene	ND		49.3	50.9		ug/Kg		103	70 - 135
Hexachlorobutadiene	ND		49.3	42.9		ug/Kg		87	50 - 145
1,1,1,2-Tetrachloroethane	ND		49.3	55.5		ug/Kg		112	65 - 145
Isopropylbenzene	ND		49.3	52.2		ug/Kg		106	70 - 145
1,1,2,2-Tetrachloroethane	ND	F1	49.3	ND	F1	ug/Kg		0	40 - 160
Methyl tert-butyl ether	ND		49.3	59.8		ug/Kg		121	55 - 155
Methylene Chloride	110	F1 F2	49.3	134	F1	ug/Kg		40	55 - 145
1,2,3-Trichlorobenzene	ND		49.3	56.6		ug/Kg		115	45 - 145
Naphthalene	ND		49.3	60.4		ug/Kg		122	40 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228365-A-1 MS
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND		49.3	56.4		ug/Kg		114	50 - 140
n-Butylbenzene	ND		49.3	53.4		ug/Kg		108	55 - 145
1,1,1-Trichloroethane	21		49.3	71.0		ug/Kg		101	65 - 145
N-Propylbenzene	ND		49.3	58.0		ug/Kg		118	65 - 140
1,1,2-Trichloroethane	ND		49.3	48.0		ug/Kg		97	65 - 140
sec-Butylbenzene	ND		49.3	53.4		ug/Kg		108	60 - 135
Styrene	ND		49.3	52.8		ug/Kg		107	70 - 140
1,2,3-Trichloropropane	ND		49.3	61.3		ug/Kg		124	50 - 150
tert-Butylbenzene	ND		49.3	56.0		ug/Kg		114	60 - 140
Tetrachloroethene	9.6		49.3	60.2		ug/Kg		103	65 - 135
1,2,4-Trimethylbenzene	1.8	J	49.3	58.5		ug/Kg		115	65 - 140
Toluene	1.8		49.3	53.0		ug/Kg		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.3	49.8		ug/Kg		101	60 - 140
1,3,5-Trimethylbenzene	ND		49.3	56.4		ug/Kg		114	65 - 135
trans-1,2-Dichloroethene	0.76	J	49.3	57.5		ug/Kg		115	70 - 135
trans-1,3-Dichloropropene	ND		49.3	61.9		ug/Kg		125	60 - 145
m-Xylene & p-Xylene	ND		49.3	52.6		ug/Kg		107	70 - 130
Trichloroethene	15	F1	49.3	115	F1	ug/Kg		203	65 - 140
Ethylene Dibromide	ND		49.3	58.8		ug/Kg		119	65 - 140
o-Xylene	ND		49.3	52.9		ug/Kg		107	65 - 130
Trichlorofluoromethane	ND		49.3	44.3		ug/Kg		90	55 - 155
2-Butanone (MEK)	40		49.3	119		ug/Kg		161	25 - 170
Vinyl acetate	ND	F1	49.3	ND	F1	ug/Kg		0	40 - 150
4-Methyl-2-pentanone (MIBK)	20	F1	49.3	103	F1	ug/Kg		167	40 - 155
Vinyl chloride	ND		49.3	32.7		ug/Kg		66	55 - 140
2,2-Dichloropropane	ND		49.3	54.1		ug/Kg		110	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MSD
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		49.4	50.6		ug/Kg		102	70 - 130	14	25
1,3-Dichlorobenzene	ND		49.4	47.9		ug/Kg		97	70 - 130	15	25
1,4-Dichlorobenzene	ND		49.4	49.0		ug/Kg		99	70 - 130	12	25
2-Chlorotoluene	ND		49.4	51.2		ug/Kg		104	60 - 135	11	25
1,3-Dichloropropane	ND		49.4	49.9		ug/Kg		101	65 - 140	14	25
1,1-Dichloropropene	ND		49.4	51.6		ug/Kg		105	65 - 135	8	20
4-Chlorotoluene	ND		49.4	49.7		ug/Kg		101	65 - 135	13	25
1,2-Dibromo-3-Chloropropane	ND		49.4	40.5		ug/Kg		82	40 - 150	30	30
Benzene	ND		49.4	50.2		ug/Kg		102	65 - 130	9	20
Bromobenzene	ND		49.4	53.3		ug/Kg		108	65 - 140	12	25
1,1-Dichloroethane	69	F1	49.4	82.3	F1	ug/Kg		27	65 - 135	23	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228365-A-1 MSD
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		49.4	53.4		ug/Kg		108	50 - 145	17	30
1,2-Dichloroethane	ND		49.4	60.5		ug/Kg		123	60 - 150	13	25
Bromomethane	ND		49.4	35.2		ug/Kg		71	60 - 155	12	25
1,1-Dichloroethene	ND	F1	49.4	68.7	F1	ug/Kg		139	65 - 135	11	25
Carbon disulfide	ND		49.4	35.9		ug/Kg		73	40 - 140	20	20
Carbon tetrachloride	ND		49.4	51.8		ug/Kg		105	60 - 145	10	25
Chlorobenzene	ND		49.4	49.6		ug/Kg		100	70 - 130	9	25
1,2-Dichloropropane	ND		49.4	56.9		ug/Kg		115	65 - 130	10	20
Chlorobromomethane	ND		49.4	51.0		ug/Kg		103	65 - 145	15	25
Chlorodibromomethane	ND		49.4	50.6		ug/Kg		102	60 - 145	12	25
Chloroethane	ND		49.4	38.9		ug/Kg		79	60 - 150	9	25
Chloroform	ND		49.4	50.9		ug/Kg		103	65 - 135	10	20
Chloromethane	ND		49.4	30.7		ug/Kg		62	40 - 145	13	25
2-Hexanone	ND		49.4	60.7		ug/Kg		123	35 - 160	24	40
cis-1,2-Dichloroethene	92	F1	49.4	94.4	F1	ug/Kg		5	65 - 135	23	25
cis-1,3-Dichloropropene	ND		49.4	56.5		ug/Kg		114	70 - 135	9	25
4-Isopropyltoluene	ND		49.4	44.2		ug/Kg		90	60 - 140	19	25
Dibromomethane	ND		49.4	54.5		ug/Kg		110	65 - 140	15	25
Dichlorobromomethane	ND		49.4	49.9		ug/Kg		101	65 - 145	15	20
Dichlorodifluoromethane	ND		49.4	24.8		ug/Kg		50	30 - 160	13	35
Ethylbenzene	ND		49.4	46.2		ug/Kg		93	70 - 135	10	25
Hexachlorobutadiene	ND		49.4	34.7		ug/Kg		70	50 - 145	21	35
1,1,1,2-Tetrachloroethane	ND		49.4	48.7		ug/Kg		99	65 - 145	13	20
Isopropylbenzene	ND		49.4	45.2		ug/Kg		91	70 - 145	15	25
1,1,2,2-Tetrachloroethane	ND	F1	49.4	ND	F1	ug/Kg		0	40 - 160	NC	30
Methyl tert-butyl ether	ND		49.4	52.7		ug/Kg		107	55 - 155	13	35
Methylene Chloride	110	F1 F2	49.4	101	F1 F2	ug/Kg		-28	55 - 145	28	25
1,2,3-Trichlorobenzene	ND		49.4	44.2		ug/Kg		90	45 - 145	25	30
Naphthalene	ND		49.4	48.2		ug/Kg		98	40 - 150	22	40
1,2,4-Trichlorobenzene	ND		49.4	44.2		ug/Kg		89	50 - 140	24	30
n-Butylbenzene	ND		49.4	43.4		ug/Kg		88	55 - 145	21	30
1,1,1-Trichloroethane	21		49.4	60.0		ug/Kg		79	65 - 145	17	20
N-Propylbenzene	ND		49.4	50.0		ug/Kg		101	65 - 140	15	25
1,1,2-Trichloroethane	ND		49.4	38.2		ug/Kg		77	65 - 140	23	30
sec-Butylbenzene	ND		49.4	44.3		ug/Kg		90	60 - 135	19	25
Styrene	ND		49.4	46.2		ug/Kg		94	70 - 140	13	25
1,2,3-Trichloropropane	ND		49.4	51.8		ug/Kg		105	50 - 150	17	30
tert-Butylbenzene	ND		49.4	46.6		ug/Kg		94	60 - 140	18	25
Tetrachloroethene	9.6		49.4	53.1		ug/Kg		88	65 - 135	13	25
1,2,4-Trimethylbenzene	1.8	J	49.4	50.0		ug/Kg		98	65 - 140	16	25
Toluene	1.8		49.4	48.9		ug/Kg		95	70 - 130	8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.4	44.0		ug/Kg		89	60 - 140	12	40
1,3,5-Trimethylbenzene	ND		49.4	47.9		ug/Kg		97	65 - 135	16	25
trans-1,2-Dichloroethene	0.76	J	49.4	52.4		ug/Kg		104	70 - 135	9	25
trans-1,3-Dichloropropene	ND		49.4	54.6		ug/Kg		111	60 - 145	12	25
m-Xylene & p-Xylene	ND		49.4	47.1		ug/Kg		95	70 - 130	11	25
Trichloroethene	15	F1	49.4	102	F1	ug/Kg		176	65 - 140	12	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228365-A-1 MSD
Matrix: Solid
Analysis Batch: 518903

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	ND		49.4	51.2		ug/Kg		104	65 - 140	14	25
o-Xylene	ND		49.4	48.1		ug/Kg		97	65 - 130	10	25
Trichlorofluoromethane	ND		49.4	39.9		ug/Kg		81	55 - 155	10	25
2-Butanone (MEK)	40		49.4	97.4		ug/Kg		116	25 - 170	20	40
Vinyl acetate	ND	F1	49.4	ND	F1	ug/Kg		0	40 - 150	NC	30
4-Methyl-2-pentanone (MIBK)	20	F1	49.4	83.6		ug/Kg		128	40 - 155	21	40
Vinyl chloride	ND		49.4	31.3		ug/Kg		63	55 - 140	5	30
2,2-Dichloropropane	ND		49.4	50.2		ug/Kg		102	65 - 150	7	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		39.7	51.2		ug/Kg		129	65 - 145
1,1,1-Trichloroethane	ND		39.7	46.3		ug/Kg		117	65 - 145
1,1,2,2-Tetrachloroethane	ND		39.7	49.6		ug/Kg		125	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		39.7	44.0		ug/Kg		111	60 - 140
1,1,2-Trichloroethane	ND		39.7	48.6		ug/Kg		123	65 - 140
1,1-Dichloroethane	ND		39.7	40.3		ug/Kg		102	65 - 135
1,1-Dichloroethene	ND		39.7	40.7		ug/Kg		103	65 - 135
1,1-Dichloropropene	ND		39.7	45.8		ug/Kg		115	65 - 135
1,2,3-Trichlorobenzene	ND		39.7	47.1		ug/Kg		119	45 - 145
1,2,3-Trichloropropane	ND		39.7	50.6		ug/Kg		128	50 - 150
1,2,4-Trichlorobenzene	ND		39.7	46.7		ug/Kg		118	50 - 140
1,2,4-Trimethylbenzene	ND		39.7	44.9		ug/Kg		113	65 - 140
1,2-Dibromo-3-Chloropropane	ND		39.7	46.8		ug/Kg		118	40 - 150
1,2-Dichlorobenzene	ND		39.7	46.3		ug/Kg		117	70 - 130
1,2-Dichloroethane	ND		39.7	42.9		ug/Kg		108	60 - 150
1,2-Dichloropropane	ND		39.7	46.3		ug/Kg		117	65 - 130
1,3,5-Trimethylbenzene	ND		39.7	46.2		ug/Kg		116	65 - 135
1,3-Dichlorobenzene	ND		39.7	45.3		ug/Kg		114	70 - 130
1,3-Dichloropropane	ND		39.7	46.6		ug/Kg		117	65 - 140
1,4-Dichlorobenzene	ND		39.7	45.8		ug/Kg		115	70 - 130
2,2-Dichloropropane	ND		39.7	42.4		ug/Kg		107	65 - 150
2-Butanone (MEK)	ND		39.7	49.1		ug/Kg		124	25 - 170
2-Chlorotoluene	ND		39.7	45.7		ug/Kg		115	60 - 135
2-Hexanone	ND		39.7	39.5		ug/Kg		100	35 - 160
4-Chlorotoluene	ND		39.7	45.8		ug/Kg		116	65 - 135
4-Isopropyltoluene	ND		39.7	45.9		ug/Kg		116	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		39.7	37.3		ug/Kg		94	40 - 155
Benzene	ND		39.7	44.0		ug/Kg		111	65 - 130
Bromobenzene	ND	*	39.7	49.0		ug/Kg		123	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	ND		39.7	49.6		ug/Kg		125	50 - 145
Bromomethane	ND		39.7	35.1		ug/Kg		89	60 - 155
Carbon disulfide	ND		39.7	40.5		ug/Kg		102	40 - 140
Carbon tetrachloride	ND		39.7	45.3		ug/Kg		114	60 - 145
Chlorobenzene	ND		39.7	45.5		ug/Kg		115	70 - 130
Chlorobromomethane	ND		39.7	47.4		ug/Kg		119	65 - 145
Chlorodibromomethane	ND		39.7	47.6		ug/Kg		120	60 - 145
Chloroethane	ND		39.7	33.3		ug/Kg		84	60 - 150
Chloroform	ND		39.7	46.2		ug/Kg		116	65 - 135
Chloromethane	ND		39.7	19.9		ug/Kg		50	40 - 145
cis-1,2-Dichloroethene	ND		39.7	45.8		ug/Kg		116	65 - 135
cis-1,3-Dichloropropene	ND		39.7	49.1		ug/Kg		124	70 - 135
Dibromomethane	ND		39.7	45.6		ug/Kg		115	65 - 140
Dichlorobromomethane	ND		39.7	45.0		ug/Kg		113	65 - 145
Dichlorodifluoromethane	ND		39.7	23.5		ug/Kg		59	30 - 160
Ethylbenzene	ND		39.7	44.6		ug/Kg		113	70 - 135
Ethylene Dibromide	ND		39.7	49.7		ug/Kg		125	65 - 140
Hexachlorobutadiene	ND		39.7	41.9		ug/Kg		106	50 - 145
Isopropylbenzene	ND		39.7	47.1		ug/Kg		119	70 - 145
Methyl tert-butyl ether	ND		39.7	45.7		ug/Kg		115	55 - 155
Methylene Chloride	ND		39.7	44.1		ug/Kg		111	55 - 145
m-Xylene & p-Xylene	ND		39.7	46.6		ug/Kg		117	70 - 130
Naphthalene	ND		39.7	48.9		ug/Kg		123	40 - 150
n-Butylbenzene	ND		39.7	44.5		ug/Kg		112	55 - 145
N-Propylbenzene	ND		39.7	45.9		ug/Kg		116	65 - 140
o-Xylene	ND		39.7	46.6		ug/Kg		117	65 - 130
sec-Butylbenzene	ND		39.7	45.5		ug/Kg		115	60 - 135
Styrene	ND		39.7	44.6		ug/Kg		112	70 - 140
tert-Butylbenzene	ND		39.7	45.0		ug/Kg		113	60 - 140
Tetrachloroethene	ND		39.7	45.1		ug/Kg		114	65 - 135
Toluene	ND		39.7	47.0		ug/Kg		118	70 - 130
trans-1,2-Dichloroethene	ND		39.7	46.3		ug/Kg		117	70 - 135
trans-1,3-Dichloropropene	ND		39.7	48.2		ug/Kg		121	60 - 145
Trichloroethene	ND		39.7	47.2		ug/Kg		119	65 - 140
Trichlorofluoromethane	ND		39.7	34.2		ug/Kg		86	55 - 155
Vinyl acetate	ND	F2 F1	39.7	23.7		ug/Kg		60	40 - 150
Vinyl chloride	ND		39.7	27.8		ug/Kg		70	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: 720-90446-1 MSD
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		45.4	53.3		ug/Kg		118	65 - 145	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-1 MSD
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		45.4	50.8		ug/Kg		112	65 - 145	9	20
1,1,2,2-Tetrachloroethane	ND		45.4	54.9		ug/Kg		121	40 - 160	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		45.4	47.1		ug/Kg		104	60 - 140	7	40
1,1,2-Trichloroethane	ND		45.4	52.3		ug/Kg		115	65 - 140	7	30
1,1-Dichloroethane	ND		45.4	43.8		ug/Kg		97	65 - 135	8	25
1,1-Dichloroethene	ND		45.4	44.7		ug/Kg		98	65 - 135	9	25
1,1-Dichloropropene	ND		45.4	50.9		ug/Kg		112	65 - 135	11	20
1,2,3-Trichlorobenzene	ND		45.4	49.8		ug/Kg		110	45 - 145	6	30
1,2,3-Trichloropropane	ND		45.4	56.8		ug/Kg		125	50 - 150	12	30
1,2,4-Trichlorobenzene	ND		45.4	50.4		ug/Kg		111	50 - 140	8	30
1,2,4-Trimethylbenzene	ND		45.4	51.9		ug/Kg		114	65 - 140	15	25
1,2-Dibromo-3-Chloropropane	ND		45.4	48.4		ug/Kg		107	40 - 150	3	30
1,2-Dichlorobenzene	ND		45.4	51.9		ug/Kg		114	70 - 130	11	25
1,2-Dichloroethane	ND		45.4	45.8		ug/Kg		101	60 - 150	7	25
1,2-Dichloropropane	ND		45.4	49.6		ug/Kg		109	65 - 130	7	20
1,3,5-Trimethylbenzene	ND		45.4	52.0		ug/Kg		115	65 - 135	12	25
1,3-Dichlorobenzene	ND		45.4	52.5		ug/Kg		116	70 - 130	15	25
1,3-Dichloropropane	ND		45.4	50.7		ug/Kg		112	65 - 140	9	25
1,4-Dichlorobenzene	ND		45.4	52.3		ug/Kg		115	70 - 130	13	25
2,2-Dichloropropane	ND		45.4	46.8		ug/Kg		103	65 - 150	10	25
2-Butanone (MEK)	ND		45.4	55.7		ug/Kg		123	25 - 170	12	40
2-Chlorotoluene	ND		45.4	52.1		ug/Kg		115	60 - 135	13	25
2-Hexanone	ND		45.4	40.9		ug/Kg		90	35 - 160	4	40
4-Chlorotoluene	ND		45.4	52.1		ug/Kg		115	65 - 135	13	25
4-Isopropyltoluene	ND		45.4	53.4		ug/Kg		118	60 - 140	15	25
4-Methyl-2-pentanone (MIBK)	ND		45.4	39.8		ug/Kg		88	40 - 155	6	40
Benzene	ND		45.4	48.5		ug/Kg		107	65 - 130	10	20
Bromobenzene	ND	*	45.4	54.9		ug/Kg		121	65 - 140	11	25
Bromoform	ND		45.4	54.5		ug/Kg		120	50 - 145	9	30
Bromomethane	ND		45.4	39.6		ug/Kg		87	60 - 155	12	25
Carbon disulfide	ND		45.4	42.5		ug/Kg		94	40 - 140	5	20
Carbon tetrachloride	ND		45.4	48.9		ug/Kg		108	60 - 145	8	25
Chlorobenzene	ND		45.4	49.2		ug/Kg		108	70 - 130	8	25
Chlorobromomethane	ND		45.4	52.2		ug/Kg		115	65 - 145	10	25
Chlorodibromomethane	ND		45.4	50.8		ug/Kg		112	60 - 145	7	25
Chloroethane	ND		45.4	35.5		ug/Kg		78	60 - 150	6	25
Chloroform	ND		45.4	49.5		ug/Kg		109	65 - 135	7	20
Chloromethane	ND		45.4	22.0		ug/Kg		48	40 - 145	10	25
cis-1,2-Dichloroethene	ND		45.4	48.5		ug/Kg		107	65 - 135	6	25
cis-1,3-Dichloropropene	ND		45.4	52.3		ug/Kg		115	70 - 135	6	25
Dibromomethane	ND		45.4	50.0		ug/Kg		110	65 - 140	9	25
Dichlorobromomethane	ND		45.4	48.9		ug/Kg		108	65 - 145	8	20
Dichlorodifluoromethane	ND		45.4	25.3		ug/Kg		56	30 - 160	8	35
Ethylbenzene	ND		45.4	48.6		ug/Kg		107	70 - 135	8	25
Ethylene Dibromide	ND		45.4	53.3		ug/Kg		117	65 - 140	7	25
Hexachlorobutadiene	ND		45.4	49.5		ug/Kg		109	50 - 145	17	35
Isopropylbenzene	ND		45.4	50.3		ug/Kg		111	70 - 145	7	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-1 MSD
Matrix: Solid
Analysis Batch: 518870

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		45.4	51.6		ug/Kg		114	55 - 155	12	35
Methylene Chloride	ND		45.4	48.4		ug/Kg		107	55 - 145	9	25
m-Xylene & p-Xylene	ND		45.4	49.3		ug/Kg		109	70 - 130	6	25
Naphthalene	ND		45.4	52.9		ug/Kg		117	40 - 150	8	40
n-Butylbenzene	ND		45.4	50.4		ug/Kg		111	55 - 145	12	30
N-Propylbenzene	ND		45.4	52.6		ug/Kg		116	65 - 140	14	25
o-Xylene	ND		45.4	49.4		ug/Kg		109	65 - 130	6	25
sec-Butylbenzene	ND		45.4	52.7		ug/Kg		116	60 - 135	15	25
Styrene	ND		45.4	47.9		ug/Kg		105	70 - 140	7	25
tert-Butylbenzene	ND		45.4	52.6		ug/Kg		116	60 - 140	15	25
Tetrachloroethene	ND		45.4	48.0		ug/Kg		106	65 - 135	6	25
Toluene	ND		45.4	50.0		ug/Kg		110	70 - 130	6	20
trans-1,2-Dichloroethene	ND		45.4	50.0		ug/Kg		110	70 - 135	8	25
trans-1,3-Dichloropropene	ND		45.4	50.0		ug/Kg		110	60 - 145	4	25
Trichloroethene	ND		45.4	52.2		ug/Kg		115	65 - 140	10	25
Trichlorofluoromethane	ND		45.4	36.7		ug/Kg		81	55 - 155	7	25
Vinyl acetate	ND	F2 F1	45.4	14.8	F4 F1	ug/Kg		33	40 - 150	46	30
Vinyl chloride	ND		45.4	28.7		ug/Kg		63	55 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		53.2	54.9		ug/Kg		103	65 - 145
1,1,1-Trichloroethane	ND		53.2	53.8		ug/Kg		101	65 - 145
1,1,2,2-Tetrachloroethane	ND		53.2	47.2		ug/Kg		89	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		53.2	53.7		ug/Kg		101	60 - 140
1,1,2-Trichloroethane	ND		53.2	58.1		ug/Kg		109	65 - 140
1,1-Dichloroethane	ND		53.2	55.3		ug/Kg		104	65 - 135
1,1-Dichloroethene	ND		53.2	57.8		ug/Kg		109	65 - 135
1,1-Dichloropropene	ND		53.2	56.5		ug/Kg		106	65 - 135
1,2,3-Trichlorobenzene	ND		53.2	45.9		ug/Kg		86	45 - 145
1,2,3-Trichloropropane	ND		53.2	52.4		ug/Kg		99	50 - 150
1,2,4-Trichlorobenzene	ND		53.2	45.8		ug/Kg		86	50 - 140
1,2,4-Trimethylbenzene	ND		53.2	48.4		ug/Kg		91	65 - 140
1,2-Dibromo-3-Chloropropane	ND		53.2	44.4		ug/Kg		84	40 - 150
1,2-Dichlorobenzene	ND		53.2	51.5		ug/Kg		97	70 - 130
1,2-Dichloroethane	ND		53.2	58.2		ug/Kg		109	60 - 150
1,2-Dichloropropane	ND		53.2	55.6		ug/Kg		105	65 - 130
1,3,5-Trimethylbenzene	ND		53.2	47.1		ug/Kg		89	65 - 135
1,3-Dichlorobenzene	ND		53.2	51.3		ug/Kg		96	70 - 130
1,3-Dichloropropane	ND		53.2	53.4		ug/Kg		100	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND		53.2	51.1		ug/Kg		96	70 - 130
2,2-Dichloropropane	ND		53.2	52.1		ug/Kg		98	65 - 150
2-Butanone (MEK)	ND		53.2	49.5		ug/Kg		93	25 - 170
2-Chlorotoluene	ND		53.2	48.7		ug/Kg		92	60 - 135
2-Hexanone	ND		53.2	51.2		ug/Kg		96	35 - 160
4-Chlorotoluene	ND		53.2	49.5		ug/Kg		93	65 - 135
4-Isopropyltoluene	ND		53.2	48.1		ug/Kg		90	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		53.2	59.3		ug/Kg		111	40 - 155
Benzene	ND		53.2	52.3		ug/Kg		98	65 - 130
Bromobenzene	ND		53.2	57.1		ug/Kg		107	65 - 140
Bromoform	ND		53.2	56.8		ug/Kg		107	50 - 145
Bromomethane	ND		53.2	49.8		ug/Kg		94	60 - 155
Carbon disulfide	ND		53.2	53.9		ug/Kg		101	40 - 140
Carbon tetrachloride	ND		53.2	55.9		ug/Kg		105	60 - 145
Chlorobenzene	ND		53.2	50.6		ug/Kg		95	70 - 130
Chlorobromomethane	ND		53.2	55.3		ug/Kg		104	65 - 145
Chlorodibromomethane	ND		53.2	59.2		ug/Kg		111	60 - 145
Chloroethane	ND		53.2	48.8		ug/Kg		92	60 - 150
Chloroform	ND		53.2	52.6		ug/Kg		99	65 - 135
Chloromethane	ND	F2	53.2	47.4		ug/Kg		89	40 - 145
cis-1,2-Dichloroethene	ND		53.2	54.4		ug/Kg		102	65 - 135
cis-1,3-Dichloropropene	ND		53.2	57.7		ug/Kg		108	70 - 135
Dibromomethane	ND		53.2	58.6		ug/Kg		110	65 - 140
Dichlorobromomethane	ND		53.2	57.1		ug/Kg		107	65 - 145
Dichlorodifluoromethane	ND	F2	53.2	44.9		ug/Kg		84	30 - 160
Ethylbenzene	ND		53.2	49.9		ug/Kg		94	70 - 135
Ethylene Dibromide	ND		53.2	56.3		ug/Kg		106	65 - 140
Hexachlorobutadiene	ND		53.2	42.5		ug/Kg		80	50 - 145
Isopropylbenzene	ND		53.2	49.7		ug/Kg		93	70 - 145
Methyl tert-butyl ether	ND		53.2	54.6		ug/Kg		103	55 - 155
Methylene Chloride	ND		53.2	50.9		ug/Kg		96	55 - 145
m-Xylene & p-Xylene	ND		53.2	51.4		ug/Kg		97	70 - 130
Naphthalene	ND		53.2	43.0		ug/Kg		81	40 - 150
n-Butylbenzene	ND		53.2	46.7		ug/Kg		88	55 - 145
N-Propylbenzene	ND		53.2	48.9		ug/Kg		92	65 - 140
o-Xylene	ND		53.2	50.2		ug/Kg		94	65 - 130
sec-Butylbenzene	ND		53.2	47.1		ug/Kg		89	60 - 135
Styrene	ND		53.2	46.9		ug/Kg		88	70 - 140
tert-Butylbenzene	ND		53.2	47.5		ug/Kg		89	60 - 140
Tetrachloroethene	ND		53.2	58.2		ug/Kg		109	65 - 135
Toluene	ND		53.2	51.1		ug/Kg		96	70 - 130
trans-1,2-Dichloroethene	ND		53.2	54.4		ug/Kg		102	70 - 135
trans-1,3-Dichloropropene	ND		53.2	56.7		ug/Kg		107	60 - 145
Trichloroethene	ND		53.2	59.3		ug/Kg		112	65 - 140
Trichlorofluoromethane	ND		53.2	51.0		ug/Kg		96	55 - 155
Vinyl acetate	ND	F1 F2	53.2	26.9		ug/Kg		51	40 - 150
Vinyl chloride	ND		53.2	48.7		ug/Kg		92	55 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*
Toluene-d8 (Surr)	*104*		*79 - 123*

Lab Sample ID: 720-90446-7 MSD
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		52.1	53.2		ug/Kg		102	65 - 145	3	20
1,1,1-Trichloroethane	ND		52.1	52.1		ug/Kg		100	65 - 145	3	20
1,1,2,2-Tetrachloroethane	ND		52.1	52.4		ug/Kg		101	40 - 160	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		52.1	49.0		ug/Kg		94	60 - 140	9	40
1,1,2-Trichloroethane	ND		52.1	60.8		ug/Kg		117	65 - 140	5	30
1,1-Dichloroethane	ND		52.1	51.3		ug/Kg		98	65 - 135	8	25
1,1-Dichloroethene	ND		52.1	53.6		ug/Kg		103	65 - 135	8	25
1,1-Dichloropropene	ND		52.1	56.0		ug/Kg		108	65 - 135	1	20
1,2,3-Trichlorobenzene	ND		52.1	51.6		ug/Kg		99	45 - 145	12	30
1,2,3-Trichloropropane	ND		52.1	55.3		ug/Kg		106	50 - 150	5	30
1,2,4-Trichlorobenzene	ND		52.1	50.3		ug/Kg		97	50 - 140	9	30
1,2,4-Trimethylbenzene	ND		52.1	49.5		ug/Kg		95	65 - 140	2	25
1,2-Dibromo-3-Chloropropane	ND		52.1	51.0		ug/Kg		98	40 - 150	14	30
1,2-Dichlorobenzene	ND		52.1	53.7		ug/Kg		103	70 - 130	4	25
1,2-Dichloroethane	ND		52.1	57.8		ug/Kg		111	60 - 150	1	25
1,2-Dichloropropane	ND		52.1	57.5		ug/Kg		110	65 - 130	3	20
1,3,5-Trimethylbenzene	ND		52.1	49.4		ug/Kg		95	65 - 135	5	25
1,3-Dichlorobenzene	ND		52.1	51.4		ug/Kg		99	70 - 130	0	25
1,3-Dichloropropane	ND		52.1	56.3		ug/Kg		108	65 - 140	5	25
1,4-Dichlorobenzene	ND		52.1	52.1		ug/Kg		100	70 - 130	2	25
2,2-Dichloropropane	ND		52.1	52.4		ug/Kg		101	65 - 150	1	25
2-Butanone (MEK)	ND		52.1	57.9		ug/Kg		111	25 - 170	16	40
2-Chlorotoluene	ND		52.1	47.6		ug/Kg		91	60 - 135	2	25
2-Hexanone	ND		52.1	56.1		ug/Kg		108	35 - 160	9	40
4-Chlorotoluene	ND		52.1	49.4		ug/Kg		95	65 - 135	0	25
4-Isopropyltoluene	ND		52.1	48.8		ug/Kg		94	60 - 140	1	25
4-Methyl-2-pentanone (MIBK)	ND		52.1	60.1		ug/Kg		115	40 - 155	1	40
Benzene	ND		52.1	53.5		ug/Kg		103	65 - 130	2	20
Bromobenzene	ND		52.1	56.6		ug/Kg		109	65 - 140	1	25
Bromoform	ND		52.1	57.1		ug/Kg		110	50 - 145	1	30
Bromomethane	ND		52.1	41.3		ug/Kg		79	60 - 155	19	25
Carbon disulfide	ND		52.1	46.6		ug/Kg		89	40 - 140	15	20
Carbon tetrachloride	ND		52.1	54.0		ug/Kg		104	60 - 145	4	25
Chlorobenzene	ND		52.1	49.9		ug/Kg		96	70 - 130	1	25
Chlorobromomethane	ND		52.1	57.0		ug/Kg		109	65 - 145	3	25
Chlorodibromomethane	ND		52.1	58.5		ug/Kg		112	60 - 145	1	25
Chloroethane	ND		52.1	44.4		ug/Kg		85	60 - 150	9	25
Chloroform	ND		52.1	53.2		ug/Kg		102	65 - 135	1	20
Chloromethane	ND	F2	52.1	32.3	F2	ug/Kg		62	40 - 145	38	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90446-7 MSD
Matrix: Solid
Analysis Batch: 518877

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		52.1	54.1		ug/Kg		104	65 - 135	1	25
cis-1,3-Dichloropropene	ND		52.1	58.4		ug/Kg		112	70 - 135	1	25
Dibromomethane	ND		52.1	60.1		ug/Kg		115	65 - 140	3	25
Dichlorobromomethane	ND		52.1	56.7		ug/Kg		109	65 - 145	1	20
Dichlorodifluoromethane	ND	F2	52.1	27.1	F2	ug/Kg		52	30 - 160	50	35
Ethylbenzene	ND		52.1	50.4		ug/Kg		97	70 - 135	1	25
Ethylene Dibromide	ND		52.1	58.2		ug/Kg		112	65 - 140	3	25
Hexachlorobutadiene	ND		52.1	44.0		ug/Kg		84	50 - 145	4	35
Isopropylbenzene	ND		52.1	50.0		ug/Kg		96	70 - 145	1	25
Methyl tert-butyl ether	ND		52.1	55.4		ug/Kg		106	55 - 155	1	35
Methylene Chloride	ND		52.1	51.4		ug/Kg		99	55 - 145	1	25
m-Xylene & p-Xylene	ND		52.1	51.9		ug/Kg		100	70 - 130	1	25
Naphthalene	ND		52.1	49.5		ug/Kg		95	40 - 150	14	40
n-Butylbenzene	ND		52.1	48.5		ug/Kg		93	55 - 145	4	30
N-Propylbenzene	ND		52.1	49.9		ug/Kg		96	65 - 140	2	25
o-Xylene	ND		52.1	49.7		ug/Kg		95	65 - 130	1	25
sec-Butylbenzene	ND		52.1	46.8		ug/Kg		90	60 - 135	1	25
Styrene	ND		52.1	48.5		ug/Kg		93	70 - 140	3	25
tert-Butylbenzene	ND		52.1	48.1		ug/Kg		92	60 - 140	1	25
Tetrachloroethene	ND		52.1	58.0		ug/Kg		111	65 - 135	0	25
Toluene	ND		52.1	50.1		ug/Kg		96	70 - 130	2	20
trans-1,2-Dichloroethene	ND		52.1	54.0		ug/Kg		104	70 - 135	1	25
trans-1,3-Dichloropropene	ND		52.1	58.5		ug/Kg		112	60 - 145	3	25
Trichloroethene	ND		52.1	59.0		ug/Kg		113	65 - 140	1	25
Trichlorofluoromethane	ND		52.1	41.9		ug/Kg		80	55 - 155	20	25
Vinyl acetate	ND	F1 F2	52.1	17.6	F1 F2	ug/Kg		34	40 - 150	42	30
Vinyl chloride	ND		52.1	36.4		ug/Kg		70	55 - 140	29	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: MB 440-519008/4
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/24/18 08:24	1
Benzene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519008/4
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/24/18 08:24	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/24/18 08:24	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Chloroform	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
2-Hexanone	ND		10	5.0	ug/Kg			12/24/18 08:24	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/24/18 08:24	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/24/18 08:24	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Styrene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/24/18 08:24	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Toluene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/24/18 08:24	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/24/18 08:24	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519008/4
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/24/18 08:24	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/24/18 08:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/24/18 08:24	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/24/18 08:24	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/24/18 08:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/24/18 08:24*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*		*12/24/18 08:24*	*1*

Lab Sample ID: LCS 440-519008/5
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	52.4		ug/Kg		105	75 - 120
1,3-Dichlorobenzene	50.0	50.8		ug/Kg		102	75 - 125
1,4-Dichlorobenzene	50.0	51.1		ug/Kg		102	75 - 120
2-Chlorotoluene	50.0	48.5		ug/Kg		97	70 - 125
1,3-Dichloropropane	50.0	53.2		ug/Kg		106	70 - 125
1,1-Dichloropropene	50.0	56.3		ug/Kg		113	70 - 130
4-Chlorotoluene	50.0	50.1		ug/Kg		100	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	46.4		ug/Kg		93	50 - 135
Benzene	50.0	54.0		ug/Kg		108	65 - 120
Bromobenzene	50.0	56.1		ug/Kg		112	75 - 120
1,1-Dichloroethane	50.0	52.7		ug/Kg		105	70 - 130
Bromoform	50.0	53.9		ug/Kg		108	55 - 135
1,2-Dichloroethane	50.0	51.9		ug/Kg		104	60 - 140
Bromomethane	50.0	49.3		ug/Kg		99	60 - 145
1,1-Dichloroethene	50.0	59.4		ug/Kg		119	70 - 125
Carbon disulfide	50.0	55.6		ug/Kg		111	50 - 130
Carbon tetrachloride	50.0	51.3		ug/Kg		103	65 - 140
Chlorobenzene	50.0	50.7		ug/Kg		101	75 - 120
1,2-Dichloropropane	50.0	55.7		ug/Kg		111	70 - 130
Chlorobromomethane	50.0	55.8		ug/Kg		112	70 - 135
Chlorodibromomethane	50.0	55.5		ug/Kg		111	65 - 140
Chloroethane	50.0	51.0		ug/Kg		102	60 - 140
Chloroform	50.0	50.1		ug/Kg		100	70 - 130
Chloromethane	50.0	50.0		ug/Kg		100	45 - 145
2-Hexanone	50.0	53.2		ug/Kg		106	40 - 150
cis-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	70 - 125
cis-1,3-Dichloropropene	50.0	57.1		ug/Kg		114	75 - 125
4-Isopropyltoluene	50.0	48.4		ug/Kg		97	75 - 125
Dibromomethane	50.0	56.5		ug/Kg		113	70 - 130
Dichlorobromomethane	50.0	51.7		ug/Kg		103	70 - 135
Dichlorodifluoromethane	50.0	49.7		ug/Kg		99	35 - 160
Ethylbenzene	50.0	50.4		ug/Kg		101	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519008/5
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	43.1		ug/Kg		86	60 - 135
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/Kg		104	70 - 130
Isopropylbenzene	50.0	49.5		ug/Kg		99	75 - 130
1,1,2,2-Tetrachloroethane	50.0	51.9		ug/Kg		104	55 - 140
Methyl tert-butyl ether	50.0	52.0		ug/Kg		104	60 - 140
Methylene Chloride	50.0	52.9		ug/Kg		106	55 - 135
1,2,3-Trichlorobenzene	50.0	44.6		ug/Kg		89	60 - 130
Naphthalene	50.0	44.5		ug/Kg		89	55 - 135
1,2,4-Trichlorobenzene	50.0	44.9		ug/Kg		90	70 - 135
n-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 130
1,1,1-Trichloroethane	50.0	51.5		ug/Kg		103	65 - 135
N-Propylbenzene	50.0	51.2		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	57.8		ug/Kg		116	65 - 135
sec-Butylbenzene	50.0	46.8		ug/Kg		94	70 - 125
Styrene	50.0	47.8		ug/Kg		96	75 - 130
1,2,3-Trichloropropane	50.0	52.0		ug/Kg		104	60 - 135
tert-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 125
Tetrachloroethene	50.0	57.7		ug/Kg		115	70 - 125
1,2,4-Trimethylbenzene	50.0	48.6		ug/Kg		97	70 - 125
Toluene	50.0	51.4		ug/Kg		103	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.1		ug/Kg		106	60 - 140
1,3,5-Trimethylbenzene	50.0	49.1		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	50.0	56.8		ug/Kg		114	70 - 125
trans-1,3-Dichloropropene	50.0	53.2		ug/Kg		106	70 - 135
m-Xylene & p-Xylene	50.0	52.3		ug/Kg		105	70 - 125
Trichloroethene	50.0	58.2		ug/Kg		116	70 - 125
Ethylene Dibromide	50.0	54.3		ug/Kg		109	70 - 130
o-Xylene	50.0	51.4		ug/Kg		103	70 - 125
Trichlorofluoromethane	50.0	47.2		ug/Kg		94	60 - 145
2-Butanone (MEK)	50.0	51.8		ug/Kg		104	40 - 145
Vinyl acetate	50.0	55.7		ug/Kg		111	45 - 145
4-Methyl-2-pentanone (MIBK)	50.0	60.6		ug/Kg		121	40 - 145
Vinyl chloride	50.0	51.4		ug/Kg		103	55 - 135
2,2-Dichloropropane	50.0	50.5		ug/Kg		101	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MS
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		49.1	56.4		ug/Kg		115	70 - 130
1,3-Dichlorobenzene	ND		49.1	54.3		ug/Kg		111	70 - 130
1,4-Dichlorobenzene	ND		49.1	55.3		ug/Kg		113	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228365-A-1 MS
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		49.1	49.5		ug/Kg		101	60 - 135
1,3-Dichloropropane	ND		49.1	56.3		ug/Kg		115	65 - 140
1,1-Dichloropropene	ND		49.1	56.9		ug/Kg		116	65 - 135
4-Chlorotoluene	ND		49.1	51.8		ug/Kg		105	65 - 135
1,2-Dibromo-3-Chloropropane	ND	F2	49.1	53.8		ug/Kg		110	40 - 150
Benzene	ND		49.1	52.2		ug/Kg		106	65 - 130
Bromobenzene	ND		49.1	59.0		ug/Kg		120	65 - 140
1,1-Dichloroethane	24		49.1	84.5		ug/Kg		124	65 - 135
Bromoform	ND		49.1	60.7		ug/Kg		124	50 - 145
1,2-Dichloroethane	ND		49.1	52.8		ug/Kg		108	60 - 150
Bromomethane	ND		49.1	46.7		ug/Kg		95	60 - 155
1,1-Dichloroethene	4.6		49.1	70.0		ug/Kg		133	65 - 135
Carbon disulfide	ND		49.1	53.3		ug/Kg		108	40 - 140
Carbon tetrachloride	ND		49.1	53.2		ug/Kg		108	60 - 145
Chlorobenzene	ND		49.1	52.8		ug/Kg		108	70 - 130
1,2-Dichloropropane	ND		49.1	56.8		ug/Kg		116	65 - 130
Chlorobromomethane	ND		49.1	54.2		ug/Kg		110	65 - 145
Chlorodibromomethane	ND		49.1	58.9		ug/Kg		120	60 - 145
Chloroethane	ND		49.1	49.3		ug/Kg		100	60 - 150
Chloroform	ND		49.1	48.3		ug/Kg		98	65 - 135
Chloromethane	ND		49.1	44.4		ug/Kg		90	40 - 145
2-Hexanone	ND		49.1	64.6		ug/Kg		131	35 - 160
cis-1,2-Dichloroethene	40	F1	49.1	107	F1	ug/Kg		137	65 - 135
cis-1,3-Dichloropropene	ND		49.1	58.9		ug/Kg		120	70 - 135
4-Isopropyltoluene	ND		49.1	50.6		ug/Kg		103	60 - 140
Dibromomethane	ND		49.1	57.9		ug/Kg		118	65 - 140
Dichlorobromomethane	ND		49.1	52.2		ug/Kg		106	65 - 145
Dichlorodifluoromethane	ND		49.1	40.4		ug/Kg		82	30 - 160
Ethylbenzene	ND		49.1	53.5		ug/Kg		109	70 - 135
Hexachlorobutadiene	ND		49.1	41.6		ug/Kg		85	50 - 145
1,1,1,2-Tetrachloroethane	ND		49.1	54.4		ug/Kg		111	65 - 145
Isopropylbenzene	ND		49.1	52.9		ug/Kg		108	70 - 145
1,1,2,2-Tetrachloroethane	ND	F1	49.1	ND	F1	ug/Kg		0	40 - 160
Methyl tert-butyl ether	ND		49.1	51.0		ug/Kg		104	55 - 155
Methylene Chloride	64	F2 F1	49.1	141	F1	ug/Kg		157	55 - 145
1,2,3-Trichlorobenzene	ND		49.1	50.5		ug/Kg		103	45 - 145
Naphthalene	ND		49.1	55.7		ug/Kg		113	40 - 150
1,2,4-Trichlorobenzene	ND		49.1	51.3		ug/Kg		104	50 - 140
n-Butylbenzene	ND		49.1	49.3		ug/Kg		100	55 - 145
1,1,1-Trichloroethane	4.6		49.1	58.7		ug/Kg		110	65 - 145
N-Propylbenzene	ND		49.1	52.9		ug/Kg		108	65 - 140
1,1,2-Trichloroethane	ND		49.1	56.2		ug/Kg		115	65 - 140
sec-Butylbenzene	ND		49.1	49.7		ug/Kg		101	60 - 135
Styrene	ND		49.1	50.7		ug/Kg		103	70 - 140
1,2,3-Trichloropropane	ND		49.1	58.0		ug/Kg		118	50 - 150
tert-Butylbenzene	ND		49.1	49.1		ug/Kg		100	60 - 140
Tetrachloroethene	4.4		49.1	67.0		ug/Kg		127	65 - 135
1,2,4-Trimethylbenzene	1.2	J	49.1	52.7		ug/Kg		105	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228365-A-1 MS
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.99	J	49.1	55.5		ug/Kg		111	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.1	52.2		ug/Kg		106	60 - 140
1,3,5-Trimethylbenzene	ND		49.1	51.2		ug/Kg		104	65 - 135
trans-1,2-Dichloroethene	ND		49.1	56.0		ug/Kg		114	70 - 135
trans-1,3-Dichloropropene	ND		49.1	58.2		ug/Kg		119	60 - 145
m-Xylene & p-Xylene	ND		49.1	55.7		ug/Kg		113	70 - 130
Trichloroethene	5.0	F1	49.1	107	F1	ug/Kg		207	65 - 140
Ethylene Dibromide	ND		49.1	60.2		ug/Kg		123	65 - 140
o-Xylene	ND		49.1	53.2		ug/Kg		108	65 - 130
Trichlorofluoromethane	ND		49.1	46.6		ug/Kg		95	55 - 155
2-Butanone (MEK)	47		49.1	113		ug/Kg		134	25 - 170
Vinyl acetate	ND	F1	49.1	ND	F1	ug/Kg		0	40 - 150
4-Methyl-2-pentanone (MIBK)	20	F1	49.1	99.6	F1	ug/Kg		162	40 - 155
Vinyl chloride	ND		49.1	48.4		ug/Kg		99	55 - 140
2,2-Dichloropropane	ND		49.1	51.5		ug/Kg		105	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*109*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MSD
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		49.0	45.3		ug/Kg		92	70 - 130	22	25
1,3-Dichlorobenzene	ND		49.0	43.1		ug/Kg		88	70 - 130	23	25
1,4-Dichlorobenzene	ND		49.0	44.4		ug/Kg		91	70 - 130	22	25
2-Chlorotoluene	ND		49.0	41.2		ug/Kg		84	60 - 135	18	25
1,3-Dichloropropane	ND		49.0	47.9		ug/Kg		98	65 - 140	16	25
1,1-Dichloropropene	ND		49.0	48.1		ug/Kg		98	65 - 135	17	20
4-Chlorotoluene	ND		49.0	41.5		ug/Kg		85	65 - 135	22	25
1,2-Dibromo-3-Chloropropane	ND	F2	49.0	38.0	F2	ug/Kg		77	40 - 150	35	30
Benzene	ND		49.0	45.3		ug/Kg		92	65 - 130	14	20
Bromobenzene	ND		49.0	46.6		ug/Kg		95	65 - 140	24	25
1,1-Dichloroethane	24		49.0	66.8		ug/Kg		88	65 - 135	23	25
Bromoform	ND		49.0	49.6		ug/Kg		101	50 - 145	20	30
1,2-Dichloroethane	ND		49.0	45.0		ug/Kg		92	60 - 150	16	25
Bromomethane	ND		49.0	39.5		ug/Kg		81	60 - 155	17	25
1,1-Dichloroethene	4.6		49.0	59.3		ug/Kg		111	65 - 135	17	25
Carbon disulfide	ND		49.0	44.3		ug/Kg		90	40 - 140	18	20
Carbon tetrachloride	ND		49.0	45.0		ug/Kg		92	60 - 145	17	25
Chlorobenzene	ND		49.0	44.5		ug/Kg		91	70 - 130	17	25
1,2-Dichloropropane	ND		49.0	48.8		ug/Kg		99	65 - 130	15	20
Chlorobromomethane	ND		49.0	46.2		ug/Kg		94	65 - 145	16	25
Chlorodibromomethane	ND		49.0	47.6		ug/Kg		97	60 - 145	21	25
Chloroethane	ND		49.0	42.4		ug/Kg		86	60 - 150	15	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228365-A-1 MSD
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		49.0	41.4		ug/Kg		84	65 - 135	15	20
Chloromethane	ND		49.0	39.0		ug/Kg		80	40 - 145	13	25
2-Hexanone	ND		49.0	53.3		ug/Kg		109	35 - 160	19	40
cis-1,2-Dichloroethene	40	F1	49.0	87.0		ug/Kg		95	65 - 135	21	25
cis-1,3-Dichloropropene	ND		49.0	50.1		ug/Kg		102	70 - 135	16	25
4-Isopropyltoluene	ND		49.0	39.9		ug/Kg		81	60 - 140	24	25
Dibromomethane	ND		49.0	49.1		ug/Kg		100	65 - 140	16	25
Dichlorobromomethane	ND		49.0	44.1		ug/Kg		90	65 - 145	17	20
Dichlorodifluoromethane	ND		49.0	33.3		ug/Kg		68	30 - 160	19	35
Ethylbenzene	ND		49.0	43.8		ug/Kg		89	70 - 135	20	25
Hexachlorobutadiene	ND		49.0	30.4		ug/Kg		62	50 - 145	31	35
1,1,1,2-Tetrachloroethane	ND		49.0	46.4		ug/Kg		95	65 - 145	16	20
Isopropylbenzene	ND		49.0	43.1		ug/Kg		88	70 - 145	20	25
1,1,2,2-Tetrachloroethane	ND	F1	49.0	ND	F1	ug/Kg		0	40 - 160	NC	30
Methyl tert-butyl ether	ND		49.0	43.5		ug/Kg		89	55 - 155	16	35
Methylene Chloride	64	F2 F1	49.0	108	F2	ug/Kg		90	55 - 145	26	25
1,2,3-Trichlorobenzene	ND		49.0	39.5		ug/Kg		80	45 - 145	25	30
Naphthalene	ND		49.0	41.5		ug/Kg		85	40 - 150	29	40
1,2,4-Trichlorobenzene	ND		49.0	39.2		ug/Kg		80	50 - 140	27	30
n-Butylbenzene	ND		49.0	39.0		ug/Kg		80	55 - 145	23	30
1,1,1-Trichloroethane	4.6		49.0	48.4		ug/Kg		89	65 - 145	19	20
N-Propylbenzene	ND		49.0	43.1		ug/Kg		88	65 - 140	20	25
1,1,2-Trichloroethane	ND		49.0	45.1		ug/Kg		92	65 - 140	22	30
sec-Butylbenzene	ND		49.0	39.6		ug/Kg		81	60 - 135	23	25
Styrene	ND		49.0	42.3		ug/Kg		86	70 - 140	18	25
1,2,3-Trichloropropane	ND		49.0	48.2		ug/Kg		98	50 - 150	19	30
tert-Butylbenzene	ND		49.0	39.3		ug/Kg		80	60 - 140	22	25
Tetrachloroethene	4.4		49.0	56.3		ug/Kg		106	65 - 135	17	25
1,2,4-Trimethylbenzene	1.2	J	49.0	42.2		ug/Kg		84	65 - 140	22	25
Toluene	0.99	J	49.0	45.3		ug/Kg		90	70 - 130	20	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.0	44.3		ug/Kg		90	60 - 140	16	40
1,3,5-Trimethylbenzene	ND		49.0	41.1		ug/Kg		84	65 - 135	22	25
trans-1,2-Dichloroethene	ND		49.0	49.0		ug/Kg		100	70 - 135	13	25
trans-1,3-Dichloropropene	ND		49.0	48.2		ug/Kg		98	60 - 145	19	25
m-Xylene & p-Xylene	ND		49.0	46.3		ug/Kg		94	70 - 130	18	25
Trichloroethene	5.0	F1	49.0	91.5	F1	ug/Kg		176	65 - 140	15	25
Ethylene Dibromide	ND		49.0	48.4		ug/Kg		99	65 - 140	22	25
o-Xylene	ND		49.0	45.0		ug/Kg		92	65 - 130	17	25
Trichlorofluoromethane	ND		49.0	39.6		ug/Kg		81	55 - 155	16	25
2-Butanone (MEK)	47		49.0	86.4		ug/Kg		80	25 - 170	27	40
Vinyl acetate	ND	F1	49.0	ND	F1	ug/Kg		0	40 - 150	NC	30
4-Methyl-2-pentanone (MIBK)	20	F1	49.0	77.3		ug/Kg		117	40 - 155	25	40
Vinyl chloride	ND		49.0	42.0		ug/Kg		86	55 - 140	14	30
2,2-Dichloropropane	ND		49.0	44.8		ug/Kg		91	65 - 150	14	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228365-A-1 MSD
Matrix: Solid
Analysis Batch: 519008

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	107		79 - 123

Lab Sample ID: MB 440-519967/4
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			12/29/18 08:27	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 08:27	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 08:27	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 08:27	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 08:27	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 08:27	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 08:27	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 08:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 08:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519967/4
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 08:27	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 08:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 08:27	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 08:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 08:27	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 08:27	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/29/18 08:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 08:27*	*1*

Lab Sample ID: LCS 440-519967/5
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	21.8		ug/L		87	10 - 150
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	25.9		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
2-Chlorotoluene	25.0	27.2		ug/L		109	70 - 130
1,3-Dichloropropane	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
4-Chlorotoluene	25.0	26.8		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.4		ug/L		94	52 - 140
Benzene	25.0	23.8		ug/L		95	68 - 130
Bromobenzene	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloroethane	25.0	23.9		ug/L		95	64 - 130
Bromoform	25.0	29.0		ug/L		116	60 - 148

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519967/5
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	22.9		ug/L		92	57 - 138
Bromomethane	25.0	23.5		ug/L		94	64 - 139
1,1-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	52 - 136
Carbon tetrachloride	25.0	26.5		ug/L		106	60 - 150
Chlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,2-Dichloropropane	25.0	24.0		ug/L		96	67 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	25.0	28.0		ug/L		112	69 - 145
Chloroethane	25.0	21.3		ug/L		85	64 - 135
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	21.4		ug/L		85	47 - 140
2-Hexanone	25.0	22.2		ug/L		89	10 - 150
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 133
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 133
4-Isopropyltoluene	25.0	27.7		ug/L		111	70 - 132
Dibromomethane	25.0	25.8		ug/L		103	70 - 130
Dichlorobromomethane	25.0	26.8		ug/L		107	70 - 132
Dichlorodifluoromethane	25.0	21.9		ug/L		88	29 - 150
Ethylbenzene	25.0	24.8		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	27.8		ug/L		111	10 - 150
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	60 - 141
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 136
1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		104	63 - 130
Methyl tert-butyl ether	25.0	23.3		ug/L		93	63 - 131
Methylene Chloride	25.0	23.0		ug/L		92	52 - 130
1,2,3-Trichlorobenzene	25.0	26.6		ug/L		106	60 - 140
Naphthalene	25.0	26.0		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	60 - 140
n-Butylbenzene	25.0	28.6		ug/L		114	65 - 150
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
N-Propylbenzene	25.0	27.9		ug/L		111	67 - 139
1,1,2-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
sec-Butylbenzene	25.0	28.0		ug/L		112	70 - 138
Styrene	25.0	25.8		ug/L		103	70 - 134
1,2,3-Trichloropropane	25.0	24.6		ug/L		98	63 - 130
tert-Butylbenzene	25.0	27.6		ug/L		110	70 - 130
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	25.0	27.8		ug/L		111	70 - 135
Toluene	25.0	24.6		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0		ug/L		100	60 - 140
1,3,5-Trimethylbenzene	25.0	28.0		ug/L		112	70 - 136
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 132
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 130
Trichloroethene	25.0	25.1		ug/L		100	70 - 130
Ethylene Dibromide	25.0	26.5		ug/L		106	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519967/5
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			25.0	26.1		ug/L		104	70 - 130		
Trichlorofluoromethane			25.0	26.5		ug/L		106	60 - 150		
2-Butanone (MEK)			25.0	27.2		ug/L		109	44 - 150		
Vinyl acetate			25.0	24.7		ug/L		99	48 - 140		
4-Methyl-2-pentanone (MIBK)			25.0	23.4		ug/L		93	59 - 149		
Vinyl chloride			25.0	23.6		ug/L		94	59 - 133		
2,2-Dichloropropane			25.0	27.1		ug/L		108	68 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-90445-B-8 MS
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	ND		25.0	24.7		ug/L		99	10 - 150		
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130		
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130		
1,4-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130		
2-Chlorotoluene	ND		25.0	27.5		ug/L		110	70 - 130		
1,3-Dichloropropane	ND		25.0	25.3		ug/L		101	70 - 130		
1,1-Dichloropropene	ND		25.0	25.0		ug/L		100	64 - 130		
4-Chlorotoluene	ND		25.0	27.1		ug/L		108	70 - 130		
1,2-Dibromo-3-Chloropropane	ND		25.0	25.5		ug/L		102	48 - 140		
Benzene	ND		25.0	23.9		ug/L		95	66 - 130		
Bromobenzene	ND		25.0	26.6		ug/L		106	70 - 130		
1,1-Dichloroethane	ND		25.0	23.8		ug/L		95	65 - 130		
Bromoform	ND		25.0	30.1		ug/L		120	59 - 150		
1,2-Dichloroethane	ND		25.0	23.9		ug/L		96	56 - 146		
Bromomethane	ND		25.0	23.9		ug/L		96	62 - 131		
1,1-Dichloroethene	ND		25.0	25.1		ug/L		100	70 - 130		
Carbon disulfide	ND		25.0	24.9		ug/L		100	49 - 140		
Carbon tetrachloride	ND		25.0	27.8		ug/L		111	60 - 150		
Chlorobenzene	ND		25.0	24.0		ug/L		96	70 - 130		
1,2-Dichloropropane	ND		25.0	24.5		ug/L		98	69 - 130		
Chlorobromomethane	ND		25.0	25.2		ug/L		101	70 - 130		
Chlorodibromomethane	ND		25.0	29.3		ug/L		117	70 - 148		
Chloroethane	ND		25.0	21.5		ug/L		86	68 - 130		
Chloroform	ND		25.0	24.4		ug/L		98	70 - 130		
Chloromethane	ND		25.0	22.5		ug/L		90	39 - 144		
2-Hexanone	ND		25.0	23.3		ug/L		93	10 - 150		
cis-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130		
cis-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	70 - 133		
4-Isopropyltoluene	ND		25.0	27.6		ug/L		111	70 - 130		
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130		
Dichlorobromomethane	ND		25.0	27.2		ug/L		109	70 - 138		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-B-8 MS
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		25.0	24.7		ug/L		99	25 - 142
Ethylbenzene	ND		25.0	25.0		ug/L		100	70 - 130
Hexachlorobutadiene	ND		25.0	28.6		ug/L		114	10 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	60 - 149
Isopropylbenzene	ND		25.0	26.2		ug/L		105	70 - 132
1,1,2,2-Tetrachloroethane	ND		25.0	26.9		ug/L		107	63 - 130
Methyl tert-butyl ether	7.2		25.0	30.5		ug/L		93	70 - 130
Methylene Chloride	ND		25.0	22.7		ug/L		91	52 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.5		ug/L		106	60 - 140
Naphthalene	ND		25.0	25.9		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140
n-Butylbenzene	ND		25.0	29.4		ug/L		118	61 - 149
1,1,1-Trichloroethane	ND		25.0	27.9		ug/L		112	70 - 130
N-Propylbenzene	ND		25.0	28.3		ug/L		113	66 - 135
1,1,2-Trichloroethane	ND		25.0	26.6		ug/L		107	70 - 130
sec-Butylbenzene	ND		25.0	28.2		ug/L		113	67 - 134
Styrene	ND		25.0	25.7		ug/L		103	29 - 150
1,2,3-Trichloropropane	ND		25.0	25.7		ug/L		103	60 - 130
tert-Butylbenzene	ND		25.0	28.1		ug/L		112	70 - 130
Tetrachloroethene	ND		25.0	26.9		ug/L		108	70 - 137
1,2,4-Trimethylbenzene	ND		25.0	27.8		ug/L		111	70 - 130
Toluene	ND		25.0	24.6		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.8		ug/L		103	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	27.9		ug/L		112	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.1		ug/L		100	70 - 130
trans-1,3-Dichloropropene	ND		25.0	24.9		ug/L		100	70 - 138
m-Xylene & p-Xylene	ND		25.0	25.5		ug/L		102	70 - 133
Trichloroethene	ND		25.0	25.0		ug/L		100	70 - 130
Ethylene Dibromide	ND		25.0	26.9		ug/L		107	70 - 131
o-Xylene	ND		25.0	25.7		ug/L		103	70 - 133
Trichlorofluoromethane	ND		25.0	28.0		ug/L		112	60 - 150
2-Butanone (MEK)	ND		25.0	25.0		ug/L		100	48 - 140
Vinyl acetate	ND		25.0	25.0		ug/L		100	23 - 150
4-Methyl-2-pentanone (MIBK)	ND		25.0	24.0		ug/L		96	52 - 150
Vinyl chloride	ND		25.0	24.1		ug/L		96	50 - 137
2,2-Dichloropropane	ND		25.0	26.6		ug/L		106	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-90445-B-8 MSD
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	26.7		ug/L		107	10 - 150	8	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-B-8 MSD
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	0	20
1,4-Dichlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130	3	20
2-Chlorotoluene	ND		25.0	26.4		ug/L		106	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	24.6		ug/L		99	70 - 130	2	25
1,1-Dichloropropene	ND		25.0	24.7		ug/L		99	64 - 130	1	20
4-Chlorotoluene	ND		25.0	26.5		ug/L		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.2		ug/L		101	48 - 140	1	30
Benzene	ND		25.0	23.7		ug/L		95	66 - 130	0	20
Bromobenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
1,1-Dichloroethane	ND		25.0	24.0		ug/L		96	65 - 130	1	20
Bromoform	ND		25.0	28.9		ug/L		115	59 - 150	4	25
1,2-Dichloroethane	ND		25.0	23.6		ug/L		94	56 - 146	1	20
Bromomethane	ND		25.0	26.2		ug/L		105	62 - 131	9	25
1,1-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130	0	20
Carbon disulfide	ND		25.0	25.0		ug/L		100	49 - 140	0	20
Carbon tetrachloride	ND		25.0	27.3		ug/L		109	60 - 150	2	25
Chlorobenzene	ND		25.0	22.8		ug/L		91	70 - 130	5	20
1,2-Dichloropropane	ND		25.0	23.8		ug/L		95	69 - 130	3	20
Chlorobromomethane	ND		25.0	25.1		ug/L		101	70 - 130	0	25
Chlorodibromomethane	ND		25.0	27.8		ug/L		111	70 - 148	5	25
Chloroethane	ND		25.0	20.5		ug/L		82	68 - 130	5	25
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130	1	20
Chloromethane	ND		25.0	21.6		ug/L		86	39 - 144	4	25
2-Hexanone	ND		25.0	23.0		ug/L		92	10 - 150	1	35
cis-1,2-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	26.8		ug/L		107	70 - 133	4	20
4-Isopropyltoluene	ND		25.0	27.1		ug/L		109	70 - 130	2	20
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130	0	25
Dichlorobromomethane	ND		25.0	27.4		ug/L		110	70 - 138	1	20
Dichlorodifluoromethane	ND		25.0	23.7		ug/L		95	25 - 142	4	30
Ethylbenzene	ND		25.0	23.8		ug/L		95	70 - 130	5	20
Hexachlorobutadiene	ND		25.0	28.8		ug/L		115	10 - 150	1	20
1,1,1,2-Tetrachloroethane	ND		25.0	26.1		ug/L		105	60 - 149	4	20
Isopropylbenzene	ND		25.0	24.9		ug/L		99	70 - 132	5	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.5		ug/L		106	63 - 130	1	30
Methyl tert-butyl ether	7.2		25.0	31.5		ug/L		97	70 - 130	3	25
Methylene Chloride	ND		25.0	23.2		ug/L		93	52 - 130	2	20
1,2,3-Trichlorobenzene	ND		25.0	27.3		ug/L		109	60 - 140	3	20
Naphthalene	ND		25.0	27.9		ug/L		112	60 - 140	7	30
1,2,4-Trichlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140	2	20
n-Butylbenzene	ND		25.0	29.0		ug/L		116	61 - 149	1	20
1,1,1-Trichloroethane	ND		25.0	27.1		ug/L		108	70 - 130	3	20
N-Propylbenzene	ND		25.0	27.3		ug/L		109	66 - 135	4	20
1,1,2-Trichloroethane	ND		25.0	25.1		ug/L		100	70 - 130	6	25
sec-Butylbenzene	ND		25.0	27.7		ug/L		111	67 - 134	2	20
Styrene	ND		25.0	24.6		ug/L		98	29 - 150	4	35
1,2,3-Trichloropropane	ND		25.0	25.7		ug/L		103	60 - 130	0	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-B-8 MSD
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene	ND		25.0	27.6		ug/L		111	70 - 130	2	20
Tetrachloroethene	ND		25.0	25.8		ug/L		103	70 - 137	4	20
1,2,4-Trimethylbenzene	ND		25.0	27.1		ug/L		109	70 - 130	3	25
Toluene	ND		25.0	23.5		ug/L		94	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.0		ug/L		100	60 - 140	3	20
1,3,5-Trimethylbenzene	ND		25.0	27.4		ug/L		110	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	24.9		ug/L		100	70 - 130	1	20
trans-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	70 - 138	2	25
m-Xylene & p-Xylene	ND		25.0	24.7		ug/L		99	70 - 133	3	25
Trichloroethene	ND		25.0	24.5		ug/L		98	70 - 130	2	20
Ethylene Dibromide	ND		25.0	25.9		ug/L		104	70 - 131	4	25
o-Xylene	ND		25.0	24.8		ug/L		99	70 - 133	4	20
Trichlorofluoromethane	ND		25.0	27.2		ug/L		109	60 - 150	3	25
2-Butanone (MEK)	ND		25.0	28.1		ug/L		113	48 - 140	12	40
Vinyl acetate	ND		25.0	25.6		ug/L		103	23 - 150	2	30
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.7		ug/L		95	52 - 150	1	35
Vinyl chloride	ND		25.0	24.4		ug/L		97	50 - 137	1	30
2,2-Dichloropropane	ND		25.0	26.4		ug/L		106	69 - 138	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-518871/4
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/22/18 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*12/22/18 09:46*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*12/22/18 09:46*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*12/22/18 09:46*	*1*

Lab Sample ID: LCS 440-518871/6
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	827		ug/Kg		83	60 - 135

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-518871/6
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: MB 440-518878/4
Matrix: Solid
Analysis Batch: 518878

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/22/18 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*		*12/22/18 10:31*	*1*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*		*12/22/18 10:31*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*		*12/22/18 10:31*	*1*

Lab Sample ID: LCS 440-518878/6
Matrix: Solid
Analysis Batch: 518878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	886		ug/Kg		89	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*60 - 120*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*
Toluene-d8 (Surr)	*115*		*79 - 123*

Lab Sample ID: MB 440-518904/4
Matrix: Solid
Analysis Batch: 518904

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/22/18 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*		*12/22/18 11:39*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*		*12/22/18 11:39*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*		*12/22/18 11:39*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-518904/6
Matrix: Solid
Analysis Batch: 518904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	777		ug/Kg		78	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*60 - 120*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MS
Matrix: Solid
Analysis Batch: 518904

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	290		3400	3790		ug/Kg		103	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*3*	*X*	*60 - 120*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MSD
Matrix: Solid
Analysis Batch: 518904

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	290		3410	3120		ug/Kg		83	55 - 140	19	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*1*	*X*	*60 - 120*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2740	2740		ug/Kg		100	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90446-1 MSD
Matrix: Solid
Analysis Batch: 518871

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3130	2990		ug/Kg		96	55 - 140	9	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 518878

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		3670	3380		ug/Kg		92	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*104*		*79 - 123*

Lab Sample ID: 720-90446-7 MSD
Matrix: Solid
Analysis Batch: 518878

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3590	3380		ug/Kg		94	55 - 140	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: MB 440-519009/4
Matrix: Solid
Analysis Batch: 519009

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/24/18 08:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*12/24/18 08:24*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*		*12/24/18 08:24*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*		*12/24/18 08:24*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-519009/6
Matrix: Solid
Analysis Batch: 519009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	777		ug/Kg		78	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*114*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MS
Matrix: Solid
Analysis Batch: 519009

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	180		3390	3490		ug/Kg		98	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*7*	*X*	*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*109*		*79 - 123*

Lab Sample ID: 440-228365-A-1 MSD
Matrix: Solid
Analysis Batch: 519009

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	180		3380	2860		ug/Kg		79	55 - 140	20	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*3*	*X*	*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: MB 440-519968/4
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*12/29/18 08:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/29/18 08:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 08:27*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-519968/6
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	396		ug/L		79	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-90445-B-8 MS
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1910		ug/L		111	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-90445-B-8 MSD
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1890		ug/L		109	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: MB 440-519974/4
Matrix: Solid
Analysis Batch: 519974

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			12/29/18 09:59	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*55 - 140*		*12/29/18 09:59*	*100*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*		*12/29/18 09:59*	*100*
Toluene-d8 (Surr)	*116*		*60 - 140*		*12/29/18 09:59*	*100*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-519974/7
Matrix: Solid
Analysis Batch: 519974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			50000	62500		ug/Kg		125	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*55 - 140*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*
Toluene-d8 (Surr)	*113*		*60 - 140*

Lab Sample ID: LCSD 440-519974/8
Matrix: Solid
Analysis Batch: 519974

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			50000	63200		ug/Kg		126	60 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*55 - 140*
4-Bromofluorobenzene (Surr)	*104*		*65 - 140*
Toluene-d8 (Surr)	*112*		*60 - 140*

Lab Sample ID: MB 440-520436/5
Matrix: Solid
Analysis Batch: 520436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			01/02/19 21:36	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*		*01/02/19 21:36*	*100*
4-Bromofluorobenzene (Surr)	*106*		*65 - 140*		*01/02/19 21:36*	*100*
Toluene-d8 (Surr)	*113*		*60 - 140*		*01/02/19 21:36*	*100*

Lab Sample ID: LCS 440-520436/10
Matrix: Solid
Analysis Batch: 520436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			50000	58300		ug/Kg		117	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*55 - 140*
4-Bromofluorobenzene (Surr)	*106*		*65 - 140*
Toluene-d8 (Surr)	*113*		*60 - 140*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 440-520436/11
Matrix: Solid
Analysis Batch: 520436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			50000	57500		ug/Kg		115	60 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*55 - 140*
4-Bromofluorobenzene (Surr)	*106*		*65 - 140*
Toluene-d8 (Surr)	*115*		*60 - 140*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-257608/1-A
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.98	J	10	5.0	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[b]fluoranthene	2.22	J	5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Chrysene	ND		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/26/18 12:40	12/28/18 03:07	1
Pyrene	ND		5.0	1.7	ug/Kg		12/26/18 12:40	12/28/18 03:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*12/26/18 12:40*	*12/28/18 03:07*	*1*
Terphenyl-d14	*94*		*35 - 146*	*12/26/18 12:40*	*12/28/18 03:07*	*1*

Lab Sample ID: LCS 720-257608/2-A
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257608

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Methylnaphthalene			667	477		ug/Kg		72	46 - 110		
Acenaphthene			667	486		ug/Kg		73	46 - 106		
Acenaphthylene			667	530		ug/Kg		79	46 - 108		
Anthracene			667	514		ug/Kg		77	55 - 103		
Benzo[a]anthracene			667	568		ug/Kg		85	54 - 110		

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-257608/2-A
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	667	578		ug/Kg		87	62 - 111
Benzo[b]fluoranthene	667	566		ug/Kg		85	60 - 109
Benzo[g,h,i]perylene	667	517		ug/Kg		78	52 - 114
Benzo[k]fluoranthene	667	522		ug/Kg		78	58 - 109
Chrysene	667	517		ug/Kg		78	54 - 108
Dibenz(a,h)anthracene	667	540		ug/Kg		81	58 - 112
Fluoranthene	667	566		ug/Kg		85	59 - 109
Fluorene	667	513		ug/Kg		77	52 - 106
Indeno[1,2,3-cd]pyrene	667	561		ug/Kg		84	55 - 120
Naphthalene	667	463		ug/Kg		69	49 - 110
Phenanthrene	667	491		ug/Kg		74	57 - 110
Pyrene	667	575		ug/Kg		86	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*33 - 120*
Terphenyl-d14	*92*		*35 - 146*

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	33	B	664	475		ug/Kg		67	46 - 110
Acenaphthene	3.0	J	664	481		ug/Kg		72	46 - 106
Acenaphthylene	16		664	519		ug/Kg		76	46 - 108
Anthracene	27		664	515		ug/Kg		73	55 - 103
Benzo[a]anthracene	50		664	598		ug/Kg		82	54 - 110
Benzo[a]pyrene	68		664	579		ug/Kg		77	62 - 111
Benzo[b]fluoranthene	110	B	664	628		ug/Kg		77	60 - 109
Benzo[g,h,i]perylene	33	F1	664	352	F1	ug/Kg		48	52 - 114
Benzo[k]fluoranthene	44		664	588		ug/Kg		82	58 - 109
Chrysene	74		664	568		ug/Kg		74	54 - 108
Dibenz(a,h)anthracene	11	F1	664	361	F1	ug/Kg		53	58 - 112
Fluoranthene	78		664	618		ug/Kg		81	59 - 109
Fluorene	2.9	J	664	518		ug/Kg		78	52 - 106
Indeno[1,2,3-cd]pyrene	28	F1	664	383	F1	ug/Kg		53	55 - 120
Naphthalene	22		664	452		ug/Kg		65	49 - 110
Phenanthrene	58		664	556		ug/Kg		75	57 - 110
Pyrene	100		664	755		ug/Kg		99	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*104*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90446-1 MSD
Matrix: Solid
Analysis Batch: 257703

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257608

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	33	B	662	491		ug/Kg		69	46 - 110	3	35
Acenaphthene	3.0	J	662	480		ug/Kg		72	46 - 106	0	35
Acenaphthylene	16		662	519		ug/Kg		76	46 - 108	0	35
Anthracene	27		662	519		ug/Kg		74	55 - 103	1	35
Benzo[a]anthracene	50		662	574		ug/Kg		79	54 - 110	4	35
Benzo[a]pyrene	68		662	559		ug/Kg		74	62 - 111	4	35
Benzo[b]fluoranthene	110	B	662	611		ug/Kg		75	60 - 109	3	35
Benzo[g,h,i]perylene	33	F1	662	279	F1	ug/Kg		37	52 - 114	23	35
Benzo[k]fluoranthene	44		662	587		ug/Kg		82	58 - 109	0	35
Chrysene	74		662	544		ug/Kg		71	54 - 108	4	35
Dibenz(a,h)anthracene	11	F1	662	345	F1	ug/Kg		50	58 - 112	4	35
Fluoranthene	78		662	580		ug/Kg		76	59 - 109	6	35
Fluorene	2.9	J	662	518		ug/Kg		78	52 - 106	0	35
Indeno[1,2,3-cd]pyrene	28	F1	662	350	F1	ug/Kg		49	55 - 120	9	35
Naphthalene	22		662	465		ug/Kg		67	49 - 110	3	35
Phenanthrene	58		662	542		ug/Kg		73	57 - 110	3	35
Pyrene	100		662	707		ug/Kg		91	50 - 120	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*107*		*35 - 146*

Lab Sample ID: MB 720-257611/1-A
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[b]fluoranthene	2.22	J	5.0	2.1	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Chrysene	ND		5.0	1.4	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Pyrene	ND		5.0	1.7	ug/Kg		12/26/18 13:22	12/28/18 22:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/26/18 13:22*	*12/28/18 22:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-257611/1-A
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257611

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	90		35 - 146	12/26/18 13:22	12/28/18 22:09	1

Lab Sample ID: LCS 720-257611/2-A
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	451		ug/Kg		68	46 - 110
Acenaphthene	667	459		ug/Kg		69	46 - 106
Acenaphthylene	667	503		ug/Kg		75	46 - 108
Anthracene	667	490		ug/Kg		74	55 - 103
Benzo[a]anthracene	667	549		ug/Kg		82	54 - 110
Benzo[a]pyrene	667	557		ug/Kg		84	62 - 111
Benzo[b]fluoranthene	667	548		ug/Kg		82	60 - 109
Benzo[g,h,i]perylene	667	533		ug/Kg		80	52 - 114
Benzo[k]fluoranthene	667	515		ug/Kg		77	58 - 109
Chrysene	667	494		ug/Kg		74	54 - 108
Dibenz(a,h)anthracene	667	544		ug/Kg		82	58 - 112
Fluoranthene	667	536		ug/Kg		80	59 - 109
Fluorene	667	489		ug/Kg		73	52 - 106
Indeno[1,2,3-cd]pyrene	667	567		ug/Kg		85	55 - 120
Naphthalene	667	444		ug/Kg		67	49 - 110
Phenanthrene	667	468		ug/Kg		70	57 - 110
Pyrene	667	553		ug/Kg		83	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	66		33 - 120
Terphenyl-d14	89		35 - 146

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		665	455		ug/Kg		68	46 - 110
Acenaphthene	ND		665	458		ug/Kg		69	46 - 106
Acenaphthylene	ND		665	501		ug/Kg		75	46 - 108
Anthracene	2.3	J	665	487		ug/Kg		73	55 - 103
Benzo[a]anthracene	1.7	J	665	551		ug/Kg		83	54 - 110
Benzo[a]pyrene	3.5	J	665	551		ug/Kg		82	62 - 111
Benzo[b]fluoranthene	5.9	B	665	528		ug/Kg		78	60 - 109
Benzo[g,h,i]perylene	ND		665	559		ug/Kg		84	52 - 114
Benzo[k]fluoranthene	2.5	J	665	525		ug/Kg		79	58 - 109
Chrysene	1.5	J	665	499		ug/Kg		75	54 - 108
Dibenz(a,h)anthracene	ND		665	560		ug/Kg		84	58 - 112
Fluoranthene	3.0	J	665	538		ug/Kg		80	59 - 109
Fluorene	ND		665	494		ug/Kg		74	52 - 106
Indeno[1,2,3-cd]pyrene	ND		665	585		ug/Kg		88	55 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		665	446		ug/Kg		67	49 - 110
Phenanthrene	ND		665	469		ug/Kg		71	57 - 110
Pyrene	3.3	J	665	566		ug/Kg		85	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*33 - 120*
Terphenyl-d14	*90*		*35 - 146*

Lab Sample ID: 720-90446-7 MSD
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		663	462		ug/Kg		70	46 - 110	2	35
Acenaphthene	ND		663	472		ug/Kg		71	46 - 106	3	35
Acenaphthylene	ND		663	518		ug/Kg		78	46 - 108	3	35
Anthracene	2.3	J	663	501		ug/Kg		75	55 - 103	3	35
Benzo[a]anthracene	1.7	J	663	557		ug/Kg		84	54 - 110	1	35
Benzo[a]pyrene	3.5	J	663	558		ug/Kg		84	62 - 111	1	35
Benzo[b]fluoranthene	5.9	B	663	566		ug/Kg		84	60 - 109	7	35
Benzo[g,h,i]perylene	ND		663	551		ug/Kg		83	52 - 114	1	35
Benzo[k]fluoranthene	2.5	J	663	490		ug/Kg		74	58 - 109	7	35
Chrysene	1.5	J	663	502		ug/Kg		76	54 - 108	1	35
Dibenz(a,h)anthracene	ND		663	560		ug/Kg		85	58 - 112	0	35
Fluoranthene	3.0	J	663	546		ug/Kg		82	59 - 109	1	35
Fluorene	ND		663	506		ug/Kg		76	52 - 106	2	35
Indeno[1,2,3-cd]pyrene	ND		663	581		ug/Kg		88	55 - 120	1	35
Naphthalene	ND		663	451		ug/Kg		68	49 - 110	1	35
Phenanthrene	ND		663	482		ug/Kg		73	57 - 110	3	35
Pyrene	3.3	J	663	573		ug/Kg		86	50 - 120	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*33 - 120*
Terphenyl-d14	*91*		*35 - 146*

Lab Sample ID: MB 720-257713/1-A
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Anthracene	ND		5.0	2.0	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Benzo[a]pyrene	3.12	J	5.0	1.9	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Benzo[b]fluoranthene	3.26	J	5.0	2.1	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/28/18 09:07	12/31/18 13:33	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-257713/1-A
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	2.67	J	5.0	2.1	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Chrysene	ND		5.0	1.4	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Dibenz(a,h)anthracene	3.84	J	5.0	3.5	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Fluorene	ND		5.0	2.2	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Pyrene	ND		5.0	1.7	ug/Kg		12/28/18 09:07	12/31/18 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*12/28/18 09:07*	*12/31/18 13:33*	*1*
Terphenyl-d14	*89*		*35 - 146*	*12/28/18 09:07*	*12/31/18 13:33*	*1*

Lab Sample ID: LCS 720-257713/2-A
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	409		ug/Kg		61	46 - 110
Acenaphthene	667	411		ug/Kg		62	46 - 106
Acenaphthylene	667	456		ug/Kg		68	46 - 108
Anthracene	667	451		ug/Kg		68	55 - 103
Benzo[a]anthracene	667	507		ug/Kg		76	54 - 110
Benzo[a]pyrene	667	509		ug/Kg		76	62 - 111
Benzo[b]fluoranthene	667	493		ug/Kg		74	60 - 109
Benzo[g,h,i]perylene	667	416		ug/Kg		62	52 - 114
Benzo[k]fluoranthene	667	479		ug/Kg		72	58 - 109
Chrysene	667	459		ug/Kg		69	54 - 108
Dibenz(a,h)anthracene	667	464		ug/Kg		70	58 - 112
Fluoranthene	667	499		ug/Kg		75	59 - 109
Fluorene	667	443		ug/Kg		66	52 - 106
Indeno[1,2,3-cd]pyrene	667	476		ug/Kg		71	55 - 120
Naphthalene	667	401		ug/Kg		60	49 - 110
Phenanthrene	667	426		ug/Kg		64	57 - 110
Pyrene	667	520		ug/Kg		78	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*33 - 120*
Terphenyl-d14	*88*		*35 - 146*

Lab Sample ID: 720-90529-A-1-D MS
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		660	386		ug/Kg		58	46 - 110
Acenaphthene	ND		660	396		ug/Kg		60	46 - 106

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90529-A-1-D MS
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		660	435		ug/Kg		66	46 - 108
Anthracene	ND		660	409		ug/Kg		62	55 - 103
Benzo[a]anthracene	ND		660	475		ug/Kg		72	54 - 110
Benzo[a]pyrene	3.3	J B	660	465		ug/Kg		70	62 - 111
Benzo[b]fluoranthene	4.2	J B	660	467		ug/Kg		70	60 - 109
Benzo[g,h,i]perylene	ND		660	381		ug/Kg		58	52 - 114
Benzo[k]fluoranthene	2.5	J B	660	465		ug/Kg		70	58 - 109
Chrysene	1.8	J	660	431		ug/Kg		65	54 - 108
Dibenz(a,h)anthracene	3.9	J B	660	416		ug/Kg		62	58 - 112
Fluoranthene	1.9	J	660	460		ug/Kg		69	59 - 109
Fluorene	ND		660	429		ug/Kg		65	52 - 106
Indeno[1,2,3-cd]pyrene	ND		660	432		ug/Kg		65	55 - 120
Naphthalene	ND		660	377		ug/Kg		57	49 - 110
Phenanthrene	3.9	J	660	405		ug/Kg		61	57 - 110
Pyrene	2.8	J	660	508		ug/Kg		77	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*57*		*33 - 120*
Terphenyl-d14	*82*		*35 - 146*

Lab Sample ID: 720-90529-A-1-E MSD
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		661	377		ug/Kg		57	46 - 110	2	35
Acenaphthene	ND		661	387		ug/Kg		59	46 - 106	2	35
Acenaphthylene	ND		661	425		ug/Kg		64	46 - 108	2	35
Anthracene	ND		661	412		ug/Kg		62	55 - 103	1	35
Benzo[a]anthracene	ND		661	479		ug/Kg		72	54 - 110	1	35
Benzo[a]pyrene	3.3	J B	661	474		ug/Kg		71	62 - 111	2	35
Benzo[b]fluoranthene	4.2	J B	661	504		ug/Kg		76	60 - 109	8	35
Benzo[g,h,i]perylene	ND		661	375		ug/Kg		57	52 - 114	2	35
Benzo[k]fluoranthene	2.5	J B	661	445		ug/Kg		67	58 - 109	4	35
Chrysene	1.8	J	661	439		ug/Kg		66	54 - 108	2	35
Dibenz(a,h)anthracene	3.9	J B	661	413		ug/Kg		62	58 - 112	1	35
Fluoranthene	1.9	J	661	466		ug/Kg		70	59 - 109	1	35
Fluorene	ND		661	424		ug/Kg		64	52 - 106	1	35
Indeno[1,2,3-cd]pyrene	ND		661	426		ug/Kg		65	55 - 120	1	35
Naphthalene	ND		661	368		ug/Kg		56	49 - 110	3	35
Phenanthrene	3.9	J	661	408		ug/Kg		61	57 - 110	1	35
Pyrene	2.8	J	661	513		ug/Kg		77	50 - 120	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*56*		*33 - 120*
Terphenyl-d14	*83*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-257368/1-A
Matrix: Solid
Analysis Batch: 257515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		12/20/18 14:36	12/24/18 14:12	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/20/18 14:36	12/24/18 14:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*40 - 130*	*12/20/18 14:36*	*12/24/18 14:12*	*1*

Lab Sample ID: LCS 720-257368/2-A
Matrix: Solid
Analysis Batch: 257515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257368

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	156		mg/Kg		93	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*95*		*40 - 130*

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 257566

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	5.1		166	149		mg/Kg		87	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*109*		*40 - 130*

Lab Sample ID: 720-90446-7 MSD
Matrix: Solid
Analysis Batch: 257566

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257368

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	5.1		167	141		mg/Kg		82	50 - 150	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*86*		*40 - 130*

Lab Sample ID: MB 720-257590/1-A
Matrix: Solid
Analysis Batch: 257649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 18:21	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/26/18 10:01	12/27/18 18:21	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-257590/1-A
Matrix: Solid
Analysis Batch: 257649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257590

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	*94*		*40 - 130*	*12/26/18 10:01*	*12/27/18 18:21*	*1*

Lab Sample ID: LCS 720-257590/2-A
Matrix: Solid
Analysis Batch: 257649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257590

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	137		mg/Kg		82	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*112*		*40 - 130*

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 257648

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	72		166	248		mg/Kg		106	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*78*		*40 - 130*

Lab Sample ID: 720-90446-1 MSD
Matrix: Solid
Analysis Batch: 257648

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	72		166	231		mg/Kg		96	50 - 150	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*77*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-257428/1-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:38	12/25/18 01:20	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-257428/1-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:38	12/25/18 01:20	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:38	12/25/18 01:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*12/21/18 09:38*	*12/25/18 01:20*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*12/21/18 09:38*	*12/25/18 01:20*	*1*

Lab Sample ID: LCS 720-257428/2-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	16.4		ug/Kg		99	75 - 128
4,4'-DDE	16.7	15.8		ug/Kg		95	76 - 126
4,4'-DDT	16.7	15.5		ug/Kg		93	63 - 127
Aldrin	16.7	15.1		ug/Kg		90	65 - 120
alpha-BHC	16.7	12.9		ug/Kg		78	46 - 122
alpha-Chlordane	16.7	16.1		ug/Kg		97	70 - 120
beta-BHC	16.7	16.5		ug/Kg		99	78 - 136
delta-BHC	16.7	13.0		ug/Kg		78	43 - 125
Dieldrin	16.7	15.6		ug/Kg		94	72 - 120
Endosulfan I	16.7	16.4		ug/Kg		98	62 - 120
Endosulfan II	16.7	16.3		ug/Kg		98	65 - 120
Endosulfan sulfate	16.7	16.3		ug/Kg		98	72 - 121
Endrin	16.7	16.4		ug/Kg		99	68 - 120
Endrin aldehyde	16.7	18.4		ug/Kg		111	68 - 120
Endrin ketone	16.7	17.0		ug/Kg		102	75 - 136
gamma-BHC (Lindane)	16.7	15.1		ug/Kg		91	72 - 120
gamma-Chlordane	16.7	15.8		ug/Kg		95	68 - 120
Heptachlor	16.7	15.2		ug/Kg		91	69 - 120
Heptachlor epoxide	16.7	16.1		ug/Kg		96	68 - 120
Methoxychlor	16.7	17.3		ug/Kg		104	71 - 132

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-257428/2-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257428

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	111		21 - 136
Tetrachloro-m-xylene	95		21 - 145

Lab Sample ID: 720-90470-A-1-D MS
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.7	14.6		ug/Kg		87	40 - 120
4,4'-DDE	ND		16.7	14.0		ug/Kg		84	40 - 120
4,4'-DDT	ND	F2	16.7	13.5	p	ug/Kg		81	17 - 144
Aldrin	ND	F2	16.7	16.7	p	ug/Kg		100	53 - 120
alpha-BHC	ND		16.7	12.5		ug/Kg		75	40 - 120
alpha-Chlordane	ND		16.7	13.8	p	ug/Kg		83	40 - 120
beta-BHC	ND		16.7	12.9	p	ug/Kg		78	40 - 120
delta-BHC	ND		16.7	11.4		ug/Kg		69	40 - 120
Dieldrin	ND		16.7	10.2	p	ug/Kg		61	46 - 130
Endosulfan I	ND		16.7	9.67	p	ug/Kg		58	40 - 120
Endosulfan II	ND		16.7	12.5	p	ug/Kg		75	40 - 120
Endosulfan sulfate	ND	F2	16.7	10.1		ug/Kg		61	40 - 120
Endrin	ND		16.7	13.8		ug/Kg		83	32 - 143
Endrin aldehyde	ND		16.7	7.83	p	ug/Kg		47	40 - 120
Endrin ketone	ND	F2	16.7	11.2	p	ug/Kg		67	40 - 120
gamma-BHC (Lindane)	ND		16.7	10.2	p	ug/Kg		62	58 - 120
gamma-Chlordane	ND	F2	16.7	19.8		ug/Kg		119	40 - 120
Heptachlor	ND		16.7	14.7		ug/Kg		88	52 - 120
Heptachlor epoxide	ND		16.7	12.9		ug/Kg		78	40 - 120
Methoxychlor	ND	F2 F1	16.7	8.68	p	ug/Kg		52	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	51	p	21 - 136
Tetrachloro-m-xylene	66		21 - 145

Lab Sample ID: 720-90470-A-1-E MSD
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.7	13.7		ug/Kg		83	40 - 120	6	20
4,4'-DDE	ND		16.7	13.9	p	ug/Kg		84	40 - 120	1	20
4,4'-DDT	ND	F2	16.7	9.17	p F2	ug/Kg		55	17 - 144	38	20
Aldrin	ND	F2	16.7	10.1	p F2	ug/Kg		60	53 - 120	49	20
alpha-BHC	ND		16.7	11.1		ug/Kg		66	40 - 120	13	20
alpha-Chlordane	ND		16.7	13.5		ug/Kg		81	40 - 120	2	20
beta-BHC	ND		16.7	14.5	p	ug/Kg		87	40 - 120	12	20
delta-BHC	ND		16.7	8.19	p F2	ug/Kg		49	40 - 120	33	20
Dieldrin	ND		16.7	9.37	p	ug/Kg		56	46 - 130	8	20
Endosulfan I	ND		16.7	8.36	p	ug/Kg		50	40 - 120	15	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90470-A-1-E MSD
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan II	ND		16.7	9.62		ug/Kg		58	40 - 120	26	30
Endosulfan sulfate	ND	F2	16.7	12.8	F2	ug/Kg		77	40 - 120	24	20
Endrin	ND		16.7	12.9		ug/Kg		77	32 - 143	7	20
Endrin aldehyde	ND		16.7	4.47	p F2 F1	ug/Kg		27	40 - 120	55	20
Endrin ketone	ND	F2	16.7	13.9	F2	ug/Kg		84	40 - 120	22	20
gamma-BHC (Lindane)	ND		16.7	10.1	p	ug/Kg		61	58 - 120	1	20
gamma-Chlordane	ND	F2	16.7	16.0	F2	ug/Kg		96	40 - 120	21	20
Heptachlor	ND		16.7	15.9		ug/Kg		95	52 - 120	8	20
Heptachlor epoxide	ND		16.7	13.1		ug/Kg		79	40 - 120	2	20
Methoxychlor	ND	F2 F1	16.7	5.32	p F2 F1	ug/Kg		32	40 - 120	48	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*64*	*p*	*21 - 136*
Tetrachloro-m-xylene	*70*		*21 - 145*

Lab Sample ID: MB 720-257432/1-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:50	12/25/18 02:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*21 - 136*	*12/21/18 09:50*	*12/25/18 02:27*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*12/21/18 09:50*	*12/25/18 02:27*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-257432/2-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	16.5		ug/Kg		99	75 - 128
4,4'-DDE	16.7	15.6		ug/Kg		94	76 - 126
4,4'-DDT	16.7	15.5		ug/Kg		93	63 - 127
Aldrin	16.7	13.5		ug/Kg		81	65 - 120
alpha-BHC	16.7	11.5		ug/Kg		69	46 - 122
alpha-Chlordane	16.7	15.4		ug/Kg		92	70 - 120
beta-BHC	16.7	15.7		ug/Kg		94	78 - 136
delta-BHC	16.7	12.5		ug/Kg		75	43 - 125
Dieldrin	16.7	15.0		ug/Kg		90	72 - 120
Endosulfan I	16.7	15.5		ug/Kg		93	62 - 120
Endosulfan II	16.7	16.1		ug/Kg		97	65 - 120
Endosulfan sulfate	16.7	16.2		ug/Kg		97	72 - 121
Endrin	16.7	16.2		ug/Kg		97	68 - 120
Endrin aldehyde	16.7	18.4		ug/Kg		110	68 - 120
Endrin ketone	16.7	16.9		ug/Kg		101	75 - 136
gamma-BHC (Lindane)	16.7	13.5		ug/Kg		81	72 - 120
gamma-Chlordane	16.7	15.1		ug/Kg		90	68 - 120
Heptachlor	16.7	13.5		ug/Kg		81	69 - 120
Heptachlor epoxide	16.7	15.0		ug/Kg		90	68 - 120
Methoxychlor	16.7	17.0		ug/Kg		102	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*109*		*21 - 136*
Tetrachloro-m-xylene	*85*		*21 - 145*

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F2	15.9	18.9		ug/Kg		119	40 - 120
4,4'-DDE	ND		15.9	13.5		ug/Kg		85	40 - 120
4,4'-DDT	ND		15.9	14.5		ug/Kg		91	17 - 144
Aldrin	ND		15.9	12.4		ug/Kg		78	53 - 120
alpha-BHC	ND		15.9	11.3		ug/Kg		71	40 - 120
alpha-Chlordane	ND		15.9	13.5		ug/Kg		85	40 - 120
beta-BHC	ND		15.9	15.4		ug/Kg		97	40 - 120
delta-BHC	ND		15.9	11.7		ug/Kg		74	40 - 120
Dieldrin	ND		15.9	13.1		ug/Kg		82	46 - 130
Endosulfan I	ND		15.9	15.1		ug/Kg		95	40 - 120
Endosulfan II	ND		15.9	15.2		ug/Kg		95	40 - 120
Endosulfan sulfate	ND		15.9	16.8		ug/Kg		106	40 - 120
Endrin	ND		15.9	14.0		ug/Kg		88	32 - 143
Endrin aldehyde	ND	F2	15.9	17.0		ug/Kg		107	40 - 120
Endrin ketone	ND		15.9	14.5		ug/Kg		91	40 - 120
gamma-BHC (Lindane)	ND		15.9	13.3		ug/Kg		83	58 - 120
gamma-Chlordane	ND		15.9	14.7		ug/Kg		92	40 - 120
Heptachlor	ND		15.9	13.0		ug/Kg		82	52 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	ND		15.9	12.8		ug/Kg		81	40 - 120
Methoxychlor	ND		15.9	15.1		ug/Kg		95	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*116*		*21 - 136*
Tetrachloro-m-xylene	*87*		*21 - 145*

Lab Sample ID: 720-90446-1 MSD
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F2	15.9	14.6	F2	ug/Kg		92	40 - 120	26	20
4,4'-DDE	ND		15.9	12.6		ug/Kg		79	40 - 120	7	20
4,4'-DDT	ND		15.9	13.7		ug/Kg		86	17 - 144	6	20
Aldrin	ND		15.9	12.2		ug/Kg		76	53 - 120	2	20
alpha-BHC	ND		15.9	10.5		ug/Kg		66	40 - 120	8	20
alpha-Chlordane	ND		15.9	13.0		ug/Kg		82	40 - 120	4	20
beta-BHC	ND		15.9	13.5		ug/Kg		85	40 - 120	13	20
delta-BHC	ND		15.9	11.2		ug/Kg		70	40 - 120	5	20
Dieldrin	ND		15.9	13.1		ug/Kg		82	46 - 130	1	20
Endosulfan I	ND		15.9	12.8		ug/Kg		80	40 - 120	17	20
Endosulfan II	ND		15.9	13.3		ug/Kg		83	40 - 120	13	30
Endosulfan sulfate	ND		15.9	16.6		ug/Kg		104	40 - 120	1	20
Endrin	ND		15.9	13.6		ug/Kg		85	32 - 143	3	20
Endrin aldehyde	ND	F2	15.9	13.0	F2	ug/Kg		82	40 - 120	27	20
Endrin ketone	ND		15.9	13.8		ug/Kg		87	40 - 120	4	20
gamma-BHC (Lindane)	ND		15.9	12.0		ug/Kg		75	58 - 120	10	20
gamma-Chlordane	ND		15.9	13.7		ug/Kg		86	40 - 120	7	20
Heptachlor	ND		15.9	12.9		ug/Kg		81	52 - 120	1	20
Heptachlor epoxide	ND		15.9	12.3		ug/Kg		77	40 - 120	4	20
Methoxychlor	ND		15.9	14.5		ug/Kg		91	40 - 120	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*98*		*21 - 136*
Tetrachloro-m-xylene	*76*		*21 - 145*

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F1	16.2	20.2	F1	ug/Kg		125	40 - 120
4,4'-DDE	ND		16.2	16.4		ug/Kg		101	40 - 120
4,4'-DDT	ND		16.2	12.4		ug/Kg		77	17 - 144
Aldrin	ND		16.2	14.8		ug/Kg		92	53 - 120
alpha-BHC	ND		16.2	12.9		ug/Kg		80	40 - 120
alpha-Chlordane	ND		16.2	15.9		ug/Kg		98	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	ND		16.2	16.2		ug/Kg		100	40 - 120
delta-BHC	ND		16.2	12.9		ug/Kg		80	40 - 120
Dieldrin	ND		16.2	16.2		ug/Kg		100	46 - 130
Endosulfan I	ND		16.2	16.0		ug/Kg		99	40 - 120
Endosulfan II	ND		16.2	16.5		ug/Kg		102	40 - 120
Endosulfan sulfate	ND		16.2	16.6		ug/Kg		103	40 - 120
Endrin	ND		16.2	17.0		ug/Kg		105	32 - 143
Endrin aldehyde	ND		16.2	15.9		ug/Kg		99	40 - 120
Endrin ketone	ND		16.2	15.5		ug/Kg		96	40 - 120
gamma-BHC (Lindane)	ND		16.2	13.7		ug/Kg		85	58 - 120
gamma-Chlordane	ND		16.2	16.6		ug/Kg		103	40 - 120
Heptachlor	ND		16.2	14.6		ug/Kg		90	52 - 120
Heptachlor epoxide	ND		16.2	15.4		ug/Kg		95	40 - 120
Methoxychlor	ND		16.2	13.1		ug/Kg		81	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*109*		*21 - 136*
Tetrachloro-m-xylene	*93*		*21 - 145*

Lab Sample ID: 720-90446-7 MSD
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	16.1	19.0		ug/Kg		118	40 - 120	6	20
4,4'-DDE	ND		16.1	14.8		ug/Kg		92	40 - 120	10	20
4,4'-DDT	ND		16.1	10.6		ug/Kg		66	17 - 144	15	20
Aldrin	ND		16.1	13.4		ug/Kg		83	53 - 120	10	20
alpha-BHC	ND		16.1	12.1		ug/Kg		75	40 - 120	6	20
alpha-Chlordane	ND		16.1	14.6		ug/Kg		90	40 - 120	9	20
beta-BHC	ND		16.1	15.2		ug/Kg		94	40 - 120	6	20
delta-BHC	ND		16.1	12.0		ug/Kg		74	40 - 120	7	20
Dieldrin	ND		16.1	14.2		ug/Kg		88	46 - 130	13	20
Endosulfan I	ND		16.1	14.6		ug/Kg		90	40 - 120	10	20
Endosulfan II	ND		16.1	15.3		ug/Kg		95	40 - 120	7	30
Endosulfan sulfate	ND		16.1	15.0		ug/Kg		93	40 - 120	10	20
Endrin	ND		16.1	15.4		ug/Kg		95	32 - 143	10	20
Endrin aldehyde	ND		16.1	15.0		ug/Kg		93	40 - 120	6	20
Endrin ketone	ND		16.1	14.3		ug/Kg		88	40 - 120	9	20
gamma-BHC (Lindane)	ND		16.1	13.1		ug/Kg		81	58 - 120	5	20
gamma-Chlordane	ND		16.1	14.8		ug/Kg		92	40 - 120	11	20
Heptachlor	ND		16.1	13.2		ug/Kg		82	52 - 120	10	20
Heptachlor epoxide	ND		16.1	14.0		ug/Kg		87	40 - 120	9	20
Methoxychlor	ND		16.1	11.9		ug/Kg		74	40 - 120	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*21 - 136*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90446-7 MSD
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257432

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-518872/1-A
Matrix: Solid
Analysis Batch: 519323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 16:45	1
Aroclor 1221	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 16:45	1
Aroclor 1232	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 16:45	1
Aroclor 1242	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 16:45	1
Aroclor 1248	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 16:45	1
Aroclor 1254	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 16:45	1
Aroclor 1260	ND		50	17	ug/Kg		12/22/18 08:18	12/26/18 16:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*12/22/18 08:18*	*12/26/18 16:45*	*1*

Lab Sample ID: LCS 440-518872/2-A
Matrix: Solid
Analysis Batch: 519323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	202		ug/Kg		76	65 - 115
Aroclor 1260	267	233		ug/Kg		87	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 519323

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 518872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	200		ug/Kg		75	50 - 120
Aroclor 1260	ND		266	232		ug/Kg		87	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-90446-1 MSD — **Client Sample ID: DG-AC3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 519323 — **Prep Batch: 518872**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	203		ug/Kg		76	50 - 120	1	30
Aroclor 1260	ND		266	233		ug/Kg		87	50 - 125	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*

Lab Sample ID: 720-90446-7 MS — **Client Sample ID: DG-AI3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 519323 — **Prep Batch: 518872**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		265	223		ug/Kg		84	50 - 120
Aroclor 1260	ND		265	253		ug/Kg		95	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*

Lab Sample ID: 720-90446-7 MSD — **Client Sample ID: DG-AI3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 519323 — **Prep Batch: 518872**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	227		ug/Kg		85	50 - 120	2	30
Aroclor 1260	ND		266	259		ug/Kg		97	50 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*94*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257446/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257788 — **Prep Batch: 257446**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Arsenic	ND		1.0	0.085	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Barium	ND		0.50	0.071	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Beryllium	ND		0.10	0.033	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Cadmium	ND		0.13	0.012	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Chromium	ND		0.50	0.053	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Cobalt	ND		0.20	0.020	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Copper	ND		1.5	0.71	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Lead	ND		0.50	0.11	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Nickel	ND		0.50	0.051	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Selenium	ND		1.0	0.15	mg/Kg		12/22/18 10:25	12/28/18 16:37	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257446/1-A
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.25	0.051	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Thallium	ND		0.50	0.15	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Vanadium	ND		0.50	0.068	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Zinc	ND		1.5	0.64	mg/Kg		12/22/18 10:25	12/28/18 16:37	1

Lab Sample ID: LCS 720-257446/2-A
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.7		mg/Kg		93	80 - 120
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	50.0	43.8		mg/Kg		88	80 - 120
Beryllium	50.0	47.4		mg/Kg		95	80 - 120
Cadmium	50.0	47.9		mg/Kg		96	80 - 120
Chromium	50.0	47.0		mg/Kg		94	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	50.0	48.8		mg/Kg		98	80 - 120
Lead	50.0	47.8		mg/Kg		96	80 - 120
Molybdenum	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Selenium	50.0	45.5		mg/Kg		91	80 - 120
Silver	25.0	22.2		mg/Kg		89	80 - 120
Thallium	50.0	47.6		mg/Kg		95	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.7		mg/Kg		93	80 - 120

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.3	F1	47.6	15.3	F1	mg/Kg		25	75 - 125
Arsenic	20	F1 F2	47.6	68.3		mg/Kg		101	75 - 125
Barium	61	F1 F2	47.6	140	F1	mg/Kg		167	75 - 125
Beryllium	ND		47.6	58.1		mg/Kg		122	75 - 125
Cadmium	1.5		47.6	54.3		mg/Kg		111	75 - 125
Chromium	17		47.6	69.1		mg/Kg		110	75 - 125
Cobalt	10		47.6	63.4		mg/Kg		112	75 - 125
Copper	210	F2	47.6	244	4	mg/Kg		79	75 - 125
Lead	260	F2	47.6	221	4	mg/Kg		-91	75 - 125
Molybdenum	1.2	J	47.6	54.5		mg/Kg		112	75 - 125
Nickel	18		47.6	63.1		mg/Kg		95	75 - 125
Selenium	ND		47.6	52.2		mg/Kg		110	75 - 125
Silver	ND		23.8	26.8		mg/Kg		113	75 - 125
Thallium	ND		47.6	50.5		mg/Kg		106	75 - 125
Vanadium	77	F1	47.6	134		mg/Kg		119	75 - 125
Zinc	230	F2	47.6	222	4	mg/Kg		-9	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90446-1 MSD
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.3	F1	47.2	15.2	F1	mg/Kg		25	75 - 125	1	20
Arsenic	20	F1 F2	47.2	101	F1 F2	mg/Kg		172	75 - 125	39	20
Barium	61	F1 F2	47.2	113	F2	mg/Kg		112	75 - 125	21	20
Beryllium	ND		47.2	51.5		mg/Kg		109	75 - 125	12	20
Cadmium	1.5		47.2	53.0		mg/Kg		109	75 - 125	2	20
Chromium	17		47.2	69.6		mg/Kg		112	75 - 125	1	20
Cobalt	10		47.2	64.6		mg/Kg		116	75 - 125	2	20
Copper	210	F2	47.2	309	4 F2	mg/Kg		217	75 - 125	23	20
Lead	260	F2	47.2	351	4 F2	mg/Kg		184	75 - 125	46	20
Molybdenum	1.2	J	47.2	53.0		mg/Kg		110	75 - 125	3	20
Nickel	18		47.2	68.5		mg/Kg		107	75 - 125	8	20
Selenium	ND		47.2	50.9		mg/Kg		108	75 - 125	2	20
Silver	ND		23.6	24.7		mg/Kg		105	75 - 125	8	20
Thallium	ND		47.2	48.1		mg/Kg		102	75 - 125	5	20
Vanadium	77	F1	47.2	141	F1	mg/Kg		136	75 - 125	5	20
Zinc	230	F2	47.2	294	4 F2	mg/Kg		143	75 - 125	28	20

Lab Sample ID: MB 720-257460/1-A
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Arsenic	ND		1.0	0.085	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Barium	0.172	J	0.50	0.071	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Beryllium	ND		0.10	0.033	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Cadmium	ND		0.13	0.012	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Chromium	ND		0.50	0.053	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Cobalt	ND		0.20	0.020	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Copper	ND		1.5	0.71	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Lead	ND		0.50	0.11	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Nickel	ND		0.50	0.051	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Selenium	ND		1.0	0.15	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Silver	ND		0.25	0.051	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Thallium	ND		0.50	0.15	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Vanadium	ND		0.50	0.068	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Zinc	ND		1.5	0.64	mg/Kg		12/21/18 15:30	12/28/18 12:51	1

Lab Sample ID: LCS 720-257460/2-A
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.9		mg/Kg		94	80 - 120
Arsenic	50.0	48.2		mg/Kg		96	80 - 120
Barium	50.0	45.4		mg/Kg		91	80 - 120
Beryllium	50.0	48.0		mg/Kg		96	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257460/2-A
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	48.0		mg/Kg		96	80 - 120
Chromium	50.0	47.5		mg/Kg		95	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	50.0	48.6		mg/Kg		97	80 - 120
Lead	50.0	48.2		mg/Kg		96	80 - 120
Molybdenum	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	47.7		mg/Kg		95	80 - 120
Selenium	50.0	46.1		mg/Kg		92	80 - 120
Silver	25.0	21.7		mg/Kg		87	80 - 120
Thallium	50.0	47.8		mg/Kg		96	80 - 120
Vanadium	50.0	48.5		mg/Kg		97	80 - 120
Zinc	50.0	47.3		mg/Kg		95	80 - 120

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	41.3	10.8	F1	mg/Kg		26	75 - 125
Arsenic	0.62	J	41.3	43.5		mg/Kg		104	75 - 125
Barium	38	B F1 F2	41.3	80.5		mg/Kg		102	75 - 125
Beryllium	ND	F1	41.3	45.1		mg/Kg		109	75 - 125
Cadmium	0.11	J	41.3	41.9		mg/Kg		101	75 - 125
Chromium	5.9	F1	41.3	49.2		mg/Kg		105	75 - 125
Cobalt	8.2		41.3	50.6		mg/Kg		103	75 - 125
Copper	98	F1	41.3	154	F1	mg/Kg		134	75 - 125
Lead	6.6		41.3	46.0		mg/Kg		95	75 - 125
Molybdenum	0.35	J	41.3	41.8		mg/Kg		100	75 - 125
Nickel	2.7		41.3	43.1		mg/Kg		98	75 - 125
Selenium	ND		41.3	41.1		mg/Kg		99	75 - 125
Silver	ND		20.7	20.3		mg/Kg		98	75 - 125
Thallium	ND		41.3	39.4		mg/Kg		95	75 - 125
Vanadium	75	F1	41.3	123		mg/Kg		116	75 - 125
Zinc	35		41.3	73.9		mg/Kg		94	75 - 125

Lab Sample ID: 720-90446-7 MSD
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	42.0	11.7	F1	mg/Kg		28	75 - 125	8	20
Arsenic	0.62	J	42.0	51.4		mg/Kg		121	75 - 125	17	20
Barium	38	B F1 F2	42.0	103	F1 F2	mg/Kg		155	75 - 125	25	20
Beryllium	ND	F1	42.0	53.8	F1	mg/Kg		128	75 - 125	18	20
Cadmium	0.11	J	42.0	49.2		mg/Kg		117	75 - 125	16	20
Chromium	5.9	F1	42.0	58.7	F1	mg/Kg		126	75 - 125	18	20
Cobalt	8.2		42.0	59.3		mg/Kg		122	75 - 125	16	20
Copper	98	F1	42.0	173	F1	mg/Kg		179	75 - 125	12	20
Lead	6.6		42.0	54.4		mg/Kg		114	75 - 125	17	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90446-7 MSD — **Client Sample ID: DG-AI3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257762 — **Prep Batch: 257460**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	0.35	J	42.0	49.2		mg/Kg		116	75 - 125	16	20
Nickel	2.7		42.0	51.0		mg/Kg		115	75 - 125	17	20
Selenium	ND		42.0	47.7		mg/Kg		114	75 - 125	15	20
Silver	ND		21.0	24.2		mg/Kg		115	75 - 125	17	20
Thallium	ND		42.0	45.8		mg/Kg		109	75 - 125	15	20
Vanadium	75	F1	42.0	143	F1	mg/Kg		161	75 - 125	15	20
Zinc	35		42.0	85.0		mg/Kg		119	75 - 125	14	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257274/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257997 — **Prep Batch: 257274**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 13:29	1

Lab Sample ID: LCS 720-257274/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257997 — **Prep Batch: 257274**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.718		mg/Kg		86	80 - 120

Lab Sample ID: 720-90414-A-13-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257997 — **Prep Batch: 257274**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.15		0.704	0.797		mg/Kg		92	75 - 125

Lab Sample ID: 720-90414-A-13-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257997 — **Prep Batch: 257274**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.15		0.714	0.756		mg/Kg		85	75 - 125	5	20

Lab Sample ID: MB 720-257367/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 257477 — **Prep Batch: 257367**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/20/18 19:24	12/21/18 15:12	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-257367/2-A
Matrix: Solid
Analysis Batch: 257477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257367

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.869		mg/Kg		104	80 - 120		

Lab Sample ID: 720-90446-1 MS
Matrix: Solid
Analysis Batch: 257477

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257367

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.19		0.820	1.02		mg/Kg		102	75 - 125		

Lab Sample ID: 720-90446-1 MSD
Matrix: Solid
Analysis Batch: 257477

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257367

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19		0.833	1.05		mg/Kg		103	75 - 125	2	20

Lab Sample ID: MB 720-257520/1-A
Matrix: Solid
Analysis Batch: 258064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/24/18 08:18	01/07/19 11:46	1

Lab Sample ID: LCS 720-257520/2-A
Matrix: Solid
Analysis Batch: 258064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257520

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.743		mg/Kg		89	80 - 120		

Lab Sample ID: 720-90446-7 MS
Matrix: Solid
Analysis Batch: 258064

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.066		0.746	0.765		mg/Kg		94	75 - 125		

Lab Sample ID: 720-90446-7 MSD
Matrix: Solid
Analysis Batch: 258064

Client Sample ID: DG-AI3S-0.5-1
Prep Type: Total/NA
Prep Batch: 257520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.066		0.746	0.751		mg/Kg		92	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90448-A-19 DU
Matrix: Solid
Analysis Batch: 257463

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.9			11.5		%				5	20

Lab Sample ID: 720-90446-1 DU
Matrix: Solid
Analysis Batch: 257471

Client Sample ID: DG-AC3S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.3			9.0		%				4	20

Lab Sample ID: 720-90446-22 DU
Matrix: Solid
Analysis Batch: 257474

Client Sample ID: DG-O4S-4.5-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.8			21.2	F3	%				36	20

GC/MS VOA

Prep Batch: 518804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-20	DG-N4S-4.5-5	Total/NA	Solid	5035	
720-90446-21	DG-P4S-4.5-5	Total/NA	Solid	5035	
720-90446-22	DG-O4S-4.5-5	Total/NA	Solid	5035	
720-90446-23	DG-P4S-7.5-8	Total/NA	Solid	5035	

Analysis Batch: 518867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-20	DG-N4S-4.5-5	Total/NA	Solid	8260B	518804
720-90446-21	DG-P4S-4.5-5	Total/NA	Solid	8260B	518804
720-90446-22	DG-O4S-4.5-5	Total/NA	Solid	8260B	518804
720-90446-23	DG-P4S-7.5-8	Total/NA	Solid	8260B	518804
MB 440-518867/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518867/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-518867/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 518870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	8260B	518913
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	8260B	518913
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	8260B	518913
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	8260B	518913
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	8260B	518913
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	8260B	518913
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	8260B	518913
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	8260B	518913
MB 440-518870/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518870/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	8260B	518913
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	8260B	518913

Analysis Batch: 518871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913
MB 440-518871/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-518871/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 518871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913

Analysis Batch: 518877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	8260B	518913
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	8260B	518913
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	8260B	518913
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	8260B	518913
720-90446-19	DG-N4S-8.5-9	Total/NA	Solid	8260B	518913
MB 440-518877/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518877/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	8260B	518913
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	8260B	518913

Analysis Batch: 518878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-19	DG-N4S-8.5-9	Total/NA	Solid	8260B/CA_LUFT MS	518913
MB 440-518878/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-518878/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913

Analysis Batch: 518903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	8260B	518913
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	8260B	518913
MB 440-518903/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-518903/5	Lab Control Sample	Total/NA	Solid	8260B	
440-228365-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-228365-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 518904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	518913
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	518913

GC/MS VOA (Continued)

Analysis Batch: 518904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-518904/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-518904/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-228365-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-228365-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 518913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	5035	
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	5035	
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	5035	
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	5035	
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	5035	
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	5035	
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	5035	
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	5035	
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	5035	
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	5035	
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	5035	
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	5035	
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	5035	
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	5035	
720-90446-19	DG-N4S-8.5-9	Total/NA	Solid	5035	
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	5035	
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	5035	
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	5035	
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 519008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	8260B	519067
720-90446-11	DUP-17	Total/NA	Solid	8260B	519067
720-90446-15 - RA	DG-AO3S-3.5-4	Total/NA	Solid	8260B	519067
MB 440-519008/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-519008/5	Lab Control Sample	Total/NA	Solid	8260B	
440-228365-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-228365-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 519009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	519067
720-90446-11	DUP-17	Total/NA	Solid	8260B/CA_LUFT MS	519067
MB 440-519009/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-519009/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-228365-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 519009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-228365-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 519067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	5035	
720-90446-11	DUP-17	Total/NA	Solid	5035	
720-90446-15 - RA	DG-AO3S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 519967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-18	TB-121918	Total/NA	Water	8260B	
MB 440-519967/4	Method Blank	Total/NA	Water	8260B	
LCS 440-519967/5	Lab Control Sample	Total/NA	Water	8260B	
720-90445-B-8 MS	Matrix Spike	Total/NA	Water	8260B	
720-90445-B-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 519968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-18	TB-121918	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-519968/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-519968/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-B-8 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-B-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 519974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-20	DG-N4S-4.5-5	Total/NA	Solid	8260B/CA_LUFT MS	518804
720-90446-21	DG-P4S-4.5-5	Total/NA	Solid	8260B/CA_LUFT MS	518804
720-90446-22	DG-O4S-4.5-5	Total/NA	Solid	8260B/CA_LUFT MS	518804
MB 440-519974/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-519974/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-519974/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 520436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-23	DG-P4S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	518804
MB 440-520436/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-520436/10	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-520436/11	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 257608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	3546	
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	3546	
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	3546	
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	3546	
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	3546	
MB 720-257608/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257608/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 257611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	3546	
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	3546	
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	3546	
720-90446-11	DUP-17	Total/NA	Solid	3546	
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	3546	
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	3546	
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	3546	
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	3546	
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	3546	
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	3546	
720-90446-19	DG-N4S-8.5-9	Total/NA	Solid	3546	
720-90446-20	DG-N4S-4.5-5	Total/NA	Solid	3546	
720-90446-21	DG-P4S-4.5-5	Total/NA	Solid	3546	
720-90446-22	DG-O4S-4.5-5	Total/NA	Solid	3546	
720-90446-23	DG-P4S-7.5-8	Total/NA	Solid	3546	
720-90446-24	DG-O4S-9.5-10	Total/NA	Solid	3546	
MB 720-257611/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257611/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	3546	
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 257703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	8270C SIM	257608
MB 720-257608/1-A	Method Blank	Total/NA	Solid	8270C SIM	257608
LCS 720-257608/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257608
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	8270C SIM	257608
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	8270C SIM	257608

Prep Batch: 257713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	3546	
MB 720-257713/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257713/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90529-A-1-D MS	Matrix Spike	Total/NA	Solid	3546	
720-90529-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Analysis Batch: 257743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	8270C SIM	257608
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	8270C SIM	257608
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	8270C SIM	257608
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	8270C SIM	257608
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	8270C SIM	257608

Analysis Batch: 257766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	8270C SIM	257611
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	8270C SIM	257611
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	8270C SIM	257611
720-90446-11	DUP-17	Total/NA	Solid	8270C SIM	257611
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	8270C SIM	257611
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	8270C SIM	257611
MB 720-257611/1-A	Method Blank	Total/NA	Solid	8270C SIM	257611
LCS 720-257611/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257611
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	8270C SIM	257611
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	8270C SIM	257611

Analysis Batch: 257772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	8270C SIM	257611
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	8270C SIM	257611
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	8270C SIM	257611
720-90446-19	DG-N4S-8.5-9	Total/NA	Solid	8270C SIM	257611
720-90446-20	DG-N4S-4.5-5	Total/NA	Solid	8270C SIM	257611
720-90446-23	DG-P4S-7.5-8	Total/NA	Solid	8270C SIM	257611
720-90446-24	DG-O4S-9.5-10	Total/NA	Solid	8270C SIM	257611

Analysis Batch: 257793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	8270C SIM	257713
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	8270C SIM	257611
720-90446-21	DG-P4S-4.5-5	Total/NA	Solid	8270C SIM	257611
MB 720-257713/1-A	Method Blank	Total/NA	Solid	8270C SIM	257713
LCS 720-257713/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257713
720-90529-A-1-D MS	Matrix Spike	Total/NA	Solid	8270C SIM	257713
720-90529-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	257713

Analysis Batch: 257858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-22	DG-O4S-4.5-5	Total/NA	Solid	8270C SIM	257611

GC Semi VOA

Prep Batch: 257368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	3546	
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	3546	
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 257368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	3546	
720-90446-11	DUP-17	Total/NA	Solid	3546	
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	3546	
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	3546	
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	3546	
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	3546	
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	3546	
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	3546	
MB 720-257368/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257368/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	3546	
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 257428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	3546	
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	3546	
MB 720-257428/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257428/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90470-A-1-D MS	Matrix Spike	Total/NA	Solid	3546	
720-90470-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 257432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	3546	
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	3546	
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	3546	
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	3546	
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	3546	
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	3546	
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	3546	
720-90446-11	DUP-17	Total/NA	Solid	3546	
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	3546	
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	3546	
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	3546	
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	3546	
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	3546	
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	3546	
MB 720-257432/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257432/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	3546	
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 257514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	8015B	257368
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	8015B	257368

GC Semi VOA (Continued)

Analysis Batch: 257515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257368/1-A	Method Blank	Total/NA	Solid	8015B	257368
LCS 720-257368/2-A	Lab Control Sample	Total/NA	Solid	8015B	257368

Analysis Batch: 257516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	8081A	257432
720-90446-11	DUP-17	Total/NA	Solid	8081A	257432
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	8081A	257432
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	8081A	257432
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	8081A	257432

Analysis Batch: 257557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257428/1-A	Method Blank	Total/NA	Solid	8081A	257428
MB 720-257432/1-A	Method Blank	Total/NA	Solid	8081A	257432
LCS 720-257428/2-A	Lab Control Sample	Total/NA	Solid	8081A	257428
LCS 720-257432/2-A	Lab Control Sample	Total/NA	Solid	8081A	257432
720-90470-A-1-D MS	Matrix Spike	Total/NA	Solid	8081A	257428
720-90470-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	257428

Analysis Batch: 257566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	8015B	257368
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	8015B	257368
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	8015B	257368

Analysis Batch: 257573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	8015B	257368
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	8015B	257368
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	8015B	257368
720-90446-11	DUP-17	Total/NA	Solid	8015B	257368
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	8015B	257368
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	8015B	257368
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	8015B	257368
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	8015B	257368

Prep Batch: 257590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	3546	
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	3546	
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	3546	
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	3546	
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	3546	
720-90446-19	DG-N4S-8.5-9	Total/NA	Solid	3546	
720-90446-20	DG-N4S-4.5-5	Total/NA	Solid	3546	
720-90446-21	DG-P4S-4.5-5	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 257590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-22	DG-O4S-4.5-5	Total/NA	Solid	3546	
720-90446-23	DG-P4S-7.5-8	Total/NA	Solid	3546	
720-90446-24	DG-O4S-9.5-10	Total/NA	Solid	3546	
MB 720-257590/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257590/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 257634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	8081A	257428
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	8081A	257428

Analysis Batch: 257648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	8015B	257590
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	8015B	257590
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	8015B	257590
720-90446-19	DG-N4S-8.5-9	Total/NA	Solid	8015B	257590
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	8015B	257590
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	8015B	257590

Analysis Batch: 257649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-23	DG-P4S-7.5-8	Total/NA	Solid	8015B	257590
720-90446-24	DG-O4S-9.5-10	Total/NA	Solid	8015B	257590
MB 720-257590/1-A	Method Blank	Total/NA	Solid	8015B	257590
LCS 720-257590/2-A	Lab Control Sample	Total/NA	Solid	8015B	257590

Analysis Batch: 257650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	8015B	257590
720-90446-20	DG-N4S-4.5-5	Total/NA	Solid	8015B	257590
720-90446-21	DG-P4S-4.5-5	Total/NA	Solid	8015B	257590
720-90446-22	DG-O4S-4.5-5	Total/NA	Solid	8015B	257590

Analysis Batch: 257700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	8081A	257432
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	8081A	257432
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	8081A	257432
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	8081A	257432
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	8081A	257432

GC Semi VOA (Continued)

Analysis Batch: 257719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	8015B	257590
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	8015B	257590

Prep Batch: 518872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	3546	
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	3546	
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	3546	
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	3546	
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	3546	
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	3546	
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	3546	
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	3546	
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	3546	
720-90446-11	DUP-17	Total/NA	Solid	3546	
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	3546	
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	3546	
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	3546	
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	3546	
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	3546	
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	3546	
MB 440-518872/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-518872/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	3546	
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	3546	
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 519323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	8082	518872
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	8082	518872
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	8082	518872
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	8082	518872
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	8082	518872
720-90446-11	DUP-17	Total/NA	Solid	8082	518872
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	8082	518872
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	8082	518872
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	8082	518872
MB 440-518872/1-A	Method Blank	Total/NA	Solid	8082	518872
LCS 440-518872/2-A	Lab Control Sample	Total/NA	Solid	8082	518872
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	8082	518872

GC Semi VOA (Continued)

Analysis Batch: 519323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	8082	518872
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	8082	518872

Metals

Prep Batch: 257274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	7471A	
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	7471A	
MB 720-257274/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257274/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90414-A-13-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90414-A-13-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	7471A	
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	7471A	
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	7471A	
MB 720-257367/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257367/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	7471A	
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	3050B	
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	3050B	
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	3050B	
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	3050B	
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	3050B	
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	3050B	
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	3050B	
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	3050B	
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	3050B	
720-90446-11	DUP-17	Total/NA	Solid	3050B	
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	3050B	
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	3050B	
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	3050B	
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	3050B	
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	3050B	
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	3050B	
MB 720-257446/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257446/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	3050B	
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	3050B	
MB 720-257460/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257460/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	3050B	
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	3050B	

Analysis Batch: 257477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	7471A	257367
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	7471A	257367
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	7471A	257367
MB 720-257367/1-A	Method Blank	Total/NA	Solid	7471A	257367
LCS 720-257367/2-A	Lab Control Sample	Total/NA	Solid	7471A	257367
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	7471A	257367
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	7471A	257367

Prep Batch: 257520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	7471A	
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	7471A	
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	7471A	
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	7471A	
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	7471A	
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	7471A	
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	7471A	
720-90446-11	DUP-17	Total/NA	Solid	7471A	
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	7471A	
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	7471A	
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	7471A	
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	7471A	
MB 720-257520/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257520/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	7471A	
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	7471A	

Analysis Batch: 257762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	6010B	257460
MB 720-257460/1-A	Method Blank	Total/NA	Solid	6010B	257460
LCS 720-257460/2-A	Lab Control Sample	Total/NA	Solid	6010B	257460
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	6010B	257460
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	6010B	257460

Analysis Batch: 257788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	6010B	257446
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	6010B	257446
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	6010B	257446
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	6010B	257446
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	6010B	257446
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	6010B	257446

Metals (Continued)

Analysis Batch: 257788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	6010B	257446
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	6010B	257446
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	6010B	257446
720-90446-11	DUP-17	Total/NA	Solid	6010B	257446
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	6010B	257446
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	6010B	257446
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	6010B	257446
MB 720-257446/1-A	Method Blank	Total/NA	Solid	6010B	257446
LCS 720-257446/2-A	Lab Control Sample	Total/NA	Solid	6010B	257446
720-90446-1 MS	DG-AC3S-0.5-1	Total/NA	Solid	6010B	257446
720-90446-1 MSD	DG-AC3S-0.5-1	Total/NA	Solid	6010B	257446

Analysis Batch: 257808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	6010B	257446
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	6010B	257446
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	6010B	257446

Analysis Batch: 257997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	7471A	257274
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	7471A	257274
MB 720-257274/1-A	Method Blank	Total/NA	Solid	7471A	257274
LCS 720-257274/2-A	Lab Control Sample	Total/NA	Solid	7471A	257274
720-90414-A-13-A MS	Matrix Spike	Total/NA	Solid	7471A	257274
720-90414-A-13-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257274

Analysis Batch: 258064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	7471A	257520
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	7471A	257520
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	7471A	257520
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	7471A	257520
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	7471A	257520
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	7471A	257520
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	7471A	257520
720-90446-11	DUP-17	Total/NA	Solid	7471A	257520
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	7471A	257520
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	7471A	257520
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	7471A	257520
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	7471A	257520
MB 720-257520/1-A	Method Blank	Total/NA	Solid	7471A	257520
LCS 720-257520/2-A	Lab Control Sample	Total/NA	Solid	7471A	257520
720-90446-7 MS	DG-AI3S-0.5-1	Total/NA	Solid	7471A	257520
720-90446-7 MSD	DG-AI3S-0.5-1	Total/NA	Solid	7471A	257520

General Chemistry

Analysis Batch: 257463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-2	DG-AC3S-3.5-4	Total/NA	Solid	Moisture	
720-90448-A-19 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-1	DG-AC3S-0.5-1	Total/NA	Solid	Moisture	
720-90446-3	DG-AE3S-0.5-1	Total/NA	Solid	Moisture	
720-90446-4	DG-AE3S-3.5-4	Total/NA	Solid	Moisture	
720-90446-5	DG-AG3S-0.5-1	Total/NA	Solid	Moisture	
720-90446-6	DG-AG3S-3.5-4	Total/NA	Solid	Moisture	
720-90446-7	DG-AI3S-0.5-1	Total/NA	Solid	Moisture	
720-90446-8	DG-AI3S-3.5-4	Total/NA	Solid	Moisture	
720-90446-9	DG-AK3S-0.5-1	Total/NA	Solid	Moisture	
720-90446-10	DG-AK3S-3.5-4	Total/NA	Solid	Moisture	
720-90446-11	DUP-17	Total/NA	Solid	Moisture	
720-90446-12	DG-AM3S-0.5-1	Total/NA	Solid	Moisture	
720-90446-13	DG-AM3S-3.5-4	Total/NA	Solid	Moisture	
720-90446-14	DG-AO3S-0.5-1	Total/NA	Solid	Moisture	
720-90446-15	DG-AO3S-3.5-4	Total/NA	Solid	Moisture	
720-90446-16	DG-AQ3S-0.5-1	Total/NA	Solid	Moisture	
720-90446-17	DG-AQ3S-3.5-4	Total/NA	Solid	Moisture	
720-90446-19	DG-N4S-8.5-9	Total/NA	Solid	Moisture	
720-90446-20	DG-N4S-4.5-5	Total/NA	Solid	Moisture	
720-90446-21	DG-P4S-4.5-5	Total/NA	Solid	Moisture	
720-90446-1 DU	DG-AC3S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 257474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-22	DG-O4S-4.5-5	Total/NA	Solid	Moisture	
720-90446-23	DG-P4S-7.5-8	Total/NA	Solid	Moisture	
720-90446-24	DG-O4S-9.5-10	Total/NA	Solid	Moisture	
720-90446-22 DU	DG-O4S-4.5-5	Total/NA	Solid	Moisture	

Client Sample ID: DG-AC3S-0.5-1

Lab Sample ID: 720-90446-1

Date Collected: 12/19/18 08:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 12:05	DCI	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 12:05	DCI	TAL IRV
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257703	12/28/18 08:58	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257648	12/27/18 22:38	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 12:19	JZT	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 17:38	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:06	BKR	TAL PLS
Total/NA	Prep	7471A			257367	12/20/18 19:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257477	12/21/18 15:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AC3S-3.5-4

Lab Sample ID: 720-90446-2

Date Collected: 12/19/18 08:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 15:18	DCI	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 15:18	DCI	TAL IRV
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257743	12/28/18 14:21	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257648	12/27/18 17:48	DCH	TAL PLS
Total/NA	Prep	3546			257428	12/21/18 09:38	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257634	12/27/18 13:19	JZT	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 17:52	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:15	BKR	TAL PLS
Total/NA	Prep	7471A			257367	12/20/18 19:24	GLL	TAL PLS
Total/NA	Analysis	7471A		10	257477	12/21/18 16:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-AE3S-0.5-1

Lab Sample ID: 720-90446-3

Date Collected: 12/19/18 09:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 15:46	DCI	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 15:46	DCI	TAL IRV
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257743	12/28/18 14:44	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257648	12/27/18 18:17	DCH	TAL PLS
Total/NA	Prep	3546			257428	12/21/18 09:38	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257634	12/27/18 13:37	JZT	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 18:05	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:20	BKR	TAL PLS
Total/NA	Prep	7471A			257367	12/20/18 19:24	GLL	TAL PLS
Total/NA	Analysis	7471A		1	257477	12/21/18 15:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AE3S-3.5-4

Lab Sample ID: 720-90446-4

Date Collected: 12/19/18 09:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 16:13	DCI	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 16:13	DCI	TAL IRV
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257743	12/28/18 15:08	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257719	12/28/18 12:59	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 12:37	JZT	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 18:18	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:34	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 11:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AG3S-0.5-1

Lab Sample ID: 720-90446-5

Date Collected: 12/19/18 09:50

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 16:41	DCI	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 16:41	DCI	TAL IRV
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257743	12/28/18 15:31	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257719	12/28/18 13:23	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 12:54	JZT	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 18:32	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:39	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AG3S-3.5-4

Lab Sample ID: 720-90446-6

Date Collected: 12/19/18 09:50

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257608	12/26/18 12:40	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257743	12/28/18 15:55	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		3	257650	12/27/18 22:00	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 13:13	JZT	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 18:45	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:44	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AI3S-0.5-1

Lab Sample ID: 720-90446-7

Date Collected: 12/19/18 11:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Client Sample ID: DG-AI3S-0.5-1

Lab Sample ID: 720-90446-7

Date Collected: 12/19/18 11:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518877	12/22/18 11:56	GMA	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518878	12/22/18 11:56	GMA	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257766	12/29/18 01:40	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:36	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257566	12/26/18 10:40	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 14:05	JZT	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 19:38	JM	TAL IRV
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 13:20	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 11:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AI3S-3.5-4

Lab Sample ID: 720-90446-8

Date Collected: 12/19/18 11:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 17:36	DCI	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 17:36	DCI	TAL IRV
Total/NA	Prep	3546			257713	12/28/18 20:35	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257793	12/31/18 16:17	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:36	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257573	12/26/18 12:52	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 14:23	JZT	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 19:52	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:48	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AK3S-0.5-1

Lab Sample ID: 720-90446-9

Date Collected: 12/19/18 13:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519067	12/19/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519008	12/24/18 14:05	WC	TAL IRV
Total/NA	Prep	5035			519067	12/19/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519009	12/24/18 14:05	WC	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257766	12/29/18 02:04	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:36	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257573	12/26/18 11:54	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257700	12/28/18 14:40	JZT	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 20:05	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:53	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AK3S-3.5-4

Lab Sample ID: 720-90446-10

Date Collected: 12/19/18 13:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 18:32	DCI	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 18:32	DCI	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257766	12/29/18 03:14	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:36	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257573	12/26/18 13:21	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257516	12/24/18 17:21	MQL	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 20:18	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 17:58	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DUP-17

Lab Sample ID: 720-90446-11

Date Collected: 12/19/18 00:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519067	12/19/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519008	12/24/18 14:34	WC	TAL IRV
Total/NA	Prep	5035			519067	12/19/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519009	12/24/18 14:34	WC	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257766	12/29/18 02:27	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:36	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257573	12/26/18 13:50	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257516	12/24/18 15:18	MQL	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 20:31	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 18:03	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AM3S-0.5-1

Lab Sample ID: 720-90446-12

Date Collected: 12/19/18 13:45

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518870	12/22/18 19:27	DCI	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518871	12/22/18 19:27	DCI	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	257766	12/29/18 03:37	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:36	RAR	TAL PLS
Total/NA	Analysis	8015B		5	257573	12/26/18 15:17	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257516	12/24/18 15:36	MQL	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 20:45	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 18:07	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AM3S-3.5-4

Lab Sample ID: 720-90446-13

Date Collected: 12/19/18 13:45

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518903	12/22/18 14:34	AYL	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518904	12/22/18 14:34	AYL	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257766	12/29/18 02:50	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:36	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257573	12/26/18 14:19	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257516	12/24/18 15:53	MQL	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 20:58	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 18:12	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AO3S-0.5-1

Lab Sample ID: 720-90446-14

Date Collected: 12/19/18 14:35

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518903	12/22/18 14:08	AYL	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518904	12/22/18 14:08	AYL	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257793	12/31/18 17:27	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:36	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257573	12/26/18 14:48	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257516	12/24/18 16:11	MQL	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 21:11	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257788	12/28/18 18:17	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AO3S-3.5-4

Lab Sample ID: 720-90446-15

Date Collected: 12/19/18 14:35

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518877	12/22/18 13:21	GMA	TAL IRV
Total/NA	Prep	5035	RA		519067	12/19/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B	RA	1	519008	12/24/18 15:03	WC	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518878	12/22/18 13:21	GMA	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 13:22	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:43	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257573	12/26/18 12:23	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257516	12/24/18 16:28	MQL	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 21:25	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257808	12/31/18 11:01	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AQ3S-0.5-1

Lab Sample ID: 720-90446-16

Date Collected: 12/19/18 15:05

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518877	12/22/18 13:50	GMA	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518878	12/22/18 13:50	GMA	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 13:45	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:43	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257514	12/24/18 14:12	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257516	12/24/18 17:38	MQL	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 21:38	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257808	12/31/18 11:06	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-AQ3S-3.5-4

Date Collected: 12/19/18 15:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518877	12/22/18 14:18	GMA	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518878	12/22/18 14:18	GMA	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 14:09	LPL	TAL PLS
Total/NA	Prep	3546			257368	12/20/18 14:43	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257514	12/24/18 14:36	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257516	12/24/18 17:56	MQL	TAL PLS
Total/NA	Prep	3546			518872	12/22/18 08:18	L1A	TAL IRV
Total/NA	Analysis	8082		1	519323	12/26/18 21:51	JM	TAL IRV
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257808	12/31/18 11:11	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: TB-121918

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 16:11	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 16:11	WC	TAL IRV

Client Sample ID: DG-N4S-8.5-9

Date Collected: 12/19/18 11:19
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B		1	518877	12/22/18 14:47	GMA	TAL IRV
Total/NA	Prep	5035			518913	12/19/18 20:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	518878	12/22/18 14:47	GMA	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 14:32	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257648	12/27/18 21:40	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Client Sample ID: DG-N4S-4.5-5

Lab Sample ID: 720-90446-20

Date Collected: 12/19/18 10:54
Date Received: 12/19/18 19:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518804	12/21/18 16:44	GMA	TAL IRV
Total/NA	Analysis	8260B		100	518867	12/22/18 12:08	HR	TAL IRV
Total/NA	Prep	5035			518804	12/21/18 16:44	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	519974	12/29/18 12:20	WC	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 14:56	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		20	257650	12/27/18 20:22	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-P4S-4.5-5

Lab Sample ID: 720-90446-21

Date Collected: 12/19/18 09:55
Date Received: 12/19/18 19:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518804	12/21/18 16:44	GMA	TAL IRV
Total/NA	Analysis	8260B		500	518867	12/22/18 12:32	HR	TAL IRV
Total/NA	Prep	5035			518804	12/21/18 16:44	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		500	519974	12/29/18 12:49	WC	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		10	257793	12/31/18 17:03	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		20	257650	12/27/18 21:36	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257471	12/21/18 15:38	TNL	TAL PLS

Client Sample ID: DG-O4S-4.5-5

Lab Sample ID: 720-90446-22

Date Collected: 12/19/18 10:30
Date Received: 12/19/18 19:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518804	12/21/18 16:44	GMA	TAL IRV
Total/NA	Analysis	8260B		500	518867	12/22/18 12:56	HR	TAL IRV
Total/NA	Prep	5035			518804	12/21/18 16:44	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		500	519974	12/29/18 13:17	WC	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	257858	01/02/19 11:43	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		10	257650	12/27/18 21:11	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257474	12/21/18 16:09	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Client Sample ID: DG-P4S-7.5-8

Date Collected: 12/19/18 10:05
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518804	12/21/18 16:44	GMA	TAL IRV
Total/NA	Analysis	8260B		100	518867	12/22/18 13:20	HR	TAL IRV
Total/NA	Prep	5035			518804	12/21/18 16:44	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	520436	01/02/19 22:05	OH1	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 16:06	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257649	12/27/18 22:24	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257474	12/21/18 16:09	TNL	TAL PLS

Client Sample ID: DG-O4S-9.5-10

Date Collected: 12/19/18 11:11
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90446-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 16:29	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257649	12/27/18 22:48	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257474	12/21/18 16:09	TNL	TAL PLS

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90446-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3546	Solid	Chlordane (n.o.s.)
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90446-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90446-1	DG-AC3S-0.5-1	Solid	12/19/18 08:30	12/19/18 19:30
720-90446-2	DG-AC3S-3.5-4	Solid	12/19/18 08:30	12/19/18 19:30
720-90446-3	DG-AE3S-0.5-1	Solid	12/19/18 09:00	12/19/18 19:30
720-90446-4	DG-AE3S-3.5-4	Solid	12/19/18 09:00	12/19/18 19:30
720-90446-5	DG-AG3S-0.5-1	Solid	12/19/18 09:50	12/19/18 19:30
720-90446-6	DG-AG3S-3.5-4	Solid	12/19/18 09:50	12/19/18 19:30
720-90446-7	DG-AI3S-0.5-1	Solid	12/19/18 11:30	12/19/18 19:30
720-90446-8	DG-AI3S-3.5-4	Solid	12/19/18 11:30	12/19/18 19:30
720-90446-9	DG-AK3S-0.5-1	Solid	12/19/18 13:00	12/19/18 19:30
720-90446-10	DG-AK3S-3.5-4	Solid	12/19/18 13:00	12/19/18 19:30
720-90446-11	DUP-17	Solid	12/19/18 00:00	12/19/18 19:30
720-90446-12	DG-AM3S-0.5-1	Solid	12/19/18 13:45	12/19/18 19:30
720-90446-13	DG-AM3S-3.5-4	Solid	12/19/18 13:45	12/19/18 19:30
720-90446-14	DG-AO3S-0.5-1	Solid	12/19/18 14:35	12/19/18 19:30
720-90446-15	DG-AO3S-3.5-4	Solid	12/19/18 14:35	12/19/18 19:30
720-90446-16	DG-AQ3S-0.5-1	Solid	12/19/18 15:05	12/19/18 19:30
720-90446-17	DG-AQ3S-3.5-4	Solid	12/19/18 15:05	12/19/18 19:30
720-90446-18	TB-121918	Water	12/19/18 00:00	12/19/18 19:30
720-90446-19	DG-N4S-8.5-9	Solid	12/19/18 11:19	12/19/18 19:30
720-90446-20	DG-N4S-4.5-5	Solid	12/19/18 10:54	12/19/18 19:30
720-90446-21	DG-P4S-4.5-5	Solid	12/19/18 09:55	12/19/18 19:30
720-90446-22	DG-O4S-4.5-5	Solid	12/19/18 10:30	12/19/18 19:30
720-90446-23	DG-P4S-7.5-8	Solid	12/19/18 10:05	12/19/18 19:30
720-90446-24	DG-O4S-9.5-10	Solid	12/19/18 11:11	12/19/18 19:30

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

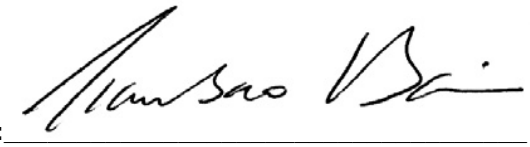
CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A1817456
Received: 12/21/2018
Reported: 1/4/2018
Analyst: Mikaela Batta

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AC3S-0.5-1 (720-90466-1)	A221817	No	None Detected	0.00
DG-AC3S-3.5-4 (720-90466-2)	A221818	Yes	Chrysotile	<0.25
DG-AE3S-0.5-1 (720-90466-3)	A221819	No	None Detected	0.00
DG-AE3S-3.5-4 (720-90466-4)	A221820	No	None Detected	0.00
DG-AG3S-0.5-1 (720-90466-5)	A221821	No	None Detected	0.00
DG-AG3S-3.5-4 (720-90466-6)	A221822	No	None Detected	0.00
DG-AI3S-0.5-1 (720-90466-7)	A221823	No	None Detected	0.00
DG-AI3S-3.5-4 (720-90466-8)	A221824	No	None Detected	0.00
DG-AK3S-0.5-1 (720-90466-9)	A221825	Yes	Amosite	<0.25
DG-AK3S-3.5-4 (720-90466-10)	A221826	Yes	Chrysotile	<0.25
DUP-17 (720-90446-11)	A221827	No	None Detected	0.00
DG-AMS-0.5-1 (720-90466-12)	A221828	No	None Detected	0.00
DG-AMS-3.5-4 (720-90466-13)	A221829	No	None Detected	0.00

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AOS-0.5-1 (720-90466-14)	A221830	No	None Detected	0.00
DG-AOS-3.5-4 (720-90466-15)	A221831	No	None Detected	0.00
DG-AQS-0.5-1 (720-90466-16)	A221832	No	None Detected	0.00
DG-AQS-3.5-4 (720-90466-17)	A221833	No	None Detected	0.00

REVIEWED BY: 

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

A1817456 (17) A1221817-A1221833

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40593.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/4/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AC3S-0.5-1 (720-90446-1)	12/19/18	08:30 Pacific		Solid			X	1	
DG-AC3S-3.5-4 (720-90446-2)	12/19/18	08:30 Pacific		Solid			X	1	
DG-AE3S-0.5-1 (720-90446-3)	12/19/18	09:00 Pacific		Solid			X	1	
DG-AE3S-3.5-4 (720-90446-4)	12/19/18	09:00 Pacific		Solid			X	1	
DG-AG3S-0.5-1 (720-90446-5)	12/19/18	09:50 Pacific		Solid			X	1	
DG-AG3S-3.5-4 (720-90446-6)	12/19/18	09:50 Pacific		Solid			X	1	
DG-AI3S-0.5-1 (720-90446-7)	12/19/18	11:30 Pacific		Solid			X	1	
DG-AI3S-3.5-4 (720-90446-8)	12/19/18	11:30 Pacific		Solid			X	1	
DG-AK3S-0.5-1 (720-90446-9)	12/19/18	13:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/20/18 1355	TAPS		12/21 10:50	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

A1817456

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40593.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/4/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AK3S-3.5-4 (720-90446-10)	12/19/18	13:00 Pacific		Solid			X	1	
DUP-17 (720-90446-11)	12/19/18	Pacific		Solid			X	1	
DG-AMS-0.5-1 (720-90446-12)	12/19/18	13:45 Pacific		Solid			X	1	
DG-AMS-3.5-4 (720-90446-13)	12/19/18	13:45 Pacific		Solid			X	1	
DG-AOS-0.5-1 (720-90446-14)	12/19/18	14:35 Pacific		Solid			X	1	
DG-AOS-3.5-4 (720-90446-15)	12/19/18	14:35 Pacific		Solid			X	1	
DG-AQS-0.5-1 (720-90446-16)	12/19/18	15:05 Pacific		Solid			X	1	
DG-AQS-3.5-4 (720-90446-17)	12/19/18	15:05 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 10/20/18 1255	Company TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90446

Chain of Custody Record

187486

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90446 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
DG-AC35-0.5-1	12/19/18	0830	G	S	8 (2)	N	X	X	X	X	X	X	X	X	
DG-AC35-3.5-4		0830			8										
DG-AE35-0.5-1		0900			8		X								client-req'd MS/MSD not
DG-AE35-3.5-4		0900			8										
DG-AG35-0.5-1		0950			8										
DG-AG35-3.5-4		0950			8										
DG-AI35-0.5-1		1130			8 (2) 10		X								
DG-AI35-3.5-4		1130			8										
DG-AK35-0.5-1		1300			8										
DG-AK35-3.5-4		1300			8										
DUP-17		—			8										
DG-AM35-0.5-1	↓	1345	↓	↓	8			↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: Dispose of extra AC35 MS/MSD vials & samples labeled "DO NOT ANALYZE"

1.6, 1.3, 1.0, 1.4, 2.5, 1.2, 1.0, 2.7°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company: Geosyntec	Date/Time: 12/19/18 1645	Received by	Company: TALS	Date/Time: 12/19/18 1647
Relinquished by	Company: TALS	Date/Time: 12/19/18 1930	Received by	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by	Company: TA-PLS	Date/Time: 12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/16/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90446

Chain of Custody Record

187486

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client.
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13	DG-AM35-3.5-4	12/19/18	1345	G	S	8	N		X	X	X	X	X	X	X	
14	DG-AO35-0.5-1		1435			8										
15	DG-AO35-3.5-4		1435													
16	DG-AQ35-0.5-1		1505													
17	DG-AQ35-3.5-4		1505													
18	TB-121918	—	—	TB	W				X	X		X (8260)				VOCs only
19	DG-N45-8.5-9	12/19/18	1119	G	S	6			X	X		X				
20	DG-N45-4.5-5		1054			6										
21	DG-P45-4.5-5		0955			6										
22	DG-O45-4.5-5		1030			6										
23	DG-P45-7.5-8		1005			6										
24	DG-O45-9.5-10		1111			5										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____			
Relinquished by	Company: Geosyntec	Date/Time: 12/19/18 1545	Received by	Company: TA PLS	Date/Time: 12/19/18 1641
Relinquished by	Company: TA PLS	Date/Time: 12/19/18 1930	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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2/16/2019 (Rev. 1)

720-90446
WED. TERRA COTES

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC01

FedEx Express Package(s) - Dropped Off
463602765906

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Dec 19, 2018 5:09:58 PM

720-90446-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	Q - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082A Standard 8082 PCB List	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AC3S-0.5-1 (720-90446-1)	12/19/18	08:30 Pacific		Solid			X	X	X			3	4
DG-AC3S-0.5-1 (720-90446-1MS)	12/19/18	08:30 Pacific	MS	Solid			X	X	X			3	4
DG-AC3S-0.5-1 (720-90446-1MSD)	12/19/18	08:30 Pacific	MSD	Solid			X	X	X			3	4
DG-AC3S-3.5-4 (720-90446-2)	12/19/18	08:30 Pacific		Solid			X	X	X			3	4
DG-AE3S-0.5-1 (720-90446-3)	12/19/18	09:00 Pacific		Solid			X	X	X			3	4
DG-AE3S-3.5-4 (720-90446-4)	12/19/18	09:00 Pacific		Solid			X	X	X			3	4
DG-AG3S-0.5-1 (720-90446-5)	12/19/18	09:50 Pacific		Solid			X	X	X			3	4
DG-AG3S-3.5-4 (720-90446-6)	12/19/18	09:50 Pacific		Solid			X	X	X			3	4
DG-AI3S-0.5-1 (720-90446-7)	12/19/18	11:30 Pacific		Solid			X	X	X			3	4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	12-20-18	Pleasanton			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB Hex (12-20)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AI3S-0.5-1 (720-90446-7MS)	12/19/18	11:30 Pacific	MS	Solid			X	X	X			3	4
DG-AI3S-0.5-1 (720-90446-7MSD)	12/19/18	11:30 Pacific	MSD	Solid			X	X	X			3	4
DG-AI3S-3.5-4 (720-90446-8)	12/19/18	11:30 Pacific		Solid			X	X	X			3	4
DG-AK3S-0.5-1 (720-90446-9)	12/19/18	13:00 Pacific		Solid			X	X	X			3	4
DG-AK3S-3.5-4 (720-90446-10)	12/19/18	13:00 Pacific		Solid			X	X	X			3	4
DUP-17 (720-90446-11)	12/19/18	Pacific		Solid			X	X	X			3	4
DG-AMS-0.5-1 (720-90446-12)	12/19/18	13:45 Pacific		Solid			X	X	X			3	4
DG-AMS-3.5-4 (720-90446-13)	12/19/18	13:45 Pacific		Solid			X	X	X			3	4
DG-AOS-0.5-1 (720-90446-14)	12/19/18	14:35 Pacific		Solid			X	X	X			3	4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 12-20-18	Company: Aes	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AOS-3.5-4 (720-90446-15)	12/19/18	14:35 Pacific		Solid			X	X	X			3	
DG-AQS-0.5-1 (720-90446-16)	12/19/18	15:05 Pacific		Solid			X	X	X			3	
DG-AQS-3.5-4 (720-90446-17)	12/19/18	15:05 Pacific		Solid			X	X	X			3	
TB-121918 (720-90446-18)	12/19/18	Pacific		Water						X	X	2	check for 2 phases
DG-N4S-8.5-9 (720-90446-19)	12/19/18	11:19 Pacific		Solid			X	X				4	
DG-N4S-4.5-5 (720-90446-20)	12/19/18	10:54 Pacific		Solid			X	X				4	
DG-P4S-4.5-5 (720-90446-21)	12/19/18	09:55 Pacific		Solid			X	X				4	
DG-O4S-4.5-5 (720-90446-22)	12/19/18	10:30 Pacific		Solid			X	X				4	
DG-P4S-7.5-8 (720-90446-23)	12/19/18	10:05 Pacific		Solid			X	X				4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-O4S-9.5-10 (720-90446-24)	12/19/18	11:11 Pacific		Solid			X	X				4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B/CA_LUFTMS/Standard 8260 C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5035B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special
DG-AC3S-0.5-1 (720-90446-1)	12/19/18	08:30 Pacific		Solid	X	X	X			4
DG-AC3S-0.5-1 (720-90446-1MS)	12/19/18	08:30 Pacific	MS	Solid	X	X	X			4
DG-AC3S-0.5-1 (720-90446-1MSD)	12/19/18	08:30 Pacific	MSD	Solid	X	X	X			4
DG-AC3S-3.5-4 (720-90446-2)	12/19/18	08:30 Pacific		Solid	X	X	X			4
DG-AE3S-0.5-1 (720-90446-3)	12/19/18	09:00 Pacific		Solid	X	X	X			4
DG-AE3S-3.5-4 (720-90446-4)	12/19/18	09:00 Pacific		Solid	X	X	X			4
DG-AG3S-0.5-1 (720-90446-5)	12/19/18	09:50 Pacific		Solid	X	X	X			4
DG-AG3S-3.5-4 (720-90446-6)	12/19/18	09:50 Pacific		Solid	X	X	X			4
DG-AI3S-0.5-1 (720-90446-7)	12/19/18	11:30 Pacific		Solid	X	X	X			4

720-90446 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-20-18	Plea			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Encores or Terracores Frozen
Date: 12/20/18 Time: 11:40 Initials:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Sewage, Drinking Water, Air, etc.)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFT/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035 8260-(MOD) VOCs	8260B/CA_LUFT/5035 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AI3S-0.5-1 (720-90446-7MS)	12/19/18	11:30 Pacific	MS	Solid	X	X	X		4
DG-AI3S-0.5-1 (720-90446-7MSD)	12/19/18	11:30 Pacific	MSD	Solid	X	X	X		4
DG-AI3S-3.5-4 (720-90446-8)	12/19/18	11:30 Pacific		Solid	X	X	X		4
DG-AK3S-0.5-1 (720-90446-9)	12/19/18	13:00 Pacific		Solid	X	X	X		4
DG-AK3S-3.5-4 (720-90446-10)	12/19/18	13:00 Pacific		Solid	X	X	X		4
DUP-17 (720-90446-11)	12/19/18	Pacific		Solid	X	X	X		4
DG-AMS-0.5-1 (720-90446-12)	12/19/18	13:45 Pacific		Solid	X	X	X		4
DG-AMS-3.5-4 (720-90446-13)	12/19/18	13:45 Pacific		Solid	X	X	X		4
DG-AOS-0.5-1 (720-90446-14)	12/19/18	14:35 Pacific		Solid	X	X	X		4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		12-20-18				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #			
Email:				
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AQS-3.5-4 (720-90446-15)	12/19/18	14:35 Pacific		Solid	X	X			
DG-AQS-0.5-1 (720-90446-16)	12/19/18	15:05 Pacific		Solid	X	X			
DG-AQS-3.5-4 (720-90446-17)	12/19/18	15:05 Pacific		Solid	X	X			
TB-121918 (720-90446-18)	12/19/18	Pacific		Water			X	X	check for 2 phases
DG-N4S-8.5-9 (720-90446-19)	12/19/18	11:19 Pacific		Solid	X	X			
DG-N4S-4.5-5 (720-90446-20)	12/19/18	10:54 Pacific		Solid	X	X			
DG-P4S-4.5-5 (720-90446-21)	12/19/18	09:55 Pacific		Solid	X	X			
DG-O4S-4.5-5 (720-90446-22)	12/19/18	10:30 Pacific		Solid	X	X			
DG-P4S-7.5-8 (720-90446-23)	12/19/18	10:05 Pacific		Solid	X	X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 12-20-18	Company: Aeg	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No :
	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=wipe/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082A Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-O4S-9.5-10 (720-90446-24)	12/19/18	11:11 Pacific		Solid	X	X				

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:				
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, O=waste/oil, BT=Tissue, Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-CA-C12 Volatile Fuel Hydrocarbons	8082A/Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-CA-C12 Volatile Fuel Hydrocarbons	Special
DG-AC3S-0.5-1 (720-90446-1)	12/19/18	08:30 Pacific		Solid	X	X	X			4
DG-AC3S-0.5-1 (720-90446-1MS)	12/19/18	08:30 Pacific	MS	Solid	X	X	X			4
DG-AC3S-0.5-1 (720-90446-1MSD)	12/19/18	08:30 Pacific	MSD	Solid	X	X	X			4
DG-AC3S-3.5-4 (720-90446-2)	12/19/18	08:30 Pacific		Solid	X	X	X			4
DG-AE3S-0.5-1 (720-90446-3)	12/19/18	09:00 Pacific		Solid	X	X	X			4
DG-AE3S-3.5-4 (720-90446-4)	12/19/18	09:00 Pacific		Solid	X	X	X			4
DG-AG3S-0.5-1 (720-90446-5)	12/19/18	09:50 Pacific		Solid	X	X	X			4
DG-AG3S-3.5-4 (720-90446-6)	12/19/18	09:50 Pacific		Solid	X	X	X			4
DG-AI3S-0.5-1 (720-90446-7)	12/19/18	11:30 Pacific		Solid	X	X	X			4

720-90446 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

2/16/2019 (Rev. 1)
Page 222 of 242
Ensures or Terraces Frozen
Date: 12/20/18 Time: 11:40 Initials:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035 Standard-8082-PCB-Wet	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AI3S-0.5-1 (720-90446-7MS)	12/19/18	11:30 Pacific	MS	Solid	X	X	X			4
DG-AI3S-0.5-1 (720-90446-7MSD)	12/19/18	11:30 Pacific	MSD	Solid	X	X	X			4
DG-AI3S-3.5-4 (720-90446-8)	12/19/18	11:30 Pacific		Solid	X	X	X			4
DG-AK3S-0.5-1 (720-90446-9)	12/19/18	13:00 Pacific		Solid	X	X	X			4
DG-AK3S-3 5-4 (720-90446-10)	12/19/18	13:00 Pacific		Solid	X	X	X			4
DUP-17 (720-90446-11)	12/19/18	Pacific		Solid	X	X	X			4
DG-AMS-0.5-1 (720-90446-12)	12/19/18	13:45 Pacific		Solid	X	X	X			4
DG-AMS-3.5-4 (720-90446-13)	12/19/18	13:45 Pacific		Solid	X	X	X			4
DG-AOS-0 5-1 (720-90446-14)	12/19/18	14:35 Pacific		Solid	X	X	X			4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12-20-18	Company: Pres	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B/5035 Standard 8043 RCB Mod	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AOS-3.5-4 (720-90446-15)	12/19/18	14:35 Pacific		Solid	X	X	X			
DG-AQS-0.5-1 (720-90446-18)	12/19/18	15:05 Pacific		Solid	X	X	X			
DG-AQS-3.5-4 (720-90446-17)	12/19/18	15:05 Pacific		Solid	X	X	X			
TB-121918 (720-90446-18)	12/19/18	Pacific		Water				X	X	check for 2 phases
DG-N4S-8.5-9 (720-90446-19)	12/19/18	11:19 Pacific		Solid	X	X				
DG-N4S-4.5-5 (720-90446-20)	12/19/18	10:54 Pacific		Solid	X	X				
DG-P4S-4.5-5 (720-90446-21)	12/19/18	09:55 Pacific		Solid	X	X				
DG-O4S-4.5-5 (720-90446-22)	12/19/18	10:30 Pacific		Solid	X	X				
DG-P4S-7.5-8 (720-90446-23)	12/19/18	10:05 Pacific		Solid	X	X				

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by:	Date/Time: 12-20-18	Company: HES	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No: 720-40592.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, S=solid, Oil=oil/solid, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260B-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-O4S-9.5-10 (720-90446-24)	12/19/18	11:11 Pacific		Solid	X	X				

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4636 0276 6155	COC No: 720-40592.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Denan Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260 (MOD) VOCs + ORO	8260B/CA_LUFTMS/5035A_F_FW 8260 C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260 (MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AC3S-0.5-1 (720-90446-1)	12/19/18	08:30 Pacific		Solid			X	X	X			1	
DG-AC3S-0.5-1 (720-90446-1MS)	12/19/18	08:30 Pacific	MS	Solid			X	X	X			2	D } on 1 cont.
DG-AC3S-0.5-1 (720-90446-1MSD)	12/19/18	08:30 Pacific	MSD	Solid			X	X	X			2	R }
DG-AC3S-3.5-4 (720-90446-2)	12/19/18	08:30 Pacific		Solid			X	X	X			1	
DG-AE3S-0.5-1 (720-90446-3)	12/19/18	09:00 Pacific		Solid			X	X	X			1	
DG-AE3S-3.5-4 (720-90446-4)	12/19/18	09:00 Pacific		Solid			X	X	X			1	
DG-AG3S-0.5-1 (720-90446-5)	12/19/18	09:50 Pacific		Solid			X	X	X			1	
DG-AG3S-3.5-4 (720-90446-6)	12/19/18	09:50 Pacific		Solid			X	X	X			1	
DG-AI3S-0.5-1 (720-90446-7)	12/19/18	11:30 Pacific		Solid			X	X	X			1	on 1 cont.

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 12/20/18 1358	Company TAPLS	Received by:	Date/Time.	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time.	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/21/18 10:00	Company TA-IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4656 0276 6155	COC No: 720-40592.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - Di Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD)-VOCs+GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AI3S-0.5-1 (720-90446-7MS)	12/19/18	11:30 Pacific	MS	Solid			X	X	X			3	10
DG-AI3S-0.5-1 (720-90446-7MSD)	12/19/18	11:30 Pacific	MSD	Solid			X	X	X			3	10
DG-AI3S-3.5-4 (720-90446-8)	12/19/18	11:30 Pacific		Solid			X	X	X			3	1
DG-AK3S-0.5-1 (720-90446-9)	12/19/18	13:00 Pacific		Solid			X	X	X			3	1
DG-AK3S-3.5-4 (720-90446-10)	12/19/18	13:00 Pacific		Solid			X	X	X			3	1
DUP-17 (720-90446-11)	12/19/18	Pacific		Solid			X	X	X			3	1
DG-AMS-0.5-1 (720-90446-12)	12/19/18	13:45 Pacific		Solid			X	X	X			3	1
DG-AMS-3.5-4 (720-90446-13)	12/19/18	13:45 Pacific		Solid			X	X	X			3	1
DG-AOS-0.5-1 (720-90446-14)	12/19/18	14:35 Pacific		Solid			X	X	X			3	1

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 12/20/18 1358	Company TAPL	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company	
Relinquished by	Date/Time:	Company	Received by:	Date/Time: 12/21/18 10:00	Company TA-PLV	

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No : | Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4634 0276 6155	COC No: 720-40592.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_EW 8260_(MOD)-VOCs+GRO	8260B/CA_LUFTMS/5035A_F_EW 8260_64-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5035B 8260_(MOD)-VOCs	8260B/CA_LUFTMS/5030B 8260_64-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AOS-3.5-4 (720-90446-15)	12/19/18	14:35 Pacific		Solid			X	X	X			3	1
DG-AQS-0.5-1 (720-90446-16)	12/19/18	15:05 Pacific		Solid			X	X	X			3	1
DG-AQS-3.5-4 (720-90446-17)	12/19/18	15:05 Pacific		Solid			X	X	X			3	1
TB-121918 (720-90446-18)	12/19/18	Pacific		Water						X	X	2	check for 2 phases
DG-N4S-8.5-9 (720-90446-19)	12/19/18	11:19 Pacific		Solid			X	X				2	0
DG-N4S-4.5-5 (720-90446-20)	12/19/18	10:54 Pacific		Solid			X	X				2	0
DG-P4S-4.5-5 (720-90446-21)	12/19/18	09:55 Pacific		Solid			X	X				2	0
DG-O4S-4.5-5 (720-90446-22)	12/19/18	10:30 Pacific		Solid			X	X				2	0
DG-P4S-7.5-8 (720-90446-23)	12/19/18	10:05 Pacific		Solid			X	X				2	0

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time:	Company	Received by.	Date/Time.	Company
		12/20/18 1358	TAPLS			
	Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by:	Date/Time: 12/21/18 10:00	Company TA-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94586
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 463e 0276 6155	COC No: 720-40592.4
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_EW-8260-(MOD) VOCs + SRC	8260B/CA_LUFTMS/5035A_F_EW-8260-EACT2 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-O4S-9.5-10 (720-90446-24)	12/19/18	11:11 Pacific		Solid			X	X				2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
		12/20/18 1358	TAPLS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					12/21/18 10:00	TA-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90446-1

Login Number: 90446
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90446-1

Login Number: 90446
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/20/18 04:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90446-1

Login Number: 90446
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/20/18 04:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90446-1

Login Number: 90446
List Number: 4
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/21/18 02:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Friday, December 21, 2018 7:02 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ-TestAmerica sample confirmation files from 720-90446-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Yes please run MS/MSD on Samples 1 and 7. In terms of only receiving 2 extra VOA vials, Urvashi and I discussed this and determined this was all that is required. My field staff is already doing a lot to accommodate the needs of the lab (splitting samples into multiple jars and coolers), so I did not want to burden them with filling more than is required.

Please dispose of the extra terracore sets, these were accidentally filled at one of the locations and are not a new sample location.

Thank you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
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Direct: 510.285.2685
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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Thursday, December 20, 2018 4:26 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ-TestAmerica sample confirmation files from 720-90446-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90446-1; Brisbane OU-2 Data Gap Investigation

Please confirm that you would like MS/MSD performed on samples 1 and 7.

Regarding:
Sample 1) The COC states that there should be 12 containers however 19 containers were received.
Sample 7) The COC states that there should be 10 containers however 13 containers were received. Additionally, we only received 2x VOA vials for MS/MSD. This can be performed however we will only have one attempt to run the MS/MSD.

We will proceed with all tests unless otherwise notified.

We also received 2 terracore sets that were labeled "DO NOT ANALYZE". These both had no indication of any sample IDs. Please instruct on how you would like to proceed.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [490272]
Attachments: 3

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Saturday, January 26, 2019 1:29 PM
To: Patel, Urvashi; Anthony Smith; Krzysztof Jesionek; Bill Chen
Cc: Maxwell, Karen; Bondoc, Christian M.
Subject: RE: Geosyntec - Brisbane Terracore issue- additional jobs affected

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

-External Email-

Hi Urvashi,

Please cancel the analyses for the samples listed below. We do not want data with the H qualifier.

Feel free to call me Monday if you need further clarification,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Saturday, January 26, 2019 10:57 AM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Bill Chen <BChen@Geosyntec.com>
Cc: Maxwell, Karen <Karen.Maxwell@testamericainc.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>; Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Subject: RE: Geosyntec - Brisbane Terracore issue- additional jobs affected

Hi Miranda
Below is the table with a list of jobs that had Terracores analyzed past the 7 days hold time (in red) including sample IDs.

Job	Sample	client sample ID	Collected	CALUFT	CALUFT Elapsed	8260LL	82 Elap
720-90446	6	DG-AG3S-3.5-4	12/19/2018	12/27/2018	8	12/27/2018	8
720-90446	24	DG-O4S-9.5-10	12/19/2018	12/27/2018	8	12/27/2018	8
720-90479	9	DG-AV5S-3.5-4	12/20/2018	12/28/2018	8	12/27/2018	7
720-90479	10	DG-AV5S-7.5-8	12/20/2018	12/28/2018	8	12/28/2018	8
720-90479	11	DUP-35	12/20/2018	12/28/2018	8	12/28/2018	8
720-90479	12	DG-AT5S-0.5-1	12/20/2018	12/28/2018	8	12/28/2018	8
720-90479	13	DG-AT5S-3.5-4	12/20/2018	12/28/2018	8	12/28/2018	8
720-90479	14	Dup-18	12/20/2018	12/28/2018	8	12/28/2018	8
720-90479	18	DG-AP5S-3.5-4	12/20/2018	12/28/2018	8	12/28/2018	8
720-90479	19	DG-AN5S-0.5-1	12/20/2018	12/28/2018	8	12/28/2018	8
720-90479	20	DG-AN5S-3.5-4	12/20/2018	12/28/2018	8	12/28/2018	8
720-90479	21	DG-S9S-7	12/20/2018	12/28/2018	8	12/28/2018	8
720-90479	22	DG-S9S-4.5-5	12/20/2018	12/28/2018	8	12/28/2018	8
720-90505	1	DG-U13S-7.5-8	12/21/2018	1/4/2019	14	1/4/2019	14
720-90505	2	DG-R15S-3.5-4	12/21/2018	1/3/2019	13	1/3/2019	13
720-90640	30	DG-S7S-3.5-4	1/8/2019	1/18/2019	10	1/18/2019	10
720-90640	32	DG-U7S-3.5-4	1/8/2019	1/11/2019	3	1/18/2019	10
720-90698	34ms/msd	DG-O15S-0.5-1	1/10/2019	1/18/2019	8	1/18/2019	

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

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From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Friday, January 25, 2019 9:59 AM
To: Patel, Urvashi; Anthony Smith; Krzysztof Jesionek; Bill Chen

Cc: Maxwell, Karen; Bondoc, Christian M.
Subject: RE: Geosyntec - Brisbane Terracore issue- additional jobs affected

-External Email-

Hi Urvashi,

Monday is okay.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Thursday, January 24, 2019 6:23 PM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Bill Chen <BChen@Geosyntec.com>
Cc: Maxwell, Karen <Karen.Maxwell@testamericainc.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Subject: RE: Geosyntec - Brisbane Terracore issue- additional jobs affected

Hi Miranda
I haven't completed the table to include your sample IDs. Can I get this to you by Monday?

Urvashi

URVASHI PATEL
Manager of Project Management

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CELL 949-333-9055

From: Patel, Urvashi
Sent: Tuesday, January 22, 2019 4:07 PM
To: 'Miranda Kahrilas'; Anthony Smith; Krzysztof Jesionek; Bill Chen
Cc: Maxwell, Karen; Bondoc, Christian M.
Subject: RE: Geosyntec - Brisbane Terracore issue- additional jobs affected

Hi Miranda
These were from the first sampling event and we first noticed the issue on 1/11. The project has been updated to reflect the 7 day hold time analysis and anything logged in after 1/11 will reflect the 7 day hold. Unfortunately, the incorrect prep was listed for the samples taken from Dec and when I sent the first email, the remaining 3 jobs were in progress and data had not been uploaded at that time. Once the data had been uploaded, we evaluated for samples analyzed past the 7 day HT and listed them below. These are the last of the samples that were logged in with the incorrect Prep/analysis HT. All samples logged in from 1/11 are logged in correctly. This is not a reflection on your team as it was my error. We have been receiving the samples at Irvine within the 48 hours from sample collection and they have been frozen within the 48 hours, but we have missed the analytical hold time unfortunately (7 day). We appreciate everything your field crew has done to accommodate us to help ship terracores same day of sample collection. That has been working out extremely well.

Miranda-As per our phone conversation (a few minutes ago)-I'll cancel the ms/msd for job 720-90698 as there were other samples with ms/msd for that job. Please let me know if past jobs (from 1st email below) need to have the reports revised to show H qualifier for samples listed on the table. I will also send you a revised table with your sample IDs listed by COB tomorrow.

Urvashi

URVASHI PATEL
Manager of Project Management

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CELL 949-333-9055

www.testamericainc.com

From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Tuesday, January 22, 2019 3:35 PM
To: Patel, Urvashi; Anthony Smith; Krzysztof Jesionek; Bill Chen
Cc: Maxwell, Karen; Bondoc, Christian M.
Subject: RE: Geosyntec - Brisbane Terracore issue- additional jobs affected

-External Email-

Hi Urvashi,

How did this happen again? Can you make sure it doesn't continue to happen ASAP? I am confused for how this would continue to go on. My staff has been doing everything you have requested to ship the samples to where they need to go to ensure they are meeting hold times. Do we need to reassess this?

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Tuesday, January 22, 2019 3:07 PM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Bill Chen <BChen@Geosyntec.com>
Cc: Maxwell, Karen <Karen.Maxwell@testamericainc.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Subject: RE: Geosyntec - Brisbane Terracore issue- additional jobs affected
Importance: High

Hello All
I called and left a message with Tony and Miranda today and wanted to send this information out to you. We have 3 more jobs with missed hold times listed below (in Red). These were jobs in progress when previous email was sent to you and were not caught in-advance. Job 720-90640-32 has missed hold time for 2 analytes for the full list (due to re-analysis) and job 720-90698 has ms/msd out of hold (parent sample was within hold time). H qualifier will be added along with case narrative on the samples listed below. Again, my apologies for any inconvenience this has caused.

Job	Sample	Collected	CALUFT	CALUFT Elapsed	8260LL	8260 Elapsed	
720-90479	9	12/20/2018	12/28/2018	8	12/27/2018	7	
720-90479	10	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	11	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	12	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	13	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	14	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	18	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	19	12/20/2018	12/28/2018	8	12/28/2018	8	

720-90479	20	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	21	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	22	12/20/2018	12/28/2018	8	12/28/2018	8	

720-90640	30	1/8/2019	1/18/2019	10	1/18/2019		
720-90640	32	1/8/2019	1/11/2019	3	1/18/2019	10	ReRun for MEK, C

720-90698	34ms/msd	1/10/2019	1/18/2019	8	1/18/2019	8	only ms/msd wa time.

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

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DIRECT 949-260-3269
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From: Patel, Urvashi
Sent: Monday, January 14, 2019 4:55 PM
To: 'Miranda Kahrilas' (MKahrilas@Geosyntec.com); Anthony Smith (TSmith@Geosyntec.com); 'Krzysztof Jesionek' (KJesionek@Geosyntec.com); Bill Chen (BChen@Geosyntec.com)
Cc: Maxwell, Karen; Bondoc, Christian M.
Subject: Geosyntec - Brisbane Terracore issue

Hi Tony,
Here is a synapsis of our phone conversation today on the hold time issues. The project was set up with the 5035 Prep which is a 14 day hold time per the method, however, CA (DTSC) is a 7 day hold time so the project set up didn't reflect the correct prep method. We caught this error for the current round of samples so everything in house should meet the 7 day hold time and project has been updated. I have listed the jobs and samples that missed the 7 day hold time for analysis below (in red). The elapsed column is the number of days samples were analyzed from sample collection date. Please let me know if the data is usable or if you can re-sample, if possible. Let me know if you'd like to have a conference call to discuss the issue further and I will set that up. My apologies for any inconvenience this has caused.

Job	Sample	Collected	CALUFT	CALUFT Elapsed	8260LL	8260 Elapsed
720-90479	23	12/20/2018	12/29/2018	9	12/29/2018	9
720-90479	9	12/20/2018	12/28/2018	8	12/27/2018	7

720-90479	10	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	11	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	12	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	13	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	14	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	18	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	19	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	20	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	21	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90479	22	12/20/2018	12/28/2018	8	12/28/2018	8	
720-90505	1	12/21/2018	1/4/2019	14	1/4/2019	14	
720-90505	2	12/21/2018	1/3/2019	13	1/3/2019	13	OK; Methanol e
720-90446	6	12/19/2018	12/27/2018	8	12/27/2018	8	
720-90446	24	12/19/2018	12/27/2018	8	12/27/2018	8	

Regards,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

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Please check with your PM before submitting short hold samples after 5pm or on Saturday.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90447-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/16/2019 4:00:29 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90447-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90447-1

Comments
No additional comments.

Receipt
The samples were received on 12/19/2018 7:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 1.0º C, 1.0º C, 1.2º C, 1.3º C, 1.4º C, 1.6º C, 2.5º C and 2.7º C.

Metals
Method 6010B: The method blank for preparation batch 720-257460 and analytical batch 720-257762 contained Ba above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257460 and analytical batch 720-257762 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-257762 were outside of control limits: Ag-128%, Ba-162%, Be-157%, Cr-135%, Cu-163%, and V-157%.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-T7S-3.5-4 (720-90447-4), DUP-45 (720-90447-5), DG-V7S-0.5-1 (720-90447-6), DG-V7S-3.5-4 (720-90447-7), DG-X7S-0.5-1 (720-90447-8), DG-X7S-3.5-4 (720-90447-9), DUP-46 (720-90447-10), DG-AB7S-0.5-1 (720-90447-11), DG-AB7S-3.5-4 (720-90447-12), DG-AD7S-0.5-1 (720-90447-13), DG-AD7S-3.5-4 (720-90447-14), DG-AF7S-0.5-1 (720-90447-15), DG-AF7S-3.5-4 (720-90447-16), DG-AH7S-0.5-1 (720-90447-17), DG-AH7S-3.5-4 (720-90447-18), DG-AJ7S-0.5-1 (720-90447-19), DG-AJ7S-3.5-4 (720-90447-20), DG-AL7S-0.5-1 (720-90447-21), DG-AL7S-3.5-4 (720-90447-22), (720-90446-A-7-C), (720-90446-A-7-A MS), (720-90446-A-7-D MSD), (720-90446-A-7-C PDS) and (720-90446-A-7-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257489 and analytical batch 720-257780 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-257780 were outside of control limits: Ba-228%, Cu-190%, Pb-401%, and Zn-395%.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257780 was outside control limits for Ba-145%, Pb-154%, and Zn-149%: (720-90448-A-21-D SD).

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AN7S-0.5-1 (720-90447-23), DG-AN7S-3.5-4 (720-90447-24), DG-AL7S-14.5-15 (720-90447-25), DG-AP7S-0.5-1 (720-90447-26), (720-90448-A-21-D), (720-90448-A-21-B MS), (720-90448-A-21-C MSD), (720-90448-A-21-D PDS) and (720-90448-A-21-D SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-257780 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257489 and analytical batch 720-257782 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-257782 were outside of control limits: Ba-228%, Cu-190%, Pb-401%, and Zn-395%.

Job ID: 720-90447-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257782 was outside control limits for Ba-145%, Pb-154%, and Zn-149%: (720-90448-A-21-D SD).

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-257874 were outside of control limits: As-236% and Ba-133%.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257874 was outside control limits for As-17%, Ba-19%, Co-37%, Cr-21%, Ni-21%, Pb-20%, Tl-18%, and V-22%: (720-90479-E-9-I SD).

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257521 and analytical batch 720-257874 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS) precision was within acceptance limits.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-257874 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-AP7S-3.5-4 (720-90447-27), DUP-49 (720-90447-28), DG-AR7S-0.5-1 (720-90447-29), DG-AR7S-3.5-4 (720-90447-30), DG-AT7S-3.5-4 (720-90447-31), (720-90479-E-9-I), (720-90479-E-9-G MS), (720-90479-E-9-H MSD), (720-90479-E-9-I PDS) and (720-90479-E-9-I SD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Client Sample ID: DG-R7S-0.5-1 — Lab Sample ID: 720-90447-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	6.0		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	120		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.32		0.30	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.86		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	27		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	97		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	140		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	28		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.0	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	150		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R7S-3.5-4 — Lab Sample ID: 720-90447-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	21		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	38		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	400		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	2.7		0.34	0.033	mg/Kg	4		6010B	Total/NA
Chromium	39		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	790		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	4000		1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	3.1		1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	67		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.7	0.40	mg/Kg	4		6010B	Total/NA
Silver	9.9		0.67	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	23		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	1300		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.054		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R7S-8-8.5 — Lab Sample ID: 720-90447-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	38		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	24		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	670		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.31		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	2.6		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	34		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.4		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	630		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	3800		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	3.6		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	33		1.1	0.11	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R7S-8-8.5 (Continued) — Lab Sample ID: 720-90447-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	2.0	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Silver	3.8		0.55	0.11	mg/Kg	4		6010B	Total/NA
Thallium	0.98	J	1.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	1900		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T7S-3.5-4 — Lab Sample ID: 720-90447-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.7		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	6.5		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	220	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	0.57		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	21		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	6.3		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	86		4.5	2.2	mg/Kg	4		6010B	Total/NA
Lead	420		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.72	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	21		1.5	0.15	mg/Kg	4		6010B	Total/NA
Silver	0.78		0.76	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	390		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-45 — Lab Sample ID: 720-90447-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.7		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	7.0		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	250	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.49		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	21		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	6.1		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	220		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	750		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.68	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	21		1.8	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.29	J	0.92	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	440		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.076		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V7S-0.5-1 — Lab Sample ID: 720-90447-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.4		3.6	0.60	mg/Kg	10		6010B	Total/NA
Arsenic	11		7.2	0.62	mg/Kg	10		6010B	Total/NA
Barium	77	B	1.4	0.21	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V7S-0.5-1 (Continued) — Lab Sample ID: 720-90447-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.42		0.29	0.094	mg/Kg	4		6010B	Total/NA
Chromium	42		3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	130		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	810		3.6	0.76	mg/Kg	10		6010B	Total/NA
Molybdenum	3.3		1.4	0.19	mg/Kg	4		6010B	Total/NA
Nickel	37		3.6	0.37	mg/Kg	10		6010B	Total/NA
Silver	0.50	J	1.8	0.37	mg/Kg	10		6010B	Total/NA
Vanadium	52		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	220		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	0.12		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V7S-3.5-4 — Lab Sample ID: 720-90447-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.3		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	6.6		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	240	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.087	J	0.25	0.081	mg/Kg	4		6010B	Total/NA
Cadmium	0.67		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	23		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	6.0		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	220		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	680		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	26		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.55	J	0.63	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	480		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.075		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X7S-0.5-1 — Lab Sample ID: 720-90447-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.9		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	5.3		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	75	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.96		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	24		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.6		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	1200		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	230		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	2.1		1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	31		1.5	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	210		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X7S-3.5-4 — Lab Sample ID: 720-90447-9

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Client Sample ID: DG-X7S-3.5-4 (Continued) — Lab Sample ID: 720-90447-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	3.5	J	3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	100	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	15		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	4.6		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	82		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	210		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	13		1.8	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.43	J	0.92	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	130		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.029		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-46 — Lab Sample ID: 720-90447-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	8.2		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	98	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	37		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	150		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	220		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	2.3		1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	27		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	280		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB7S-0.5-1 — Lab Sample ID: 720-90447-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	5.7		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	48		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	150		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	150		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	1.7		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	67		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	270		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Client Sample ID: DG-AB7S-3.5-4 — Lab Sample ID: 720-90447-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	6.9		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	180	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.40	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	21		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.7		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	60		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	280		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.50	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	82		1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.20	J	0.93	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	220		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.055		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD7S-0.5-1 — Lab Sample ID: 720-90447-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.7		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	10		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	4.2		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	64		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	470		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	480		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	7.3		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	77		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Silver	0.19	J	0.85	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	970		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.72		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD7S-3.5-4 — Lab Sample ID: 720-90447-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.76	J	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	5.2		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	76	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.33	0.032	mg/Kg	4		6010B	Total/NA
Chromium	21		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	24		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	55		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.43	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	24		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	74		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.048		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Client Sample ID: DG-AF7S-0.5-1 — Lab Sample ID: 720-90447-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	22		3.1	0.52	mg/Kg	10		6010B	Total/NA
Arsenic	19		6.3	0.53	mg/Kg	10		6010B	Total/NA
Barium	360	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	8.3		0.79	0.078	mg/Kg	10		6010B	Total/NA
Chromium	780		3.1	0.33	mg/Kg	10		6010B	Total/NA
Cobalt	16		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	650		9.4	4.5	mg/Kg	10		6010B	Total/NA
Lead	1800		3.1	0.66	mg/Kg	10		6010B	Total/NA
Molybdenum	13		1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	78		3.1	0.32	mg/Kg	10		6010B	Total/NA
Silver	7.1		1.6	0.32	mg/Kg	10		6010B	Total/NA
Vanadium	59		3.1	0.43	mg/Kg	10		6010B	Total/NA
Zinc	1700		9.4	4.0	mg/Kg	10		6010B	Total/NA
Mercury	0.93		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF7S-3.5-4 — Lab Sample ID: 720-90447-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.82	J	1.2	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	3.9		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	93	B	1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.48		0.25	0.081	mg/Kg	4		6010B	Total/NA
Cadmium	0.54		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	21		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	7.4		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	44		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	35		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.70	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	17		1.2	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	58		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.028		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH7S-0.5-1 — Lab Sample ID: 720-90447-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	21		6.1	1.0	mg/Kg	20		6010B	Total/NA
Arsenic	53		12	1.0	mg/Kg	20		6010B	Total/NA
Barium	580	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.54		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	22		1.5	0.15	mg/Kg	20		6010B	Total/NA
Chromium	120		6.1	0.64	mg/Kg	20		6010B	Total/NA
Cobalt	17		2.4	0.24	mg/Kg	20		6010B	Total/NA
Copper	650		18	8.6	mg/Kg	20		6010B	Total/NA
Lead	1800		6.1	1.3	mg/Kg	20		6010B	Total/NA
Molybdenum	24		1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	130		6.1	0.62	mg/Kg	20		6010B	Total/NA
Selenium	2.3	J	12	1.8	mg/Kg	20		6010B	Total/NA
Silver	2.8	J	3.0	0.61	mg/Kg	20		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH7S-0.5-1 (Continued) — Lab Sample ID: 720-90447-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	39		6.1	0.82	mg/Kg	20		6010B	Total/NA
Zinc	2500		18	7.7	mg/Kg	20		6010B	Total/NA
Mercury	2.8		0.066	0.0097	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AH7S-3.5-4 — Lab Sample ID: 720-90447-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	3.7		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	74	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	13		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	19		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	44		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.91	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	28		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	45		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.027		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ7S-0.5-1 — Lab Sample ID: 720-90447-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	38		4.6	0.77	mg/Kg	10		6010B	Total/NA
Arsenic	25		9.3	0.79	mg/Kg	10		6010B	Total/NA
Barium	290	B	1.9	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	9.8		1.2	0.11	mg/Kg	10		6010B	Total/NA
Chromium	230		4.6	0.49	mg/Kg	10		6010B	Total/NA
Cobalt	20		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	1200		14	6.6	mg/Kg	10		6010B	Total/NA
Lead	3000		4.6	0.97	mg/Kg	10		6010B	Total/NA
Molybdenum	40		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	180		4.6	0.47	mg/Kg	10		6010B	Total/NA
Silver	2.5		2.3	0.47	mg/Kg	10		6010B	Total/NA
Vanadium	41		4.6	0.63	mg/Kg	10		6010B	Total/NA
Zinc	2000		14	5.9	mg/Kg	10		6010B	Total/NA
Mercury	2.0		0.060	0.0088	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AJ7S-3.5-4 — Lab Sample ID: 720-90447-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	3.2	J	3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	93	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.33	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	19		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.6		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	29		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	81		1.9	0.40	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ7S-3.5-4 (Continued) — Lab Sample ID: 720-90447-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.77	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	18		1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	100		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.093		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL7S-0.5-1 — Lab Sample ID: 720-90447-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	20		3.0	0.50	mg/Kg	10		6010B	Total/NA
Arsenic	17		6.0	0.51	mg/Kg	10		6010B	Total/NA
Barium	300	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	12		0.75	0.075	mg/Kg	10		6010B	Total/NA
Chromium	300		3.0	0.32	mg/Kg	10		6010B	Total/NA
Cobalt	16		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	390		9.0	4.3	mg/Kg	10		6010B	Total/NA
Lead	1000		3.0	0.63	mg/Kg	10		6010B	Total/NA
Molybdenum	67		1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	240		3.0	0.31	mg/Kg	10		6010B	Total/NA
Selenium	1.6	J	6.0	0.90	mg/Kg	10		6010B	Total/NA
Silver	0.62	J	1.5	0.30	mg/Kg	10		6010B	Total/NA
Vanadium	34		3.0	0.41	mg/Kg	10		6010B	Total/NA
Zinc	1200		9.0	3.8	mg/Kg	10		6010B	Total/NA
Mercury	0.059		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL7S-3.5-4 — Lab Sample ID: 720-90447-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.93	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	6.4		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	85	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	16		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	6.6		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	22		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	32		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.70	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	22		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	140		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.036		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN7S-0.5-1 — Lab Sample ID: 720-90447-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	10		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	15		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	230		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	7.2		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	86		1.6	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AN7S-0.5-1 (Continued) — Lab Sample ID: 720-90447-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	12		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	500		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	870	^	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	8.4		1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	96		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.98		0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	1300		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.97		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN7S-3.5-4 — Lab Sample ID: 720-90447-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.64	J	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	3.3		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	66		1.7	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.070	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	12		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	4.9		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	17		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	19	^	1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	15		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.69	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	55		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.030		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL7S-14.5-15 — Lab Sample ID: 720-90447-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.7		3.9	0.65	mg/Kg	10		6010B	Total/NA
Arsenic	17		7.9	0.67	mg/Kg	10		6010B	Total/NA
Barium	440		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.98	0.098	mg/Kg	10		6010B	Total/NA
Chromium	49		3.9	0.42	mg/Kg	10		6010B	Total/NA
Cobalt	8.2		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	220		12	5.6	mg/Kg	10		6010B	Total/NA
Lead	1200		3.9	0.83	mg/Kg	10		6010B	Total/NA
Molybdenum	0.52	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	36		3.9	0.40	mg/Kg	10		6010B	Total/NA
Selenium	1.7	J	7.9	1.2	mg/Kg	10		6010B	Total/NA
Silver	1.3	J	2.0	0.40	mg/Kg	10		6010B	Total/NA
Vanadium	34		3.9	0.54	mg/Kg	10		6010B	Total/NA
Zinc	1100		12	5.0	mg/Kg	10		6010B	Total/NA
Mercury	0.063		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP7S-0.5-1 — Lab Sample ID: 720-90447-26

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Client Sample ID: DG-AP7S-0.5-1 (Continued) — Lab Sample ID: 720-90447-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	14		3.6	0.60	mg/Kg	10		6010B	Total/NA
Arsenic	34		7.2	0.61	mg/Kg	10		6010B	Total/NA
Barium	440		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	9.9		0.90	0.089	mg/Kg	10		6010B	Total/NA
Chromium	73		3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	21		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	450		11	5.1	mg/Kg	10		6010B	Total/NA
Lead	810		3.6	0.76	mg/Kg	10		6010B	Total/NA
Molybdenum	15		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	88		3.6	0.37	mg/Kg	10		6010B	Total/NA
Selenium	2.8	J	7.2	1.1	mg/Kg	10		6010B	Total/NA
Silver	0.46	J	1.8	0.36	mg/Kg	10		6010B	Total/NA
Vanadium	30		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	1400		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	1.9		0.066	0.0097	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AP7S-3.5-4 — Lab Sample ID: 720-90447-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	5.2		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	61		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.28	0.091	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	15		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	5.3		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	15		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	7.2	^	1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	16		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	35		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.019		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-49 — Lab Sample ID: 720-90447-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	5.2		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	60		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	18		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	4.9		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	19		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	13	^	1.3	0.28	mg/Kg	4		6010B	Total/NA
Nickel	16		1.3	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	49		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.022		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Client Sample ID: DG-AR7S-0.5-1 — Lab Sample ID: 720-90447-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.4		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	150		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.30	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	3.4		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	74		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	260		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	2700	^	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	16		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	77		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	3.0	0.44	mg/Kg	4		6010B	Total/NA
Silver	3.0		0.74	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	580		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.70		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR7S-3.5-4 — Lab Sample ID: 720-90447-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.77	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	2.4	J	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	45		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.056	J	0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	12		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	4.5		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	9.8		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	8.9	^	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	17		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	19		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	26		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.022		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT7S-3.5-4 — Lab Sample ID: 720-90447-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	86		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	70		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.070	J	0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	15		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	66		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	21	^	1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	17		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	54		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.052		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R7S-0.5-1

Date Collected: 12/19/18 08:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.5	0.25	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Arsenic	6.0		3.0	0.25	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Barium	120		1.5	0.21	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Beryllium	0.32		0.30	0.096	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Cadmium	0.86		0.37	0.037	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Chromium	27		1.5	0.16	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Cobalt	7.2		0.59	0.059	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Copper	97		4.4	2.1	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Lead	140		1.5	0.31	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Molybdenum	1.1	J	1.5	0.19	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Nickel	28		1.5	0.15	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Selenium	1.2	J	3.0	0.44	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Silver	ND		0.74	0.15	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Thallium	ND		1.5	0.43	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Vanadium	39		1.5	0.20	mg/Kg		12/22/18 10:25	12/31/18 11:15	4
Zinc	150		4.4	1.9	mg/Kg		12/22/18 10:25	12/31/18 11:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		12/28/18 08:28	12/28/18 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-R7S-3.5-4

Date Collected: 12/19/18 08:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	21		1.3	0.22	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Arsenic	38		2.7	0.23	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Barium	400		1.3	0.19	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Beryllium	0.50		0.27	0.087	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Cadmium	2.7		0.34	0.033	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Chromium	39		1.3	0.14	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Cobalt	10		0.54	0.054	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Copper	790		4.0	1.9	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Lead	4000		1.3	0.28	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Molybdenum	3.1		1.3	0.17	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Nickel	67		1.3	0.14	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Selenium	1.8	J	2.7	0.40	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Silver	9.9		0.67	0.14	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Thallium	ND		1.3	0.39	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Vanadium	23		1.3	0.18	mg/Kg		12/22/18 10:25	12/31/18 11:20	4
Zinc	1300		4.0	1.7	mg/Kg		12/22/18 10:25	12/31/18 11:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.016	0.0023	mg/Kg		12/28/18 08:28	12/28/18 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.7		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-R7S-8-8.5

Date Collected: 12/19/18 08:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	38		1.1	0.18	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Arsenic	24		2.2	0.19	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Barium	670		1.1	0.16	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Beryllium	0.31		0.22	0.071	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Cadmium	2.6		0.27	0.027	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Chromium	34		1.1	0.12	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Cobalt	8.4		0.44	0.044	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Copper	630		3.3	1.6	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Lead	3800		1.1	0.23	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Molybdenum	3.6		1.1	0.14	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Nickel	33		1.1	0.11	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Selenium	2.0	J	2.2	0.33	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Silver	3.8		0.55	0.11	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Thallium	0.98	J	1.1	0.32	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Vanadium	25		1.1	0.15	mg/Kg		12/22/18 10:25	12/31/18 11:25	4
Zinc	1900		3.3	1.4	mg/Kg		12/22/18 10:25	12/31/18 11:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.017	0.0025	mg/Kg		12/28/18 08:28	12/28/18 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.9		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-T7S-3.5-4

Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.5	0.25	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Arsenic	6.5		3.0	0.26	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Barium	220	B	1.5	0.22	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Beryllium	0.17	J	0.30	0.098	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Cadmium	0.57		0.38	0.038	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Chromium	21		1.5	0.16	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Cobalt	6.3		0.61	0.061	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Copper	86		4.5	2.2	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Lead	420		1.5	0.32	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Molybdenum	0.72	J	1.5	0.19	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Nickel	21		1.5	0.15	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Selenium	ND		3.0	0.45	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Silver	0.78		0.76	0.15	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Thallium	ND		1.5	0.44	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Vanadium	34		1.5	0.21	mg/Kg		12/21/18 15:30	12/28/18 13:24	4
Zinc	390		4.5	1.9	mg/Kg		12/21/18 15:30	12/28/18 13:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.015	0.0022	mg/Kg		12/28/18 08:28	12/28/18 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DUP-45

Date Collected: 12/19/18 08:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.8	0.30	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Arsenic	7.0		3.7	0.31	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Barium	250	B	1.8	0.26	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Beryllium	ND		0.37	0.12	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Cadmium	0.49		0.46	0.046	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Chromium	21		1.8	0.19	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Cobalt	6.1		0.73	0.073	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Copper	220		5.5	2.6	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Lead	750		1.8	0.39	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Molybdenum	0.68	J	1.8	0.23	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Nickel	21		1.8	0.19	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Selenium	ND		3.7	0.55	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Silver	0.29	J	0.92	0.19	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Thallium	ND		1.8	0.53	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Vanadium	34		1.8	0.25	mg/Kg		12/21/18 15:30	12/28/18 13:29	4
Zinc	440		5.5	2.3	mg/Kg		12/21/18 15:30	12/28/18 13:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		0.017	0.0025	mg/Kg		12/28/18 08:28	12/28/18 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-V7S-0.5-1

Date Collected: 12/19/18 09:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.4		3.6	0.60	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Arsenic	11		7.2	0.62	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Barium	77	B	1.4	0.21	mg/Kg		12/21/18 15:30	12/28/18 13:43	4
Beryllium	0.42		0.29	0.094	mg/Kg		12/21/18 15:30	12/28/18 13:43	4
Cadmium	ND		0.91	0.090	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Chromium	42		3.6	0.38	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Cobalt	13		1.4	0.14	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Copper	130		11	5.2	mg/Kg		12/21/18 15:30	12/31/18 17:07	10
Lead	810		3.6	0.76	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Molybdenum	3.3		1.4	0.19	mg/Kg		12/21/18 15:30	12/28/18 13:43	4
Nickel	37		3.6	0.37	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Selenium	ND		7.2	1.1	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Silver	0.50	J	1.8	0.37	mg/Kg		12/21/18 15:30	12/31/18 17:07	10
Thallium	ND		3.6	1.1	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Vanadium	52		3.6	0.49	mg/Kg		12/21/18 15:30	12/31/18 14:54	10
Zinc	220		11	4.6	mg/Kg		12/21/18 15:30	12/31/18 14:54	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.015	0.0023	mg/Kg		12/28/18 08:28	12/28/18 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-V7S-3.5-4

Date Collected: 12/19/18 09:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.3		1.3	0.21	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Arsenic	6.6		2.5	0.21	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Barium	240	B	1.3	0.18	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Beryllium	0.087	J	0.25	0.081	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Cadmium	0.67		0.31	0.031	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Chromium	23		1.3	0.13	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Cobalt	6.0		0.50	0.050	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Copper	220		3.8	1.8	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Lead	680		1.3	0.26	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Molybdenum	1.1	J	1.3	0.16	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Nickel	26		1.3	0.13	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Selenium	ND		2.5	0.38	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Silver	0.55	J	0.63	0.13	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Thallium	ND		1.3	0.36	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Vanadium	31		1.3	0.17	mg/Kg		12/21/18 15:30	12/28/18 13:48	4
Zinc	480		3.8	1.6	mg/Kg		12/21/18 15:30	12/28/18 13:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.015	0.0022	mg/Kg		12/28/18 08:28	12/28/18 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-X7S-0.5-1

Date Collected: 12/19/18 09:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.9		1.5	0.25	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Arsenic	5.3		3.1	0.26	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Barium	75	B	1.5	0.22	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Beryllium	ND		0.31	0.099	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Cadmium	0.96		0.38	0.038	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Chromium	24		1.5	0.16	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Cobalt	7.6		0.61	0.061	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Copper	1200		4.6	2.2	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Lead	230		1.5	0.32	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Molybdenum	2.1		1.5	0.20	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Nickel	31		1.5	0.16	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Selenium	ND		3.1	0.46	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Silver	ND		0.76	0.15	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Thallium	ND		1.5	0.44	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Vanadium	44		1.5	0.21	mg/Kg		12/21/18 15:30	12/28/18 13:53	4
Zinc	210		4.6	1.9	mg/Kg		12/21/18 15:30	12/28/18 13:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.014	0.0021	mg/Kg		12/28/18 08:28	12/28/18 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.8		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-X7S-3.5-4

Date Collected: 12/19/18 09:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	J	1.8	0.30	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Arsenic	3.5	J	3.7	0.31	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Barium	100	B	1.8	0.26	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Beryllium	ND		0.37	0.12	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Cadmium	0.27	J	0.46	0.046	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Chromium	15		1.8	0.19	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Cobalt	4.6		0.73	0.073	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Copper	82		5.5	2.6	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Lead	210		1.8	0.39	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Molybdenum	0.39	J	1.8	0.23	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Nickel	13		1.8	0.19	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Selenium	ND		3.7	0.55	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Silver	0.43	J	0.92	0.19	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Thallium	ND		1.8	0.53	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Vanadium	27		1.8	0.25	mg/Kg		12/21/18 15:30	12/28/18 13:58	4
Zinc	130		5.5	2.3	mg/Kg		12/21/18 15:30	12/28/18 13:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0025	mg/Kg		12/28/18 08:28	12/28/18 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DUP-46

Date Collected: 12/19/18 09:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.6	0.27	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Arsenic	8.2		3.2	0.27	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Barium	98	B	1.6	0.23	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Beryllium	0.22	J	0.32	0.10	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Cadmium	1.2		0.40	0.040	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Chromium	37		1.6	0.17	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Cobalt	10		0.65	0.065	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Copper	150		4.8	2.3	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Lead	220		1.6	0.34	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Molybdenum	2.3		1.6	0.21	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Nickel	27		1.6	0.16	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Selenium	ND		3.2	0.48	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Silver	ND		0.81	0.16	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Thallium	ND		1.6	0.47	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Vanadium	67		1.6	0.22	mg/Kg		12/21/18 15:30	12/28/18 14:02	4
Zinc	280		4.8	2.0	mg/Kg		12/21/18 15:30	12/28/18 14:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-AB7S-0.5-1

Date Collected: 12/19/18 09:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.6	0.26	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Arsenic	5.7		3.1	0.26	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Barium	110	B	1.6	0.22	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Beryllium	ND		0.31	0.10	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Cadmium	1.6		0.39	0.038	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Chromium	48		1.6	0.16	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Cobalt	14		0.62	0.062	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Copper	150		4.7	2.2	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Lead	150		1.6	0.33	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Molybdenum	1.7		1.6	0.20	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Nickel	67		1.6	0.16	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Selenium	ND		3.1	0.47	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Silver	ND		0.78	0.16	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Thallium	ND		1.6	0.45	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Vanadium	63		1.6	0.21	mg/Kg		12/21/18 15:30	12/28/18 14:07	4
Zinc	270		4.7	2.0	mg/Kg		12/21/18 15:30	12/28/18 14:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1	0.05	%			12/21/18 10:19	1

Client Sample ID: DG-AB7S-3.5-4

Date Collected: 12/19/18 09:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.9	0.31	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Arsenic	6.9		3.7	0.32	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Barium	180	B	1.9	0.27	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Beryllium	ND		0.37	0.12	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Cadmium	0.40	J	0.47	0.046	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Chromium	21		1.9	0.20	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Cobalt	5.7		0.75	0.075	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Copper	60		5.6	2.7	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Lead	280		1.9	0.39	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Molybdenum	0.50	J	1.9	0.24	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Nickel	82		1.9	0.19	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Selenium	ND		3.7	0.56	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Silver	0.20	J	0.93	0.19	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Thallium	ND		1.9	0.54	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Vanadium	33		1.9	0.25	mg/Kg		12/21/18 15:30	12/28/18 14:12	4
Zinc	220		5.6	2.4	mg/Kg		12/21/18 15:30	12/28/18 14:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.0		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AD7S-0.5-1

Date Collected: 12/19/18 10:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.7		1.7	0.28	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Arsenic	10		3.4	0.29	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Barium	120	B	1.7	0.24	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Beryllium	ND		0.34	0.11	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Cadmium	4.2		0.42	0.042	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Chromium	64		1.7	0.18	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Cobalt	15		0.68	0.068	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Copper	470		5.1	2.4	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Lead	480		1.7	0.36	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Molybdenum	7.3		1.7	0.22	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Nickel	77		1.7	0.17	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Selenium	1.4	J	3.4	0.51	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Silver	0.19	J	0.85	0.17	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Thallium	ND		1.7	0.49	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Vanadium	64		1.7	0.23	mg/Kg		12/21/18 15:30	12/28/18 14:17	4
Zinc	970		5.1	2.2	mg/Kg		12/21/18 15:30	12/28/18 14:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.72		0.016	0.0023	mg/Kg		12/24/18 08:18	01/07/19 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AD7S-3.5-4

Date Collected: 12/19/18 10:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.76	J	1.3	0.22	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Arsenic	5.2		2.6	0.22	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Barium	76	B	1.3	0.19	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Beryllium	ND		0.26	0.085	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Cadmium	0.14	J	0.33	0.032	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Chromium	21		1.3	0.14	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Cobalt	6.2		0.52	0.052	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Copper	24		3.9	1.9	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Lead	55		1.3	0.27	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Molybdenum	0.43	J	1.3	0.17	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Nickel	24		1.3	0.13	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Selenium	ND		2.6	0.39	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Silver	ND		0.65	0.13	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Thallium	ND		1.3	0.38	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Vanadium	34		1.3	0.18	mg/Kg		12/21/18 15:30	12/28/18 14:21	4
Zinc	74		3.9	1.7	mg/Kg		12/21/18 15:30	12/28/18 14:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.014	0.0021	mg/Kg		12/24/18 08:18	01/07/19 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.5		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AF7S-0.5-1

Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	22		3.1	0.52	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Arsenic	19		6.3	0.53	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Barium	360	B	1.3	0.18	mg/Kg		12/21/18 15:30	12/28/18 14:26	4
Beryllium	0.15	J	0.25	0.082	mg/Kg		12/21/18 15:30	12/28/18 14:26	4
Cadmium	8.3		0.79	0.078	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Chromium	780		3.1	0.33	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Cobalt	16		1.3	0.13	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Copper	650		9.4	4.5	mg/Kg		12/21/18 15:30	12/31/18 17:11	10
Lead	1800		3.1	0.66	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Molybdenum	13		1.3	0.16	mg/Kg		12/21/18 15:30	12/28/18 14:26	4
Nickel	78		3.1	0.32	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Selenium	ND		6.3	0.94	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Silver	7.1		1.6	0.32	mg/Kg		12/21/18 15:30	12/31/18 17:11	10
Thallium	ND		3.1	0.91	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Vanadium	59		3.1	0.43	mg/Kg		12/21/18 15:30	12/31/18 14:59	10
Zinc	1700		9.4	4.0	mg/Kg		12/21/18 15:30	12/31/18 14:59	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.93		0.016	0.0023	mg/Kg		12/24/18 08:18	01/07/19 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AF7S-3.5-4

Date Collected: 12/19/18 11:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.82	J	1.2	0.21	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Arsenic	3.9		2.5	0.21	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Barium	93	B	1.2	0.18	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Beryllium	0.48		0.25	0.081	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Cadmium	0.54		0.31	0.031	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Chromium	21		1.2	0.13	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Cobalt	7.4		0.50	0.050	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Copper	44		3.7	1.8	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Lead	35		1.2	0.26	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Molybdenum	0.70	J	1.2	0.16	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Nickel	17		1.2	0.13	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Selenium	ND		2.5	0.37	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Silver	ND		0.62	0.13	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Thallium	ND		1.2	0.36	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Vanadium	52		1.2	0.17	mg/Kg		12/21/18 15:30	12/28/18 14:40	4
Zinc	58		3.7	1.6	mg/Kg		12/21/18 15:30	12/28/18 14:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.014	0.0021	mg/Kg		12/24/18 08:18	01/07/19 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.1		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AH7S-0.5-1

Lab Sample ID: 720-90447-17

Date Collected: 12/19/18 11:40

Matrix: Solid

Date Received: 12/19/18 19:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	21		6.1	1.0	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Arsenic	53		12	1.0	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Barium	580	B	1.2	0.17	mg/Kg		12/21/18 15:30	12/28/18 14:45	4
Beryllium	0.54		0.24	0.079	mg/Kg		12/21/18 15:30	12/28/18 14:45	4
Cadmium	22		1.5	0.15	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Chromium	120		6.1	0.64	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Cobalt	17		2.4	0.24	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Copper	650		18	8.6	mg/Kg		12/21/18 15:30	12/31/18 17:16	20
Lead	1800		6.1	1.3	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Molybdenum	24		1.2	0.16	mg/Kg		12/21/18 15:30	12/28/18 14:45	4
Nickel	130		6.1	0.62	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Selenium	2.3	J	12	1.8	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Silver	2.8	J	3.0	0.61	mg/Kg		12/21/18 15:30	12/31/18 17:16	20
Thallium	ND		6.1	1.8	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Vanadium	39		6.1	0.82	mg/Kg		12/21/18 15:30	12/31/18 15:03	20
Zinc	2500		18	7.7	mg/Kg		12/21/18 15:30	12/31/18 15:03	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.8		0.066	0.0097	mg/Kg		12/24/18 08:18	01/07/19 12:53	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.2		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AH7S-3.5-4

Date Collected: 12/19/18 11:40
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.8	0.30	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Arsenic	3.7		3.6	0.31	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Barium	74	B	1.8	0.26	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Beryllium	ND		0.36	0.12	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Cadmium	0.14	J	0.45	0.045	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Chromium	13		1.8	0.19	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Cobalt	8.1		0.72	0.072	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Copper	19		5.4	2.6	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Lead	44		1.8	0.38	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Molybdenum	0.91	J	1.8	0.23	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Nickel	28		1.8	0.18	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Selenium	ND		3.6	0.54	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Silver	ND		0.90	0.18	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Thallium	ND		1.8	0.52	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Vanadium	35		1.8	0.25	mg/Kg		12/21/18 15:30	12/28/18 14:50	4
Zinc	45		5.4	2.3	mg/Kg		12/21/18 15:30	12/28/18 14:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.015	0.0022	mg/Kg		12/24/18 08:18	01/07/19 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.6		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AJ7S-0.5-1

Date Collected: 12/19/18 13:10
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	38		4.6	0.77	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Arsenic	25		9.3	0.79	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Barium	290	B	1.9	0.26	mg/Kg		12/21/18 15:30	12/28/18 14:55	4
Beryllium	ND		0.37	0.12	mg/Kg		12/21/18 15:30	12/28/18 14:55	4
Cadmium	9.8		1.2	0.11	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Chromium	230		4.6	0.49	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Cobalt	20		1.9	0.19	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Copper	1200		14	6.6	mg/Kg		12/21/18 15:30	12/31/18 17:20	10
Lead	3000		4.6	0.97	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Molybdenum	40		1.9	0.24	mg/Kg		12/21/18 15:30	12/28/18 14:55	4
Nickel	180		4.6	0.47	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Selenium	ND		9.3	1.4	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Silver	2.5		2.3	0.47	mg/Kg		12/21/18 15:30	12/31/18 17:20	10
Thallium	ND		4.6	1.3	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Vanadium	41		4.6	0.63	mg/Kg		12/21/18 15:30	12/31/18 15:08	10
Zinc	2000		14	5.9	mg/Kg		12/21/18 15:30	12/31/18 15:08	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.0		0.060	0.0088	mg/Kg		12/24/18 08:18	01/07/19 12:58	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.1		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AJ7S-3.5-4

Date Collected: 12/19/18 13:10
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.9	0.32	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Arsenic	3.2	J	3.8	0.33	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Barium	93	B	1.9	0.27	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Beryllium	ND		0.38	0.13	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Cadmium	0.33	J	0.48	0.048	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Chromium	19		1.9	0.20	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Cobalt	5.6		0.77	0.077	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Copper	29		5.8	2.7	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Lead	81		1.9	0.40	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Molybdenum	0.77	J	1.9	0.25	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Nickel	18		1.9	0.20	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Selenium	ND		3.8	0.58	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Silver	ND		0.96	0.19	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Thallium	ND		1.9	0.56	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Vanadium	31		1.9	0.26	mg/Kg		12/21/18 15:30	12/28/18 15:00	4
Zinc	100		5.8	2.4	mg/Kg		12/21/18 15:30	12/28/18 15:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.093		0.016	0.0024	mg/Kg		12/24/18 08:18	01/07/19 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.9		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AL7S-0.5-1

Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20		3.0	0.50	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Arsenic	17		6.0	0.51	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Barium	300	B	1.2	0.17	mg/Kg		12/21/18 15:30	12/28/18 15:04	4
Beryllium	ND		0.24	0.078	mg/Kg		12/21/18 15:30	12/28/18 15:04	4
Cadmium	12		0.75	0.075	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Chromium	300		3.0	0.32	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Cobalt	16		1.2	0.12	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Copper	390		9.0	4.3	mg/Kg		12/21/18 15:30	12/31/18 17:25	10
Lead	1000		3.0	0.63	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Molybdenum	67		1.2	0.15	mg/Kg		12/21/18 15:30	12/28/18 15:04	4
Nickel	240		3.0	0.31	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Selenium	1.6	J	6.0	0.90	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Silver	0.62	J	1.5	0.30	mg/Kg		12/21/18 15:30	12/31/18 17:25	10
Thallium	ND		3.0	0.87	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Vanadium	34		3.0	0.41	mg/Kg		12/21/18 15:30	12/31/18 15:13	10
Zinc	1200		9.0	3.8	mg/Kg		12/21/18 15:30	12/31/18 15:13	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.015	0.0021	mg/Kg		12/24/18 09:08	01/07/19 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AL7S-3.5-4

Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.93	J	1.8	0.30	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Arsenic	6.4		3.6	0.30	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Barium	85	B	1.8	0.25	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Beryllium	ND		0.36	0.12	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Cadmium	0.13	J	0.45	0.044	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Chromium	16		1.8	0.19	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Cobalt	6.6		0.71	0.071	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Copper	22		5.4	2.5	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Lead	32		1.8	0.38	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Molybdenum	0.70	J	1.8	0.23	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Nickel	22		1.8	0.18	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Selenium	ND		3.6	0.54	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Silver	ND		0.89	0.18	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Thallium	ND		1.8	0.52	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Vanadium	40		1.8	0.24	mg/Kg		12/21/18 15:30	12/28/18 15:09	4
Zinc	140		5.4	2.3	mg/Kg		12/21/18 15:30	12/28/18 15:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.015	0.0023	mg/Kg		12/24/18 09:08	01/07/19 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.5		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AN7S-0.5-1

Date Collected: 12/19/18 14:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	10		1.6	0.27	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Arsenic	15		3.2	0.27	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Barium	230		1.6	0.23	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Beryllium	ND		0.32	0.10	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Cadmium	7.2		0.40	0.040	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Chromium	86		1.6	0.17	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Cobalt	12		0.65	0.065	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Copper	500		4.8	2.3	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Lead	870	^	1.6	0.34	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Molybdenum	8.4		1.6	0.21	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Nickel	96		1.6	0.16	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Selenium	1.2	J	3.2	0.48	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Silver	0.98		0.81	0.16	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Thallium	ND		1.6	0.47	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Vanadium	28		1.6	0.22	mg/Kg		12/26/18 15:30	12/28/18 19:16	4
Zinc	1300		4.8	2.0	mg/Kg		12/26/18 15:30	12/28/18 19:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.97		0.015	0.0022	mg/Kg		12/24/18 09:08	01/07/19 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.7		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AN7S-3.5-4

Date Collected: 12/19/18 14:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.7	0.27	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Arsenic	3.3		3.3	0.28	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Barium	66		1.7	0.23	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Beryllium	ND		0.33	0.11	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Cadmium	0.070	J	0.41	0.041	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Chromium	12		1.7	0.18	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Cobalt	4.9		0.66	0.066	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Copper	17		5.0	2.4	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Lead	19	^	1.7	0.35	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Molybdenum	ND		1.7	0.21	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Nickel	15		1.7	0.17	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Selenium	0.69	J	3.3	0.50	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Silver	ND		0.83	0.17	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Thallium	ND		1.7	0.48	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Vanadium	28		1.7	0.22	mg/Kg		12/26/18 15:30	12/28/18 19:21	4
Zinc	55		5.0	2.1	mg/Kg		12/26/18 15:30	12/28/18 19:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.014	0.0021	mg/Kg		12/24/18 09:08	01/07/19 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.0		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AL7S-14.5-15

Date Collected: 12/19/18 14:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.7		3.9	0.65	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Arsenic	17		7.9	0.67	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Barium	440		1.6	0.22	mg/Kg		12/26/18 15:30	12/28/18 19:26	4
Beryllium	0.26	J	0.31	0.10	mg/Kg		12/26/18 15:30	12/28/18 19:26	4
Cadmium	1.7		0.98	0.098	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Chromium	49		3.9	0.42	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Cobalt	8.2		1.6	0.16	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Copper	220		12	5.6	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Lead	1200		3.9	0.83	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Molybdenum	0.52	J	1.6	0.20	mg/Kg		12/26/18 15:30	12/28/18 19:26	4
Nickel	36		3.9	0.40	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Selenium	1.7	J	7.9	1.2	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Silver	1.3	J	2.0	0.40	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Thallium	ND		3.9	1.1	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Vanadium	34		3.9	0.54	mg/Kg		12/26/18 15:30	01/02/19 12:30	10
Zinc	1100		12	5.0	mg/Kg		12/26/18 15:30	01/02/19 12:30	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.016	0.0023	mg/Kg		12/24/18 09:08	01/07/19 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	34.8		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AP7S-0.5-1

Date Collected: 12/19/18 14:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	14		3.6	0.60	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Arsenic	34		7.2	0.61	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Barium	440		1.4	0.20	mg/Kg		12/26/18 15:30	12/28/18 19:30	4
Beryllium	ND		0.29	0.094	mg/Kg		12/26/18 15:30	12/28/18 19:30	4
Cadmium	9.9		0.90	0.089	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Chromium	73		3.6	0.38	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Cobalt	21		1.4	0.14	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Copper	450		11	5.1	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Lead	810		3.6	0.76	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Molybdenum	15		1.4	0.18	mg/Kg		12/26/18 15:30	12/28/18 19:30	4
Nickel	88		3.6	0.37	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Selenium	2.8	J	7.2	1.1	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Silver	0.46	J	1.8	0.36	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Thallium	ND		3.6	1.0	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Vanadium	30		3.6	0.49	mg/Kg		12/26/18 15:30	01/02/19 12:34	10
Zinc	1400		11	4.6	mg/Kg		12/26/18 15:30	01/02/19 12:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9		0.066	0.0097	mg/Kg		12/24/18 09:08	01/07/19 14:15	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AP7S-3.5-4

Date Collected: 12/19/18 14:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.4	0.23	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Arsenic	5.2		2.8	0.24	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Barium	61		1.4	0.20	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Beryllium	0.24	J	0.28	0.091	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Cadmium	0.12	J	0.35	0.035	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Chromium	15		1.4	0.15	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Cobalt	5.3		0.56	0.056	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Copper	15		4.2	2.0	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Lead	7.2	^	1.4	0.29	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Molybdenum	ND		1.4	0.18	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Nickel	16		1.4	0.14	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Selenium	ND		2.8	0.42	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Silver	ND		0.70	0.14	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Thallium	ND		1.4	0.41	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Vanadium	32		1.4	0.19	mg/Kg		12/28/18 08:51	01/02/19 10:32	4
Zinc	35		4.2	1.8	mg/Kg		12/28/18 08:51	01/02/19 10:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.014	0.0021	mg/Kg		12/24/18 09:08	01/07/19 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.0		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DUP-49

Date Collected: 12/19/18 14:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3		1.3	0.22	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Arsenic	5.2		2.7	0.23	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Barium	60		1.3	0.19	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Beryllium	0.19	J	0.27	0.087	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Cadmium	0.19	J	0.33	0.033	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Chromium	18		1.3	0.14	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Cobalt	4.9		0.53	0.053	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Copper	19		4.0	1.9	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Lead	13	^	1.3	0.28	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Molybdenum	ND		1.3	0.17	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Nickel	16		1.3	0.14	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Selenium	ND		2.7	0.40	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Silver	ND		0.67	0.13	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Thallium	ND		1.3	0.39	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Vanadium	29		1.3	0.18	mg/Kg		12/28/18 08:51	01/02/19 10:36	4
Zinc	49		4.0	1.7	mg/Kg		12/28/18 08:51	01/02/19 10:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.015	0.0022	mg/Kg		12/24/18 09:08	01/07/19 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AR7S-0.5-1

Date Collected: 12/19/18 15:20
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.4		1.5	0.25	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Arsenic	16		3.0	0.25	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Barium	150		1.5	0.21	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Beryllium	0.21	J	0.30	0.096	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Cadmium	3.4		0.37	0.037	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Chromium	74		1.5	0.16	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Cobalt	11		0.59	0.059	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Copper	260		4.4	2.1	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Lead	2700	^	1.5	0.31	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Molybdenum	16		1.5	0.19	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Nickel	77		1.5	0.15	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Selenium	1.7	J	3.0	0.44	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Silver	3.0		0.74	0.15	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Thallium	ND		1.5	0.43	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Vanadium	35		1.5	0.20	mg/Kg		12/28/18 08:51	01/02/19 10:41	4
Zinc	580		4.4	1.9	mg/Kg		12/28/18 08:51	01/02/19 10:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.70		0.017	0.0025	mg/Kg		12/24/18 09:08	01/07/19 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AR7S-3.5-4

Date Collected: 12/19/18 15:20
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.77	J	1.6	0.26	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Arsenic	2.4	J	3.1	0.26	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Barium	45		1.6	0.22	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Beryllium	0.19	J	0.31	0.10	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Cadmium	0.056	J	0.39	0.038	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Chromium	12		1.6	0.16	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Cobalt	4.5		0.62	0.062	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Copper	9.8		4.7	2.2	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Lead	8.9	^	1.6	0.33	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Nickel	17		1.6	0.16	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Selenium	ND		3.1	0.47	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Silver	ND		0.78	0.16	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Thallium	ND		1.6	0.45	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Vanadium	19		1.6	0.21	mg/Kg		12/28/18 08:51	01/02/19 10:55	4
Zinc	26		4.7	2.0	mg/Kg		12/28/18 08:51	01/02/19 10:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.015	0.0021	mg/Kg		12/24/18 09:08	01/07/19 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.3		0.1	0.05	%			12/21/18 11:09	1

Client Sample ID: DG-AT7S-3.5-4

Date Collected: 12/19/18 15:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.5	0.24	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Arsenic	86		2.9	0.25	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Barium	70		1.5	0.21	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Beryllium	0.17	J	0.29	0.096	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Cadmium	0.070	J	0.37	0.036	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Chromium	15		1.5	0.16	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Cobalt	9.6		0.59	0.059	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Copper	66		4.4	2.1	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Lead	21	^	1.5	0.31	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Molybdenum	ND		1.5	0.19	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Nickel	17		1.5	0.15	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Selenium	ND		2.9	0.44	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Silver	ND		0.74	0.15	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Thallium	ND		1.5	0.43	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Vanadium	59		1.5	0.20	mg/Kg		12/28/18 08:51	01/02/19 11:00	4
Zinc	54		4.4	1.9	mg/Kg		12/28/18 08:51	01/02/19 11:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.015	0.0022	mg/Kg		12/24/18 09:08	01/07/19 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.05	%			12/21/18 14:05	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257446/1-A
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Arsenic	ND		1.0	0.085	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Barium	ND		0.50	0.071	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Beryllium	ND		0.10	0.033	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Cadmium	ND		0.13	0.012	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Chromium	ND		0.50	0.053	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Cobalt	ND		0.20	0.020	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Copper	ND		1.5	0.71	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Lead	ND		0.50	0.11	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Nickel	ND		0.50	0.051	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Selenium	ND		1.0	0.15	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Silver	ND		0.25	0.051	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Thallium	ND		0.50	0.15	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Vanadium	ND		0.50	0.068	mg/Kg		12/22/18 10:25	12/28/18 16:37	1
Zinc	ND		1.5	0.64	mg/Kg		12/22/18 10:25	12/28/18 16:37	1

Lab Sample ID: LCS 720-257446/2-A
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.7		mg/Kg		93	80 - 120
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	50.0	43.8		mg/Kg		88	80 - 120
Beryllium	50.0	47.4		mg/Kg		95	80 - 120
Cadmium	50.0	47.9		mg/Kg		96	80 - 120
Chromium	50.0	47.0		mg/Kg		94	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	50.0	48.8		mg/Kg		98	80 - 120
Lead	50.0	47.8		mg/Kg		96	80 - 120
Molybdenum	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Selenium	50.0	45.5		mg/Kg		91	80 - 120
Silver	25.0	22.2		mg/Kg		89	80 - 120
Thallium	50.0	47.6		mg/Kg		95	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.7		mg/Kg		93	80 - 120

Lab Sample ID: 720-90446-A-1-A MS
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.3	F1	47.6	15.3	F1	mg/Kg		25	75 - 125
Arsenic	20	F1 F2	47.6	68.3		mg/Kg		101	75 - 125
Barium	61	F1 F2	47.6	140	F1	mg/Kg		167	75 - 125
Beryllium	ND		47.6	58.1		mg/Kg		122	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90446-A-1-A MS
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.5		47.6	54.3		mg/Kg		111	75 - 125
Chromium	17		47.6	69.1		mg/Kg		110	75 - 125
Cobalt	10		47.6	63.4		mg/Kg		112	75 - 125
Copper	210	F2	47.6	244	4	mg/Kg		79	75 - 125
Lead	260	F2	47.6	221	4	mg/Kg		-91	75 - 125
Molybdenum	1.2	J	47.6	54.5		mg/Kg		112	75 - 125
Nickel	18		47.6	63.1		mg/Kg		95	75 - 125
Selenium	ND		47.6	52.2		mg/Kg		110	75 - 125
Silver	ND		23.8	26.8		mg/Kg		113	75 - 125
Thallium	ND		47.6	50.5		mg/Kg		106	75 - 125
Vanadium	77	F1	47.6	134		mg/Kg		119	75 - 125
Zinc	230	F2	47.6	222	4	mg/Kg		-9	75 - 125

Lab Sample ID: 720-90446-A-1-B MSD
Matrix: Solid
Analysis Batch: 257788

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.3	F1	47.2	15.2	F1	mg/Kg		25	75 - 125	1	20
Arsenic	20	F1 F2	47.2	101	F1 F2	mg/Kg		172	75 - 125	39	20
Barium	61	F1 F2	47.2	113	F2	mg/Kg		112	75 - 125	21	20
Beryllium	ND		47.2	51.5		mg/Kg		109	75 - 125	12	20
Cadmium	1.5		47.2	53.0		mg/Kg		109	75 - 125	2	20
Chromium	17		47.2	69.6		mg/Kg		112	75 - 125	1	20
Cobalt	10		47.2	64.6		mg/Kg		116	75 - 125	2	20
Copper	210	F2	47.2	309	4 F2	mg/Kg		217	75 - 125	23	20
Lead	260	F2	47.2	351	4 F2	mg/Kg		184	75 - 125	46	20
Molybdenum	1.2	J	47.2	53.0		mg/Kg		110	75 - 125	3	20
Nickel	18		47.2	68.5		mg/Kg		107	75 - 125	8	20
Selenium	ND		47.2	50.9		mg/Kg		108	75 - 125	2	20
Silver	ND		23.6	24.7		mg/Kg		105	75 - 125	8	20
Thallium	ND		47.2	48.1		mg/Kg		102	75 - 125	5	20
Vanadium	77	F1	47.2	141	F1	mg/Kg		136	75 - 125	5	20
Zinc	230	F2	47.2	294	4 F2	mg/Kg		143	75 - 125	28	20

Lab Sample ID: MB 720-257460/1-A
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Arsenic	ND		1.0	0.085	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Barium	0.172	J	0.50	0.071	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Beryllium	ND		0.10	0.033	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Cadmium	ND		0.13	0.012	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Chromium	ND		0.50	0.053	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Cobalt	ND		0.20	0.020	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Copper	ND		1.5	0.71	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Lead	ND		0.50	0.11	mg/Kg		12/21/18 15:30	12/28/18 12:51	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257460/1-A
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Nickel	ND		0.50	0.051	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Selenium	ND		1.0	0.15	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Silver	ND		0.25	0.051	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Thallium	ND		0.50	0.15	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Vanadium	ND		0.50	0.068	mg/Kg		12/21/18 15:30	12/28/18 12:51	1
Zinc	ND		1.5	0.64	mg/Kg		12/21/18 15:30	12/28/18 12:51	1

Lab Sample ID: LCS 720-257460/2-A
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.9		mg/Kg		94	80 - 120
Arsenic	50.0	48.2		mg/Kg		96	80 - 120
Barium	50.0	45.4		mg/Kg		91	80 - 120
Beryllium	50.0	48.0		mg/Kg		96	80 - 120
Cadmium	50.0	48.0		mg/Kg		96	80 - 120
Chromium	50.0	47.5		mg/Kg		95	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	50.0	48.6		mg/Kg		97	80 - 120
Lead	50.0	48.2		mg/Kg		96	80 - 120
Molybdenum	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	47.7		mg/Kg		95	80 - 120
Selenium	50.0	46.1		mg/Kg		92	80 - 120
Silver	25.0	21.7		mg/Kg		87	80 - 120
Thallium	50.0	47.8		mg/Kg		96	80 - 120
Vanadium	50.0	48.5		mg/Kg		97	80 - 120
Zinc	50.0	47.3		mg/Kg		95	80 - 120

Lab Sample ID: 720-90446-A-7-A MS
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	41.3	10.8	F1	mg/Kg		26	75 - 125
Arsenic	0.62	J	41.3	43.5		mg/Kg		104	75 - 125
Barium	38	B F1 F2	41.3	80.5		mg/Kg		102	75 - 125
Beryllium	ND	F1	41.3	45.1		mg/Kg		109	75 - 125
Cadmium	0.11	J	41.3	41.9		mg/Kg		101	75 - 125
Chromium	5.9	F1	41.3	49.2		mg/Kg		105	75 - 125
Cobalt	8.2		41.3	50.6		mg/Kg		103	75 - 125
Copper	98	F1	41.3	154	F1	mg/Kg		134	75 - 125
Lead	6.6		41.3	46.0		mg/Kg		95	75 - 125
Molybdenum	0.35	J	41.3	41.8		mg/Kg		100	75 - 125
Nickel	2.7		41.3	43.1		mg/Kg		98	75 - 125
Selenium	ND		41.3	41.1		mg/Kg		99	75 - 125
Silver	ND		20.7	20.3		mg/Kg		98	75 - 125
Thallium	ND		41.3	39.4		mg/Kg		95	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90446-A-7-A MS
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	75	F1	41.3	123		mg/Kg		116	75 - 125
Zinc	35		41.3	73.9		mg/Kg		94	75 - 125

Lab Sample ID: 720-90446-A-7-D MSD
Matrix: Solid
Analysis Batch: 257762

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	42.0	11.7	F1	mg/Kg		28	75 - 125	8	20
Arsenic	0.62	J	42.0	51.4		mg/Kg		121	75 - 125	17	20
Barium	38	B F1 F2	42.0	103	F1 F2	mg/Kg		155	75 - 125	25	20
Beryllium	ND	F1	42.0	53.8	F1	mg/Kg		128	75 - 125	18	20
Cadmium	0.11	J	42.0	49.2		mg/Kg		117	75 - 125	16	20
Chromium	5.9	F1	42.0	58.7	F1	mg/Kg		126	75 - 125	18	20
Cobalt	8.2		42.0	59.3		mg/Kg		122	75 - 125	16	20
Copper	98	F1	42.0	173	F1	mg/Kg		179	75 - 125	12	20
Lead	6.6		42.0	54.4		mg/Kg		114	75 - 125	17	20
Molybdenum	0.35	J	42.0	49.2		mg/Kg		116	75 - 125	16	20
Nickel	2.7		42.0	51.0		mg/Kg		115	75 - 125	17	20
Selenium	ND		42.0	47.7		mg/Kg		114	75 - 125	15	20
Silver	ND		21.0	24.2		mg/Kg		115	75 - 125	17	20
Thallium	ND		42.0	45.8		mg/Kg		109	75 - 125	15	20
Vanadium	75	F1	42.0	143	F1	mg/Kg		161	75 - 125	15	20
Zinc	35		42.0	85.0		mg/Kg		119	75 - 125	14	20

Lab Sample ID: MB 720-257489/1-A
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Arsenic	ND		1.0	0.085	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Barium	ND		0.50	0.071	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Beryllium	ND		0.10	0.033	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Cadmium	ND		0.13	0.012	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Chromium	ND		0.50	0.053	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Cobalt	ND		0.20	0.020	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Copper	ND		1.5	0.71	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Lead	ND		0.50	0.11	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Nickel	ND		0.50	0.051	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Selenium	ND		1.0	0.15	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Silver	ND		0.25	0.051	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Thallium	ND		0.50	0.15	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Vanadium	ND		0.50	0.068	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Zinc	ND		1.5	0.64	mg/Kg		12/26/18 15:30	12/28/18 17:16	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257489/2-A
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.0		mg/Kg		90	80 - 120
Arsenic	50.0	45.3		mg/Kg		91	80 - 120
Barium	50.0	44.9		mg/Kg		90	80 - 120
Beryllium	50.0	45.7		mg/Kg		91	80 - 120
Cadmium	50.0	45.8		mg/Kg		92	80 - 120
Chromium	50.0	46.7		mg/Kg		93	80 - 120
Cobalt	50.0	45.8		mg/Kg		92	80 - 120
Copper	50.0	46.2		mg/Kg		92	80 - 120
Lead	50.0	46.4		mg/Kg		93	80 - 120
Molybdenum	50.0	46.4		mg/Kg		93	80 - 120
Nickel	50.0	46.0		mg/Kg		92	80 - 120
Selenium	50.0	44.1		mg/Kg		88	80 - 120
Silver	25.0	21.1		mg/Kg		84	80 - 120
Thallium	50.0	45.9		mg/Kg		92	80 - 120
Vanadium	50.0	45.7		mg/Kg		91	80 - 120
Zinc	50.0	45.0		mg/Kg		90	80 - 120

Lab Sample ID: 720-90448-A-21-B MS
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257489

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	12	F1	43.9	48.1		mg/Kg		83	75 - 125
Arsenic	11	F1	43.9	93.1	F1	mg/Kg		188	75 - 125
Barium	250		43.9	1230	4	mg/Kg		2236	75 - 125
Beryllium	0.25	J	43.9	49.2		mg/Kg		112	75 - 125
Cadmium	1.1		43.9	49.4		mg/Kg		110	75 - 125
Chromium	14	F1	43.9	98.8	F1	mg/Kg		194	75 - 125
Cobalt	4.1	F1	43.9	59.2	F1	mg/Kg		126	75 - 125
Copper	190	F2	43.9	1210	4	mg/Kg		2321	75 - 125
Lead	780		43.9	3750	4	mg/Kg		6771	75 - 125
Molybdenum	0.35	J	43.9	46.0		mg/Kg		104	75 - 125
Nickel	14	F1	43.9	106	F1	mg/Kg		210	75 - 125
Selenium	1.4	J	43.9	42.3		mg/Kg		93	75 - 125
Silver	1.1	F1	21.9	27.8		mg/Kg		122	75 - 125
Thallium	1.2	J	43.9	43.9		mg/Kg		97	75 - 125
Vanadium	19	F1	43.9	82.9	F1	mg/Kg		145	75 - 125
Zinc	740		43.9	2860	4	mg/Kg		4824	75 - 125

Lab Sample ID: 720-90448-A-21-C MSD
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	12	F1	44.2	42.8	F1	mg/Kg		70	75 - 125	12	20
Arsenic	11	F1	44.2	81.7	F1	mg/Kg		161	75 - 125	13	20
Barium	250		44.2	1200	4	mg/Kg		2138	75 - 125	3	20
Beryllium	0.25	J	44.2	45.1		mg/Kg		101	75 - 125	9	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90448-A-21-C MSD
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	1.1		44.2	47.0		mg/Kg		104	75 - 125	5	20
Chromium	14	F1	44.2	85.6	F1	mg/Kg		163	75 - 125	14	20
Cobalt	4.1	F1	44.2	54.6		mg/Kg		114	75 - 125	8	20
Copper	190	F2	44.2	2260	4 F2	mg/Kg		4672	75 - 125	61	20
Lead	780		44.2	3400	4	mg/Kg		5929	75 - 125	10	20
Molybdenum	0.35	J	44.2	42.3		mg/Kg		95	75 - 125	8	20
Nickel	14	F1	44.2	88.6	F1	mg/Kg		168	75 - 125	18	20
Selenium	1.4	J	44.2	40.6		mg/Kg		89	75 - 125	4	20
Silver	1.1	F1	22.1	32.5	F1	mg/Kg		142	75 - 125	15	20
Thallium	1.2	J	44.2	39.9		mg/Kg		87	75 - 125	10	20
Vanadium	19	F1	44.2	75.0	F1	mg/Kg		126	75 - 125	10	20
Zinc	740		44.2	2910	4	mg/Kg		4910	75 - 125	2	20

Lab Sample ID: MB 720-257521/1-A
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Arsenic	ND		1.0	0.085	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Barium	ND		0.50	0.071	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Beryllium	ND		0.10	0.033	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Cadmium	ND		0.13	0.012	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Chromium	ND		0.50	0.053	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Cobalt	ND		0.20	0.020	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Copper	ND		1.5	0.71	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Lead	ND		0.50	0.11	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Nickel	ND		0.50	0.051	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Selenium	ND		1.0	0.15	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Silver	ND		0.25	0.051	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Thallium	ND		0.50	0.15	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Vanadium	ND		0.50	0.068	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Zinc	ND		1.5	0.64	mg/Kg		12/28/18 08:51	01/02/19 10:00	1

Lab Sample ID: LCS 720-257521/2-A
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.4		mg/Kg		95	80 - 120
Arsenic	50.0	45.5		mg/Kg		91	80 - 120
Barium	50.0	48.7		mg/Kg		97	80 - 120
Beryllium	50.0	47.1		mg/Kg		94	80 - 120
Cadmium	50.0	46.3		mg/Kg		93	80 - 120
Chromium	50.0	47.9		mg/Kg		96	80 - 120
Cobalt	50.0	45.1		mg/Kg		90	80 - 120
Copper	50.0	48.0		mg/Kg		96	80 - 120
Lead	50.0	45.8		mg/Kg		92	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257521/2-A
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	50.0	47.1		mg/Kg		94	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Selenium	50.0	44.4		mg/Kg		89	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	45.8		mg/Kg		92	80 - 120
Vanadium	50.0	46.0		mg/Kg		92	80 - 120
Zinc	50.0	48.8		mg/Kg		98	80 - 120

Lab Sample ID: 720-90479-E-9-G MS
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	13	F1 F2	41.7	33.8	F1	mg/Kg		51	75 - 125
Arsenic	1400	F2	41.7	1730	4	mg/Kg		681	75 - 125
Barium	33	F1	41.7	99.1	F1	mg/Kg		158	75 - 125
Beryllium	0.33	F1	41.7	54.5	F1	mg/Kg		130	75 - 125
Cadmium	0.77		41.7	49.6		mg/Kg		117	75 - 125
Chromium	24	F1	41.7	85.8	F1	mg/Kg		149	75 - 125
Cobalt	3.3		41.7	51.1		mg/Kg		115	75 - 125
Copper	8.3	F1	41.7	65.4	F1	mg/Kg		137	75 - 125
Lead	28	^ F1	41.7	87.2	F1	mg/Kg		143	75 - 125
Molybdenum	ND		41.7	46.6		mg/Kg		112	75 - 125
Nickel	19	F1	41.7	72.8	F1	mg/Kg		130	75 - 125
Selenium	0.52	J	41.7	47.0		mg/Kg		112	75 - 125
Silver	ND	F1	20.8	27.9	F1	mg/Kg		134	75 - 125
Thallium	32		41.7	82.1		mg/Kg		121	75 - 125
Vanadium	15	F1	41.7	70.2	F1	mg/Kg		133	75 - 125
Zinc	40	F1	41.7	98.7	F1	mg/Kg		141	75 - 125

Lab Sample ID: 720-90479-E-9-H MSD
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	13	F1 F2	41.7	27.2	F1 F2	mg/Kg		35	75 - 125	22	20
Arsenic	1400	F2	41.7	1380	4 F2	mg/Kg		-144	75 - 125	22	20
Barium	33	F1	41.7	93.0	F1	mg/Kg		144	75 - 125	6	20
Beryllium	0.33	F1	41.7	55.7	F1	mg/Kg		133	75 - 125	2	20
Cadmium	0.77		41.7	47.5		mg/Kg		112	75 - 125	4	20
Chromium	24	F1	41.7	79.8	F1	mg/Kg		135	75 - 125	7	20
Cobalt	3.3		41.7	48.2		mg/Kg		108	75 - 125	6	20
Copper	8.3	F1	41.7	62.0	F1	mg/Kg		129	75 - 125	5	20
Lead	28	^ F1	41.7	76.2		mg/Kg		116	75 - 125	14	20
Molybdenum	ND		41.7	44.2		mg/Kg		106	75 - 125	5	20
Nickel	19	F1	41.7	65.2		mg/Kg		112	75 - 125	11	20
Selenium	0.52	J	41.7	45.3		mg/Kg		107	75 - 125	4	20
Silver	ND	F1	20.8	27.6	F1	mg/Kg		133	75 - 125	1	20
Thallium	32		41.7	72.5		mg/Kg		98	75 - 125	12	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90479-E-9-H MSD
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	15	F1	41.7	67.5	F1	mg/Kg		127	75 - 125	4	20
Zinc	40	F1	41.7	86.2		mg/Kg		111	75 - 125	13	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257274/1-A
Matrix: Solid
Analysis Batch: 257997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 13:29	1

Lab Sample ID: LCS 720-257274/2-A
Matrix: Solid
Analysis Batch: 257997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.718		mg/Kg		86	80 - 120

Lab Sample ID: 720-90414-A-13-A MS
Matrix: Solid
Analysis Batch: 257997

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.15		0.704	0.797		mg/Kg		92	75 - 125

Lab Sample ID: 720-90414-A-13-B MSD
Matrix: Solid
Analysis Batch: 257997

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257274

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.15		0.714	0.756		mg/Kg		85	75 - 125	5	20

Lab Sample ID: MB 720-257461/1-A
Matrix: Solid
Analysis Batch: 257744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/28/18 08:28	12/28/18 12:22	1

Lab Sample ID: LCS 720-257461/2-A
Matrix: Solid
Analysis Batch: 257744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.800		mg/Kg		96	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90476-B-3-A MS
Matrix: Solid
Analysis Batch: 257744

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.034		0.725	0.790		mg/Kg		104	75 - 125

Lab Sample ID: 720-90476-B-3-B MSD
Matrix: Solid
Analysis Batch: 257744

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.034		0.735	0.664		mg/Kg		86	75 - 125	17	20

Lab Sample ID: MB 720-257520/1-A
Matrix: Solid
Analysis Batch: 258064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/24/18 08:18	01/07/19 11:46	1

Lab Sample ID: LCS 720-257520/2-A
Matrix: Solid
Analysis Batch: 258064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.743		mg/Kg		89	80 - 120

Lab Sample ID: 720-90446-E-7-G MS
Matrix: Solid
Analysis Batch: 258064

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.066		0.746	0.765		mg/Kg		94	75 - 125

Lab Sample ID: 720-90446-E-7-H MSD
Matrix: Solid
Analysis Batch: 258064

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.066		0.746	0.751		mg/Kg		92	75 - 125	2	20

Lab Sample ID: MB 720-257525/1-A
Matrix: Solid
Analysis Batch: 258068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/24/18 09:08	01/07/19 13:09	1

Lab Sample ID: LCS 720-257525/2-A
Matrix: Solid
Analysis Batch: 258068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.738		mg/Kg		89	80 - 120

Lab Sample ID: 720-90448-A-8-D MS
Matrix: Solid
Analysis Batch: 258068

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.060		0.758	0.780		mg/Kg		95	75 - 125		

Lab Sample ID: 720-90448-A-8-E MSD
Matrix: Solid
Analysis Batch: 258068

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.060		0.758	0.761		mg/Kg		93	75 - 125	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90414-A-18 DU
Matrix: Solid
Analysis Batch: 257438

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	15.9			15.0		%				6	20

Lab Sample ID: 720-90447-12 DU
Matrix: Solid
Analysis Batch: 257443

Client Sample ID: DG-AB7S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.0			11.6		%				4	20

Lab Sample ID: 720-90448-A-1 DU
Matrix: Solid
Analysis Batch: 257454

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.5			10.8		%				6	20

Metals

Prep Batch: 257274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-10	DUP-46	Total/NA	Solid	7471A	
720-90447-11	DG-AB7S-0.5-1	Total/NA	Solid	7471A	
720-90447-12	DG-AB7S-3.5-4	Total/NA	Solid	7471A	
MB 720-257274/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257274/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90414-A-13-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90414-A-13-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-1	DG-R7S-0.5-1	Total/NA	Solid	3050B	
720-90447-2	DG-R7S-3.5-4	Total/NA	Solid	3050B	
720-90447-3	DG-R7S-8-8.5	Total/NA	Solid	3050B	
MB 720-257446/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257446/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90446-A-1-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90446-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-4	DG-T7S-3.5-4	Total/NA	Solid	3050B	
720-90447-5	DUP-45	Total/NA	Solid	3050B	
720-90447-6	DG-V7S-0.5-1	Total/NA	Solid	3050B	
720-90447-7	DG-V7S-3.5-4	Total/NA	Solid	3050B	
720-90447-8	DG-X7S-0.5-1	Total/NA	Solid	3050B	
720-90447-9	DG-X7S-3.5-4	Total/NA	Solid	3050B	
720-90447-10	DUP-46	Total/NA	Solid	3050B	
720-90447-11	DG-AB7S-0.5-1	Total/NA	Solid	3050B	
720-90447-12	DG-AB7S-3.5-4	Total/NA	Solid	3050B	
720-90447-13	DG-AD7S-0.5-1	Total/NA	Solid	3050B	
720-90447-14	DG-AD7S-3.5-4	Total/NA	Solid	3050B	
720-90447-15	DG-AF7S-0.5-1	Total/NA	Solid	3050B	
720-90447-16	DG-AF7S-3.5-4	Total/NA	Solid	3050B	
720-90447-17	DG-AH7S-0.5-1	Total/NA	Solid	3050B	
720-90447-18	DG-AH7S-3.5-4	Total/NA	Solid	3050B	
720-90447-19	DG-AJ7S-0.5-1	Total/NA	Solid	3050B	
720-90447-20	DG-AJ7S-3.5-4	Total/NA	Solid	3050B	
720-90447-21	DG-AL7S-0.5-1	Total/NA	Solid	3050B	
720-90447-22	DG-AL7S-3.5-4	Total/NA	Solid	3050B	
MB 720-257460/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257460/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90446-A-7-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90446-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-1	DG-R7S-0.5-1	Total/NA	Solid	7471A	
720-90447-2	DG-R7S-3.5-4	Total/NA	Solid	7471A	
720-90447-3	DG-R7S-8-8.5	Total/NA	Solid	7471A	
720-90447-4	DG-T7S-3.5-4	Total/NA	Solid	7471A	
720-90447-5	DUP-45	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257461 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-6	DG-V7S-0.5-1	Total/NA	Solid	7471A	
720-90447-7	DG-V7S-3.5-4	Total/NA	Solid	7471A	
720-90447-8	DG-X7S-0.5-1	Total/NA	Solid	7471A	
720-90447-9	DG-X7S-3.5-4	Total/NA	Solid	7471A	
MB 720-257461/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257461/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90476-B-3-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90476-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-23	DG-AN7S-0.5-1	Total/NA	Solid	3050B	
720-90447-24	DG-AN7S-3.5-4	Total/NA	Solid	3050B	
720-90447-25	DG-AL7S-14.5-15	Total/NA	Solid	3050B	
720-90447-26	DG-AP7S-0.5-1	Total/NA	Solid	3050B	
MB 720-257489/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257489/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90448-A-21-B MS	Matrix Spike	Total/NA	Solid	3050B	
720-90448-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-13	DG-AD7S-0.5-1	Total/NA	Solid	7471A	
720-90447-14	DG-AD7S-3.5-4	Total/NA	Solid	7471A	
720-90447-15	DG-AF7S-0.5-1	Total/NA	Solid	7471A	
720-90447-16	DG-AF7S-3.5-4	Total/NA	Solid	7471A	
720-90447-17	DG-AH7S-0.5-1	Total/NA	Solid	7471A	
720-90447-18	DG-AH7S-3.5-4	Total/NA	Solid	7471A	
720-90447-19	DG-AJ7S-0.5-1	Total/NA	Solid	7471A	
720-90447-20	DG-AJ7S-3.5-4	Total/NA	Solid	7471A	
MB 720-257520/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257520/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90446-E-7-G MS	Matrix Spike	Total/NA	Solid	7471A	
720-90446-E-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-27	DG-AP7S-3.5-4	Total/NA	Solid	3050B	
720-90447-28	DUP-49	Total/NA	Solid	3050B	
720-90447-29	DG-AR7S-0.5-1	Total/NA	Solid	3050B	
720-90447-30	DG-AR7S-3.5-4	Total/NA	Solid	3050B	
720-90447-31	DG-AT7S-3.5-4	Total/NA	Solid	3050B	
MB 720-257521/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257521/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90479-E-9-G MS	Matrix Spike	Total/NA	Solid	3050B	
720-90479-E-9-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-21	DG-AL7S-0.5-1	Total/NA	Solid	7471A	
720-90447-22	DG-AL7S-3.5-4	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-23	DG-AN7S-0.5-1	Total/NA	Solid	7471A	
720-90447-24	DG-AN7S-3.5-4	Total/NA	Solid	7471A	
720-90447-25	DG-AL7S-14.5-15	Total/NA	Solid	7471A	
720-90447-26	DG-AP7S-0.5-1	Total/NA	Solid	7471A	
720-90447-27	DG-AP7S-3.5-4	Total/NA	Solid	7471A	
720-90447-28	DUP-49	Total/NA	Solid	7471A	
720-90447-29	DG-AR7S-0.5-1	Total/NA	Solid	7471A	
720-90447-30	DG-AR7S-3.5-4	Total/NA	Solid	7471A	
720-90447-31	DG-AT7S-3.5-4	Total/NA	Solid	7471A	
MB 720-257525/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257525/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90448-A-8-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-90448-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 257744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257461/1-A	Method Blank	Total/NA	Solid	7471A	257461
LCS 720-257461/2-A	Lab Control Sample	Total/NA	Solid	7471A	257461
720-90476-B-3-A MS	Matrix Spike	Total/NA	Solid	7471A	257461
720-90476-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257461

Analysis Batch: 257762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-4	DG-T7S-3.5-4	Total/NA	Solid	6010B	257460
720-90447-5	DUP-45	Total/NA	Solid	6010B	257460
720-90447-6	DG-V7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-7	DG-V7S-3.5-4	Total/NA	Solid	6010B	257460
720-90447-8	DG-X7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-9	DG-X7S-3.5-4	Total/NA	Solid	6010B	257460
720-90447-10	DUP-46	Total/NA	Solid	6010B	257460
720-90447-11	DG-AB7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-12	DG-AB7S-3.5-4	Total/NA	Solid	6010B	257460
720-90447-13	DG-AD7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-14	DG-AD7S-3.5-4	Total/NA	Solid	6010B	257460
720-90447-15	DG-AF7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-16	DG-AF7S-3.5-4	Total/NA	Solid	6010B	257460
720-90447-17	DG-AH7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-18	DG-AH7S-3.5-4	Total/NA	Solid	6010B	257460
720-90447-19	DG-AJ7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-20	DG-AJ7S-3.5-4	Total/NA	Solid	6010B	257460
720-90447-21	DG-AL7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-22	DG-AL7S-3.5-4	Total/NA	Solid	6010B	257460
MB 720-257460/1-A	Method Blank	Total/NA	Solid	6010B	257460
LCS 720-257460/2-A	Lab Control Sample	Total/NA	Solid	6010B	257460
720-90446-A-7-A MS	Matrix Spike	Total/NA	Solid	6010B	257460
720-90446-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257460

Analysis Batch: 257780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-23	DG-AN7S-0.5-1	Total/NA	Solid	6010B	257489
720-90447-24	DG-AN7S-3.5-4	Total/NA	Solid	6010B	257489

Metals (Continued)

Analysis Batch: 257780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-25	DG-AL7S-14.5-15	Total/NA	Solid	6010B	257489
720-90447-26	DG-AP7S-0.5-1	Total/NA	Solid	6010B	257489
MB 720-257489/1-A	Method Blank	Total/NA	Solid	6010B	257489
LCS 720-257489/2-A	Lab Control Sample	Total/NA	Solid	6010B	257489
720-90448-A-21-B MS	Matrix Spike	Total/NA	Solid	6010B	257489
720-90448-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257489

Analysis Batch: 257788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257446/1-A	Method Blank	Total/NA	Solid	6010B	257446
LCS 720-257446/2-A	Lab Control Sample	Total/NA	Solid	6010B	257446
720-90446-A-1-A MS	Matrix Spike	Total/NA	Solid	6010B	257446
720-90446-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257446

Analysis Batch: 257795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-1	DG-R7S-0.5-1	Total/NA	Solid	7471A	257461
720-90447-2	DG-R7S-3.5-4	Total/NA	Solid	7471A	257461
720-90447-3	DG-R7S-8-8.5	Total/NA	Solid	7471A	257461
720-90447-4	DG-T7S-3.5-4	Total/NA	Solid	7471A	257461
720-90447-5	DUP-45	Total/NA	Solid	7471A	257461
720-90447-6	DG-V7S-0.5-1	Total/NA	Solid	7471A	257461
720-90447-7	DG-V7S-3.5-4	Total/NA	Solid	7471A	257461
720-90447-8	DG-X7S-0.5-1	Total/NA	Solid	7471A	257461
720-90447-9	DG-X7S-3.5-4	Total/NA	Solid	7471A	257461

Analysis Batch: 257808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-1	DG-R7S-0.5-1	Total/NA	Solid	6010B	257446
720-90447-2	DG-R7S-3.5-4	Total/NA	Solid	6010B	257446
720-90447-3	DG-R7S-8-8.5	Total/NA	Solid	6010B	257446

Analysis Batch: 257822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-6	DG-V7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-15	DG-AF7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-17	DG-AH7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-19	DG-AJ7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-21	DG-AL7S-0.5-1	Total/NA	Solid	6010B	257460

Analysis Batch: 257832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-6	DG-V7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-15	DG-AF7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-17	DG-AH7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-19	DG-AJ7S-0.5-1	Total/NA	Solid	6010B	257460
720-90447-21	DG-AL7S-0.5-1	Total/NA	Solid	6010B	257460

Analysis Batch: 257872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-25	DG-AL7S-14.5-15	Total/NA	Solid	6010B	257489

Metals (Continued)

Analysis Batch: 257872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-26	DG-AP7S-0.5-1	Total/NA	Solid	6010B	257489

Analysis Batch: 257874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-27	DG-AP7S-3.5-4	Total/NA	Solid	6010B	257521
720-90447-28	DUP-49	Total/NA	Solid	6010B	257521
720-90447-29	DG-AR7S-0.5-1	Total/NA	Solid	6010B	257521
720-90447-30	DG-AR7S-3.5-4	Total/NA	Solid	6010B	257521
720-90447-31	DG-AT7S-3.5-4	Total/NA	Solid	6010B	257521
MB 720-257521/1-A	Method Blank	Total/NA	Solid	6010B	257521
LCS 720-257521/2-A	Lab Control Sample	Total/NA	Solid	6010B	257521
720-90479-E-9-G MS	Matrix Spike	Total/NA	Solid	6010B	257521
720-90479-E-9-H MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257521

Analysis Batch: 257997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-10	DUP-46	Total/NA	Solid	7471A	257274
720-90447-11	DG-AB7S-0.5-1	Total/NA	Solid	7471A	257274
720-90447-12	DG-AB7S-3.5-4	Total/NA	Solid	7471A	257274
MB 720-257274/1-A	Method Blank	Total/NA	Solid	7471A	257274
LCS 720-257274/2-A	Lab Control Sample	Total/NA	Solid	7471A	257274
720-90414-A-13-A MS	Matrix Spike	Total/NA	Solid	7471A	257274
720-90414-A-13-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257274

Analysis Batch: 258064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-13	DG-AD7S-0.5-1	Total/NA	Solid	7471A	257520
720-90447-14	DG-AD7S-3.5-4	Total/NA	Solid	7471A	257520
720-90447-15	DG-AF7S-0.5-1	Total/NA	Solid	7471A	257520
720-90447-16	DG-AF7S-3.5-4	Total/NA	Solid	7471A	257520
720-90447-17	DG-AH7S-0.5-1	Total/NA	Solid	7471A	257520
720-90447-18	DG-AH7S-3.5-4	Total/NA	Solid	7471A	257520
720-90447-19	DG-AJ7S-0.5-1	Total/NA	Solid	7471A	257520
720-90447-20	DG-AJ7S-3.5-4	Total/NA	Solid	7471A	257520
MB 720-257520/1-A	Method Blank	Total/NA	Solid	7471A	257520
LCS 720-257520/2-A	Lab Control Sample	Total/NA	Solid	7471A	257520
720-90446-E-7-G MS	Matrix Spike	Total/NA	Solid	7471A	257520
720-90446-E-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257520

Analysis Batch: 258068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-21	DG-AL7S-0.5-1	Total/NA	Solid	7471A	257525
720-90447-22	DG-AL7S-3.5-4	Total/NA	Solid	7471A	257525
720-90447-23	DG-AN7S-0.5-1	Total/NA	Solid	7471A	257525
720-90447-24	DG-AN7S-3.5-4	Total/NA	Solid	7471A	257525
720-90447-25	DG-AL7S-14.5-15	Total/NA	Solid	7471A	257525
720-90447-26	DG-AP7S-0.5-1	Total/NA	Solid	7471A	257525
720-90447-27	DG-AP7S-3.5-4	Total/NA	Solid	7471A	257525
720-90447-28	DUP-49	Total/NA	Solid	7471A	257525
720-90447-29	DG-AR7S-0.5-1	Total/NA	Solid	7471A	257525
720-90447-30	DG-AR7S-3.5-4	Total/NA	Solid	7471A	257525

Metals (Continued)

Analysis Batch: 258068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-31	DG-AT7S-3.5-4	Total/NA	Solid	7471A	257525
MB 720-257525/1-A	Method Blank	Total/NA	Solid	7471A	257525
LCS 720-257525/2-A	Lab Control Sample	Total/NA	Solid	7471A	257525
720-90448-A-8-D MS	Matrix Spike	Total/NA	Solid	7471A	257525
720-90448-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257525

General Chemistry

Analysis Batch: 257438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-1	DG-R7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-2	DG-R7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-3	DG-R7S-8-8.5	Total/NA	Solid	Moisture	
720-90447-4	DG-T7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-5	DUP-45	Total/NA	Solid	Moisture	
720-90447-6	DG-V7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-7	DG-V7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-8	DG-X7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-9	DG-X7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-10	DUP-46	Total/NA	Solid	Moisture	
720-90447-11	DG-AB7S-0.5-1	Total/NA	Solid	Moisture	
720-90414-A-18 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-12	DG-AB7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-13	DG-AD7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-14	DG-AD7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-15	DG-AF7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-16	DG-AF7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-17	DG-AH7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-18	DG-AH7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-19	DG-AJ7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-20	DG-AJ7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-21	DG-AL7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-22	DG-AL7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-23	DG-AN7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-24	DG-AN7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-25	DG-AL7S-14.5-15	Total/NA	Solid	Moisture	
720-90447-26	DG-AP7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-27	DG-AP7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-28	DUP-49	Total/NA	Solid	Moisture	
720-90447-29	DG-AR7S-0.5-1	Total/NA	Solid	Moisture	
720-90447-30	DG-AR7S-3.5-4	Total/NA	Solid	Moisture	
720-90447-12 DU	DG-AB7S-3.5-4	Total/NA	Solid	Moisture	

Analysis Batch: 257454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90447-31	DG-AT7S-3.5-4	Total/NA	Solid	Moisture	
720-90448-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Client Sample ID: DG-R7S-0.5-1

Lab Sample ID: 720-90447-1

Date Collected: 12/19/18 08:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257808	12/31/18 11:15	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257795	12/28/18 12:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-R7S-3.5-4

Lab Sample ID: 720-90447-2

Date Collected: 12/19/18 08:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257808	12/31/18 11:20	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257795	12/28/18 12:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-R7S-8-8.5

Lab Sample ID: 720-90447-3

Date Collected: 12/19/18 08:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257446	12/22/18 10:25	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257808	12/31/18 11:25	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257795	12/28/18 12:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-T7S-3.5-4

Lab Sample ID: 720-90447-4

Date Collected: 12/19/18 08:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 13:24	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257795	12/28/18 12:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DUP-45

Lab Sample ID: 720-90447-5

Date Collected: 12/19/18 08:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 13:29	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257795	12/28/18 13:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-V7S-0.5-1

Lab Sample ID: 720-90447-6

Date Collected: 12/19/18 09:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 13:43	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257822	12/31/18 14:54	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257832	12/31/18 17:07	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257795	12/28/18 13:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-V7S-3.5-4

Lab Sample ID: 720-90447-7

Date Collected: 12/19/18 09:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 13:48	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257795	12/28/18 13:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-X7S-0.5-1

Lab Sample ID: 720-90447-8

Date Collected: 12/19/18 09:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 13:53	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257795	12/28/18 15:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-X7S-3.5-4

Lab Sample ID: 720-90447-9

Date Collected: 12/19/18 09:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 13:58	BKR	TAL PLS
Total/NA	Prep	7471A			257461	12/28/18 08:28	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257795	12/28/18 15:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DUP-46

Lab Sample ID: 720-90447-10

Date Collected: 12/19/18 09:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:02	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-AB7S-0.5-1

Lab Sample ID: 720-90447-11

Date Collected: 12/19/18 09:45

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:07	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257438	12/21/18 10:19	TNL	TAL PLS

Client Sample ID: DG-AB7S-3.5-4

Lab Sample ID: 720-90447-12

Date Collected: 12/19/18 09:45

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:12	BKR	TAL PLS
Total/NA	Prep	7471A			257274	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257997	01/04/19 14:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AD7S-0.5-1

Lab Sample ID: 720-90447-13

Date Collected: 12/19/18 10:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:17	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AD7S-3.5-4

Lab Sample ID: 720-90447-14

Date Collected: 12/19/18 10:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:21	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AF7S-0.5-1

Lab Sample ID: 720-90447-15

Date Collected: 12/19/18 11:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:26	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257822	12/31/18 14:59	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257832	12/31/18 17:11	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AF7S-3.5-4

Lab Sample ID: 720-90447-16

Date Collected: 12/19/18 11:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:40	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AH7S-0.5-1

Lab Sample ID: 720-90447-17

Date Collected: 12/19/18 11:40

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:45	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		20	257822	12/31/18 15:03	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		20	257832	12/31/18 17:16	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		4	258064	01/07/19 12:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AH7S-3.5-4

Lab Sample ID: 720-90447-18

Date Collected: 12/19/18 11:40

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:50	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 12:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AJ7S-0.5-1

Lab Sample ID: 720-90447-19

Date Collected: 12/19/18 13:10

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 14:55	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257822	12/31/18 15:08	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257832	12/31/18 17:20	BKR	TAL PLS
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		4	258064	01/07/19 12:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AJ7S-3.5-4

Lab Sample ID: 720-90447-20

Date Collected: 12/19/18 13:10

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 15:00	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Client Sample ID: DG-AJ7S-3.5-4

Lab Sample ID: 720-90447-20

Date Collected: 12/19/18 13:10
Date Received: 12/19/18 19:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			257520	12/24/18 08:18	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258064	01/07/19 13:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AL7S-0.5-1

Lab Sample ID: 720-90447-21

Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 15:04	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257822	12/31/18 15:13	BKR	TAL PLS
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257832	12/31/18 17:25	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AL7S-3.5-4

Lab Sample ID: 720-90447-22

Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257460	12/21/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257762	12/28/18 15:09	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AN7S-0.5-1

Lab Sample ID: 720-90447-23

Date Collected: 12/19/18 14:15
Date Received: 12/19/18 19:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 19:16	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AN7S-3.5-4

Lab Sample ID: 720-90447-24

Date Collected: 12/19/18 14:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 19:21	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AL7S-14.5-15

Lab Sample ID: 720-90447-25

Date Collected: 12/19/18 14:50

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257872	01/02/19 12:30	BKR	TAL PLS
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 19:26	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AP7S-0.5-1

Lab Sample ID: 720-90447-26

Date Collected: 12/19/18 14:50

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257872	01/02/19 12:34	BKR	TAL PLS
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 19:30	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		4	258068	01/07/19 14:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AP7S-3.5-4

Lab Sample ID: 720-90447-27

Date Collected: 12/19/18 14:50

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 10:32	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Client Sample ID: DUP-49
Date Collected: 12/19/18 14:50
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 10:36	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 14:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AR7S-0.5-1
Date Collected: 12/19/18 15:20
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 10:41	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 14:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AR7S-3.5-4
Date Collected: 12/19/18 15:20
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 10:55	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 14:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257443	12/21/18 11:09	TNL	TAL PLS

Client Sample ID: DG-AT7S-3.5-4
Date Collected: 12/19/18 15:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90447-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:00	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 14:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Laboratory References:
TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90447-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90447-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90447-1	DG-R7S-0.5-1	Solid	12/19/18 08:15	12/19/18 19:30
720-90447-2	DG-R7S-3.5-4	Solid	12/19/18 08:15	12/19/18 19:30
720-90447-3	DG-R7S-8-8.5	Solid	12/19/18 08:15	12/19/18 19:30
720-90447-4	DG-T7S-3.5-4	Solid	12/19/18 08:30	12/19/18 19:30
720-90447-5	DUP-45	Solid	12/19/18 08:30	12/19/18 19:30
720-90447-6	DG-V7S-0.5-1	Solid	12/19/18 09:00	12/19/18 19:30
720-90447-7	DG-V7S-3.5-4	Solid	12/19/18 09:00	12/19/18 19:30
720-90447-8	DG-X7S-0.5-1	Solid	12/19/18 09:15	12/19/18 19:30
720-90447-9	DG-X7S-3.5-4	Solid	12/19/18 09:15	12/19/18 19:30
720-90447-10	DUP-46	Solid	12/19/18 09:15	12/19/18 19:30
720-90447-11	DG-AB7S-0.5-1	Solid	12/19/18 09:45	12/19/18 19:30
720-90447-12	DG-AB7S-3.5-4	Solid	12/19/18 09:45	12/19/18 19:30
720-90447-13	DG-AD7S-0.5-1	Solid	12/19/18 10:15	12/19/18 19:30
720-90447-14	DG-AD7S-3.5-4	Solid	12/19/18 10:15	12/19/18 19:30
720-90447-15	DG-AF7S-0.5-1	Solid	12/19/18 11:30	12/19/18 19:30
720-90447-16	DG-AF7S-3.5-4	Solid	12/19/18 11:30	12/19/18 19:30
720-90447-17	DG-AH7S-0.5-1	Solid	12/19/18 11:40	12/19/18 19:30
720-90447-18	DG-AH7S-3.5-4	Solid	12/19/18 11:40	12/19/18 19:30
720-90447-19	DG-AJ7S-0.5-1	Solid	12/19/18 13:10	12/19/18 19:30
720-90447-20	DG-AJ7S-3.5-4	Solid	12/19/18 13:10	12/19/18 19:30
720-90447-21	DG-AL7S-0.5-1	Solid	12/19/18 13:30	12/19/18 19:30
720-90447-22	DG-AL7S-3.5-4	Solid	12/19/18 13:30	12/19/18 19:30
720-90447-23	DG-AN7S-0.5-1	Solid	12/19/18 14:15	12/19/18 19:30
720-90447-24	DG-AN7S-3.5-4	Solid	12/19/18 14:15	12/19/18 19:30
720-90447-25	DG-AL7S-14.5-15	Solid	12/19/18 14:50	12/19/18 19:30
720-90447-26	DG-AP7S-0.5-1	Solid	12/19/18 14:50	12/19/18 19:30
720-90447-27	DG-AP7S-3.5-4	Solid	12/19/18 14:50	12/19/18 19:30
720-90447-28	DUP-49	Solid	12/19/18 14:50	12/19/18 19:30
720-90447-29	DG-AR7S-0.5-1	Solid	12/19/18 15:20	12/19/18 19:30
720-90447-30	DG-AR7S-3.5-4	Solid	12/19/18 15:20	12/19/18 19:30
720-90447-31	DG-AT7S-3.5-4	Solid	12/19/18 15:30	12/19/18 19:30

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90447

Chain of Custody Record

187487

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No 1 of 3 COCs
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	Sampler
1111 Broadway 6th Floor	Analysis Turnaround Time			For Lab Use Only:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90447 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes:
DG - R7S - 0.5 - 1	12/19/18	0815	G	S	1	N		X	
DG - R7S - 3.5 - 4		0815							
DG - R7S - 8 - 8.5		0815							
MD DG - T7S - 0.5 - 1							X		
DG - T7S - 3.5 - 4		0830							
DUP - 45		0830							
DG - V7S - 0.5 - 1		0900							
DG - V7S - 3.5 - 4		0900							
DG - X7S - 0.5 - 1		0915							
DG - X7S - 3.5 - 4		0915							
DUP - 46		0915							
DG - AB7S-0.5 - 1	↓	0945	↓	↓	↓	↓		↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.0, 1.6, 1.3, 1.0, 1.4, 2.5, 1.2, 2.7 °C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd. ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PCS	12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/16/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720 90447

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187487

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No 2
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
12 DG-AB7S-3.5-4	12/19/18	0945	G	S	1	N		X	
13 DG-AD7S-0.5-1		1015							
14 DG-AD7S-3.5-4		1015							
15 DG-AF7S-0.5-1		1130							
DG-AF7S-3.5-4		1130							
17 DG-AH7S-0.5-1		1140							
18 DG-AH7S-3.5-4		1140							
19 DG-AJ7S-0.5-1		1310							
20 DG-AJ7S-3.5-4		1310							
21 DG-AL7S-0.5-1		1330							
22 DG-AL7S-3.5-4		1330							
23 DG-AN7S-0.5-1		1415							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company TAPLS	Date/Time 12/19/18 1930	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TAPLS	Date/Time 12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/16/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90447

Chain of Custody Record

187487 12/19/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No 3
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
24	DG-AN7S-3.5-4	12/19/18	1415	G	S	1	N		X	
25	DG-AL7S-14.5-15		1400							
26	DG-AP7S-0.5-1		1450							
27	DG-AP7S-3.5-4		1450							
28	DUP-49		1450							
29	DG-AR7S-0.5-1		1520							
30	DG-AR7S-3.5-4		1520							
31	~~DG-AT7S-0.5-1~~		~~1530~~							
	DG-AT7S-3.5-4		1530							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Geosyntec	12/19/18 1600	[signature]	TAPLS	12/19/18 1600
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	TAPLS	12/19/18 1930	[signature]		
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			[signature]	TA PLS	12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/16/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90447-1

Login Number: 90447
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90448-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Urvashi Patel

Authorized for release by:
1/29/2019 10:01:08 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90448-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90448-1

Comments
No additional comments.

Receipt
The samples were received on 12/19/2018 7:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 1.0º C, 1.0º C, 1.2º C, 1.3º C, 1.4º C, 1.6º C, 2.5º C and 2.7º C.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257489 and analytical batch 720-257780 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257780 were outside of control limits. Ba-228%, Cu-190%, Pb-401%, Zn-395%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257780 was outside control limits for Ba-145%, Pb-154%, Zn-149%: (720-90448-A-21-D SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-O6S-3.5-4 (720-90448-21), DG-P6S-0.5-1 (720-90448-22), DG-P6S-3.5-4 (720-90448-23), DG-Q6S-0.5-1 (720-90448-24), DG-Q6S-3.5-4 (720-90448-25), DG-R6S-0.5-1 (720-90448-26), DG-R6S-3.5-4 (720-90448-27), DG-S6S-0.5-1 (720-90448-28), DG-S6S-3.5-4 (720-90448-29), DG-T6S-0.5-1 (720-90448-30), DG-T6S-3.5-4 (720-90448-31), DG-U6S-0.5-1 (720-90448-32), DG-U6S-3.5-4 (720-90448-33), DG-V6S-0.5-1 (720-90448-34), DG-V6S-3.5-4 (720-90448-35), DUP-37 (720-90448-36), (ICSA 720-257780/7), (720-90448-A-21-B MS), (720-90448-A-21-C MSD), (720-90448-A-21-D PDS) and (720-90448-A-21-D SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-257780 contained Pb above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-257482 and analytical batch 720-257838 contained Cr & Ni above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257482 and analytical batch 720-257838 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257482 and analytical batch 720-257838 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257838 were outside of control limits. Cr-129%, Cu-131%, Pb-127%, V-128%, Zn-126%

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-T4S-0.5-1 (720-90448-1), DG-T4S-3.5-4 (720-90448-2), DG-S4S-0.5-1 (720-90448-3), DG-S4S-3.5-4 (720-90448-4), DG-R4S-0.5-1 (720-90448-5), DG-R4S-3.5-4 (720-90448-6), DG-R4S-9.5-10 (720-90448-7), DG-Q4S-0.5-1 (720-90448-8), DG-Q4S-0.5-1 (720-90448-8[MS]), DG-Q4S-0.5-1 (720-90448-8[MSD]), DG-Q4S-3.5-4 (720-90448-9), DUP-19 (720-90448-10), DG-P4S-0.5-1 (720-90448-11), DG-P4S-3.5-4 (720-90448-12), DG-O4S-0.5-1 (720-90448-13), DG-O4S-3.5-4 (720-90448-14), DG-N4S-0.5-1 (720-90448-15), DG-N4S-3.5-4 (720-90448-16), DG-N6S-0.5-1 (720-90448-17), DG-N6S-3.5-4 (720-90448-18), DG-O6S-0.5-1 (720-90448-19), DUP-36 (720-90448-20), (720-90448-A-8-C PDS) and (720-90448-A-8-C SD). Elevated reporting limits (RLs) are provided.

Job ID: 720-90448-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257489 and analytical batch 720-257782 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257782 were outside of control limits. Ba-228%, Cu-190%, Pb-401%, Zn-395%

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-257782 was outside control limits for Ba-145%, Pb-154%, Zn-149%: (720-90448-A-21-D SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Client Sample ID: DG-T4S-0.5-1 — Lab Sample ID: 720-90448-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.5		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	15		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	64		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.37		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	30	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	1300		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	280		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	2.0		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	30	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	3.6	0.55	mg/Kg	4		6010B	Total/NA
Silver	3.4		0.91	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	370		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T4S-3.5-4 — Lab Sample ID: 720-90448-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	120		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.68		0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	56	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	54		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	46		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	280		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	45	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.9	0.59	mg/Kg	4		6010B	Total/NA
Vanadium	60		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	170		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.090		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S4S-0.5-1 — Lab Sample ID: 720-90448-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	8.2		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	58		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.73		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	29	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	8.5		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	100		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	130		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	28	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	3.1	0.47	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S4S-0.5-1 (Continued) — Lab Sample ID: 720-90448-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	44		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	130		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.048		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S4S-3.5-4 — Lab Sample ID: 720-90448-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	17		4.0	0.66	mg/Kg	10		6010B	Total/NA
Arsenic	320		7.9	0.67	mg/Kg	10		6010B	Total/NA
Barium	620		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	1.0		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.4		0.99	0.098	mg/Kg	10		6010B	Total/NA
Chromium	35	B	4.0	0.42	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	460		12	5.7	mg/Kg	10		6010B	Total/NA
Lead	2000		4.0	0.83	mg/Kg	10		6010B	Total/NA
Molybdenum	8.4		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	39	B	4.0	0.40	mg/Kg	10		6010B	Total/NA
Silver	3.6		2.0	0.40	mg/Kg	10		6010B	Total/NA
Thallium	1.2	J	4.0	1.2	mg/Kg	10		6010B	Total/NA
Vanadium	41		4.0	0.54	mg/Kg	10		6010B	Total/NA
Zinc	1100		12	5.0	mg/Kg	10		6010B	Total/NA
Mercury	0.31		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R4S-0.5-1 — Lab Sample ID: 720-90448-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	22		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	57		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.50		0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	110		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	150		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	20	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.6	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	550		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R4S-3.5-4 — Lab Sample ID: 720-90448-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19		4.6	0.76	mg/Kg	10		6010B	Total/NA
Arsenic	120		9.2	0.78	mg/Kg	10		6010B	Total/NA
Barium	1000		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.67	J	0.92	0.30	mg/Kg	10		6010B	Total/NA
Cadmium	1.4		1.1	0.11	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R4S-3.5-4 (Continued) — Lab Sample ID: 720-90448-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	37	B	4.6	0.49	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	1100		14	6.5	mg/Kg	10		6010B	Total/NA
Lead	2300		4.6	0.96	mg/Kg	10		6010B	Total/NA
Molybdenum	4.9		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	50	B	4.6	0.47	mg/Kg	10		6010B	Total/NA
Silver	4.2		2.3	0.46	mg/Kg	10		6010B	Total/NA
Thallium	1.9	J	4.6	1.3	mg/Kg	10		6010B	Total/NA
Vanadium	38		4.6	0.62	mg/Kg	10		6010B	Total/NA
Zinc	1600		14	5.8	mg/Kg	10		6010B	Total/NA
Mercury	0.31		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R4S-9.5-10 — Lab Sample ID: 720-90448-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	30		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	53		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.31	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	52	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	84		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	18		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	64	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.62	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	180		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.033		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q4S-0.5-1 — Lab Sample ID: 720-90448-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.99	J F1	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	16	F1	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	61		1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.61		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	14	B F1	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	8.7	F1	0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	77	F1	5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	150	F1 F2	1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.69	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	13	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	53	F1	1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	170	F1	5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.060		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q4S-3.5-4 — Lab Sample ID: 720-90448-9

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q4S-3.5-4 (Continued) — Lab Sample ID: 720-90448-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	81		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.41	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	38	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	5.5		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	86		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	140		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.51	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	29	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	210		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	1.4		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-19 — Lab Sample ID: 720-90448-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	22		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	93		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.30	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.55		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	39	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	5.1		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	31		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	120		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.38	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	30	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.50	J	3.0	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	310		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.055		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P4S-0.5-1 — Lab Sample ID: 720-90448-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.8		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	630		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	220		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	2.5		0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	37	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	9.1		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	190		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	610		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	2.0	0.26	mg/Kg	4		6010B	Total/NA
Nickel	41	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	4.0	0.60	mg/Kg	4		6010B	Total/NA
Silver	0.58	J	1.0	0.20	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P4S-0.5-1 (Continued) — Lab Sample ID: 720-90448-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	1.7	J	2.0	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	41		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	500		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P4S-3.5-4 — Lab Sample ID: 720-90448-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.98	J	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	68		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	46		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J	0.29	0.095	mg/Kg	4		6010B	Total/NA
Cadmium	0.32	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	42	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	6.1		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	20		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	21		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	34	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	52		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.033		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O4S-0.5-1 — Lab Sample ID: 720-90448-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.42	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	3.3	J	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	47		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	7.3	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	110		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	29		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.32	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	2.9	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	86		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.090		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O4S-3.5-4 — Lab Sample ID: 720-90448-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.74	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	48		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	32		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	31	B	1.8	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O4S-3.5-4 (Continued) — Lab Sample ID: 720-90448-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	4.9		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	15		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	34		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.45	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	21	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	23		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	43		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.024		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N4S-0.5-1 — Lab Sample ID: 720-90448-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.6		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	250		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	82		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	24	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	380		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	370		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	26	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.6	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	310		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N4S-3.5-4 — Lab Sample ID: 720-90448-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	84		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	18		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.078	J	0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	28	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	4.5		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	6.9		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	3.7		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	23	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	20		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	17		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.021		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N6S-0.5-1 — Lab Sample ID: 720-90448-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.0		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	19		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	79		1.8	0.26	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N6S-0.5-1 (Continued) — Lab Sample ID: 720-90448-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.13	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	6.0		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	55	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	1100		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	940		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	8.3		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	47	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.2	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Silver	1.0		0.90	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	750		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.32		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N6S-3.5-4 — Lab Sample ID: 720-90448-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.9		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	9.0		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	320		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.95		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	17	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	3.5		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	300		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	1600		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	13	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Silver	2.0		0.93	0.19	mg/Kg	4		6010B	Total/NA
Thallium	1.2	J	1.9	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	11		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	770		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.55		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O6S-0.5-1 — Lab Sample ID: 720-90448-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	2.8	J	3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	54		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.30	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.67		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	18	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	130		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	55		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	12	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	3.0	0.44	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O6S-0.5-1 (Continued) — Lab Sample ID: 720-90448-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	84		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	160		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.098		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-36 — Lab Sample ID: 720-90448-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	3.6		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	56		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.92		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	19	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	250		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	71		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.9		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	12	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	750		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O6S-3.5-4 — Lab Sample ID: 720-90448-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12	F1	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	11	F1	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	250		1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	14	F1	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	4.1	F1	0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	190	F2	5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	780		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	14	F1	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Silver	1.1	F1	0.87	0.18	mg/Kg	4		6010B	Total/NA
Thallium	1.2	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	19	F1	1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	740		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.93		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P6S-0.5-1 — Lab Sample ID: 720-90448-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.1		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	21		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	450		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.31	0.10	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P6S-0.5-1 (Continued) — Lab Sample ID: 720-90448-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	1.3		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	20		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	300		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	750		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	21		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.85	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Silver	2.0		0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	55		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	630		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P6S-3.5-4 — Lab Sample ID: 720-90448-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	28		4.6	0.77	mg/Kg	10		6010B	Total/NA
Arsenic	19		9.3	0.79	mg/Kg	10		6010B	Total/NA
Barium	940		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.55		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	3.1		1.2	0.11	mg/Kg	10		6010B	Total/NA
Chromium	30		4.6	0.49	mg/Kg	10		6010B	Total/NA
Cobalt	7.7		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	540		14	6.6	mg/Kg	10		6010B	Total/NA
Lead	2400		4.6	0.97	mg/Kg	10		6010B	Total/NA
Molybdenum	0.53	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	43		4.6	0.47	mg/Kg	10		6010B	Total/NA
Selenium	3.7	J	9.3	1.4	mg/Kg	10		6010B	Total/NA
Silver	3.7		2.3	0.47	mg/Kg	10		6010B	Total/NA
Thallium	2.1	J	4.6	1.3	mg/Kg	10		6010B	Total/NA
Vanadium	27		4.6	0.63	mg/Kg	10		6010B	Total/NA
Zinc	1700		14	5.9	mg/Kg	10		6010B	Total/NA
Mercury	0.25		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q6S-0.5-1 — Lab Sample ID: 720-90448-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.7		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	67		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.31	0.030	mg/Kg	4		6010B	Total/NA
Chromium	24		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	7.3		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	100		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	110		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.36	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	22		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.55	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Silver	0.12	J	0.61	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.2	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q6S-0.5-1 (Continued) — Lab Sample ID: 720-90448-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	89		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q6S-3.5-4 — Lab Sample ID: 720-90448-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	26		4.5	0.75	mg/Kg	10		6010B	Total/NA
Arsenic	47		9.0	0.77	mg/Kg	10		6010B	Total/NA
Barium	1200		4.5	0.64	mg/Kg	10		6010B	Total/NA
Beryllium	0.49	J	0.90	0.29	mg/Kg	10		6010B	Total/NA
Cadmium	3.6		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	52		4.5	0.48	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	1400		14	6.4	mg/Kg	10		6010B	Total/NA
Lead	4200	^	4.5	0.95	mg/Kg	10		6010B	Total/NA
Molybdenum	2.7	J	4.5	0.58	mg/Kg	10		6010B	Total/NA
Nickel	47		4.5	0.46	mg/Kg	10		6010B	Total/NA
Selenium	2.8	J	9.0	1.4	mg/Kg	10		6010B	Total/NA
Silver	7.3		2.3	0.45	mg/Kg	10		6010B	Total/NA
Thallium	1.8	J	4.5	1.3	mg/Kg	10		6010B	Total/NA
Vanadium	37		4.5	0.61	mg/Kg	10		6010B	Total/NA
Zinc	2500		14	5.7	mg/Kg	10		6010B	Total/NA
Mercury	0.61		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R6S-0.5-1 — Lab Sample ID: 720-90448-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.7		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	200		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	4.0		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	66		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	23		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	5400		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	790	^	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	5.4		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	65		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.79	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Silver	1.9		0.85	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	980		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.66		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R6S-3.5-4 — Lab Sample ID: 720-90448-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.3		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	9.6		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	260		2.0	0.28	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R6S-3.5-4 (Continued) — Lab Sample ID: 720-90448-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.71		0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	32		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	240		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	630	^	2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	18		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	4.0	0.60	mg/Kg	4		6010B	Total/NA
Silver	1.1		1.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	47		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	600		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S6S-0.5-1 — Lab Sample ID: 720-90448-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.9		4.1	0.69	mg/Kg	10		6010B	Total/NA
Arsenic	23		8.3	0.70	mg/Kg	10		6010B	Total/NA
Barium	300		4.1	0.59	mg/Kg	10		6010B	Total/NA
Cadmium	15		1.0	0.10	mg/Kg	10		6010B	Total/NA
Chromium	88		4.1	0.44	mg/Kg	10		6010B	Total/NA
Cobalt	22		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	580		12	5.9	mg/Kg	10		6010B	Total/NA
Lead	660	^	4.1	0.87	mg/Kg	10		6010B	Total/NA
Molybdenum	7.8		4.1	0.53	mg/Kg	10		6010B	Total/NA
Nickel	93		4.1	0.42	mg/Kg	10		6010B	Total/NA
Selenium	1.7	J	8.3	1.2	mg/Kg	10		6010B	Total/NA
Silver	1.5	J	2.1	0.42	mg/Kg	10		6010B	Total/NA
Vanadium	120		4.1	0.56	mg/Kg	10		6010B	Total/NA
Zinc	780		12	5.2	mg/Kg	10		6010B	Total/NA
Mercury	0.25		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S6S-3.5-4 — Lab Sample ID: 720-90448-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.4		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	360		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.39	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	14		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	4.1		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	260		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	1500	^	1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.33	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	15		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.99	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Silver	2.3		0.93	0.19	mg/Kg	4		6010B	Total/NA
Thallium	0.80	J	1.9	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	11		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	620		5.6	2.4	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S6S-3.5-4 (Continued) — Lab Sample ID: 720-90448-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.19		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T6S-0.5-1 — Lab Sample ID: 720-90448-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.85	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	5.4		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	71		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	22		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.1		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	110		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	77	^	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.48	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	22		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	82		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T6S-3.5-4 — Lab Sample ID: 720-90448-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	32		4.1	0.68	mg/Kg	10		6010B	Total/NA
Arsenic	33		8.2	0.70	mg/Kg	10		6010B	Total/NA
Barium	1600		4.1	0.58	mg/Kg	10		6010B	Total/NA
Beryllium	0.61	J	0.82	0.27	mg/Kg	10		6010B	Total/NA
Cadmium	5.7		1.0	0.10	mg/Kg	10		6010B	Total/NA
Chromium	46		4.1	0.43	mg/Kg	10		6010B	Total/NA
Cobalt	7.7		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	900		12	5.8	mg/Kg	10		6010B	Total/NA
Lead	4200	^	4.1	0.86	mg/Kg	10		6010B	Total/NA
Molybdenum	1.6	J	4.1	0.52	mg/Kg	10		6010B	Total/NA
Nickel	42		4.1	0.42	mg/Kg	10		6010B	Total/NA
Silver	8.4		2.0	0.41	mg/Kg	10		6010B	Total/NA
Vanadium	36		4.1	0.56	mg/Kg	10		6010B	Total/NA
Zinc	3700		12	5.2	mg/Kg	10		6010B	Total/NA
Mercury	0.38		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U6S-0.5-1 — Lab Sample ID: 720-90448-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	2.6	J	2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	53		1.4	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	17		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	140		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	400	^	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.31	J	1.4	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U6S-0.5-1 (Continued) — Lab Sample ID: 720-90448-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	8.3		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.55	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Silver	0.19	J	0.72	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	93		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.049		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U6S-3.5-4 — Lab Sample ID: 720-90448-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	40		7.3	1.2	mg/Kg	20		6010B	Total/NA
Arsenic	60		15	1.2	mg/Kg	20		6010B	Total/NA
Barium	2000		3.6	0.52	mg/Kg	10		6010B	Total/NA
Beryllium	0.30	J	0.73	0.24	mg/Kg	10		6010B	Total/NA
Cadmium	5.1		1.8	0.18	mg/Kg	20		6010B	Total/NA
Chromium	49		7.3	0.77	mg/Kg	20		6010B	Total/NA
Cobalt	18		2.9	0.29	mg/Kg	20		6010B	Total/NA
Copper	780		22	10	mg/Kg	20		6010B	Total/NA
Lead	6700		7.3	1.5	mg/Kg	20		6010B	Total/NA
Molybdenum	3.0	J	3.6	0.47	mg/Kg	10		6010B	Total/NA
Nickel	87		7.3	0.74	mg/Kg	20		6010B	Total/NA
Silver	3.4	J	3.6	0.74	mg/Kg	20		6010B	Total/NA
Thallium	2.2	J	7.3	2.1	mg/Kg	20		6010B	Total/NA
Vanadium	23		7.3	0.99	mg/Kg	20		6010B	Total/NA
Zinc	2200		22	9.3	mg/Kg	20		6010B	Total/NA
Mercury	0.66		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V6S-0.5-1 — Lab Sample ID: 720-90448-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	8.3		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	110		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	28		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	140		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	350	^	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	43		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.82	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	0.21	J	0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	250		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.27		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V6S-3.5-4 — Lab Sample ID: 720-90448-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.5	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V6S-3.5-4 (Continued)

Lab Sample ID: 720-90448-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.3		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	200		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.74		0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.47		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	35		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	140		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	270	^	1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	37		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.76	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Silver	0.92		0.74	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	460		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	1.6		0.065	0.0095	mg/Kg	4		7471A	Total/NA

Client Sample ID: DUP-37

Lab Sample ID: 720-90448-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	9.5		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	210		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.79		0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.81		0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	34		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	130		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	320	^	2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	38		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.97	J	4.0	0.60	mg/Kg	4		6010B	Total/NA
Silver	0.34	J	1.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	38		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	430		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	1.1		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T4S-0.5-1

Date Collected: 12/19/18 08:09
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.5		1.8	0.30	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Arsenic	15		3.6	0.31	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Barium	64		1.8	0.26	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Beryllium	0.37		0.36	0.12	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Cadmium	1.6		0.45	0.045	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Chromium	30	B	1.8	0.19	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Cobalt	11		0.73	0.073	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Copper	1300		5.5	2.6	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Lead	280		1.8	0.38	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Molybdenum	2.0		1.8	0.23	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Nickel	30	B	1.8	0.19	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Selenium	1.8	J	3.6	0.55	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Silver	3.4		0.91	0.18	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Thallium	ND		1.8	0.53	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Vanadium	76		1.8	0.25	mg/Kg		12/21/18 17:49	12/31/18 18:27	4
Zinc	370		5.5	2.3	mg/Kg		12/21/18 17:49	12/31/18 18:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.017	0.0025	mg/Kg		12/24/18 09:08	01/07/19 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-T4S-3.5-4

Date Collected: 12/19/18 08:12
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		2.0	0.33	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Arsenic	16		3.9	0.33	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Barium	120		2.0	0.28	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Beryllium	0.68		0.39	0.13	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Cadmium	0.18	J	0.49	0.049	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Chromium	56	B	2.0	0.21	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Cobalt	54		0.78	0.078	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Copper	46		5.9	2.8	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Lead	280		2.0	0.41	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Molybdenum	1.4	J	2.0	0.25	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Nickel	45	B	2.0	0.20	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Selenium	1.5	J	3.9	0.59	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Silver	ND		0.98	0.20	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Thallium	ND		2.0	0.57	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Vanadium	60		2.0	0.27	mg/Kg		12/21/18 17:49	12/31/18 18:31	4
Zinc	170		5.9	2.5	mg/Kg		12/21/18 17:49	12/31/18 18:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.090		0.015	0.0023	mg/Kg		12/24/18 09:08	01/07/19 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.2		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-S4S-0.5-1

Date Collected: 12/19/18 08:22
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.6	0.26	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Arsenic	8.2		3.1	0.26	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Barium	58		1.6	0.22	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Beryllium	ND		0.31	0.10	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Cadmium	0.73		0.39	0.038	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Chromium	29	B	1.6	0.16	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Cobalt	8.5		0.62	0.062	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Copper	100		4.7	2.2	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Lead	130		1.6	0.33	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Molybdenum	1.6		1.6	0.20	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Nickel	28	B	1.6	0.16	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Selenium	1.7	J	3.1	0.47	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Silver	ND		0.78	0.16	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Thallium	ND		1.6	0.45	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Vanadium	44		1.6	0.21	mg/Kg		12/21/18 17:49	12/31/18 18:36	4
Zinc	130		4.7	2.0	mg/Kg		12/21/18 17:49	12/31/18 18:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.015	0.0023	mg/Kg		12/24/18 09:08	01/07/19 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-S4S-3.5-4

Date Collected: 12/19/18 08:28
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	17		4.0	0.66	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Arsenic	320		7.9	0.67	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Barium	620		1.6	0.23	mg/Kg		12/21/18 17:49	12/31/18 18:41	4
Beryllium	1.0		0.32	0.10	mg/Kg		12/21/18 17:49	12/31/18 18:41	4
Cadmium	1.4		0.99	0.098	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Chromium	35	B	4.0	0.42	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Cobalt	11		1.6	0.16	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Copper	460		12	5.7	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Lead	2000		4.0	0.83	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Molybdenum	8.4		1.6	0.20	mg/Kg		12/21/18 17:49	12/31/18 18:41	4
Nickel	39	B	4.0	0.40	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Selenium	ND		7.9	1.2	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Silver	3.6		2.0	0.40	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Thallium	1.2	J	4.0	1.2	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Vanadium	41		4.0	0.54	mg/Kg		12/21/18 17:49	01/02/19 14:04	10
Zinc	1100		12	5.0	mg/Kg		12/21/18 17:49	01/02/19 14:04	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.016	0.0024	mg/Kg		12/24/18 09:08	01/07/19 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.9		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-R4S-0.5-1

Date Collected: 12/19/18 08:37
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	J	1.9	0.31	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Arsenic	22		3.7	0.32	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Barium	57		1.9	0.27	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Beryllium	ND		0.37	0.12	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Cadmium	0.50		0.47	0.046	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Chromium	20	B	1.9	0.20	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Cobalt	11		0.75	0.075	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Copper	110		5.6	2.7	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Lead	150		1.9	0.39	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Molybdenum	1.6	J	1.9	0.24	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Nickel	20	B	1.9	0.19	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Selenium	2.6	J	3.7	0.56	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Silver	ND		0.93	0.19	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Thallium	ND		1.9	0.54	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Vanadium	66		1.9	0.25	mg/Kg		12/21/18 17:49	12/31/18 18:46	4
Zinc	550		5.6	2.4	mg/Kg		12/21/18 17:49	12/31/18 18:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.017	0.0025	mg/Kg		12/24/18 09:08	01/07/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-R4S-3.5-4

Date Collected: 12/19/18 08:42
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		4.6	0.76	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Arsenic	120		9.2	0.78	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Barium	1000		1.8	0.26	mg/Kg		12/21/18 17:49	12/31/18 18:50	4
Beryllium	0.67	J	0.92	0.30	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Cadmium	1.4		1.1	0.11	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Chromium	37	B	4.6	0.49	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Cobalt	11		1.8	0.18	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Copper	1100		14	6.5	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Lead	2300		4.6	0.96	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Molybdenum	4.9		1.8	0.23	mg/Kg		12/21/18 17:49	12/31/18 18:50	4
Nickel	50	B	4.6	0.47	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Selenium	ND		9.2	1.4	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Silver	4.2		2.3	0.46	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Thallium	1.9	J	4.6	1.3	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Vanadium	38		4.6	0.62	mg/Kg		12/21/18 17:49	01/02/19 14:09	10
Zinc	1600		14	5.8	mg/Kg		12/21/18 17:49	01/02/19 14:09	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.015	0.0023	mg/Kg		12/24/18 09:08	01/07/19 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.0		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-R4S-9.5-10

Date Collected: 12/19/18 08:55
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	1.9	0.32	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Arsenic	30		3.8	0.33	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Barium	53		1.9	0.27	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Beryllium	0.50		0.38	0.13	mg/Kg		12/21/18 17:49	01/02/19 14:14	4
Cadmium	0.31	J	0.48	0.048	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Chromium	52	B	1.9	0.20	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Cobalt	13		0.77	0.077	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Copper	84		5.8	2.7	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Lead	18		1.9	0.40	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Molybdenum	1.1	J	1.9	0.25	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Nickel	64	B	1.9	0.20	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Selenium	0.62	J	3.8	0.58	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Silver	ND		0.96	0.19	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Thallium	ND		1.9	0.56	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Vanadium	56		1.9	0.26	mg/Kg		12/21/18 17:49	12/31/18 18:55	4
Zinc	180		5.8	2.4	mg/Kg		12/21/18 17:49	12/31/18 18:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.016	0.0024	mg/Kg		12/24/18 09:08	01/07/19 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.6		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-Q4S-0.5-1

Date Collected: 12/19/18 09:32
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.99	J F1	1.7	0.29	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Arsenic	16	F1	3.5	0.30	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Barium	61		1.7	0.25	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Beryllium	ND		0.35	0.11	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Cadmium	0.61		0.43	0.043	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Chromium	14	B F1	1.7	0.18	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Cobalt	8.7	F1	0.70	0.070	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Copper	77	F1	5.2	2.5	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Lead	150	F1 F2	1.7	0.37	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Molybdenum	0.69	J	1.7	0.22	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Nickel	13	B	1.7	0.18	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Selenium	1.1	J	3.5	0.52	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Silver	ND		0.87	0.18	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Thallium	ND		1.7	0.50	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Vanadium	53	F1	1.7	0.24	mg/Kg		12/21/18 17:49	12/31/18 18:12	4
Zinc	170	F1	5.2	2.2	mg/Kg		12/21/18 17:49	12/31/18 18:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.016	0.0023	mg/Kg		12/24/18 09:08	01/07/19 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.0		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-Q4S-3.5-4

Date Collected: 12/19/18 09:37
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.8	0.29	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Arsenic	13		3.5	0.30	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Barium	81		1.8	0.25	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Beryllium	0.14	J	0.35	0.12	mg/Kg		12/21/18 17:49	01/02/19 14:18	4
Cadmium	0.41	J	0.44	0.044	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Chromium	38	B	1.8	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Cobalt	5.5		0.71	0.071	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Copper	86		5.3	2.5	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Lead	140		1.8	0.37	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Molybdenum	0.51	J	1.8	0.23	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Nickel	29	B	1.8	0.18	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Selenium	1.1	J	3.5	0.53	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Silver	ND		0.88	0.18	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Thallium	ND		1.8	0.51	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Vanadium	27		1.8	0.24	mg/Kg		12/21/18 17:49	12/31/18 19:00	4
Zinc	210		5.3	2.2	mg/Kg		12/21/18 17:49	12/31/18 19:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.015	0.0021	mg/Kg		12/24/18 09:08	01/07/19 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.9		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DUP-19

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.5	0.25	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Arsenic	22		3.0	0.25	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Barium	93		1.5	0.21	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Beryllium	0.18	J	0.30	0.096	mg/Kg		12/21/18 17:49	01/02/19 14:23	4
Cadmium	0.55		0.37	0.037	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Chromium	39	B	1.5	0.16	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Cobalt	5.1		0.59	0.059	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Copper	31		4.4	2.1	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Lead	120		1.5	0.31	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Molybdenum	0.38	J	1.5	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Nickel	30	B	1.5	0.15	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Selenium	0.50	J	3.0	0.44	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Silver	ND		0.74	0.15	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Thallium	ND		1.5	0.43	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Vanadium	25		1.5	0.20	mg/Kg		12/21/18 17:49	12/31/18 19:05	4
Zinc	310		4.4	1.9	mg/Kg		12/21/18 17:49	12/31/18 19:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.016	0.0024	mg/Kg		12/24/18 09:50	01/07/19 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.8		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-P4S-0.5-1

Date Collected: 12/19/18 09:45
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.8		2.0	0.33	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Arsenic	630		4.0	0.34	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Barium	220		2.0	0.28	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Beryllium	ND		0.40	0.13	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Cadmium	2.5		0.50	0.050	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Chromium	37	B	2.0	0.21	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Cobalt	9.1		0.80	0.080	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Copper	190		6.0	2.8	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Lead	610		2.0	0.42	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Molybdenum	1.0	J	2.0	0.26	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Nickel	41	B	2.0	0.20	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Selenium	2.1	J	4.0	0.60	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Silver	0.58	J	1.0	0.20	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Thallium	1.7	J	2.0	0.58	mg/Kg		12/21/18 17:49	01/02/19 14:28	4
Vanadium	41		2.0	0.27	mg/Kg		12/21/18 17:49	12/31/18 19:09	4
Zinc	500		6.0	2.5	mg/Kg		12/21/18 17:49	12/31/18 19:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.017	0.0025	mg/Kg		12/24/18 09:50	01/07/19 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-P4S-3.5-4

Date Collected: 12/19/18 09:49
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.98	J	1.5	0.24	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Arsenic	68		2.9	0.25	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Barium	46		1.5	0.21	mg/Kg		12/21/18 17:49	01/02/19 14:32	4
Beryllium	0.25	J	0.29	0.095	mg/Kg		12/21/18 17:49	01/02/19 14:32	4
Cadmium	0.32	J	0.36	0.036	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Chromium	42	B	1.5	0.15	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Cobalt	6.1		0.58	0.058	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Copper	20		4.4	2.1	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Lead	21		1.5	0.31	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Molybdenum	0.40	J	1.5	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Nickel	34	B	1.5	0.15	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Selenium	1.3	J	2.9	0.44	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Silver	ND		0.73	0.15	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Thallium	ND		1.5	0.42	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Vanadium	30		1.5	0.20	mg/Kg		12/21/18 17:49	12/31/18 19:24	4
Zinc	52		4.4	1.9	mg/Kg		12/21/18 17:49	12/31/18 19:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.014	0.0021	mg/Kg		12/24/18 09:50	01/07/19 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.4		0.1	0.05	%			12/21/18 14:05	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Client Sample ID: DG-O4S-0.5-1
Date Collected: 12/19/18 10:20
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-13
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.9	0.32	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Arsenic	3.3	J	3.8	0.32	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Barium	47		1.9	0.27	mg/Kg		12/21/18 17:49	01/02/19 14:37	4
Beryllium	ND		0.38	0.12	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Cadmium	0.29	J	0.48	0.047	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Chromium	7.3	B	1.9	0.20	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Cobalt	7.5		0.76	0.076	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Copper	110		5.7	2.7	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Lead	29		1.9	0.40	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Molybdenum	0.32	J	1.9	0.24	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Nickel	2.9	B	1.9	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Selenium	1.2	J	3.8	0.57	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Silver	ND		0.95	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Thallium	ND		1.9	0.55	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Vanadium	100		1.9	0.26	mg/Kg		12/21/18 17:49	12/31/18 19:28	4
Zinc	86		5.7	2.4	mg/Kg		12/21/18 17:49	12/31/18 19:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.090		0.015	0.0021	mg/Kg		12/24/18 09:50	01/07/19 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.9		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-O4S-3.5-4

Date Collected: 12/19/18 10:24
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.74	J	1.8	0.30	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Arsenic	48		3.6	0.31	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Barium	32		1.8	0.26	mg/Kg		12/21/18 17:49	01/02/19 14:41	4
Beryllium	ND		0.36	0.12	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Cadmium	0.11	J	0.45	0.045	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Chromium	31	B	1.8	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Cobalt	4.9		0.73	0.073	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Copper	15		5.5	2.6	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Lead	34		1.8	0.38	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Molybdenum	0.45	J	1.8	0.23	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Nickel	21	B	1.8	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Selenium	ND		3.6	0.55	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Silver	ND		0.91	0.18	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Thallium	ND		1.8	0.53	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Vanadium	23		1.8	0.25	mg/Kg		12/21/18 17:49	12/31/18 19:33	4
Zinc	43		5.5	2.3	mg/Kg		12/21/18 17:49	12/31/18 19:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.016	0.0024	mg/Kg		12/24/18 09:50	01/07/19 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.3		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-N4S-0.5-1

Date Collected: 12/19/18 10:42
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.6		1.7	0.28	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Arsenic	250		3.4	0.29	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Barium	82		1.7	0.24	mg/Kg		12/21/18 17:49	01/02/19 14:55	4
Beryllium	ND		0.34	0.11	mg/Kg		12/21/18 17:49	01/02/19 14:55	4
Cadmium	1.0		0.42	0.042	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Chromium	24	B	1.7	0.18	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Cobalt	12		0.67	0.067	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Copper	380		5.0	2.4	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Lead	370		1.7	0.35	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Molybdenum	1.1	J	1.7	0.22	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Nickel	26	B	1.7	0.17	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Selenium	2.6	J	3.4	0.50	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Silver	ND		0.84	0.17	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Thallium	ND		1.7	0.49	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Vanadium	79		1.7	0.23	mg/Kg		12/21/18 17:49	12/31/18 19:38	4
Zinc	310		5.0	2.1	mg/Kg		12/21/18 17:49	12/31/18 19:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.05	%			12/21/18 14:05	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Client Sample ID: DG-N4S-3.5-4
Date Collected: 12/19/18 10:46
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-16
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Arsenic	**84**		3.1	0.26	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Barium	**18**		1.6	0.22	mg/Kg		12/21/18 17:49	01/02/19 15:00	4
Beryllium	ND		0.31	0.10	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Cadmium	**0.078**	**J**	0.39	0.038	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Chromium	**28**	**B**	1.6	0.16	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Cobalt	**4.5**		0.62	0.062	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Copper	**6.9**		4.7	2.2	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Lead	**3.7**		1.6	0.33	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Molybdenum	**0.27**	**J**	1.6	0.20	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Nickel	**23**	**B**	1.6	0.16	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Selenium	**1.2**	**J**	3.1	0.47	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Silver	ND		0.78	0.16	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Thallium	ND		1.6	0.45	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Vanadium	**20**		1.6	0.21	mg/Kg		12/21/18 17:49	12/31/18 19:43	4
Zinc	**17**		4.7	2.0	mg/Kg		12/21/18 17:49	12/31/18 19:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.016	0.0024	mg/Kg		01/04/19 11:00	01/04/19 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.6**		0.1	0.05	%			12/21/18 14:05	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Client Sample ID: DG-N6S-0.5-1

Date Collected: 12/19/18 13:02
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0		1.8	0.30	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Arsenic	19		3.6	0.31	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Barium	79		1.8	0.26	mg/Kg		12/21/18 17:49	01/02/19 15:05	4
Beryllium	0.13	J	0.36	0.12	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Cadmium	6.0		0.45	0.045	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Chromium	55	B	1.8	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Cobalt	10		0.72	0.072	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Copper	1100		5.4	2.6	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Lead	940		1.8	0.38	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Molybdenum	8.3		1.8	0.23	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Nickel	47	B	1.8	0.18	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Selenium	2.2	J	3.6	0.54	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Silver	1.0		0.90	0.18	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Thallium	ND		1.8	0.52	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Vanadium	43		1.8	0.25	mg/Kg		12/21/18 17:49	12/31/18 19:47	4
Zinc	750		5.4	2.3	mg/Kg		12/21/18 17:49	12/31/18 19:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.32		0.015	0.0021	mg/Kg		01/04/19 11:00	01/04/19 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.05	%			12/21/18 14:05	1

Client Sample ID: DG-N6S-3.5-4
Date Collected: 12/19/18 13:06
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-18
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.9		1.9	0.31	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Arsenic	9.0		3.7	0.31	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Barium	320		1.9	0.26	mg/Kg		12/21/18 17:49	01/02/19 15:09	4
Beryllium	0.21	J	0.37	0.12	mg/Kg		12/21/18 17:49	01/02/19 15:09	4
Cadmium	0.95		0.46	0.046	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Chromium	17	B	1.9	0.20	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Cobalt	3.5		0.74	0.074	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Copper	300		5.6	2.6	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Lead	1600		1.9	0.39	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Molybdenum	1.6	J	1.9	0.24	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Nickel	13	B	1.9	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Selenium	1.8	J	3.7	0.56	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Silver	2.0		0.93	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Thallium	1.2	J	1.9	0.54	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Vanadium	11		1.9	0.25	mg/Kg		12/21/18 17:49	12/31/18 19:52	4
Zinc	770		5.6	2.4	mg/Kg		12/21/18 17:49	12/31/18 19:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.9		0.1	0.05	%			12/21/18 14:05	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Client Sample ID: DG-O6S-0.5-1

Date Collected: 12/19/18 13:15
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.5	0.25	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Arsenic	2.8	J	3.0	0.25	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Barium	54		1.5	0.21	mg/Kg		12/21/18 17:49	01/02/19 15:14	4
Beryllium	0.17	J	0.30	0.096	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Cadmium	0.67		0.37	0.037	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Chromium	18	B	1.5	0.16	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Cobalt	11		0.59	0.059	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Copper	130		4.4	2.1	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Lead	55		1.5	0.31	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Molybdenum	1.6		1.5	0.19	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Nickel	12	B	1.5	0.15	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Selenium	1.7	J	3.0	0.44	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Silver	ND		0.74	0.15	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Thallium	ND		1.5	0.43	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Vanadium	84		1.5	0.20	mg/Kg		12/21/18 17:49	12/31/18 19:57	4
Zinc	160		4.4	1.9	mg/Kg		12/21/18 17:49	12/31/18 19:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.098		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DUP-36

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.8	0.29	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Arsenic	3.6		3.5	0.30	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Barium	56		1.8	0.25	mg/Kg		12/21/18 17:49	01/02/19 15:19	4
Beryllium	ND		0.35	0.12	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Cadmium	0.92		0.44	0.044	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Chromium	19	B	1.8	0.19	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Cobalt	14		0.71	0.071	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Copper	250		5.3	2.5	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Lead	71		1.8	0.37	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Molybdenum	1.9		1.8	0.23	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Nickel	12	B	1.8	0.18	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Selenium	2.0	J	3.5	0.53	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Silver	ND		0.88	0.18	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Thallium	ND		1.8	0.51	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Vanadium	110		1.8	0.24	mg/Kg		12/21/18 17:49	12/31/18 20:02	4
Zinc	750		5.3	2.2	mg/Kg		12/21/18 17:49	12/31/18 20:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.05	%			12/21/18 14:43	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Client Sample ID: DG-O6S-3.5-4
Date Collected: 12/19/18 13:22
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-21
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12	F1	1.7	0.29	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Arsenic	11	F1	3.5	0.30	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Barium	250		1.7	0.25	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Beryllium	0.25	J	0.35	0.11	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Cadmium	1.1		0.43	0.043	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Chromium	14	F1	1.7	0.18	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Cobalt	4.1	F1	0.70	0.070	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Copper	190	F2	5.2	2.5	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Lead	780		1.7	0.37	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Molybdenum	0.35	J	1.7	0.22	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Nickel	14	F1	1.7	0.18	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Selenium	1.4	J	3.5	0.52	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Silver	1.1	F1	0.87	0.18	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Thallium	1.2	J	1.7	0.50	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Vanadium	19	F1	1.7	0.24	mg/Kg		12/26/18 15:30	12/28/18 17:44	4
Zinc	740		5.2	2.2	mg/Kg		12/26/18 15:30	12/28/18 17:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.93		0.015	0.0022	mg/Kg		01/04/19 11:00	01/04/19 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.6		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-P6S-0.5-1

Date Collected: 12/19/18 13:30
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.1		1.6	0.26	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Arsenic	21		3.1	0.27	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Barium	450		1.6	0.22	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Beryllium	0.17	J	0.31	0.10	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Cadmium	1.3		0.39	0.039	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Chromium	20		1.6	0.17	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Cobalt	7.7		0.63	0.063	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Copper	300		4.7	2.2	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Lead	750		1.6	0.33	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Molybdenum	0.53	J	1.6	0.20	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Nickel	21		1.6	0.16	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Selenium	0.85	J	3.1	0.47	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Silver	2.0		0.78	0.16	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Thallium	ND		1.6	0.45	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Vanadium	55		1.6	0.21	mg/Kg		12/26/18 15:30	12/28/18 17:48	4
Zinc	630		4.7	2.0	mg/Kg		12/26/18 15:30	12/28/18 17:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.0		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-P6S-3.5-4

Date Collected: 12/19/18 13:32
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	28		4.6	0.77	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Arsenic	19		9.3	0.79	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Barium	940		1.9	0.26	mg/Kg		12/26/18 15:30	12/28/18 17:53	4
Beryllium	0.55		0.37	0.12	mg/Kg		12/26/18 15:30	12/28/18 17:53	4
Cadmium	3.1		1.2	0.11	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Chromium	30		4.6	0.49	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Cobalt	7.7		1.9	0.19	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Copper	540		14	6.6	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Lead	2400		4.6	0.97	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Molybdenum	0.53	J	1.9	0.24	mg/Kg		12/26/18 15:30	12/28/18 17:53	4
Nickel	43		4.6	0.47	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Selenium	3.7	J	9.3	1.4	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Silver	3.7		2.3	0.47	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Thallium	2.1	J	4.6	1.3	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Vanadium	27		4.6	0.63	mg/Kg		12/26/18 15:30	01/02/19 12:20	10
Zinc	1700		14	5.9	mg/Kg		12/26/18 15:30	01/02/19 12:20	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.014	0.0021	mg/Kg		01/04/19 11:00	01/04/19 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.8		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-Q6S-0.5-1

Date Collected: 12/19/18 13:42
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.2	0.20	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Arsenic	2.7		2.5	0.21	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Barium	67		1.2	0.17	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Beryllium	ND		0.25	0.080	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Cadmium	0.13	J	0.31	0.030	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Chromium	24		1.2	0.13	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Cobalt	7.3		0.49	0.049	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Copper	100		3.7	1.7	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Lead	110		1.2	0.26	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Molybdenum	0.36	J	1.2	0.16	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Nickel	22		1.2	0.13	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Selenium	0.55	J	2.5	0.37	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Silver	0.12	J	0.61	0.12	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Thallium	ND		1.2	0.36	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Vanadium	64		1.2	0.17	mg/Kg		12/26/18 15:30	12/28/18 17:58	4
Zinc	89		3.7	1.6	mg/Kg		12/26/18 15:30	12/28/18 17:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-Q6S-3.5-4

Date Collected: 12/19/18 13:48
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	26		4.5	0.75	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Arsenic	47		9.0	0.77	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Barium	1200		4.5	0.64	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Beryllium	0.49	J	0.90	0.29	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Cadmium	3.6		1.1	0.11	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Chromium	52		4.5	0.48	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Cobalt	13		1.8	0.18	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Copper	1400		14	6.4	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Lead	4200	^	4.5	0.95	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Molybdenum	2.7	J	4.5	0.58	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Nickel	47		4.5	0.46	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Selenium	2.8	J	9.0	1.4	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Silver	7.3		2.3	0.45	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Thallium	1.8	J	4.5	1.3	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Vanadium	37		4.5	0.61	mg/Kg		12/26/18 15:30	12/28/18 18:12	10
Zinc	2500		14	5.7	mg/Kg		12/26/18 15:30	12/28/18 18:12	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.5		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-R6S-0.5-1

Date Collected: 12/19/18 13:57
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.7		1.7	0.28	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Arsenic	12		3.4	0.29	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Barium	200		1.7	0.24	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Beryllium	0.44		0.34	0.11	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Cadmium	4.0		0.42	0.042	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Chromium	66		1.7	0.18	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Cobalt	23		0.68	0.068	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Copper	5400		5.1	2.4	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Lead	790	^	1.7	0.36	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Molybdenum	5.4		1.7	0.22	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Nickel	65		1.7	0.17	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Selenium	0.79	J	3.4	0.51	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Silver	1.9		0.85	0.17	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Thallium	ND		1.7	0.49	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Vanadium	58		1.7	0.23	mg/Kg		12/26/18 15:30	12/28/18 18:16	4
Zinc	980		5.1	2.2	mg/Kg		12/26/18 15:30	12/28/18 18:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.66		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-R6S-3.5-4

Date Collected: 12/19/18 14:02
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.3		2.0	0.33	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Arsenic	9.6		4.0	0.34	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Barium	260		2.0	0.28	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Beryllium	ND		0.40	0.13	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Cadmium	0.71		0.50	0.050	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Chromium	32		2.0	0.21	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Cobalt	7.7		0.80	0.080	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Copper	240		6.0	2.8	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Lead	630	^	2.0	0.42	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Molybdenum	ND		2.0	0.26	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Nickel	18		2.0	0.20	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Selenium	1.0	J	4.0	0.60	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Silver	1.1		1.0	0.20	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Thallium	ND		2.0	0.58	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Vanadium	47		2.0	0.27	mg/Kg		12/26/18 15:30	12/28/18 18:21	4
Zinc	600		6.0	2.5	mg/Kg		12/26/18 15:30	12/28/18 18:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 15:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-S6S-0.5-1

Date Collected: 12/19/18 14:40
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.9		4.1	0.69	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Arsenic	23		8.3	0.70	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Barium	300		4.1	0.59	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Beryllium	ND		0.83	0.27	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Cadmium	15		1.0	0.10	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Chromium	88		4.1	0.44	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Cobalt	22		1.7	0.17	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Copper	580		12	5.9	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Lead	660	^	4.1	0.87	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Molybdenum	7.8		4.1	0.53	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Nickel	93		4.1	0.42	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Selenium	1.7	J	8.3	1.2	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Silver	1.5	J	2.1	0.42	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Thallium	ND		4.1	1.2	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Vanadium	120		4.1	0.56	mg/Kg		12/26/18 15:30	12/28/18 18:26	10
Zinc	780		12	5.2	mg/Kg		12/26/18 15:30	12/28/18 18:26	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.015	0.0021	mg/Kg		01/04/19 11:00	01/04/19 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-S6S-3.5-4

Date Collected: 12/19/18 14:48
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.4		1.9	0.31	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Arsenic	11		3.7	0.32	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Barium	360		1.9	0.27	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Beryllium	0.14	J	0.37	0.12	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Cadmium	0.39	J	0.47	0.046	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Chromium	14		1.9	0.20	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Cobalt	4.1		0.75	0.075	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Copper	260		5.6	2.7	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Lead	1500	^	1.9	0.39	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Molybdenum	0.33	J	1.9	0.24	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Nickel	15		1.9	0.19	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Selenium	0.99	J	3.7	0.56	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Silver	2.3		0.93	0.19	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Thallium	0.80	J	1.9	0.54	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Vanadium	11		1.9	0.25	mg/Kg		12/26/18 15:30	12/28/18 18:30	4
Zinc	620		5.6	2.4	mg/Kg		12/26/18 15:30	12/28/18 18:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-T6S-0.5-1

Date Collected: 12/19/18 14:53
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.85	J	1.6	0.26	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Arsenic	5.4		3.1	0.26	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Barium	71		1.6	0.22	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Beryllium	ND		0.31	0.10	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Cadmium	0.15	J	0.39	0.038	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Chromium	22		1.6	0.16	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Cobalt	9.1		0.62	0.062	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Copper	110		4.7	2.2	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Lead	77	^	1.6	0.33	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Molybdenum	0.48	J	1.6	0.20	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Nickel	22		1.6	0.16	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Selenium	ND		3.1	0.47	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Silver	ND		0.78	0.16	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Thallium	ND		1.6	0.45	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Vanadium	72		1.6	0.21	mg/Kg		12/26/18 15:30	12/28/18 18:35	4
Zinc	82		4.7	2.0	mg/Kg		12/26/18 15:30	12/28/18 18:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.016	0.0024	mg/Kg		01/04/19 11:00	01/04/19 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.5		0.1	0.05	%			12/21/18 14:43	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Client Sample ID: DG-T6S-3.5-4

Date Collected: 12/19/18 14:58
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	32		4.1	0.68	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Arsenic	33		8.2	0.70	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Barium	1600		4.1	0.58	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Beryllium	0.61	J	0.82	0.27	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Cadmium	5.7		1.0	0.10	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Chromium	46		4.1	0.43	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Cobalt	7.7		1.6	0.16	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Copper	900		12	5.8	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Lead	4200	^	4.1	0.86	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Molybdenum	1.6	J	4.1	0.52	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Nickel	42		4.1	0.42	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Selenium	ND		8.2	1.2	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Silver	8.4		2.0	0.41	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Thallium	ND		4.1	1.2	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Vanadium	36		4.1	0.56	mg/Kg		12/26/18 15:30	12/28/18 18:39	10
Zinc	3700		12	5.2	mg/Kg		12/26/18 15:30	12/28/18 18:39	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.016	0.0024	mg/Kg		01/04/19 11:00	01/04/19 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33.4		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-U6S-0.5-1

Date Collected: 12/19/18 15:03
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.4	0.24	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Arsenic	2.6	J	2.9	0.25	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Barium	53		1.4	0.21	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Beryllium	ND		0.29	0.094	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Cadmium	0.22	J	0.36	0.036	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Chromium	17		1.4	0.15	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Cobalt	8.7		0.58	0.058	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Copper	140		4.3	2.1	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Lead	400	^	1.4	0.30	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Molybdenum	0.31	J	1.4	0.19	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Nickel	8.3		1.4	0.15	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Selenium	0.55	J	2.9	0.43	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Silver	0.19	J	0.72	0.15	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Thallium	ND		1.4	0.42	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Vanadium	66		1.4	0.20	mg/Kg		12/26/18 15:30	12/28/18 18:44	4
Zinc	93		4.3	1.8	mg/Kg		12/26/18 15:30	12/28/18 18:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-U6S-3.5-4

Date Collected: 12/19/18 15:08
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	40		7.3	1.2	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Arsenic	60		15	1.2	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Barium	2000		3.6	0.52	mg/Kg		12/26/18 15:30	12/28/18 18:48	10
Beryllium	0.30	J	0.73	0.24	mg/Kg		12/26/18 15:30	12/28/18 18:48	10
Cadmium	5.1		1.8	0.18	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Chromium	49		7.3	0.77	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Cobalt	18		2.9	0.29	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Copper	780		22	10	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Lead	6700		7.3	1.5	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Molybdenum	3.0	J	3.6	0.47	mg/Kg		12/26/18 15:30	12/28/18 18:48	10
Nickel	87		7.3	0.74	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Selenium	ND		15	2.2	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Silver	3.4	J	3.6	0.74	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Thallium	2.2	J	7.3	2.1	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Vanadium	23		7.3	0.99	mg/Kg		12/26/18 15:30	01/02/19 12:25	20
Zinc	2200		22	9.3	mg/Kg		12/26/18 15:30	01/02/19 12:25	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.66		0.016	0.0023	mg/Kg		01/04/19 11:00	01/04/19 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.5		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-V6S-0.5-1

Date Collected: 12/19/18 15:12
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5		1.5	0.25	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Arsenic	8.3		3.0	0.26	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Barium	110		1.5	0.21	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Beryllium	ND		0.30	0.098	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Cadmium	1.1		0.38	0.037	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Chromium	28		1.5	0.16	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Cobalt	8.9		0.60	0.060	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Copper	140		4.5	2.1	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Lead	350	^	1.5	0.32	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Molybdenum	1.1	J	1.5	0.19	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Nickel	43		1.5	0.15	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Selenium	0.82	J	3.0	0.45	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Silver	0.21	J	0.75	0.15	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Thallium	ND		1.5	0.44	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Vanadium	37		1.5	0.20	mg/Kg		12/26/18 15:30	12/28/18 18:53	4
Zinc	250		4.5	1.9	mg/Kg		12/26/18 15:30	12/28/18 18:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.015	0.0021	mg/Kg		01/04/19 11:00	01/04/19 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DG-V6S-3.5-4

Date Collected: 12/19/18 15:18
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.5	0.24	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Arsenic	9.3		2.9	0.25	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Barium	200		1.5	0.21	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Beryllium	0.74		0.29	0.096	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Cadmium	0.47		0.37	0.036	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Chromium	35		1.5	0.16	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Cobalt	10		0.59	0.059	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Copper	140		4.4	2.1	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Lead	270	^	1.5	0.31	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Molybdenum	ND		1.5	0.19	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Nickel	37		1.5	0.15	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Selenium	0.76	J	2.9	0.44	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Silver	0.92		0.74	0.15	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Thallium	ND		1.5	0.43	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Vanadium	37		1.5	0.20	mg/Kg		12/26/18 15:30	12/28/18 19:07	4
Zinc	460		4.4	1.9	mg/Kg		12/26/18 15:30	12/28/18 19:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		0.065	0.0095	mg/Kg		12/24/18 09:50	01/07/19 16:22	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.05	%			12/21/18 14:43	1

Client Sample ID: DUP-37

Date Collected: 12/19/18 00:00
Date Received: 12/19/18 19:30

Lab Sample ID: 720-90448-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		2.0	0.33	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Arsenic	9.5		4.0	0.34	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Barium	210		2.0	0.28	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Beryllium	0.79		0.40	0.13	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Cadmium	0.81		0.50	0.050	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Chromium	34		2.0	0.21	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Cobalt	13		0.80	0.080	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Copper	130		6.0	2.8	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Lead	320	^	2.0	0.42	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Molybdenum	ND		2.0	0.26	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Nickel	38		2.0	0.20	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Selenium	0.97	J	4.0	0.60	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Silver	0.34	J	1.0	0.20	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Thallium	ND		2.0	0.58	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Vanadium	38		2.0	0.27	mg/Kg		12/26/18 15:30	12/28/18 19:12	4
Zinc	430		6.0	2.5	mg/Kg		12/26/18 15:30	12/28/18 19:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.017	0.0025	mg/Kg		12/24/18 09:50	01/07/19 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.7		0.1	0.05	%			12/21/18 14:43	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257482/1-A
Matrix: Solid
Analysis Batch: 257838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Arsenic	ND		1.0	0.085	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Barium	ND		0.50	0.071	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Beryllium	ND		0.10	0.033	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Cadmium	ND		0.13	0.012	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Chromium	0.221	J	0.50	0.053	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Cobalt	ND		0.20	0.020	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Copper	ND		1.5	0.71	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Lead	ND		0.50	0.11	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Nickel	0.117	J	0.50	0.051	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Selenium	ND		1.0	0.15	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Silver	ND		0.25	0.051	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Thallium	ND		0.50	0.15	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Vanadium	ND		0.50	0.068	mg/Kg		12/21/18 17:49	12/31/18 17:44	1
Zinc	ND		1.5	0.64	mg/Kg		12/21/18 17:49	12/31/18 17:44	1

Lab Sample ID: LCS 720-257482/2-A
Matrix: Solid
Analysis Batch: 257838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257482

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.1		mg/Kg		98	80 - 120
Arsenic	50.0	50.7		mg/Kg		101	80 - 120
Barium	50.0	43.5		mg/Kg		87	80 - 120
Beryllium	50.0	48.6		mg/Kg		97	80 - 120
Cadmium	50.0	50.9		mg/Kg		102	80 - 120
Chromium	50.0	52.7		mg/Kg		105	80 - 120
Cobalt	50.0	51.8		mg/Kg		104	80 - 120
Copper	50.0	50.4		mg/Kg		101	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Molybdenum	50.0	52.3		mg/Kg		105	80 - 120
Nickel	50.0	52.9		mg/Kg		106	80 - 120
Selenium	50.0	47.6		mg/Kg		95	80 - 120
Silver	25.0	22.2		mg/Kg		89	80 - 120
Thallium	50.0	49.7		mg/Kg		99	80 - 120
Vanadium	50.0	50.3		mg/Kg		101	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Lab Sample ID: 720-90448-8 MS
Matrix: Solid
Analysis Batch: 257838

Client Sample ID: DG-Q4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.99	J F1	43.5	13.1	F1	mg/Kg		28	75 - 125
Arsenic	16	F1	43.5	78.4	F1	mg/Kg		143	75 - 125
Barium	61		43.5	96.0		mg/Kg		81	75 - 125
Beryllium	ND		43.5	51.3		mg/Kg		118	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90448-8 MS
Matrix: Solid
Analysis Batch: 257838

Client Sample ID: DG-Q4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.61		43.5	51.7		mg/Kg		117	75 - 125
Chromium	14	B F1	43.5	71.5	F1	mg/Kg		132	75 - 125
Cobalt	8.7	F1	43.5	66.3	F1	mg/Kg		133	75 - 125
Copper	77	F1	43.5	151	F1	mg/Kg		172	75 - 125
Lead	150	F1 F2	43.5	264	F1	mg/Kg		260	75 - 125
Molybdenum	0.69	J	43.5	50.8		mg/Kg		115	75 - 125
Nickel	13	B	43.5	64.9		mg/Kg		120	75 - 125
Selenium	1.1	J	43.5	49.1		mg/Kg		110	75 - 125
Silver	ND		21.7	23.4		mg/Kg		108	75 - 125
Thallium	ND		43.5	47.5		mg/Kg		109	75 - 125
Vanadium	53	F1	43.5	138	F1	mg/Kg		196	75 - 125
Zinc	170	F1	43.5	200	F1	mg/Kg		70	75 - 125

Lab Sample ID: 720-90448-8 MSD
Matrix: Solid
Analysis Batch: 257838

Client Sample ID: DG-Q4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.99	J F1	43.5	13.0	F1	mg/Kg		28	75 - 125	1	20
Arsenic	16	F1	43.5	65.9		mg/Kg		114	75 - 125	17	20
Barium	61		43.5	93.7		mg/Kg		75	75 - 125	3	20
Beryllium	ND		43.5	53.1		mg/Kg		122	75 - 125	4	20
Cadmium	0.61		43.5	53.8		mg/Kg		122	75 - 125	4	20
Chromium	14	B F1	43.5	72.1	F1	mg/Kg		133	75 - 125	1	20
Cobalt	8.7	F1	43.5	66.4	F1	mg/Kg		133	75 - 125	0	20
Copper	77	F1	43.5	154	F1	mg/Kg		179	75 - 125	2	20
Lead	150	F1 F2	43.5	153	F1 F2	mg/Kg		6	75 - 125	53	20
Molybdenum	0.69	J	43.5	53.3		mg/Kg		121	75 - 125	5	20
Nickel	13	B	43.5	67.1		mg/Kg		125	75 - 125	3	20
Selenium	1.1	J	43.5	52.1		mg/Kg		117	75 - 125	6	20
Silver	ND		21.7	24.5		mg/Kg		113	75 - 125	5	20
Thallium	ND		43.5	49.6		mg/Kg		114	75 - 125	4	20
Vanadium	53	F1	43.5	142	F1	mg/Kg		205	75 - 125	3	20
Zinc	170	F1	43.5	207		mg/Kg		87	75 - 125	4	20

Lab Sample ID: MB 720-257489/1-A
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Arsenic	ND		1.0	0.085	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Barium	ND		0.50	0.071	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Beryllium	ND		0.10	0.033	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Cadmium	ND		0.13	0.012	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Chromium	ND		0.50	0.053	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Cobalt	ND		0.20	0.020	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Copper	ND		1.5	0.71	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Lead	ND		0.50	0.11	mg/Kg		12/26/18 15:30	12/28/18 17:16	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257489/1-A
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Nickel	ND		0.50	0.051	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Selenium	ND		1.0	0.15	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Silver	ND		0.25	0.051	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Thallium	ND		0.50	0.15	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Vanadium	ND		0.50	0.068	mg/Kg		12/26/18 15:30	12/28/18 17:16	1
Zinc	ND		1.5	0.64	mg/Kg		12/26/18 15:30	12/28/18 17:16	1

Lab Sample ID: LCS 720-257489/2-A
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.0		mg/Kg		90	80 - 120
Arsenic	50.0	45.3		mg/Kg		91	80 - 120
Barium	50.0	44.9		mg/Kg		90	80 - 120
Beryllium	50.0	45.7		mg/Kg		91	80 - 120
Cadmium	50.0	45.8		mg/Kg		92	80 - 120
Chromium	50.0	46.7		mg/Kg		93	80 - 120
Cobalt	50.0	45.8		mg/Kg		92	80 - 120
Copper	50.0	46.2		mg/Kg		92	80 - 120
Lead	50.0	46.4		mg/Kg		93	80 - 120
Molybdenum	50.0	46.4		mg/Kg		93	80 - 120
Nickel	50.0	46.0		mg/Kg		92	80 - 120
Selenium	50.0	44.1		mg/Kg		88	80 - 120
Silver	25.0	21.1		mg/Kg		84	80 - 120
Thallium	50.0	45.9		mg/Kg		92	80 - 120
Vanadium	50.0	45.7		mg/Kg		91	80 - 120
Zinc	50.0	45.0		mg/Kg		90	80 - 120

Lab Sample ID: 720-90448-21 MS
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: DG-O6S-3.5-4
Prep Type: Total/NA
Prep Batch: 257489

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	12	F1	43.9	48.1		mg/Kg		83	75 - 125
Arsenic	11	F1	43.9	93.1	F1	mg/Kg		188	75 - 125
Barium	250		43.9	1230	4	mg/Kg		2236	75 - 125
Beryllium	0.25	J	43.9	49.2		mg/Kg		112	75 - 125
Cadmium	1.1		43.9	49.4		mg/Kg		110	75 - 125
Chromium	14	F1	43.9	98.8	F1	mg/Kg		194	75 - 125
Cobalt	4.1	F1	43.9	59.2	F1	mg/Kg		126	75 - 125
Copper	190	F2	43.9	1210	4	mg/Kg		2321	75 - 125
Lead	780		43.9	3750	4	mg/Kg		6771	75 - 125
Molybdenum	0.35	J	43.9	46.0		mg/Kg		104	75 - 125
Nickel	14	F1	43.9	106	F1	mg/Kg		210	75 - 125
Selenium	1.4	J	43.9	42.3		mg/Kg		93	75 - 125
Silver	1.1	F1	21.9	27.8		mg/Kg		122	75 - 125
Thallium	1.2	J	43.9	43.9		mg/Kg		97	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90448-21 MS
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: DG-O6S-3.5-4
Prep Type: Total/NA
Prep Batch: 257489

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	19	F1	43.9	82.9	F1	mg/Kg		145	75 - 125
Zinc	740		43.9	2860	4	mg/Kg		4824	75 - 125

Lab Sample ID: 720-90448-21 MSD
Matrix: Solid
Analysis Batch: 257780

Client Sample ID: DG-O6S-3.5-4
Prep Type: Total/NA
Prep Batch: 257489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	12	F1	44.2	42.8	F1	mg/Kg		70	75 - 125	12	20
Arsenic	11	F1	44.2	81.7	F1	mg/Kg		161	75 - 125	13	20
Barium	250		44.2	1200	4	mg/Kg		2138	75 - 125	3	20
Beryllium	0.25	J	44.2	45.1		mg/Kg		101	75 - 125	9	20
Cadmium	1.1		44.2	47.0		mg/Kg		104	75 - 125	5	20
Chromium	14	F1	44.2	85.6	F1	mg/Kg		163	75 - 125	14	20
Cobalt	4.1	F1	44.2	54.6		mg/Kg		114	75 - 125	8	20
Copper	190	F2	44.2	2260	4 F2	mg/Kg		4672	75 - 125	61	20
Lead	780		44.2	3400	4	mg/Kg		5929	75 - 125	10	20
Molybdenum	0.35	J	44.2	42.3		mg/Kg		95	75 - 125	8	20
Nickel	14	F1	44.2	88.6	F1	mg/Kg		168	75 - 125	18	20
Selenium	1.4	J	44.2	40.6		mg/Kg		89	75 - 125	4	20
Silver	1.1	F1	22.1	32.5	F1	mg/Kg		142	75 - 125	15	20
Thallium	1.2	J	44.2	39.9		mg/Kg		87	75 - 125	10	20
Vanadium	19	F1	44.2	75.0	F1	mg/Kg		126	75 - 125	10	20
Zinc	740		44.2	2910	4	mg/Kg		4910	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257470/1-A
Matrix: Solid
Analysis Batch: 257998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/04/19 11:00	01/04/19 14:51	1

Lab Sample ID: LCS 720-257470/2-A
Matrix: Solid
Analysis Batch: 257998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.733		mg/Kg		88	80 - 120

Lab Sample ID: 720-90448-15 MS
Matrix: Solid
Analysis Batch: 257998

Client Sample ID: DG-N4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.25		0.806	0.923		mg/Kg		84	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90448-15 MSD
Matrix: Solid
Analysis Batch: 257998

Client Sample ID: DG-N4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257470

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.25		0.781	0.930		mg/Kg		87	75 - 125	1	20

Lab Sample ID: MB 720-257525/1-A
Matrix: Solid
Analysis Batch: 258068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/24/18 09:08	01/07/19 13:09	1

Lab Sample ID: LCS 720-257525/2-A
Matrix: Solid
Analysis Batch: 258068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.738		mg/Kg		89	80 - 120

Lab Sample ID: 720-90448-8 MS
Matrix: Solid
Analysis Batch: 258068

Client Sample ID: DG-Q4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.060		0.758	0.780		mg/Kg		95	75 - 125

Lab Sample ID: 720-90448-8 MSD
Matrix: Solid
Analysis Batch: 258068

Client Sample ID: DG-Q4S-0.5-1
Prep Type: Total/NA
Prep Batch: 257525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.060		0.758	0.761		mg/Kg		93	75 - 125	3	20

Lab Sample ID: MB 720-257528/1-A
Matrix: Solid
Analysis Batch: 258076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/24/18 09:50	01/07/19 14:23	1

Lab Sample ID: LCS 720-257528/2-A
Matrix: Solid
Analysis Batch: 258076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.735		mg/Kg		88	80 - 120

Lab Sample ID: 720-90479-E-9-D MS
Matrix: Solid
Analysis Batch: 258076

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.023		0.704	0.673		mg/Kg		92	75 - 125

Lab Sample ID: 720-90479-E-9-E MSD
Matrix: Solid
Analysis Batch: 258076

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.023		0.704	0.668		mg/Kg		92	75 - 125	1	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90448-1 DU
Matrix: Solid
Analysis Batch: 257454

Client Sample ID: DG-T4S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.5		10.8		%		6	20

Lab Sample ID: 720-90448-19 DU
Matrix: Solid
Analysis Batch: 257463

Client Sample ID: DG-O6S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.9		11.5		%		5	20

Metals

Prep Batch: 257470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-15	DG-N4S-0.5-1	Total/NA	Solid	7471A	
720-90448-16	DG-N4S-3.5-4	Total/NA	Solid	7471A	
720-90448-17	DG-N6S-0.5-1	Total/NA	Solid	7471A	
720-90448-18	DG-N6S-3.5-4	Total/NA	Solid	7471A	
720-90448-19	DG-O6S-0.5-1	Total/NA	Solid	7471A	
720-90448-20	DUP-36	Total/NA	Solid	7471A	
720-90448-21	DG-O6S-3.5-4	Total/NA	Solid	7471A	
720-90448-22	DG-P6S-0.5-1	Total/NA	Solid	7471A	
720-90448-23	DG-P6S-3.5-4	Total/NA	Solid	7471A	
720-90448-24	DG-Q6S-0.5-1	Total/NA	Solid	7471A	
720-90448-25	DG-Q6S-3.5-4	Total/NA	Solid	7471A	
720-90448-26	DG-R6S-0.5-1	Total/NA	Solid	7471A	
720-90448-27	DG-R6S-3.5-4	Total/NA	Solid	7471A	
720-90448-28	DG-S6S-0.5-1	Total/NA	Solid	7471A	
720-90448-29	DG-S6S-3.5-4	Total/NA	Solid	7471A	
720-90448-30	DG-T6S-0.5-1	Total/NA	Solid	7471A	
720-90448-31	DG-T6S-3.5-4	Total/NA	Solid	7471A	
720-90448-32	DG-U6S-0.5-1	Total/NA	Solid	7471A	
720-90448-33	DG-U6S-3.5-4	Total/NA	Solid	7471A	
720-90448-34	DG-V6S-0.5-1	Total/NA	Solid	7471A	
MB 720-257470/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257470/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90448-15 MS	DG-N4S-0.5-1	Total/NA	Solid	7471A	
720-90448-15 MSD	DG-N4S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-1	DG-T4S-0.5-1	Total/NA	Solid	3050B	
720-90448-2	DG-T4S-3.5-4	Total/NA	Solid	3050B	
720-90448-3	DG-S4S-0.5-1	Total/NA	Solid	3050B	
720-90448-4	DG-S4S-3.5-4	Total/NA	Solid	3050B	
720-90448-5	DG-R4S-0.5-1	Total/NA	Solid	3050B	
720-90448-6	DG-R4S-3.5-4	Total/NA	Solid	3050B	
720-90448-7	DG-R4S-9.5-10	Total/NA	Solid	3050B	
720-90448-8	DG-Q4S-0.5-1	Total/NA	Solid	3050B	
720-90448-9	DG-Q4S-3.5-4	Total/NA	Solid	3050B	
720-90448-10	DUP-19	Total/NA	Solid	3050B	
720-90448-11	DG-P4S-0.5-1	Total/NA	Solid	3050B	
720-90448-12	DG-P4S-3.5-4	Total/NA	Solid	3050B	
720-90448-13	DG-O4S-0.5-1	Total/NA	Solid	3050B	
720-90448-14	DG-O4S-3.5-4	Total/NA	Solid	3050B	
720-90448-15	DG-N4S-0.5-1	Total/NA	Solid	3050B	
720-90448-16	DG-N4S-3.5-4	Total/NA	Solid	3050B	
720-90448-17	DG-N6S-0.5-1	Total/NA	Solid	3050B	
720-90448-18	DG-N6S-3.5-4	Total/NA	Solid	3050B	
720-90448-19	DG-O6S-0.5-1	Total/NA	Solid	3050B	
720-90448-20	DUP-36	Total/NA	Solid	3050B	
MB 720-257482/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257482/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90448-8 MS	DG-Q4S-0.5-1	Total/NA	Solid	3050B	
720-90448-8 MSD	DG-Q4S-0.5-1	Total/NA	Solid	3050B	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Prep Batch: 257489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-21	DG-O6S-3.5-4	Total/NA	Solid	3050B	
720-90448-22	DG-P6S-0.5-1	Total/NA	Solid	3050B	
720-90448-23	DG-P6S-3.5-4	Total/NA	Solid	3050B	
720-90448-24	DG-Q6S-0.5-1	Total/NA	Solid	3050B	
720-90448-25	DG-Q6S-3.5-4	Total/NA	Solid	3050B	
720-90448-26	DG-R6S-0.5-1	Total/NA	Solid	3050B	
720-90448-27	DG-R6S-3.5-4	Total/NA	Solid	3050B	
720-90448-28	DG-S6S-0.5-1	Total/NA	Solid	3050B	
720-90448-29	DG-S6S-3.5-4	Total/NA	Solid	3050B	
720-90448-30	DG-T6S-0.5-1	Total/NA	Solid	3050B	
720-90448-31	DG-T6S-3.5-4	Total/NA	Solid	3050B	
720-90448-32	DG-U6S-0.5-1	Total/NA	Solid	3050B	
720-90448-33	DG-U6S-3.5-4	Total/NA	Solid	3050B	
720-90448-34	DG-V6S-0.5-1	Total/NA	Solid	3050B	
720-90448-35	DG-V6S-3.5-4	Total/NA	Solid	3050B	
720-90448-36	DUP-37	Total/NA	Solid	3050B	
MB 720-257489/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257489/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90448-21 MS	DG-O6S-3.5-4	Total/NA	Solid	3050B	
720-90448-21 MSD	DG-O6S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-1	DG-T4S-0.5-1	Total/NA	Solid	7471A	
720-90448-2	DG-T4S-3.5-4	Total/NA	Solid	7471A	
720-90448-3	DG-S4S-0.5-1	Total/NA	Solid	7471A	
720-90448-4	DG-S4S-3.5-4	Total/NA	Solid	7471A	
720-90448-5	DG-R4S-0.5-1	Total/NA	Solid	7471A	
720-90448-6	DG-R4S-3.5-4	Total/NA	Solid	7471A	
720-90448-7	DG-R4S-9.5-10	Total/NA	Solid	7471A	
720-90448-8	DG-Q4S-0.5-1	Total/NA	Solid	7471A	
720-90448-9	DG-Q4S-3.5-4	Total/NA	Solid	7471A	
MB 720-257525/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257525/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90448-8 MS	DG-Q4S-0.5-1	Total/NA	Solid	7471A	
720-90448-8 MSD	DG-Q4S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-10	DUP-19	Total/NA	Solid	7471A	
720-90448-11	DG-P4S-0.5-1	Total/NA	Solid	7471A	
720-90448-12	DG-P4S-3.5-4	Total/NA	Solid	7471A	
720-90448-13	DG-O4S-0.5-1	Total/NA	Solid	7471A	
720-90448-14	DG-O4S-3.5-4	Total/NA	Solid	7471A	
720-90448-35	DG-V6S-3.5-4	Total/NA	Solid	7471A	
720-90448-36	DUP-37	Total/NA	Solid	7471A	
MB 720-257528/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257528/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90479-E-9-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-90479-E-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Metals (Continued)

Analysis Batch: 257780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-21	DG-O6S-3.5-4	Total/NA	Solid	6010B	257489
720-90448-22	DG-P6S-0.5-1	Total/NA	Solid	6010B	257489
720-90448-23	DG-P6S-3.5-4	Total/NA	Solid	6010B	257489
720-90448-24	DG-Q6S-0.5-1	Total/NA	Solid	6010B	257489
720-90448-25	DG-Q6S-3.5-4	Total/NA	Solid	6010B	257489
720-90448-26	DG-R6S-0.5-1	Total/NA	Solid	6010B	257489
720-90448-27	DG-R6S-3.5-4	Total/NA	Solid	6010B	257489
720-90448-28	DG-S6S-0.5-1	Total/NA	Solid	6010B	257489
720-90448-29	DG-S6S-3.5-4	Total/NA	Solid	6010B	257489
720-90448-30	DG-T6S-0.5-1	Total/NA	Solid	6010B	257489
720-90448-31	DG-T6S-3.5-4	Total/NA	Solid	6010B	257489
720-90448-32	DG-U6S-0.5-1	Total/NA	Solid	6010B	257489
720-90448-33	DG-U6S-3.5-4	Total/NA	Solid	6010B	257489
720-90448-34	DG-V6S-0.5-1	Total/NA	Solid	6010B	257489
720-90448-35	DG-V6S-3.5-4	Total/NA	Solid	6010B	257489
720-90448-36	DUP-37	Total/NA	Solid	6010B	257489
MB 720-257489/1-A	Method Blank	Total/NA	Solid	6010B	257489
LCS 720-257489/2-A	Lab Control Sample	Total/NA	Solid	6010B	257489
720-90448-21 MS	DG-O6S-3.5-4	Total/NA	Solid	6010B	257489
720-90448-21 MSD	DG-O6S-3.5-4	Total/NA	Solid	6010B	257489

Analysis Batch: 257838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-1	DG-T4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-2	DG-T4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-3	DG-S4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-4	DG-S4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-5	DG-R4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-6	DG-R4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-7	DG-R4S-9.5-10	Total/NA	Solid	6010B	257482
720-90448-8	DG-Q4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-9	DG-Q4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-10	DUP-19	Total/NA	Solid	6010B	257482
720-90448-11	DG-P4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-12	DG-P4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-13	DG-O4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-14	DG-O4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-15	DG-N4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-16	DG-N4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-17	DG-N6S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-18	DG-N6S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-19	DG-O6S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-20	DUP-36	Total/NA	Solid	6010B	257482
MB 720-257482/1-A	Method Blank	Total/NA	Solid	6010B	257482
LCS 720-257482/2-A	Lab Control Sample	Total/NA	Solid	6010B	257482
720-90448-8 MS	DG-Q4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-8 MSD	DG-Q4S-0.5-1	Total/NA	Solid	6010B	257482

Analysis Batch: 257872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-23	DG-P6S-3.5-4	Total/NA	Solid	6010B	257489

Metals (Continued)

Analysis Batch: 257872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-33	DG-U6S-3.5-4	Total/NA	Solid	6010B	257489

Analysis Batch: 257880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-4	DG-S4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-6	DG-R4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-7	DG-R4S-9.5-10	Total/NA	Solid	6010B	257482
720-90448-9	DG-Q4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-10	DUP-19	Total/NA	Solid	6010B	257482
720-90448-11	DG-P4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-12	DG-P4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-13	DG-O4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-14	DG-O4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-15	DG-N4S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-16	DG-N4S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-17	DG-N6S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-18	DG-N6S-3.5-4	Total/NA	Solid	6010B	257482
720-90448-19	DG-O6S-0.5-1	Total/NA	Solid	6010B	257482
720-90448-20	DUP-36	Total/NA	Solid	6010B	257482

Analysis Batch: 257998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-15	DG-N4S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-16	DG-N4S-3.5-4	Total/NA	Solid	7471A	257470
720-90448-17	DG-N6S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-18	DG-N6S-3.5-4	Total/NA	Solid	7471A	257470
720-90448-19	DG-O6S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-20	DUP-36	Total/NA	Solid	7471A	257470
720-90448-21	DG-O6S-3.5-4	Total/NA	Solid	7471A	257470
720-90448-22	DG-P6S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-23	DG-P6S-3.5-4	Total/NA	Solid	7471A	257470
720-90448-24	DG-Q6S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-25	DG-Q6S-3.5-4	Total/NA	Solid	7471A	257470
720-90448-26	DG-R6S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-27	DG-R6S-3.5-4	Total/NA	Solid	7471A	257470
720-90448-28	DG-S6S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-29	DG-S6S-3.5-4	Total/NA	Solid	7471A	257470
720-90448-30	DG-T6S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-31	DG-T6S-3.5-4	Total/NA	Solid	7471A	257470
720-90448-32	DG-U6S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-33	DG-U6S-3.5-4	Total/NA	Solid	7471A	257470
720-90448-34	DG-V6S-0.5-1	Total/NA	Solid	7471A	257470
MB 720-257470/1-A	Method Blank	Total/NA	Solid	7471A	257470
LCS 720-257470/2-A	Lab Control Sample	Total/NA	Solid	7471A	257470
720-90448-15 MS	DG-N4S-0.5-1	Total/NA	Solid	7471A	257470
720-90448-15 MSD	DG-N4S-0.5-1	Total/NA	Solid	7471A	257470

Analysis Batch: 258068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-1	DG-T4S-0.5-1	Total/NA	Solid	7471A	257525
720-90448-2	DG-T4S-3.5-4	Total/NA	Solid	7471A	257525

Metals (Continued)

Analysis Batch: 258068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-3	DG-S4S-0.5-1	Total/NA	Solid	7471A	257525
720-90448-4	DG-S4S-3.5-4	Total/NA	Solid	7471A	257525
720-90448-5	DG-R4S-0.5-1	Total/NA	Solid	7471A	257525
720-90448-6	DG-R4S-3.5-4	Total/NA	Solid	7471A	257525
720-90448-7	DG-R4S-9.5-10	Total/NA	Solid	7471A	257525
720-90448-8	DG-Q4S-0.5-1	Total/NA	Solid	7471A	257525
720-90448-9	DG-Q4S-3.5-4	Total/NA	Solid	7471A	257525
MB 720-257525/1-A	Method Blank	Total/NA	Solid	7471A	257525
LCS 720-257525/2-A	Lab Control Sample	Total/NA	Solid	7471A	257525
720-90448-8 MS	DG-Q4S-0.5-1	Total/NA	Solid	7471A	257525
720-90448-8 MSD	DG-Q4S-0.5-1	Total/NA	Solid	7471A	257525

Analysis Batch: 258076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-10	DUP-19	Total/NA	Solid	7471A	257528
720-90448-11	DG-P4S-0.5-1	Total/NA	Solid	7471A	257528
720-90448-12	DG-P4S-3.5-4	Total/NA	Solid	7471A	257528
720-90448-13	DG-O4S-0.5-1	Total/NA	Solid	7471A	257528
720-90448-14	DG-O4S-3.5-4	Total/NA	Solid	7471A	257528
720-90448-35	DG-V6S-3.5-4	Total/NA	Solid	7471A	257528
720-90448-36	DUP-37	Total/NA	Solid	7471A	257528
MB 720-257528/1-A	Method Blank	Total/NA	Solid	7471A	257528
LCS 720-257528/2-A	Lab Control Sample	Total/NA	Solid	7471A	257528
720-90479-E-9-D MS	Matrix Spike	Total/NA	Solid	7471A	257528
720-90479-E-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257528

General Chemistry

Analysis Batch: 257454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-1	DG-T4S-0.5-1	Total/NA	Solid	Moisture	
720-90448-2	DG-T4S-3.5-4	Total/NA	Solid	Moisture	
720-90448-3	DG-S4S-0.5-1	Total/NA	Solid	Moisture	
720-90448-4	DG-S4S-3.5-4	Total/NA	Solid	Moisture	
720-90448-5	DG-R4S-0.5-1	Total/NA	Solid	Moisture	
720-90448-6	DG-R4S-3.5-4	Total/NA	Solid	Moisture	
720-90448-7	DG-R4S-9.5-10	Total/NA	Solid	Moisture	
720-90448-8	DG-Q4S-0.5-1	Total/NA	Solid	Moisture	
720-90448-9	DG-Q4S-3.5-4	Total/NA	Solid	Moisture	
720-90448-10	DUP-19	Total/NA	Solid	Moisture	
720-90448-11	DG-P4S-0.5-1	Total/NA	Solid	Moisture	
720-90448-12	DG-P4S-3.5-4	Total/NA	Solid	Moisture	
720-90448-13	DG-O4S-0.5-1	Total/NA	Solid	Moisture	
720-90448-14	DG-O4S-3.5-4	Total/NA	Solid	Moisture	
720-90448-15	DG-N4S-0.5-1	Total/NA	Solid	Moisture	
720-90448-16	DG-N4S-3.5-4	Total/NA	Solid	Moisture	
720-90448-17	DG-N6S-0.5-1	Total/NA	Solid	Moisture	
720-90448-18	DG-N6S-3.5-4	Total/NA	Solid	Moisture	
720-90448-1 DU	DG-T4S-0.5-1	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90448-19	DG-O6S-0.5-1	Total/NA	Solid	Moisture	
720-90448-20	DUP-36	Total/NA	Solid	Moisture	
720-90448-21	DG-O6S-3.5-4	Total/NA	Solid	Moisture	
720-90448-22	DG-P6S-0.5-1	Total/NA	Solid	Moisture	
720-90448-23	DG-P6S-3.5-4	Total/NA	Solid	Moisture	
720-90448-24	DG-Q6S-0.5-1	Total/NA	Solid	Moisture	
720-90448-25	DG-Q6S-3.5-4	Total/NA	Solid	Moisture	
720-90448-26	DG-R6S-0.5-1	Total/NA	Solid	Moisture	
720-90448-27	DG-R6S-3.5-4	Total/NA	Solid	Moisture	
720-90448-28	DG-S6S-0.5-1	Total/NA	Solid	Moisture	
720-90448-29	DG-S6S-3.5-4	Total/NA	Solid	Moisture	
720-90448-30	DG-T6S-0.5-1	Total/NA	Solid	Moisture	
720-90448-31	DG-T6S-3.5-4	Total/NA	Solid	Moisture	
720-90448-32	DG-U6S-0.5-1	Total/NA	Solid	Moisture	
720-90448-33	DG-U6S-3.5-4	Total/NA	Solid	Moisture	
720-90448-34	DG-V6S-0.5-1	Total/NA	Solid	Moisture	
720-90448-35	DG-V6S-3.5-4	Total/NA	Solid	Moisture	
720-90448-36	DUP-37	Total/NA	Solid	Moisture	
720-90448-19 DU	DG-O6S-0.5-1	Total/NA	Solid	Moisture	

Client Sample ID: DG-T4S-0.5-1

Lab Sample ID: 720-90448-1

Date Collected: 12/19/18 08:09

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 18:27	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-T4S-3.5-4

Lab Sample ID: 720-90448-2

Date Collected: 12/19/18 08:12

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 18:31	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-S4S-0.5-1

Lab Sample ID: 720-90448-3

Date Collected: 12/19/18 08:22

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 18:36	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-S4S-3.5-4

Lab Sample ID: 720-90448-4

Date Collected: 12/19/18 08:28

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 18:41	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		10	257880	01/02/19 14:04	MAG	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-R4S-0.5-1

Lab Sample ID: 720-90448-5

Date Collected: 12/19/18 08:37

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 18:46	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-R4S-3.5-4

Lab Sample ID: 720-90448-6

Date Collected: 12/19/18 08:42

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 18:50	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		10	257880	01/02/19 14:09	MAG	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-R4S-9.5-10

Lab Sample ID: 720-90448-7

Date Collected: 12/19/18 08:55

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 18:55	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 14:14	MAG	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-Q4S-0.5-1

Lab Sample ID: 720-90448-8

Date Collected: 12/19/18 09:32

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 18:12	BKR	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-Q4S-3.5-4

Lab Sample ID: 720-90448-9

Date Collected: 12/19/18 09:37

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:00	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 14:18	MAG	TAL PLS
Total/NA	Prep	7471A			257525	12/24/18 09:08	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258068	01/07/19 13:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DUP-19

Lab Sample ID: 720-90448-10

Date Collected: 12/19/18 00:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:05	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 14:23	MAG	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 15:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-P4S-0.5-1

Lab Sample ID: 720-90448-11

Date Collected: 12/19/18 09:45

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:09	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 14:28	MAG	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 15:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-P4S-3.5-4

Lab Sample ID: 720-90448-12

Date Collected: 12/19/18 09:49

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:24	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 14:32	MAG	TAL PLS

Client Sample ID: DG-P4S-3.5-4

Lab Sample ID: 720-90448-12

Date Collected: 12/19/18 09:49

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 15:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-O4S-0.5-1

Lab Sample ID: 720-90448-13

Date Collected: 12/19/18 10:20

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:28	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 14:37	MAG	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 15:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-O4S-3.5-4

Lab Sample ID: 720-90448-14

Date Collected: 12/19/18 10:24

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:33	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 14:41	MAG	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 15:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-N4S-0.5-1

Lab Sample ID: 720-90448-15

Date Collected: 12/19/18 10:42

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:38	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 14:55	MAG	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-N4S-3.5-4

Lab Sample ID: 720-90448-16

Date Collected: 12/19/18 10:46

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:43	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 15:00	MAG	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-N6S-0.5-1

Lab Sample ID: 720-90448-17

Date Collected: 12/19/18 13:02

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:47	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 15:05	MAG	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-N6S-3.5-4

Lab Sample ID: 720-90448-18

Date Collected: 12/19/18 13:06

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:52	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 15:09	MAG	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257454	12/21/18 14:05	TNL	TAL PLS

Client Sample ID: DG-O6S-0.5-1

Lab Sample ID: 720-90448-19

Date Collected: 12/19/18 13:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 19:57	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 15:14	MAG	TAL PLS

Client Sample ID: DG-O6S-0.5-1

Lab Sample ID: 720-90448-19

Date Collected: 12/19/18 13:15

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DUP-36

Lab Sample ID: 720-90448-20

Date Collected: 12/19/18 00:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257838	12/31/18 20:02	BKR	TAL PLS
Total/NA	Prep	3050B			257482	12/21/18 17:49	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257880	01/02/19 15:19	MAG	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-O6S-3.5-4

Lab Sample ID: 720-90448-21

Date Collected: 12/19/18 13:22

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 17:44	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-P6S-0.5-1

Lab Sample ID: 720-90448-22

Date Collected: 12/19/18 13:30

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 17:48	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-P6S-3.5-4

Lab Sample ID: 720-90448-23

Date Collected: 12/19/18 13:32
Matrix: Solid
Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257872	01/02/19 12:20	BKR	TAL PLS
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 17:53	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-Q6S-0.5-1

Lab Sample ID: 720-90448-24

Date Collected: 12/19/18 13:42
Matrix: Solid
Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 17:58	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-Q6S-3.5-4

Lab Sample ID: 720-90448-25

Date Collected: 12/19/18 13:48
Matrix: Solid
Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257780	12/28/18 18:12	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-R6S-0.5-1

Lab Sample ID: 720-90448-26

Date Collected: 12/19/18 13:57
Matrix: Solid
Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 18:16	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-R6S-3.5-4

Lab Sample ID: 720-90448-27

Date Collected: 12/19/18 14:02

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 18:21	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-S6S-0.5-1

Lab Sample ID: 720-90448-28

Date Collected: 12/19/18 14:40

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257780	12/28/18 18:26	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-S6S-3.5-4

Lab Sample ID: 720-90448-29

Date Collected: 12/19/18 14:48

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 18:30	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-T6S-0.5-1

Lab Sample ID: 720-90448-30

Date Collected: 12/19/18 14:53

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 18:35	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-T6S-3.5-4

Lab Sample ID: 720-90448-31

Date Collected: 12/19/18 14:58

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257780	12/28/18 18:39	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-U6S-0.5-1

Lab Sample ID: 720-90448-32

Date Collected: 12/19/18 15:03

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 18:44	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-U6S-3.5-4

Lab Sample ID: 720-90448-33

Date Collected: 12/19/18 15:08

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		20	257872	01/02/19 12:25	BKR	TAL PLS
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	257780	12/28/18 18:48	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DG-V6S-0.5-1

Lab Sample ID: 720-90448-34

Date Collected: 12/19/18 15:12

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 18:53	BKR	TAL PLS
Total/NA	Prep	7471A			257470	01/04/19 11:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	257998	01/04/19 15:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Client Sample ID: DG-V6S-3.5-4

Lab Sample ID: 720-90448-35

Date Collected: 12/19/18 15:18

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 19:07	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		4	258076	01/07/19 16:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Client Sample ID: DUP-37

Lab Sample ID: 720-90448-36

Date Collected: 12/19/18 00:00

Matrix: Solid

Date Received: 12/19/18 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257489	12/26/18 15:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	257780	12/28/18 19:12	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 15:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257463	12/21/18 14:43	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90448-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90448-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90448-1	DG-T4S-0.5-1	Solid	12/19/18 08:09	12/19/18 19:30
720-90448-2	DG-T4S-3.5-4	Solid	12/19/18 08:12	12/19/18 19:30
720-90448-3	DG-S4S-0.5-1	Solid	12/19/18 08:22	12/19/18 19:30
720-90448-4	DG-S4S-3.5-4	Solid	12/19/18 08:28	12/19/18 19:30
720-90448-5	DG-R4S-0.5-1	Solid	12/19/18 08:37	12/19/18 19:30
720-90448-6	DG-R4S-3.5-4	Solid	12/19/18 08:42	12/19/18 19:30
720-90448-7	DG-R4S-9.5-10	Solid	12/19/18 08:55	12/19/18 19:30
720-90448-8	DG-Q4S-0.5-1	Solid	12/19/18 09:32	12/19/18 19:30
720-90448-9	DG-Q4S-3.5-4	Solid	12/19/18 09:37	12/19/18 19:30
720-90448-10	DUP-19	Solid	12/19/18 00:00	12/19/18 19:30
720-90448-11	DG-P4S-0.5-1	Solid	12/19/18 09:45	12/19/18 19:30
720-90448-12	DG-P4S-3.5-4	Solid	12/19/18 09:49	12/19/18 19:30
720-90448-13	DG-O4S-0.5-1	Solid	12/19/18 10:20	12/19/18 19:30
720-90448-14	DG-O4S-3.5-4	Solid	12/19/18 10:24	12/19/18 19:30
720-90448-15	DG-N4S-0.5-1	Solid	12/19/18 10:42	12/19/18 19:30
720-90448-16	DG-N4S-3.5-4	Solid	12/19/18 10:46	12/19/18 19:30
720-90448-17	DG-N6S-0.5-1	Solid	12/19/18 13:02	12/19/18 19:30
720-90448-18	DG-N6S-3.5-4	Solid	12/19/18 13:06	12/19/18 19:30
720-90448-19	DG-O6S-0.5-1	Solid	12/19/18 13:15	12/19/18 19:30
720-90448-20	DUP-36	Solid	12/19/18 00:00	12/19/18 19:30
720-90448-21	DG-O6S-3.5-4	Solid	12/19/18 13:22	12/19/18 19:30
720-90448-22	DG-P6S-0.5-1	Solid	12/19/18 13:30	12/19/18 19:30
720-90448-23	DG-P6S-3.5-4	Solid	12/19/18 13:32	12/19/18 19:30
720-90448-24	DG-Q6S-0.5-1	Solid	12/19/18 13:42	12/19/18 19:30
720-90448-25	DG-Q6S-3.5-4	Solid	12/19/18 13:48	12/19/18 19:30
720-90448-26	DG-R6S-0.5-1	Solid	12/19/18 13:57	12/19/18 19:30
720-90448-27	DG-R6S-3.5-4	Solid	12/19/18 14:02	12/19/18 19:30
720-90448-28	DG-S6S-0.5-1	Solid	12/19/18 14:40	12/19/18 19:30
720-90448-29	DG-S6S-3.5-4	Solid	12/19/18 14:48	12/19/18 19:30
720-90448-30	DG-T6S-0.5-1	Solid	12/19/18 14:53	12/19/18 19:30
720-90448-31	DG-T6S-3.5-4	Solid	12/19/18 14:58	12/19/18 19:30
720-90448-32	DG-U6S-0.5-1	Solid	12/19/18 15:03	12/19/18 19:30
720-90448-33	DG-U6S-3.5-4	Solid	12/19/18 15:08	12/19/18 19:30
720-90448-34	DG-V6S-0.5-1	Solid	12/19/18 15:12	12/19/18 19:30
720-90448-35	DG-V6S-3.5-4	Solid	12/19/18 15:18	12/19/18 19:30
720-90448-36	DUP-37	Solid	12/19/18 00:00	12/19/18 19:30

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600.3002

720-90448 Chain of Custody Record

187488

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/2018	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler N. Henrefeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client.
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90448 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)
1	DG-T4S-0.5-1	12/19/18	0809	G	S	1	N		X
2	DG-T4S-3.5-4		0812						
3	DG-S4S-0.5-1		0822						
4	DG-S4S-3.5-4		0828						
5	DG-R4S-0.5-1		0837						
6	DG-R4S-3.5-4		0842						
7	DG-R4S-9.5-10		0855						
8	DG-Q4S-0.5-1		0932					X	
9	DG-Q4S ~~MS~~ -3.5-4		0937						
10	DUP-19		-						
11	DG-P4S-0.5-1		0945						
12	DG-P4S-3.5-4	↓	0949	↓	↓	↓	↓	↓	↓

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.6, 1.3, 1.0, 1.4
2.5, 1.2, 1.0, 2.7 °C

Custody Seals Intact	☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C): Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by: Naomi Henrefeld	Naomi Henrefeld	Company: Geosyntec	Date/Time: 12/19/18 1645	Received by:	Company: TAPLS	Date/Time: 12/19/18 1645
Relinquished by:		Company: TAPLS	Date/Time: 12/19/18 1930	Received by:	Company:	Date/Time:
Relinquished by:		Company:	Date/Time:	Received in Laboratory by:	Company: TAPLS	Date/Time: 12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90448

Chain of Custody Record

187458 TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/2018	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: N. Hennefeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
DG-04S-0.5-1	12/19/18	1020	G	S	1	N		X	
DG-04S-3.5-4		1024							
DG-N4S-0.5-1		1042							
DG-N4S-3.5-4		1046							
DG-N6S-0.5-1		1302							
DG-N6S-3.5-4		1306							
DG-06S-0.5-1		1315							
DUP-36		—							
DG-06S-3.5-4		1322							
DG-P6S-0.5-1		1330							
DG-P6S-3.5-4		1332							
DG-Q6S-0.5-1	↓	1342	↓	↓	↓	↓		↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No ____		
Relinquished by: Naomi Hennefeld Naomi Hennefeld	Company: Geosyntec	Date/Time: 12/19/18 1045	Received by:	Company: TA PLS	Date/Time: 12/19/18 1645
Relinquished by:	Company: TA PLS 12/19/18	Date/Time: 1930	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA PLS	Date/Time: 12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/29/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

720-9044B

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187488

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler: N. Hennefeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client.
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
DG-Q6S-3.5-4	12/19/18	1348	G	S	1	N		X	
DG-R6S-0.5-1		1357							
DG-R6S-3.5-4		1402							
DG-S6S-0.5-1		1440							
DG-S6S-3.5-4		1448							
DG-T6S-0.5-1		1453							
DG-T6S-3.5-4		1458							
DG-U6S-0.5-1		1503							
DG-U6S-3.5-4		1508							
DG-V6S-0.5-1		1512							
DG-V6S-3.5-4		1518							
DUP-37	↓	—	↓	↓	↓	↓		↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by: Naomi Hennefeld	Company: Geosyntec	Date/Time: 12/19/18 1645	Received by:	Company: TAPLS	Date/Time: 12/19/18 1645
Relinquished by:	Company: TAPLS	Date/Time: 12/19/18 1930	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAPLS	Date/Time: 12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/29/2019 (Rev. 1)

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90448-1

Login Number: 90448
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90478-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/10/2019 1:31:35 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Job ID: 720-90478-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90478-1

Comments
See client email in correspondences for sample receipt discrepancies.

Receipt
The samples were received on 12/20/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.5º C, 0.8º C, 1.0º C, 1.1º C, 1.3º C, 1.4º C, 2.0º C and 3.5º C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
TB The vial labels do not have the client ID, date, or company name filled out, these vials have a TA Pleasanton Trip Blank label on them TB-PLS TB: HCL LOT: 111618, while the COC lists TB..
FB The vial labels do not have the client ID, date, or company name filled out, while the COC lists FB.

The following samples were received with a air bubble > 1/4" in the sample vials:
(#5) DG-AV5W 1of3 vials had an air bubble > 1/4".
(#10) DG-AP5W 1of3 vials had an air bubble > 1/4".
(#11) DG-AN5W 1of3 vials had an air bubble > 1/4".

GC/MS VOA
Methods:8260B/ 8260B/CA_LUFTMS: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was 3 and the following sample was analyzed after 7 days from sampling: DG-AT5W (720-90478-6).

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-520246 recovered above the upper control limit for 2-Hexanone and 4-Methyl-2-pentanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-520246 recovered outside control limits for the following analytes: 2-Hexanone, 4-Methyl-2-pentanone and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-519211 and analytical batch 440-519249. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-519211/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-519211. 3510/8081/8082

Job ID: 720-90478-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 3510C: Due to the matrix, the following samples could not be concentrated to the final method required volume: The reporting limits (RLs) are elevated proportionately. 3510/8015B : 720-90478-1(DG-AS3W), 720-90478-2 (DUP-18) and 720-90478-4 (DG-AX5W)

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 3520C_8270C-SIM-PAH preparation batch 440-518961.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-519311. 3520C/8270 SIM PAH

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AS3W — Lab Sample ID: 720-90478-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.5		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.55		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.40		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.63		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.18	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	1.1		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	1.8		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	2.1		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	2.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.71		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.99		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	1.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	2.8		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	0.30		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3200		960	190	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2500		960	190	ug/L	1		8015B	Total/NA
Arsenic	52		10	2.9	ug/L	1		6010B	Dissolved
Barium	210		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.8	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	5.8		2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	3.2	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	6.4	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	6.5	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	1.5	J B	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DUP-18 — Lab Sample ID: 720-90478-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.5		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.41		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.38		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.59		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.19	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	1.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	1.8		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	2.0		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	2.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.77		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1.1		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.99		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	1.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	2.8		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	0.23		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2400		960	190	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1900		960	190	ug/L	1		8015B	Total/NA
Arsenic	53		10	2.9	ug/L	1		6010B	Dissolved
Barium	210		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.7	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	5.9		2.0	0.68	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-18 (Continued) — Lab Sample ID: 720-90478-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	3.1	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	6.0	J	10	1.0	ug/L	1		6010B	Dissolved
Selenium	5.2	J	20	4.6	ug/L	1		6010B	Dissolved
Thallium	5.0	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	1.3	J B	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AU3W — Lab Sample ID: 720-90478-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.48	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.79		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.29		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluorene	0.14	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.88		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.18	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.82		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	1.1		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	1.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	1.4		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.43		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.77		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.65		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	1.1		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	1.7		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	0.17	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	250	J	480	97	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	250	J	480	97	ug/L	1		8015B	Total/NA
Antimony	9.0	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	100		10	2.9	ug/L	1		6010B	Dissolved
Barium	120		50	1.6	ug/L	1		6010B	Dissolved
Cobalt	2.4		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	7.7	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	15		10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.8	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	3.6	J B	10	0.87	ug/L	1		6010B	Dissolved
Zinc	14	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AX5W — Lab Sample ID: 720-90478-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.16	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Chrysene	0.12	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.13	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.16	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.23		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	0.50		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1000		950	190	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	920	J	950	190	ug/L	1		8015B	Total/NA
Arsenic	14		10	2.9	ug/L	1		6010B	Dissolved
Barium	110		50	1.6	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AX5W (Continued) — Lab Sample ID: 720-90478-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1.5	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	2.1		2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	8.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.2	J	10	1.0	ug/L	1		6010B	Dissolved
Selenium	5.7	J	20	4.6	ug/L	1		6010B	Dissolved
Thallium	6.8	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	2.3	J B	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AV5W — Lab Sample ID: 720-90478-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.7		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.19	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.11	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.30		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.34		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.19	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.24		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.20		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.33		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.19	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.12	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.67		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.60		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	210	J	480	95	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160	J	480	95	ug/L	1		8015B	Total/NA
Antimony	50		10	4.1	ug/L	1		6010B	Dissolved
Arsenic	4300		10	2.9	ug/L	1		6010B	Dissolved
Barium	62		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.25	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	6.1	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	6.5		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	8.6	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	7.8		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	6.2	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	11		10	1.0	ug/L	1		6010B	Dissolved
Thallium	43		10	3.5	ug/L	1		6010B	Dissolved
Vanadium	4.7	J B	10	0.87	ug/L	1		6010B	Dissolved
Zinc	15	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AT5W — Lab Sample ID: 720-90478-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.9		0.50	0.25	ug/L	1		8260B	Total/NA
Acetone	10	J	20	10	ug/L	1		8260B	Total/NA
Acenaphthylene	0.19	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.52		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.18	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.78		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.84		0.20	0.10	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AT5W (Continued) — Lab Sample ID: 720-90478-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.84		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.93		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.38		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.55		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.55		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	1.1		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	1.3		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	0.16	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	240	J	480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	220	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	19		10	2.9	ug/L	1		6010B	Dissolved
Barium	190		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.30	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.1	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	4.8		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	32		20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	4.2	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	4.5	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.3	J B	10	0.87	ug/L	1		6010B	Dissolved
Zinc	60		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: TB-12.20.18 — Lab Sample ID: 720-90478-7

No Detections.

Client Sample ID: FB-12.20.18 — Lab Sample ID: 720-90478-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	25		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: DG-AR5W — Lab Sample ID: 720-90478-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.8		0.50	0.25	ug/L	1		8260B	Total/NA
Phenanthrene	0.12	J	0.20	0.098	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.10	J	0.20	0.098	ug/L	1		8270C SIM	Total/NA
Chrysene	0.10	J	0.20	0.098	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.11	J	0.20	0.098	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.13	J	0.20	0.098	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.17	J	0.20	0.098	ug/L	1		8270C SIM	Total/NA
Pyrene	0.19	J	0.20	0.098	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	990		480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	220	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	70		10	2.9	ug/L	1		6010B	Dissolved
Barium	190		50	1.6	ug/L	1		6010B	Dissolved
Chromium	2.9	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	9.0		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	9.7	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	3.2	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	7.8	J	10	1.0	ug/L	1		6010B	Dissolved
Selenium	4.9	J	20	4.6	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR5W (Continued) — Lab Sample ID: 720-90478-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	8.1	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	1.8	J B	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AP5W — Lab Sample ID: 720-90478-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.0		0.50	0.25	ug/L	1		8260B	Total/NA
Phenanthrene	0.15	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Chrysene	0.12	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.11	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.16	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.22		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	0.22		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	330	J	480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	250	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	89		10	2.9	ug/L	1		6010B	Dissolved
Barium	100		50	1.6	ug/L	1		6010B	Dissolved
Chromium	3.0	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	7.4		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	5.5	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	4.4	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	8.0	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	7.6	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	1.9	J B	10	0.87	ug/L	1		6010B	Dissolved
Zinc	11	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AN5W — Lab Sample ID: 720-90478-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.0		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.11	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.47		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.33		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Chrysene	0.41		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.46		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.65		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.21		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.44		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.38		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.70		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	0.69		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	290	J	480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	200		10	2.9	ug/L	1		6010B	Dissolved
Barium	160		50	1.6	ug/L	1		6010B	Dissolved
Chromium	2.2	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	6.4		2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	4.6	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	6.6	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	5.6	J	10	3.5	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AN5W (Continued)

Lab Sample ID: 720-90478-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	1.7	J B	10	0.87	ug/L	1		6010B	Dissolved
Zinc	21		20	7.4	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AS3W
Date Collected: 12/20/18 08:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*01/01/19 02:03*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*01/01/19 02:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/01/19 02:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.5**		0.50	0.25	ug/L			01/01/19 02:03	1
Acetone	ND		20	10	ug/L			01/01/19 02:03	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 02:03	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 02:03	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 02:03	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 02:03	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 02:03	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 02:03	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 02:03	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 02:03	1

Client Sample ID: DG-AS3W

Date Collected: 12/20/18 08:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 02:03	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 02:03	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 02:03	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 02:03	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 02:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 02:03	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 02:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 02:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 02:03	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 02:03	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 02:03	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*01/01/19 02:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/01/19 02:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.55**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Acenaphthene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Acenaphthylene	**0.40**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Fluorene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Phenanthrene	**0.63**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Anthracene	**0.18**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Benzo[a]anthracene	**1.1**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Chrysene	**1.8**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Benzo[a]pyrene	**2.1**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Benzo[b]fluoranthene	**2.2**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Benzo[k]fluoranthene	**0.71**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Benzo[g,h,i]perylene	**1.2**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Indeno[1,2,3-cd]pyrene	**0.99**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Fluoranthene	**1.2**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Pyrene	**2.8**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1
Dibenz(a,h)anthracene	**0.30**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 15:49	1

Client Sample ID: DG-AS3W

Date Collected: 12/20/18 08:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	*48*		*21 - 120*	*12/23/18 08:41*	*12/31/18 15:49*	*1*
Nitrobenzene-d5	*79*		*10 - 120*	*12/23/18 08:41*	*12/31/18 15:49*	*1*
2-Fluorobiphenyl (Surr)	*70*		*38 - 120*	*12/23/18 08:41*	*12/31/18 15:49*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3200**		960	190	ug/L		12/26/18 06:09	12/28/18 21:01	1
Motor Oil Range Organics [C24-C36]	**2500**		960	190	ug/L		12/26/18 06:09	12/28/18 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*88*		*45 - 120*	*12/26/18 06:09*	*12/28/18 21:01*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 20:59	1
Arsenic	**52**		10	2.9	ug/L		12/26/18 09:30	12/26/18 20:59	1
Barium	**210**		50	1.6	ug/L		12/26/18 09:30	12/26/18 20:59	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 20:59	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 20:59	1
Chromium	**1.8**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 20:59	1
Cobalt	**5.8**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 20:59	1
Copper	ND		20	3.7	ug/L		12/26/18 09:30	12/26/18 20:59	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 20:59	1
Molybdenum	**3.2**	**J**	10	2.9	ug/L		12/26/18 09:30	12/26/18 20:59	1
Nickel	**6.4**	**J**	10	1.0	ug/L		12/26/18 09:30	12/26/18 20:59	1
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 20:59	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 20:59	1
Thallium	**6.5**	**J**	10	3.5	ug/L		12/26/18 09:30	12/26/18 20:59	1
Vanadium	**1.5**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 20:59	1
Zinc	ND		20	7.4	ug/L		12/26/18 09:30	12/26/18 20:59	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 18:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:19	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DUP-18

Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-2

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*01/01/19 02:27*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/01/19 02:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/01/19 02:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.5**		0.50	0.25	ug/L			01/01/19 02:27	1
Acetone	ND		20	10	ug/L			01/01/19 02:27	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 02:27	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 02:27	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 02:27	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 02:27	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 02:27	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 02:27	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 02:27	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 02:27	1

Client Sample ID: DUP-18

Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 02:27	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 02:27	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 02:27	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 02:27	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 02:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 02:27	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 02:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 02:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 02:27	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 02:27	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 02:27	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/01/19 02:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/01/19 02:27*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.41**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Acenaphthene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Acenaphthylene	**0.38**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Fluorene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Phenanthrene	**0.59**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Anthracene	**0.19**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Benzo[a]anthracene	**1.2**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Chrysene	**1.8**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Benzo[a]pyrene	**2.0**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Benzo[b]fluoranthene	**2.2**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Benzo[k]fluoranthene	**0.77**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Benzo[g,h,i]perylene	**1.1**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Indeno[1,2,3-cd]pyrene	**0.99**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Fluoranthene	**1.2**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Pyrene	**2.8**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1
Dibenz(a,h)anthracene	**0.23**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:13	1

Client Sample ID: DUP-18

Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*66*		*21 - 120*	*12/23/18 08:41*	*12/31/18 16:13*	*1*
Nitrobenzene-d5	*81*		*10 - 120*	*12/23/18 08:41*	*12/31/18 16:13*	*1*
2-Fluorobiphenyl (Surr)	*85*		*38 - 120*	*12/23/18 08:41*	*12/31/18 16:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2400**		960	190	ug/L		12/26/18 06:09	12/28/18 21:22	1
Motor Oil Range Organics [C24-C36]	**1900**		960	190	ug/L		12/26/18 06:09	12/28/18 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*83*		*45 - 120*	*12/26/18 06:09*	*12/28/18 21:22*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 21:04	1
Arsenic	**53**		10	2.9	ug/L		12/26/18 09:30	12/26/18 21:04	1
Barium	**210**		50	1.6	ug/L		12/26/18 09:30	12/26/18 21:04	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 21:04	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 21:04	1
Chromium	**1.7**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 21:04	1
Cobalt	**5.9**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 21:04	1
Copper	ND		20	3.7	ug/L		12/26/18 09:30	12/26/18 21:04	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 21:04	1
Molybdenum	**3.1**	**J**	10	2.9	ug/L		12/26/18 09:30	12/26/18 21:04	1
Nickel	**6.0**	**J**	10	1.0	ug/L		12/26/18 09:30	12/26/18 21:04	1
Selenium	**5.2**	**J**	20	4.6	ug/L		12/26/18 09:30	12/26/18 21:04	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 21:04	1
Thallium	**5.0**	**J**	10	3.5	ug/L		12/26/18 09:30	12/26/18 21:04	1
Vanadium	**1.3**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 21:04	1
Zinc	ND		20	7.4	ug/L		12/26/18 09:30	12/26/18 21:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 19:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:19	1

Client Sample ID: DG-AU3W

Date Collected: 12/20/18 09:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-3

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*01/01/19 02:50*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/01/19 02:50*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 02:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.48**	**J**	0.50	0.25	ug/L			01/01/19 02:50	1
Acetone	ND		20	10	ug/L			01/01/19 02:50	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 02:50	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 02:50	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 02:50	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 02:50	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 02:50	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 02:50	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 02:50	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 02:50	1

Client Sample ID: DG-AU3W

Date Collected: 12/20/18 09:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 02:50	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 02:50	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 02:50	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 02:50	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 02:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 02:50	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 02:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 02:50	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 02:50	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 02:50	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*01/01/19 02:50*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 02:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.79**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Acenaphthene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Acenaphthylene	**0.29**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Fluorene	**0.14**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Phenanthrene	**0.88**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Anthracene	**0.18**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Benzo[a]anthracene	**0.82**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Chrysene	**1.1**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Benzo[a]pyrene	**1.2**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Benzo[b]fluoranthene	**1.4**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Benzo[k]fluoranthene	**0.43**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Benzo[g,h,i]perylene	**0.77**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Indeno[1,2,3-cd]pyrene	**0.65**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Fluoranthene	**1.1**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Pyrene	**1.7**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1
Dibenz(a,h)anthracene	**0.17**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 16:38	1

Client Sample ID: DG-AU3W

Date Collected: 12/20/18 09:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*33*		*21 - 120*	*12/23/18 08:41*	*12/31/18 16:38*	*1*
Nitrobenzene-d5	*87*		*10 - 120*	*12/23/18 08:41*	*12/31/18 16:38*	*1*
2-Fluorobiphenyl (Surr)	*75*		*38 - 120*	*12/23/18 08:41*	*12/31/18 16:38*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**250**	**J**	480	97	ug/L		12/26/18 06:09	12/28/18 21:42	1
Motor Oil Range Organics [C24-C36]	**250**	**J**	480	97	ug/L		12/26/18 06:09	12/28/18 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*63*		*45 - 120*	*12/26/18 06:09*	*12/28/18 21:42*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**9.0**	**J**	10	4.1	ug/L		12/26/18 09:30	12/26/18 21:09	1
Arsenic	**100**		10	2.9	ug/L		12/26/18 09:30	12/26/18 21:09	1
Barium	**120**		50	1.6	ug/L		12/26/18 09:30	12/26/18 21:09	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 21:09	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 21:09	1
Chromium	ND		10	0.70	ug/L		12/26/18 09:30	12/26/18 21:09	1
Cobalt	**2.4**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 21:09	1
Copper	**7.7**	**J**	20	3.7	ug/L		12/26/18 09:30	12/26/18 21:09	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 21:09	1
Molybdenum	**15**		10	2.9	ug/L		12/26/18 09:30	12/26/18 21:09	1
Nickel	**2.8**	**J**	10	1.0	ug/L		12/26/18 09:30	12/26/18 21:09	1
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 21:09	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 21:09	1
Thallium	ND		10	3.5	ug/L		12/26/18 09:30	12/26/18 21:09	1
Vanadium	**3.6**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 21:09	1
Zinc	**14**	**J**	20	7.4	ug/L		12/26/18 09:30	12/26/18 21:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 19:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:19	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AX5W
Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*01/01/19 03:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/01/19 03:14*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/01/19 03:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Acetone	ND		20	10	ug/L			01/01/19 03:14	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 03:14	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 03:14	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 03:14	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 03:14	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 03:14	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 03:14	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 03:14	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 03:14	1

Client Sample ID: DG-AX5W

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 03:14	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 03:14	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 03:14	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 03:14	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 03:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 03:14	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 03:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 03:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 03:14	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 03:14	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 03:14	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/01/19 03:14*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/01/19 03:14*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Acenaphthene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Fluorene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Phenanthrene	**0.16**	**J**	0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Anthracene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Chrysene	**0.12**	**J**	0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Benzo[a]pyrene	**0.13**	**J**	0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Benzo[b]fluoranthene	**0.16**	**J**	0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Fluoranthene	**0.23**		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Pyrene	**0.50**		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		12/23/18 08:41	12/31/18 17:02	1

Client Sample ID: DG-AX5W

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*76*		*21 - 120*	*12/23/18 08:41*	*12/31/18 17:02*	*1*
Nitrobenzene-d5	*83*		*10 - 120*	*12/23/18 08:41*	*12/31/18 17:02*	*1*
2-Fluorobiphenyl (Surr)	*97*		*38 - 120*	*12/23/18 08:41*	*12/31/18 17:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1000**		950	190	ug/L		12/26/18 06:09	12/28/18 22:02	1
Motor Oil Range Organics [C24-C36]	**920**	**J**	950	190	ug/L		12/26/18 06:09	12/28/18 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*86*		*45 - 120*	*12/26/18 06:09*	*12/28/18 22:02*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 21:24	1
Arsenic	**14**		10	2.9	ug/L		12/26/18 09:30	12/27/18 10:48	1
Barium	**110**		50	1.6	ug/L		12/26/18 09:30	12/26/18 21:24	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 21:24	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 21:24	1
Chromium	**1.5**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 21:24	1
Cobalt	**2.1**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 21:24	1
Copper	ND		20	3.7	ug/L		12/26/18 09:30	12/26/18 21:24	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 21:24	1
Molybdenum	**8.9**	**J**	10	2.9	ug/L		12/26/18 09:30	12/26/18 21:24	1
Nickel	**2.2**	**J**	10	1.0	ug/L		12/26/18 09:30	12/26/18 21:24	1
Selenium	**5.7**	**J**	20	4.6	ug/L		12/26/18 09:30	12/26/18 21:24	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 21:24	1
Thallium	**6.8**	**J**	10	3.5	ug/L		12/26/18 09:30	12/26/18 21:24	1
Vanadium	**2.3**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 21:24	1
Zinc	ND		20	7.4	ug/L		12/26/18 09:30	12/26/18 21:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:19	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AV5W
Date Collected: 12/20/18 11:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*01/01/19 03:38*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*01/01/19 03:38*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/01/19 03:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**2.7**		0.50	0.25	ug/L			01/01/19 03:38	1
Acetone	ND		20	10	ug/L			01/01/19 03:38	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 03:38	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 03:38	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 03:38	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 03:38	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 03:38	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 03:38	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 03:38	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 03:38	1

Client Sample ID: DG-AV5W

Date Collected: 12/20/18 11:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 03:38	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 03:38	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 03:38	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 03:38	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 03:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 03:38	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 03:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 03:38	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 03:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 03:38	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 03:38	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*01/01/19 03:38*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/01/19 03:38*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.19**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Acenaphthene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Acenaphthylene	**0.11**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Fluorene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Phenanthrene	**0.30**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Anthracene	**0.34**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Benzo[a]anthracene	**0.19**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Chrysene	**0.24**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Benzo[a]pyrene	**0.20**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Benzo[b]fluoranthene	**0.33**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Benzo[g,h,i]perylene	**0.19**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Indeno[1,2,3-cd]pyrene	**0.12**	**J**	0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Fluoranthene	**0.67**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Pyrene	**0.60**		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/31/18 17:26	1

Client Sample ID: DG-AV5W

Date Collected: 12/20/18 11:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*74*		*21 - 120*	*12/23/18 08:41*	*12/31/18 17:26*	*1*
Nitrobenzene-d5	*83*		*10 - 120*	*12/23/18 08:41*	*12/31/18 17:26*	*1*
2-Fluorobiphenyl (Surr)	*92*		*38 - 120*	*12/23/18 08:41*	*12/31/18 17:26*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**210**	**J**	480	95	ug/L		12/26/18 06:09	12/28/18 22:23	1
Motor Oil Range Organics [C24-C36]	**160**	**J**	480	95	ug/L		12/26/18 06:09	12/28/18 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*68*		*45 - 120*	*12/26/18 06:09*	*12/28/18 22:23*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**50**		10	4.1	ug/L		12/26/18 09:30	12/26/18 21:28	1
Arsenic	**4300**		10	2.9	ug/L		12/26/18 09:30	12/26/18 21:28	1
Barium	**62**		50	1.6	ug/L		12/26/18 09:30	12/26/18 21:28	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 21:28	1
Cadmium	**0.25**	**J**	2.0	0.21	ug/L		12/26/18 09:30	12/26/18 21:28	1
Chromium	**6.1**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 21:28	1
Cobalt	**6.5**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 21:28	1
Copper	**8.6**	**J**	20	3.7	ug/L		12/26/18 09:30	12/26/18 21:28	1
Lead	**7.8**		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 21:28	1
Molybdenum	**6.2**	**J**	10	2.9	ug/L		12/26/18 09:30	12/26/18 21:28	1
Nickel	**11**		10	1.0	ug/L		12/26/18 09:30	12/26/18 21:28	1
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 21:28	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 21:28	1
Thallium	**43**		10	3.5	ug/L		12/26/18 09:30	12/26/18 21:28	1
Vanadium	**4.7**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 21:28	1
Zinc	**15**	**J**	20	7.4	ug/L		12/26/18 09:30	12/26/18 21:28	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:19	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AT5W
Date Collected: 12/20/18 11:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*01/01/19 04:02*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/01/19 04:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 04:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.9**		0.50	0.25	ug/L			01/01/19 04:02	1
Acetone	**10**	**J**	20	10	ug/L			01/01/19 04:02	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 04:02	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 04:02	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 04:02	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 04:02	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 04:02	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 04:02	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 04:02	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 04:02	1

Client Sample ID: DG-AT5W

Date Collected: 12/20/18 11:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 04:02	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 04:02	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 04:02	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 04:02	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 04:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 04:02	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 04:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 04:02	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 04:02	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 04:02	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 04:02	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*01/01/19 04:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 04:02*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Acenaphthene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Acenaphthylene	**0.19**	**J**	0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Fluorene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Phenanthrene	**0.52**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Anthracene	**0.18**	**J**	0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Benzo[a]anthracene	**0.78**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Chrysene	**0.84**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Benzo[a]pyrene	**0.84**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Benzo[b]fluoranthene	**0.93**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Benzo[k]fluoranthene	**0.38**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Benzo[g,h,i]perylene	**0.55**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Indeno[1,2,3-cd]pyrene	**0.55**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Fluoranthene	**1.1**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Pyrene	**1.3**		0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1
Dibenz(a,h)anthracene	**0.16**	**J**	0.20	0.10	ug/L		12/26/18 11:19	12/31/18 13:23	1

Client Sample ID: DG-AT5W

Date Collected: 12/20/18 11:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*63*		*21 - 120*	*12/26/18 11:19*	*12/31/18 13:23*	*1*
Nitrobenzene-d5	*46*		*10 - 120*	*12/26/18 11:19*	*12/31/18 13:23*	*1*
2-Fluorobiphenyl (Surr)	*69*		*38 - 120*	*12/26/18 11:19*	*12/31/18 13:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**240**	**J**	480	96	ug/L		12/26/18 06:09	12/28/18 22:43	1
Motor Oil Range Organics [C24-C36]	**220**	**J**	480	96	ug/L		12/26/18 06:09	12/28/18 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*45 - 120*	*12/26/18 06:09*	*12/28/18 22:43*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 21:33	1
Arsenic	**19**		10	2.9	ug/L		12/26/18 09:30	12/26/18 21:33	1
Barium	**190**		50	1.6	ug/L		12/26/18 09:30	12/26/18 21:33	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 21:33	1
Cadmium	**0.30**	**J**	2.0	0.21	ug/L		12/26/18 09:30	12/26/18 21:33	1
Chromium	**1.1**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 21:33	1
Cobalt	**4.8**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 21:33	1
Copper	**32**		20	3.7	ug/L		12/26/18 09:30	12/26/18 21:33	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 21:33	1
Molybdenum	**4.2**	**J**	10	2.9	ug/L		12/26/18 09:30	12/26/18 21:33	1
Nickel	**4.5**	**J**	10	1.0	ug/L		12/26/18 09:30	12/26/18 21:33	1
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 21:33	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 21:33	1
Thallium	ND		10	3.5	ug/L		12/26/18 09:30	12/26/18 21:33	1
Vanadium	**2.3**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 21:33	1
Zinc	**60**		20	7.4	ug/L		12/26/18 09:30	12/26/18 21:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:23	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: TB-12.20.18
Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*01/01/19 04:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*01/01/19 04:26*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 04:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Acetone	ND		20	10	ug/L			01/01/19 04:26	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 04:26	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 04:26	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 04:26	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 04:26	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 04:26	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 04:26	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 04:26	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 04:26	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: TB-12.20.18
Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 04:26	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 04:26	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 04:26	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 04:26	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 04:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 04:26	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 04:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 04:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 04:26	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 04:26	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 04:26	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*01/01/19 04:26*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 04:26*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: FB-12.20.18
Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-8
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*01/01/19 04:50*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/01/19 04:50*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 04:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Acetone	**25**		20	10	ug/L			01/01/19 04:50	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 04:50	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 04:50	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 04:50	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 04:50	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 04:50	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 04:50	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 04:50	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 04:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: FB-12.20.18
Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 04:50	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 04:50	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 04:50	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 04:50	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 04:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 04:50	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 04:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 04:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 04:50	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 04:50	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 04:50	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*01/01/19 04:50*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 04:50*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AR5W
Date Collected: 12/20/18 13:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-9
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*01/01/19 05:14*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/01/19 05:14*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/01/19 05:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**4.8**		0.50	0.25	ug/L			01/01/19 05:14	1
Acetone	ND		20	10	ug/L			01/01/19 05:14	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 05:14	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 05:14	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 05:14	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 05:14	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 05:14	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 05:14	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 05:14	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 05:14	1

Client Sample ID: DG-AR5W

Date Collected: 12/20/18 13:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 05:14	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 05:14	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 05:14	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 05:14	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 05:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 05:14	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 05:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 05:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 05:14	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 05:14	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 05:14	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*01/01/19 05:14*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/01/19 05:14*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Acenaphthene	ND		0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Acenaphthylene	ND		0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Fluorene	ND		0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Phenanthrene	**0.12**	**J**	0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Anthracene	ND		0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Benzo[a]anthracene	**0.10**	**J**	0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Chrysene	**0.10**	**J**	0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Benzo[a]pyrene	**0.11**	**J**	0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Benzo[b]fluoranthene	**0.13**	**J**	0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Benzo[k]fluoranthene	ND		0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Benzo[g,h,i]perylene	ND		0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Fluoranthene	**0.17**	**J**	0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Pyrene	**0.19**	**J**	0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1
Dibenz(a,h)anthracene	ND		0.20	0.098	ug/L		12/26/18 11:19	12/31/18 13:47	1

Client Sample ID: DG-AR5W

Date Collected: 12/20/18 13:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*74*		*21 - 120*	*12/26/18 11:19*	*12/31/18 13:47*	*1*
Nitrobenzene-d5	*64*		*10 - 120*	*12/26/18 11:19*	*12/31/18 13:47*	*1*
2-Fluorobiphenyl (Surr)	*76*		*38 - 120*	*12/26/18 11:19*	*12/31/18 13:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**990**		480	96	ug/L		12/26/18 06:09	12/30/18 23:04	1
Motor Oil Range Organics [C24-C36]	**220**	**J**	480	96	ug/L		12/26/18 06:09	12/30/18 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*12/26/18 06:09*	*12/30/18 23:04*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 21:38	1
Arsenic	**70**		10	2.9	ug/L		12/26/18 09:30	12/26/18 21:38	1
Barium	**190**		50	1.6	ug/L		12/26/18 09:30	12/26/18 21:38	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 21:38	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 21:38	1
Chromium	**2.9**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 21:38	1
Cobalt	**9.0**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 21:38	1
Copper	**9.7**	**J**	20	3.7	ug/L		12/26/18 09:30	12/26/18 21:38	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 21:38	1
Molybdenum	**3.2**	**J**	10	2.9	ug/L		12/26/18 09:30	12/26/18 21:38	1
Nickel	**7.8**	**J**	10	1.0	ug/L		12/26/18 09:30	12/26/18 21:38	1
Selenium	**4.9**	**J**	20	4.6	ug/L		12/26/18 09:30	12/26/18 21:38	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 21:38	1
Thallium	**8.1**	**J**	10	3.5	ug/L		12/26/18 09:30	12/26/18 21:38	1
Vanadium	**1.8**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 21:38	1
Zinc	ND		20	7.4	ug/L		12/26/18 09:30	12/26/18 21:38	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:23	1

Client Sample ID: DG-AP5W

Date Collected: 12/20/18 14:28
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-10

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*01/01/19 05:37*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*01/01/19 05:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 05:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**5.0**		0.50	0.25	ug/L			01/01/19 05:37	1
Acetone	ND		20	10	ug/L			01/01/19 05:37	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 05:37	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 05:37	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 05:37	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 05:37	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 05:37	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 05:37	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 05:37	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 05:37	1

Client Sample ID: DG-AP5W

Date Collected: 12/20/18 14:28
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 05:37	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 05:37	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 05:37	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 05:37	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 05:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 05:37	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 05:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 05:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 05:37	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 05:37	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 05:37	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*01/01/19 05:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/01/19 05:37*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Acenaphthene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Fluorene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Phenanthrene	**0.15**	**J**	0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Anthracene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Chrysene	**0.12**	**J**	0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Benzo[a]pyrene	**0.11**	**J**	0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Benzo[b]fluoranthene	**0.16**	**J**	0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Fluoranthene	**0.22**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Pyrene	**0.22**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:34	1

Client Sample ID: DG-AP5W

Date Collected: 12/20/18 14:28
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*71*		*21 - 120*	*12/26/18 11:19*	*12/31/18 12:34*	*1*
Nitrobenzene-d5	*63*		*10 - 120*	*12/26/18 11:19*	*12/31/18 12:34*	*1*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*	*12/26/18 11:19*	*12/31/18 12:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**330**	**J**	480	96	ug/L		12/26/18 06:09	12/28/18 23:24	1
Motor Oil Range Organics [C24-C36]	**250**	**J**	480	96	ug/L		12/26/18 06:09	12/28/18 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*59*		*45 - 120*	*12/26/18 06:09*	*12/28/18 23:24*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 21:43	1
Arsenic	**89**		10	2.9	ug/L		12/26/18 09:30	12/26/18 21:43	1
Barium	**100**		50	1.6	ug/L		12/26/18 09:30	12/26/18 21:43	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 21:43	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 21:43	1
Chromium	**3.0**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 21:43	1
Cobalt	**7.4**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 21:43	1
Copper	**5.5**	**J**	20	3.7	ug/L		12/26/18 09:30	12/26/18 21:43	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 21:43	1
Molybdenum	**4.4**	**J**	10	2.9	ug/L		12/26/18 09:30	12/26/18 21:43	1
Nickel	**8.0**	**J**	10	1.0	ug/L		12/26/18 09:30	12/26/18 21:43	1
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 21:43	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 21:43	1
Thallium	**7.6**	**J**	10	3.5	ug/L		12/26/18 09:30	12/26/18 21:43	1
Vanadium	**1.9**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 21:43	1
Zinc	**11**	**J**	20	7.4	ug/L		12/26/18 09:30	12/26/18 21:43	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 19:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:23	1

Client Sample ID: DG-AN5W
Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-11
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/01/19 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*01/01/19 06:01*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/01/19 06:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/01/19 06:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**4.0**		0.50	0.25	ug/L			01/01/19 06:01	1
Acetone	ND		20	10	ug/L			01/01/19 06:01	1
Benzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Bromobenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Bromoform	ND		1.0	0.40	ug/L			01/01/19 06:01	1
Bromomethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/01/19 06:01	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/01/19 06:01	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/01/19 06:01	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Chloroethane	ND		1.0	0.40	ug/L			01/01/19 06:01	1
Chloroform	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Chloromethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/01/19 06:01	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Dibromomethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/01/19 06:01	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/01/19 06:01	1

Client Sample ID: DG-AN5W

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/01/19 06:01	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/01/19 06:01	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/01/19 06:01	1
Naphthalene	ND		1.0	0.40	ug/L			01/01/19 06:01	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Styrene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Toluene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 06:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/01/19 06:01	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Trichloroethene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/01/19 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/01/19 06:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/01/19 06:01	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/01/19 06:01	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/01/19 06:01	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/01/19 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*01/01/19 06:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/01/19 06:01*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.11**	**J**	0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Acenaphthene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Acenaphthylene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Fluorene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Phenanthrene	**0.47**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Anthracene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Benzo[a]anthracene	**0.33**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Chrysene	**0.41**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Benzo[a]pyrene	**0.46**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Benzo[b]fluoranthene	**0.65**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Benzo[k]fluoranthene	**0.21**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Benzo[g,h,i]perylene	**0.44**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Indeno[1,2,3-cd]pyrene	**0.38**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Fluoranthene	**0.70**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Pyrene	**0.69**		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		12/26/18 11:19	12/31/18 12:58	1

Client Sample ID: DG-AN5W

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*74*		*21 - 120*	*12/26/18 11:19*	*12/31/18 12:58*	*1*
Nitrobenzene-d5	*64*		*10 - 120*	*12/26/18 11:19*	*12/31/18 12:58*	*1*
2-Fluorobiphenyl (Surr)	*79*		*38 - 120*	*12/26/18 11:19*	*12/31/18 12:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**290**	**J**	480	96	ug/L		12/26/18 06:09	12/28/18 20:20	1
Motor Oil Range Organics [C24-C36]	**120**	**J**	480	96	ug/L		12/26/18 06:09	12/28/18 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*83*		*45 - 120*	*12/26/18 06:09*	*12/28/18 20:20*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 21:48	1
Arsenic	**200**		10	2.9	ug/L		12/26/18 09:30	12/26/18 21:48	1
Barium	**160**		50	1.6	ug/L		12/26/18 09:30	12/26/18 21:48	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 21:48	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 21:48	1
Chromium	**2.2**	**J**	10	0.70	ug/L		12/26/18 09:30	12/26/18 21:48	1
Cobalt	**6.4**		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 21:48	1
Copper	ND		20	3.7	ug/L		12/26/18 09:30	12/26/18 21:48	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 21:48	1
Molybdenum	**4.6**	**J**	10	2.9	ug/L		12/26/18 09:30	12/26/18 21:48	1
Nickel	**6.6**	**J**	10	1.0	ug/L		12/26/18 09:30	12/26/18 21:48	1
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 21:48	1
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 21:48	1
Thallium	**5.6**	**J**	10	3.5	ug/L		12/26/18 09:30	12/26/18 21:48	1
Vanadium	**1.7**	**J B**	10	0.87	ug/L		12/26/18 09:30	12/26/18 21:48	1
Zinc	**21**		20	7.4	ug/L		12/26/18 09:30	12/26/18 21:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 19:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:23	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCA	TOL								
Lab Sample ID	Client Sample ID	(70-130)	(80-128)								
440-228335-A-22 MS	Matrix Spike	108	98								
440-228335-A-22 MSD	Matrix Spike Duplicate	111	101								
720-90478-1	DG-AS3W	115	102								
720-90478-2	DUP-18	113	99								
720-90478-3	DG-AU3W	116	101								
720-90478-4	DG-AX5W	113	102								
720-90478-5	DG-AV5W	115	103								
720-90478-6	DG-AT5W	118	101								
720-90478-7	TB-12.20.18	116	101								
720-90478-8	FB-12.20.18	119	101								
720-90478-9	DG-AR5W	115	99								
720-90478-10	DG-AP5W	114	101								
720-90478-11	DG-AN5W	114	102								
LCS 440-520246/6	Lab Control Sample	106	100								
MB 440-520246/5	Method Blank	107	104								

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DBFM	BFB	TOL							
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)							
440-228335-A-22 MS	Matrix Spike	100	106	98							
440-228335-A-22 MSD	Matrix Spike Duplicate	100	109	101							
720-90478-1	DG-AS3W	104	107	102							
720-90478-2	DUP-18	103	106	99							
720-90478-3	DG-AU3W	104	105	101							
720-90478-4	DG-AX5W	104	105	102							
720-90478-5	DG-AV5W	104	104	103							
720-90478-6	DG-AT5W	104	105	101							
720-90478-7	TB-12.20.18	103	107	101							
720-90478-8	FB-12.20.18	105	106	101							
720-90478-9	DG-AR5W	105	106	99							
720-90478-10	DG-AP5W	104	103	101							
720-90478-11	DG-AN5W	102	105	102							
LCS 440-520247/7	Lab Control Sample	97	108	101							
MB 440-520247/5	Method Blank	100	107	104							

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TPHL	NBZ	FBP
Lab Sample ID	Client Sample ID	(21-120)	(10-120)	(38-120)
720-90478-1	DG-AS3W	48	79	70
720-90478-2	DUP-18	66	81	85
720-90478-3	DG-AU3W	33	87	75
720-90478-4	DG-AX5W	76	83	97
720-90478-5	DG-AV5W	74	83	92
720-90478-6	DG-AT5W	63	46	69
720-90478-9	DG-AR5W	74	64	76
720-90478-10	DG-AP5W	71	63	81
720-90478-11	DG-AN5W	74	64	79
LCS 440-518961/2-A	Lab Control Sample	92	86	87
LCS 440-519311/2-A	Lab Control Sample	110	87	91
LCSD 440-518961/3-A	Lab Control Sample Dup	114	94	103
LCSD 440-519311/3-A	Lab Control Sample Dup	96	72	76
MB 440-518961/1-A	Method Blank	107	87	100
MB 440-519311/1-A	Method Blank	99	68	76

Surrogate Legend

TPHL = Terphenyl-d14
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-90478-1	DG-AS3W	88
720-90478-2	DUP-18	83
720-90478-3	DG-AU3W	63
720-90478-4	DG-AX5W	86
720-90478-5	DG-AV5W	68
720-90478-6	DG-AT5W	75
720-90478-9	DG-AR5W	70
720-90478-10	DG-AP5W	59
720-90478-11	DG-AN5W	83
LCS 440-519211/2-A	Lab Control Sample	86
LCSD 440-519211/3-A	Lab Control Sample Dup	75
MB 440-519211/1-A	Method Blank	83

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-520246/5
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Acetone	ND		20	10	ug/L			12/31/18 20:04	1
Benzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Bromobenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Bromoform	ND		1.0	0.40	ug/L			12/31/18 20:04	1
Bromomethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/31/18 20:04	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/31/18 20:04	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/31/18 20:04	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Chloroethane	ND		1.0	0.40	ug/L			12/31/18 20:04	1
Chloroform	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Chloromethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/31/18 20:04	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Dibromomethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/31/18 20:04	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
2-Hexanone	ND		5.0	2.5	ug/L			12/31/18 20:04	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/31/18 20:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/31/18 20:04	1
Naphthalene	ND		1.0	0.40	ug/L			12/31/18 20:04	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Styrene	ND		0.50	0.25	ug/L			12/31/18 20:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-520246/5
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Toluene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/31/18 20:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/31/18 20:04	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Trichloroethene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/31/18 20:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/31/18 20:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/31/18 20:04	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/31/18 20:04	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/31/18 20:04	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/31/18 20:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*12/31/18 20:04*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*12/31/18 20:04*	*1*

Lab Sample ID: LCS 440-520246/6
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.7		ug/L		103	63 - 131
Acetone	25.0	33.7		ug/L		135	10 - 150
Benzene	25.0	25.8		ug/L		103	68 - 130
Dichlorobromomethane	25.0	27.4		ug/L		110	70 - 132
Bromobenzene	25.0	26.4		ug/L		106	70 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Bromoform	25.0	25.3		ug/L		101	60 - 148
Bromomethane	25.0	28.1		ug/L		112	64 - 139
2-Butanone (MEK)	25.0	27.6		ug/L		110	44 - 150
n-Butylbenzene	25.0	27.0		ug/L		108	65 - 150
sec-Butylbenzene	25.0	26.7		ug/L		107	70 - 138
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
Carbon disulfide	25.0	25.7		ug/L		103	52 - 136
Carbon tetrachloride	25.0	23.8		ug/L		95	60 - 150
Chlorobenzene	25.0	24.9		ug/L		100	70 - 130
Chloroethane	25.0	28.8		ug/L		115	64 - 135
Chloroform	25.0	26.4		ug/L		106	70 - 130
Chloromethane	25.0	25.5		ug/L		102	47 - 140
2-Chlorotoluene	25.0	26.9		ug/L		108	70 - 130
4-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-520246/6
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	26.2		ug/L		105	69 - 145
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	28.1		ug/L		113	70 - 130
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	29.1		ug/L		116	52 - 140
Ethylene Dibromide	25.0	26.2		ug/L		105	70 - 130
Dibromomethane	25.0	24.4		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	18.2		ug/L		73	29 - 150
1,1-Dichloroethane	25.0	28.3		ug/L		113	64 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		105	57 - 138
1,1-Dichloroethene	25.0	25.9		ug/L		104	70 - 130
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 133
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130
1,2-Dichloropropane	25.0	30.5		ug/L		122	67 - 130
cis-1,3-Dichloropropene	25.0	29.2		ug/L		117	70 - 133
trans-1,3-Dichloropropene	25.0	29.5		ug/L		118	70 - 132
Ethylbenzene	25.0	25.6		ug/L		103	70 - 130
Hexachlorobutadiene	25.0	21.5		ug/L		86	10 - 150
2-Hexanone	25.0	39.0	*	ug/L		156	10 - 150
Isopropylbenzene	25.0	24.6		ug/L		98	70 - 136
4-Isopropyltoluene	25.0	25.8		ug/L		103	70 - 132
Methylene Chloride	25.0	24.9		ug/L		100	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	37.6	*	ug/L		151	59 - 149
Naphthalene	25.0	24.3		ug/L		97	60 - 140
N-Propylbenzene	25.0	27.6		ug/L		111	67 - 139
Styrene	25.0	25.6		ug/L		102	70 - 134
1,1,1,2-Tetrachloroethane	25.0	25.7		ug/L		103	60 - 141
1,1,2,2-Tetrachloroethane	25.0	30.1		ug/L		120	63 - 130
Tetrachloroethene	25.0	23.1		ug/L		92	70 - 130
Toluene	25.0	25.0		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	25.0	23.2		ug/L		93	60 - 140
1,2,4-Trichlorobenzene	25.0	23.0		ug/L		92	60 - 140
1,1,1-Trichloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	30.1		ug/L		120	70 - 130
Trichloroethene	25.0	23.5		ug/L		94	70 - 130
Trichlorofluoromethane	25.0	24.5		ug/L		98	60 - 150
1,2,3-Trichloropropane	25.0	28.8		ug/L		115	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.5		ug/L		98	60 - 140
1,2,4-Trimethylbenzene	25.0	27.1		ug/L		108	70 - 135
1,3,5-Trimethylbenzene	25.0	26.3		ug/L		105	70 - 136
Vinyl acetate	25.0	36.2	*	ug/L		145	48 - 140
Vinyl chloride	25.0	22.8		ug/L		91	59 - 133
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130
o-Xylene	25.0	24.9		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	25.4		ug/L		102	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-520246/6
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	100		80 - 128

Lab Sample ID: 440-228335-A-22 MS
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	23.6		ug/L		95	70 - 130
Acetone	ND		25.0	33.8		ug/L		135	10 - 150
Benzene	ND		25.0	24.9		ug/L		100	66 - 130
Dichlorobromomethane	ND		25.0	25.9		ug/L		104	70 - 138
Bromobenzene	ND		25.0	25.3		ug/L		101	70 - 130
Chlorobromomethane	ND		25.0	24.6		ug/L		98	70 - 130
Bromoform	ND		25.0	23.6		ug/L		95	59 - 150
Bromomethane	ND		25.0	26.4		ug/L		106	62 - 131
2-Butanone (MEK)	ND		25.0	28.7		ug/L		115	48 - 140
n-Butylbenzene	ND		25.0	26.3		ug/L		105	61 - 149
sec-Butylbenzene	ND		25.0	25.7		ug/L		103	67 - 134
tert-Butylbenzene	ND		25.0	25.0		ug/L		100	70 - 130
Carbon disulfide	ND		25.0	24.7		ug/L		99	49 - 140
Carbon tetrachloride	ND		25.0	23.2		ug/L		93	60 - 150
Chlorobenzene	ND		25.0	23.5		ug/L		94	70 - 130
Chloroethane	ND		25.0	27.1		ug/L		108	68 - 130
Chloroform	ND		25.0	25.5		ug/L		102	70 - 130
Chloromethane	ND		25.0	24.8		ug/L		99	39 - 144
2-Chlorotoluene	ND		25.0	25.8		ug/L		103	70 - 130
4-Chlorotoluene	ND		25.0	26.3		ug/L		105	70 - 130
Chlorodibromomethane	ND		25.0	24.6		ug/L		98	70 - 148
1,2-Dichlorobenzene	ND		25.0	24.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.9		ug/L		100	70 - 130
1,3-Dichloropropane	ND		25.0	26.4		ug/L		106	70 - 130
1,1-Dichloropropene	ND		25.0	24.4		ug/L		97	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	26.5		ug/L		106	48 - 140
Ethylene Dibromide	ND		25.0	24.8		ug/L		99	70 - 131
Dibromomethane	ND		25.0	23.6		ug/L		94	70 - 130
Dichlorodifluoromethane	ND		25.0	18.3		ug/L		73	25 - 142
1,1-Dichloroethane	ND		25.0	26.5		ug/L		106	65 - 130
1,2-Dichloroethane	ND		25.0	25.7		ug/L		103	56 - 146
1,1-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130
cis-1,2-Dichloroethene	ND		25.0	24.1		ug/L		96	70 - 130
trans-1,2-Dichloroethene	ND		25.0	24.5		ug/L		98	70 - 130
1,2-Dichloropropane	ND		25.0	28.7		ug/L		115	69 - 130
cis-1,3-Dichloropropene	ND		25.0	27.3		ug/L		109	70 - 133
trans-1,3-Dichloropropene	ND		25.0	27.4		ug/L		109	70 - 138
Ethylbenzene	ND		25.0	23.9		ug/L		96	70 - 130
Hexachlorobutadiene	ND		25.0	20.8		ug/L		83	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228335-A-22 MS
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND	F1 *	25.0	36.9		ug/L		147	10 - 150
Isopropylbenzene	ND		25.0	23.4		ug/L		93	70 - 132
4-Isopropyltoluene	ND		25.0	24.9		ug/L		99	70 - 130
Methylene Chloride	ND		25.0	23.7		ug/L		95	52 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1 *	25.0	35.6		ug/L		142	52 - 150
Naphthalene	ND		25.0	22.3		ug/L		89	60 - 140
N-Propylbenzene	ND		25.0	26.4		ug/L		106	66 - 135
Styrene	ND		25.0	22.8		ug/L		91	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	24.3		ug/L		97	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	28.4		ug/L		114	63 - 130
Tetrachloroethene	ND		25.0	21.7		ug/L		87	70 - 137
Toluene	ND		25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	21.9		ug/L		88	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	22.4		ug/L		90	60 - 140
1,1,1-Trichloroethane	ND		25.0	24.0		ug/L		96	70 - 130
1,1,2-Trichloroethane	ND		25.0	27.5		ug/L		110	70 - 130
Trichloroethene	ND		25.0	23.2		ug/L		93	70 - 130
Trichlorofluoromethane	ND		25.0	24.0		ug/L		96	60 - 150
1,2,3-Trichloropropane	ND		25.0	26.7		ug/L		107	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.3		ug/L		97	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	24.8		ug/L		99	70 - 130
Vinyl acetate	ND	*	25.0	34.2		ug/L		137	23 - 150
Vinyl chloride	ND		25.0	21.9		ug/L		88	50 - 137
m-Xylene & p-Xylene	ND		25.0	24.1		ug/L		96	70 - 133
o-Xylene	ND		25.0	23.6		ug/L		95	70 - 133
2,2-Dichloropropane	ND		25.0	24.1		ug/L		97	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-228335-A-22 MSD
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	24.5		ug/L		98	70 - 130	4	25
Acetone	ND		25.0	37.0		ug/L		148	10 - 150	9	35
Benzene	ND		25.0	24.0		ug/L		96	66 - 130	4	20
Dichlorobromomethane	ND		25.0	25.7		ug/L		103	70 - 138	1	20
Bromobenzene	ND		25.0	24.8		ug/L		99	70 - 130	2	20
Chlorobromomethane	ND		25.0	24.1		ug/L		97	70 - 130	2	25
Bromoform	ND		25.0	25.0		ug/L		100	59 - 150	6	25
Bromomethane	ND		25.0	25.7		ug/L		103	62 - 131	3	25
2-Butanone (MEK)	ND		25.0	27.3		ug/L		109	48 - 140	5	40
n-Butylbenzene	ND		25.0	25.3		ug/L		101	61 - 149	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228335-A-22 MSD
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	25.2		ug/L		101	67 - 134	2	20
tert-Butylbenzene	ND		25.0	24.2		ug/L		97	70 - 130	3	20
Carbon disulfide	ND		25.0	23.6		ug/L		94	49 - 140	4	20
Carbon tetrachloride	ND		25.0	22.2		ug/L		89	60 - 150	4	25
Chlorobenzene	ND		25.0	23.8		ug/L		95	70 - 130	1	20
Chloroethane	ND		25.0	26.6		ug/L		106	68 - 130	2	25
Chloroform	ND		25.0	25.0		ug/L		100	70 - 130	2	20
Chloromethane	ND		25.0	24.6		ug/L		98	39 - 144	1	25
2-Chlorotoluene	ND		25.0	25.6		ug/L		103	70 - 130	1	20
4-Chlorotoluene	ND		25.0	25.8		ug/L		103	70 - 130	2	20
Chlorodibromomethane	ND		25.0	25.6		ug/L		102	70 - 148	4	25
1,2-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	24.6		ug/L		99	70 - 130	0	20
1,4-Dichlorobenzene	ND		25.0	24.5		ug/L		98	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	27.4		ug/L		110	70 - 130	4	25
1,1-Dichloropropene	ND		25.0	23.4		ug/L		93	64 - 130	4	20
1,2-Dibromo-3-Chloropropane	ND		25.0	29.4		ug/L		118	48 - 140	11	30
Ethylene Dibromide	ND		25.0	25.8		ug/L		103	70 - 131	4	25
Dibromomethane	ND		25.0	23.5		ug/L		94	70 - 130	0	25
Dichlorodifluoromethane	ND		25.0	18.1		ug/L		72	25 - 142	1	30
1,1-Dichloroethane	ND		25.0	25.9		ug/L		104	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	25.7		ug/L		103	56 - 146	0	20
1,1-Dichloroethene	ND		25.0	24.0		ug/L		96	70 - 130	4	20
cis-1,2-Dichloroethene	ND		25.0	24.0		ug/L		96	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	24.4		ug/L		98	70 - 130	0	20
1,2-Dichloropropane	ND		25.0	28.2		ug/L		113	69 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	28.4		ug/L		114	70 - 133	4	20
trans-1,3-Dichloropropene	ND		25.0	28.1		ug/L		112	70 - 138	2	25
Ethylbenzene	ND		25.0	24.2		ug/L		97	70 - 130	1	20
Hexachlorobutadiene	ND		25.0	20.6		ug/L		82	10 - 150	1	20
2-Hexanone	ND	F1 *	25.0	40.4	F1	ug/L		161	10 - 150	9	35
Isopropylbenzene	ND		25.0	23.6		ug/L		94	70 - 132	1	20
4-Isopropyltoluene	ND		25.0	24.4		ug/L		97	70 - 130	2	20
Methylene Chloride	ND		25.0	24.1		ug/L		97	52 - 130	2	20
4-Methyl-2-pentanone (MIBK)	ND	F1 *	25.0	38.7	F1	ug/L		155	52 - 150	8	35
Naphthalene	ND		25.0	23.8		ug/L		95	60 - 140	7	30
N-Propylbenzene	ND		25.0	25.7		ug/L		103	66 - 135	2	20
Styrene	ND		25.0	21.7		ug/L		87	29 - 150	5	35
1,1,1,2-Tetrachloroethane	ND		25.0	25.2		ug/L		101	60 - 149	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	29.6		ug/L		118	63 - 130	4	30
Tetrachloroethene	ND		25.0	21.9		ug/L		88	70 - 137	1	20
Toluene	ND		25.0	23.7		ug/L		95	70 - 130	1	20
1,2,3-Trichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140	7	20
1,2,4-Trichlorobenzene	ND		25.0	22.9		ug/L		92	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	22.9		ug/L		92	70 - 130	4	20
1,1,2-Trichloroethane	ND		25.0	28.9		ug/L		116	70 - 130	5	25
Trichloroethene	ND		25.0	22.2		ug/L		89	70 - 130	4	20
Trichlorofluoromethane	ND		25.0	23.3		ug/L		93	60 - 150	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228335-A-22 MSD
Matrix: Water
Analysis Batch: 520246

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	28.5		ug/L		114	60 - 130	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.1		ug/L		93	60 - 140	5	20
1,2,4-Trimethylbenzene	ND		25.0	24.0		ug/L		96	70 - 130	3	25
1,3,5-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130	1	20
Vinyl acetate	ND	*	25.0	33.9		ug/L		135	23 - 150	1	30
Vinyl chloride	ND		25.0	21.5		ug/L		86	50 - 137	2	30
m-Xylene & p-Xylene	ND		25.0	24.0		ug/L		96	70 - 133	0	25
o-Xylene	ND		25.0	24.0		ug/L		96	70 - 133	1	20
2,2-Dichloropropane	ND		25.0	23.1		ug/L		92	69 - 138	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-520247/5
Matrix: Water
Analysis Batch: 520247

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/31/18 20:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*12/31/18 20:04*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/31/18 20:04*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*12/31/18 20:04*	*1*

Lab Sample ID: LCS 440-520247/7
Matrix: Water
Analysis Batch: 520247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	644		ug/L		129	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*76 - 132*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-228335-A-22 MS
Matrix: Water
Analysis Batch: 520247

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1730		ug/L		100	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-228335-A-22 MSD
Matrix: Water
Analysis Batch: 520247

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1740		ug/L		101	50 - 145	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-518961/1-A
Matrix: Water
Analysis Batch: 519273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Acenaphthene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Acenaphthylene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Fluorene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Phenanthrene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Anthracene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Chrysene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Fluoranthene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Pyrene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/23/18 08:41	12/26/18 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*107*		*21 - 120*	*12/23/18 08:41*	*12/26/18 10:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-518961/1-A
Matrix: Water
Analysis Batch: 519273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518961

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87		10 - 120	12/23/18 08:41	12/26/18 10:54	1
2-Fluorobiphenyl (Surr)	100		38 - 120	12/23/18 08:41	12/26/18 10:54	1

Lab Sample ID: LCS 440-518961/2-A
Matrix: Water
Analysis Batch: 519273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.770		ug/L		77	50 - 120
Acenaphthene	1.00	0.815		ug/L		82	55 - 120
Acenaphthylene	1.00	0.853		ug/L		85	53 - 120
Fluorene	1.00	0.893		ug/L		89	56 - 120
Phenanthrene	1.00	0.848		ug/L		85	56 - 120
Anthracene	1.00	0.834		ug/L		83	54 - 120
Benzo[a]anthracene	1.00	0.801		ug/L		80	53 - 120
Chrysene	1.00	0.843		ug/L		84	56 - 120
Benzo[a]pyrene	1.00	0.778		ug/L		78	44 - 120
Benzo[b]fluoranthene	1.00	0.800		ug/L		80	48 - 120
Benzo[k]fluoranthene	1.00	0.807		ug/L		81	47 - 121
Benzo[g,h,i]perylene	1.00	0.837		ug/L		84	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.799		ug/L		80	38 - 120
Fluoranthene	1.00	0.833		ug/L		83	59 - 120
Pyrene	1.00	0.846		ug/L		85	59 - 120
Dibenz(a,h)anthracene	1.00	0.839		ug/L		84	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	92		21 - 120
Nitrobenzene-d5	86		10 - 120
2-Fluorobiphenyl (Surr)	87		38 - 120

Lab Sample ID: LCSD 440-518961/3-A
Matrix: Water
Analysis Batch: 519273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518961

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.840		ug/L		84	50 - 120	9	35
Acenaphthene	1.00	0.934		ug/L		93	55 - 120	14	35
Acenaphthylene	1.00	0.976		ug/L		98	53 - 120	13	35
Fluorene	1.00	1.02		ug/L		102	56 - 120	13	35
Phenanthrene	1.00	0.984		ug/L		98	56 - 120	15	35
Anthracene	1.00	0.969		ug/L		97	54 - 120	15	35
Benzo[a]anthracene	1.00	0.951		ug/L		95	53 - 120	17	35
Chrysene	1.00	0.985		ug/L		98	56 - 120	15	35
Benzo[a]pyrene	1.00	0.931		ug/L		93	44 - 120	18	35
Benzo[b]fluoranthene	1.00	0.937		ug/L		94	48 - 120	16	35
Benzo[k]fluoranthene	1.00	0.971		ug/L		97	47 - 121	18	35
Benzo[g,h,i]perylene	1.00	0.992		ug/L		99	41 - 123	17	35
Indeno[1,2,3-cd]pyrene	1.00	0.974		ug/L		97	38 - 120	20	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-518961/3-A
Matrix: Water
Analysis Batch: 519273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518961

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene			1.00	0.994		ug/L		99	59 - 120	18	35
Pyrene			1.00	1.01		ug/L		101	59 - 120	18	35
Dibenz(a,h)anthracene			1.00	0.992		ug/L		99	38 - 122	17	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*114*		*21 - 120*
Nitrobenzene-d5	*94*		*10 - 120*
2-Fluorobiphenyl (Surr)	*103*		*38 - 120*

Lab Sample ID: MB 440-519311/1-A
Matrix: Water
Analysis Batch: 519590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Acenaphthene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Acenaphthylene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Fluorene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Phenanthrene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Anthracene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Chrysene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Fluoranthene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Pyrene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		12/26/18 11:19	12/27/18 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*99*		*21 - 120*	*12/26/18 11:19*	*12/27/18 12:40*	*1*
Nitrobenzene-d5	*68*		*10 - 120*	*12/26/18 11:19*	*12/27/18 12:40*	*1*
2-Fluorobiphenyl (Surr)	*76*		*38 - 120*	*12/26/18 11:19*	*12/27/18 12:40*	*1*

Lab Sample ID: LCS 440-519311/2-A
Matrix: Water
Analysis Batch: 519590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519311

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			1.02	0.748		ug/L		74	50 - 120		
Acenaphthene			1.02	0.862		ug/L		85	55 - 120		
Acenaphthylene			1.02	0.889		ug/L		88	53 - 120		
Fluorene			1.02	0.986		ug/L		97	56 - 120		
Phenanthrene			1.02	0.932		ug/L		92	56 - 120		
Anthracene			1.02	0.936		ug/L		92	54 - 120		
Benzo[a]anthracene			1.02	0.935		ug/L		92	53 - 120		

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-519311/2-A
Matrix: Water
Analysis Batch: 519590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519311

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chrysene			1.02	0.998		ug/L		98	56 - 120		
Benzo[a]pyrene			1.02	0.900		ug/L		89	44 - 120		
Benzo[b]fluoranthene			1.02	0.910		ug/L		90	48 - 120		
Benzo[k]fluoranthene			1.02	0.927		ug/L		91	47 - 121		
Benzo[g,h,i]perylene			1.02	1.00		ug/L		99	41 - 123		
Indeno[1,2,3-cd]pyrene			1.02	0.906		ug/L		89	38 - 120		
Fluoranthene			1.02	0.958		ug/L		94	59 - 120		
Pyrene			1.02	0.975		ug/L		96	59 - 120		
Dibenz(a,h)anthracene			1.02	1.01		ug/L		100	38 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*110*		*21 - 120*
Nitrobenzene-d5	*87*		*10 - 120*
2-Fluorobiphenyl (Surr)	*91*		*38 - 120*

Lab Sample ID: LCSD 440-519311/3-A
Matrix: Water
Analysis Batch: 519590

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 519311

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.02	0.639		ug/L		63	50 - 120	16	35
Acenaphthene			1.02	0.769		ug/L		76	55 - 120	11	35
Acenaphthylene			1.02	0.804		ug/L		79	53 - 120	10	35
Fluorene			1.02	0.892		ug/L		88	56 - 120	10	35
Phenanthrene			1.02	0.843		ug/L		83	56 - 120	10	35
Anthracene			1.02	0.842		ug/L		83	54 - 120	11	35
Benzo[a]anthracene			1.02	0.820		ug/L		81	53 - 120	13	35
Chrysene			1.02	0.853		ug/L		84	56 - 120	16	35
Benzo[a]pyrene			1.02	0.792		ug/L		78	44 - 120	13	35
Benzo[b]fluoranthene			1.02	0.789		ug/L		78	48 - 120	14	35
Benzo[k]fluoranthene			1.02	0.839		ug/L		83	47 - 121	10	35
Benzo[g,h,i]perylene			1.02	0.840		ug/L		83	41 - 123	18	35
Indeno[1,2,3-cd]pyrene			1.02	0.802		ug/L		79	38 - 120	12	35
Fluoranthene			1.02	0.884		ug/L		87	59 - 120	8	35
Pyrene			1.02	0.899		ug/L		89	59 - 120	8	35
Dibenz(a,h)anthracene			1.02	0.870		ug/L		86	38 - 122	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*96*		*21 - 120*
Nitrobenzene-d5	*72*		*10 - 120*
2-Fluorobiphenyl (Surr)	*76*		*38 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-519211/1-A
Matrix: Water
Analysis Batch: 519249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		12/26/18 06:09	12/26/18 20:38	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		12/26/18 06:09	12/26/18 20:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*83*		*45 - 120*	*12/26/18 06:09*	*12/26/18 20:38*	*1*

Lab Sample ID: LCS 440-519211/2-A
Matrix: Water
Analysis Batch: 519249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519211

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	756		ug/L		76	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*86*		*45 - 120*

Lab Sample ID: LCSD 440-519211/3-A
Matrix: Water
Analysis Batch: 519249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 519211

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	658		ug/L		66	40 - 115	14	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*75*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257584/1-A
Matrix: Water
Analysis Batch: 257643

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		12/26/18 09:30	12/26/18 20:07	1
Arsenic	ND		10	2.9	ug/L		12/26/18 09:30	12/26/18 20:07	1
Barium	ND		50	1.6	ug/L		12/26/18 09:30	12/26/18 20:07	1
Beryllium	ND		2.0	0.59	ug/L		12/26/18 09:30	12/26/18 20:07	1
Cadmium	ND		2.0	0.21	ug/L		12/26/18 09:30	12/26/18 20:07	1
Chromium	ND		10	0.70	ug/L		12/26/18 09:30	12/26/18 20:07	1
Cobalt	ND		2.0	0.68	ug/L		12/26/18 09:30	12/26/18 20:07	1
Copper	ND		20	3.7	ug/L		12/26/18 09:30	12/26/18 20:07	1
Lead	ND		5.0	2.2	ug/L		12/26/18 09:30	12/26/18 20:07	1
Molybdenum	ND		10	2.9	ug/L		12/26/18 09:30	12/26/18 20:07	1
Nickel	ND		10	1.0	ug/L		12/26/18 09:30	12/26/18 20:07	1
Selenium	ND		20	4.6	ug/L		12/26/18 09:30	12/26/18 20:07	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257584/1-A
Matrix: Water
Analysis Batch: 257643

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		5.0	2.0	ug/L		12/26/18 09:30	12/26/18 20:07	1
Thallium	ND		10	3.5	ug/L		12/26/18 09:30	12/26/18 20:07	1
Vanadium	1.05	J	10	0.87	ug/L		12/26/18 09:30	12/26/18 20:07	1
Zinc	ND		20	7.4	ug/L		12/26/18 09:30	12/26/18 20:07	1

Lab Sample ID: LCS 720-257584/2-A
Matrix: Water
Analysis Batch: 257643

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 257584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	938		ug/L		94	80 - 120
Arsenic	1000	960		ug/L		96	80 - 120
Barium	1000	928		ug/L		93	80 - 120
Beryllium	1000	905		ug/L		91	80 - 120
Cadmium	1000	974		ug/L		97	80 - 120
Chromium	1000	942		ug/L		94	80 - 120
Cobalt	1000	971		ug/L		97	80 - 120
Copper	1000	941		ug/L		94	80 - 120
Lead	1000	996		ug/L		100	80 - 120
Molybdenum	1000	954		ug/L		95	80 - 120
Nickel	1000	958		ug/L		96	80 - 120
Selenium	1000	994		ug/L		99	80 - 120
Silver	500	438		ug/L		88	80 - 120
Thallium	1000	1000		ug/L		100	80 - 120
Vanadium	1000	968		ug/L		97	80 - 120
Zinc	1000	986		ug/L		99	80 - 120

Lab Sample ID: 720-90445-I-8-A MS
Matrix: Water
Analysis Batch: 257643

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 257584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	914		ug/L		91	75 - 125
Arsenic	110		1000	1050		ug/L		95	75 - 125
Barium	390		1000	1300		ug/L		90	75 - 125
Beryllium	ND		1000	911		ug/L		91	75 - 125
Cadmium	ND		1000	906		ug/L		91	75 - 125
Chromium	3.1	J	1000	894		ug/L		89	75 - 125
Cobalt	11		1000	905		ug/L		89	75 - 125
Copper	4.6	J	1000	912		ug/L		91	75 - 125
Lead	ND		1000	905		ug/L		91	75 - 125
Molybdenum	5.3	J	1000	924		ug/L		92	75 - 125
Nickel	15		1000	888		ug/L		87	75 - 125
Selenium	ND		1000	960		ug/L		96	75 - 125
Silver	ND		500	426		ug/L		85	75 - 125
Thallium	7.3	J	1000	887		ug/L		88	75 - 125
Vanadium	2.3	J B	1000	936		ug/L		93	75 - 125
Zinc	20		1000	944		ug/L		92	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90445-I-8-B MSD
Matrix: Water
Analysis Batch: 257643

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 257584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	934		ug/L		93	75 - 125	2	20
Arsenic	110		1000	1080		ug/L		97	75 - 125	2	20
Barium	390		1000	1320		ug/L		93	75 - 125	2	20
Beryllium	ND		1000	923		ug/L		92	75 - 125	1	20
Cadmium	ND		1000	927		ug/L		93	75 - 125	2	20
Chromium	3.1	J	1000	915		ug/L		91	75 - 125	2	20
Cobalt	11		1000	925		ug/L		91	75 - 125	2	20
Copper	4.6	J	1000	920		ug/L		92	75 - 125	1	20
Lead	ND		1000	925		ug/L		92	75 - 125	2	20
Molybdenum	5.3	J	1000	939		ug/L		93	75 - 125	2	20
Nickel	15		1000	908		ug/L		89	75 - 125	2	20
Selenium	ND		1000	981		ug/L		98	75 - 125	2	20
Silver	ND		500	434		ug/L		87	75 - 125	2	20
Thallium	7.3	J	1000	902		ug/L		89	75 - 125	2	20
Vanadium	2.3	J B	1000	961		ug/L		96	75 - 125	3	20
Zinc	20		1000	959		ug/L		94	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-258067/1-A
Matrix: Water
Analysis Batch: 258092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/07/19 14:44	01/07/19 18:42	1

Lab Sample ID: LCS 720-258067/2-A
Matrix: Water
Analysis Batch: 258092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.86		ug/L		99	85 - 115

Lab Sample ID: 720-90478-1 MS
Matrix: Water
Analysis Batch: 258092

Client Sample ID: DG-AS3W
Prep Type: Dissolved
Prep Batch: 258067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.95		ug/L		100	75 - 125

Lab Sample ID: 720-90478-1 MSD
Matrix: Water
Analysis Batch: 258092

Client Sample ID: DG-AS3W
Prep Type: Dissolved
Prep Batch: 258067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.81		ug/L		98	75 - 125	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-257396/9
Matrix: Water
Analysis Batch: 257396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			12/20/18 21:19	1

Lab Sample ID: LCS 720-257396/10
Matrix: Water
Analysis Batch: 257396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	256		ug/L		102	90 - 110		

Lab Sample ID: LCSD 720-257396/11
Matrix: Water
Analysis Batch: 257396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	255		ug/L		102	90 - 110	0	20

Lab Sample ID: 720-90478-1 MS
Matrix: Water
Analysis Batch: 257396

Client Sample ID: DG-AS3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	256		ug/L		102	85 - 115		

Lab Sample ID: 720-90478-1 MSD
Matrix: Water
Analysis Batch: 257396

Client Sample ID: DG-AS3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	255		ug/L		102	85 - 115	0	20

GC/MS VOA

Analysis Batch: 520246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Total/NA	Water	8260B	
720-90478-2	DUP-18	Total/NA	Water	8260B	
720-90478-3	DG-AU3W	Total/NA	Water	8260B	
720-90478-4	DG-AX5W	Total/NA	Water	8260B	
720-90478-5	DG-AV5W	Total/NA	Water	8260B	
720-90478-6	DG-AT5W	Total/NA	Water	8260B	
720-90478-7	TB-12.20.18	Total/NA	Water	8260B	
720-90478-8	FB-12.20.18	Total/NA	Water	8260B	
720-90478-9	DG-AR5W	Total/NA	Water	8260B	
720-90478-10	DG-AP5W	Total/NA	Water	8260B	
720-90478-11	DG-AN5W	Total/NA	Water	8260B	
MB 440-520246/5	Method Blank	Total/NA	Water	8260B	
LCS 440-520246/6	Lab Control Sample	Total/NA	Water	8260B	
440-228335-A-22 MS	Matrix Spike	Total/NA	Water	8260B	
440-228335-A-22 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 520247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-2	DUP-18	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-3	DG-AU3W	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-4	DG-AX5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-5	DG-AV5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-6	DG-AT5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-7	TB-12.20.18	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-8	FB-12.20.18	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-9	DG-AR5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-10	DG-AP5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90478-11	DG-AN5W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-520247/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-520247/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-228335-A-22 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-228335-A-22 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 518961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 518961 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-2	DUP-18	Total/NA	Water	3520C	
720-90478-3	DG-AU3W	Total/NA	Water	3520C	
720-90478-4	DG-AX5W	Total/NA	Water	3520C	
720-90478-5	DG-AV5W	Total/NA	Water	3520C	
MB 440-518961/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-518961/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-518961/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 519273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-518961/1-A	Method Blank	Total/NA	Water	8270C SIM	518961
LCS 440-518961/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	518961
LCSD 440-518961/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	518961

Prep Batch: 519311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-6	DG-AT5W	Total/NA	Water	3520C	
720-90478-9	DG-AR5W	Total/NA	Water	3520C	
720-90478-10	DG-AP5W	Total/NA	Water	3520C	
720-90478-11	DG-AN5W	Total/NA	Water	3520C	
MB 440-519311/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-519311/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-519311/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 519590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-519311/1-A	Method Blank	Total/NA	Water	8270C SIM	519311
LCS 440-519311/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	519311
LCSD 440-519311/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	519311

Analysis Batch: 520151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Total/NA	Water	8270C SIM	518961
720-90478-2	DUP-18	Total/NA	Water	8270C SIM	518961
720-90478-3	DG-AU3W	Total/NA	Water	8270C SIM	518961
720-90478-4	DG-AX5W	Total/NA	Water	8270C SIM	518961
720-90478-5	DG-AV5W	Total/NA	Water	8270C SIM	518961
720-90478-6	DG-AT5W	Total/NA	Water	8270C SIM	519311
720-90478-9	DG-AR5W	Total/NA	Water	8270C SIM	519311
720-90478-10	DG-AP5W	Total/NA	Water	8270C SIM	519311
720-90478-11	DG-AN5W	Total/NA	Water	8270C SIM	519311

GC Semi VOA

Prep Batch: 519211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Total/NA	Water	3510C	
720-90478-2	DUP-18	Total/NA	Water	3510C	
720-90478-3	DG-AU3W	Total/NA	Water	3510C	
720-90478-4	DG-AX5W	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 519211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-5	DG-AV5W	Total/NA	Water	3510C	
720-90478-6	DG-AT5W	Total/NA	Water	3510C	
720-90478-9	DG-AR5W	Total/NA	Water	3510C	
720-90478-10	DG-AP5W	Total/NA	Water	3510C	
720-90478-11	DG-AN5W	Total/NA	Water	3510C	
MB 440-519211/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-519211/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-519211/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 519249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-519211/1-A	Method Blank	Total/NA	Water	8015B	519211
LCS 440-519211/2-A	Lab Control Sample	Total/NA	Water	8015B	519211
LCSD 440-519211/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	519211

Analysis Batch: 519777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Total/NA	Water	8015B	519211
720-90478-2	DUP-18	Total/NA	Water	8015B	519211
720-90478-3	DG-AU3W	Total/NA	Water	8015B	519211
720-90478-4	DG-AX5W	Total/NA	Water	8015B	519211
720-90478-5	DG-AV5W	Total/NA	Water	8015B	519211
720-90478-6	DG-AT5W	Total/NA	Water	8015B	519211
720-90478-10	DG-AP5W	Total/NA	Water	8015B	519211
720-90478-11	DG-AN5W	Total/NA	Water	8015B	519211

Analysis Batch: 520041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-9	DG-AR5W	Total/NA	Water	8015B	519211

Metals

Prep Batch: 257584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Dissolved	Water	3005A	
720-90478-2	DUP-18	Dissolved	Water	3005A	
720-90478-3	DG-AU3W	Dissolved	Water	3005A	
720-90478-4	DG-AX5W	Dissolved	Water	3005A	
720-90478-5	DG-AV5W	Dissolved	Water	3005A	
720-90478-6	DG-AT5W	Dissolved	Water	3005A	
720-90478-9	DG-AR5W	Dissolved	Water	3005A	
720-90478-10	DG-AP5W	Dissolved	Water	3005A	
720-90478-11	DG-AN5W	Dissolved	Water	3005A	
MB 720-257584/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-257584/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90445-I-8-A MS	Matrix Spike	Dissolved	Water	3005A	
720-90445-I-8-B MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Metals (Continued)

Analysis Batch: 257643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Dissolved	Water	6010B	257584
720-90478-2	DUP-18	Dissolved	Water	6010B	257584
720-90478-3	DG-AU3W	Dissolved	Water	6010B	257584
720-90478-4	DG-AX5W	Dissolved	Water	6010B	257584
720-90478-5	DG-AV5W	Dissolved	Water	6010B	257584
720-90478-6	DG-AT5W	Dissolved	Water	6010B	257584
720-90478-9	DG-AR5W	Dissolved	Water	6010B	257584
720-90478-10	DG-AP5W	Dissolved	Water	6010B	257584
720-90478-11	DG-AN5W	Dissolved	Water	6010B	257584
MB 720-257584/1-A	Method Blank	Total Recoverable	Water	6010B	257584
LCS 720-257584/2-A	Lab Control Sample	Total Recoverable	Water	6010B	257584
720-90445-I-8-A MS	Matrix Spike	Dissolved	Water	6010B	257584
720-90445-I-8-B MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	257584

Analysis Batch: 257667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-4	DG-AX5W	Dissolved	Water	6010B	257584

Prep Batch: 258067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Dissolved	Water	7470A	
720-90478-2	DUP-18	Dissolved	Water	7470A	
720-90478-3	DG-AU3W	Dissolved	Water	7470A	
720-90478-4	DG-AX5W	Dissolved	Water	7470A	
720-90478-5	DG-AV5W	Dissolved	Water	7470A	
720-90478-6	DG-AT5W	Dissolved	Water	7470A	
720-90478-9	DG-AR5W	Dissolved	Water	7470A	
720-90478-10	DG-AP5W	Dissolved	Water	7470A	
720-90478-11	DG-AN5W	Dissolved	Water	7470A	
MB 720-258067/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-258067/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90478-1 MS	DG-AS3W	Dissolved	Water	7470A	
720-90478-1 MSD	DG-AS3W	Dissolved	Water	7470A	

Analysis Batch: 258092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Dissolved	Water	7470A	258067
720-90478-2	DUP-18	Dissolved	Water	7470A	258067
720-90478-3	DG-AU3W	Dissolved	Water	7470A	258067
720-90478-4	DG-AX5W	Dissolved	Water	7470A	258067
720-90478-5	DG-AV5W	Dissolved	Water	7470A	258067
720-90478-6	DG-AT5W	Dissolved	Water	7470A	258067
720-90478-9	DG-AR5W	Dissolved	Water	7470A	258067
720-90478-10	DG-AP5W	Dissolved	Water	7470A	258067
720-90478-11	DG-AN5W	Dissolved	Water	7470A	258067
MB 720-258067/1-A	Method Blank	Total/NA	Water	7470A	258067
LCS 720-258067/2-A	Lab Control Sample	Total/NA	Water	7470A	258067
720-90478-1 MS	DG-AS3W	Dissolved	Water	7470A	258067
720-90478-1 MSD	DG-AS3W	Dissolved	Water	7470A	258067

General Chemistry

Analysis Batch: 257396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90478-1	DG-AS3W	Total/NA	Water	7196A	
720-90478-2	DUP-18	Total/NA	Water	7196A	
720-90478-3	DG-AU3W	Total/NA	Water	7196A	
720-90478-4	DG-AX5W	Total/NA	Water	7196A	
720-90478-5	DG-AV5W	Total/NA	Water	7196A	
720-90478-6	DG-AT5W	Total/NA	Water	7196A	
720-90478-9	DG-AR5W	Total/NA	Water	7196A	
720-90478-10	DG-AP5W	Total/NA	Water	7196A	
720-90478-11	DG-AN5W	Total/NA	Water	7196A	
MB 720-257396/9	Method Blank	Total/NA	Water	7196A	
LCS 720-257396/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-257396/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90478-1 MS	DG-AS3W	Total/NA	Water	7196A	
720-90478-1 MSD	DG-AS3W	Total/NA	Water	7196A	

Client Sample ID: DG-AS3W

Lab Sample ID: 720-90478-1

Date Collected: 12/20/18 08:30

Matrix: Water

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 02:03	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 02:03	JB	TAL IRV
Total/NA	Prep	3520C			518961	12/23/18 08:41	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	520151	12/31/18 15:49	HN	TAL IRV
Total/NA	Prep	3510C			519211	12/26/18 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 21:01	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 20:59	MAG	TAL PLS
Dissolved	Prep	7470A			258067	01/07/19 14:44	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258092	01/07/19 18:59	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257396	12/20/18 21:19	ECB	TAL PLS

Client Sample ID: DUP-18

Lab Sample ID: 720-90478-2

Date Collected: 12/20/18 00:00

Matrix: Water

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 02:27	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 02:27	JB	TAL IRV
Total/NA	Prep	3520C			518961	12/23/18 08:41	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	520151	12/31/18 16:13	HN	TAL IRV
Total/NA	Prep	3510C			519211	12/26/18 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 21:22	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 21:04	MAG	TAL PLS
Dissolved	Prep	7470A			258067	01/07/19 14:44	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258092	01/07/19 19:02	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257396	12/20/18 21:19	ECB	TAL PLS

Client Sample ID: DG-AU3W

Lab Sample ID: 720-90478-3

Date Collected: 12/20/18 09:20

Matrix: Water

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 02:50	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 02:50	JB	TAL IRV
Total/NA	Prep	3520C			518961	12/23/18 08:41	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	520151	12/31/18 16:38	HN	TAL IRV
Total/NA	Prep	3510C			519211	12/26/18 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 21:42	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 21:09	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AU3W

Date Collected: 12/20/18 09:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			258067	01/07/19 14:44	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258092	01/07/19 19:04	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257396	12/20/18 21:19	ECB	TAL PLS

Client Sample ID: DG-AX5W

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 03:14	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 03:14	JB	TAL IRV
Total/NA	Prep	3520C			518961	12/23/18 08:41	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	520151	12/31/18 17:02	HN	TAL IRV
Total/NA	Prep	3510C			519211	12/26/18 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 22:02	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 21:24	MAG	TAL PLS
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257667	12/27/18 10:48	MAG	TAL PLS
Dissolved	Prep	7470A			258067	01/07/19 14:44	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258092	01/07/19 19:11	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257396	12/20/18 21:19	ECB	TAL PLS

Client Sample ID: DG-AV5W

Date Collected: 12/20/18 11:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 03:38	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 03:38	JB	TAL IRV
Total/NA	Prep	3520C			518961	12/23/18 08:41	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	520151	12/31/18 17:26	HN	TAL IRV
Total/NA	Prep	3510C			519211	12/26/18 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 22:23	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 21:28	MAG	TAL PLS
Dissolved	Prep	7470A			258067	01/07/19 14:44	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258092	01/07/19 19:13	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257396	12/20/18 21:19	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AT5W

Date Collected: 12/20/18 11:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 04:02	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 04:02	JB	TAL IRV
Total/NA	Prep	3520C			519311	12/26/18 11:19	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	520151	12/31/18 13:23	HN	TAL IRV
Total/NA	Prep	3510C			519211	12/26/18 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 22:43	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 21:33	MAG	TAL PLS
Dissolved	Prep	7470A			258067	01/07/19 14:44	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258092	01/07/19 19:16	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257396	12/20/18 21:23	ECB	TAL PLS

Client Sample ID: TB-12.20.18

Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 04:26	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 04:26	JB	TAL IRV

Client Sample ID: FB-12.20.18

Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 04:50	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 04:50	JB	TAL IRV

Client Sample ID: DG-AR5W

Date Collected: 12/20/18 13:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 05:14	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 05:14	JB	TAL IRV
Total/NA	Prep	3520C			519311	12/26/18 11:19	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	520151	12/31/18 13:47	HN	TAL IRV
Total/NA	Prep	3510C			519211	12/26/18 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	520041	12/30/18 23:04	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 21:38	MAG	TAL PLS
Dissolved	Prep	7470A			258067	01/07/19 14:44	SUN	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Client Sample ID: DG-AR5W

Date Collected: 12/20/18 13:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	7470A		1	258092	01/07/19 19:18	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257396	12/20/18 21:23	ECB	TAL PLS

Client Sample ID: DG-AP5W

Date Collected: 12/20/18 14:28
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 05:37	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 05:37	JB	TAL IRV
Total/NA	Prep	3520C			519311	12/26/18 11:19	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	520151	12/31/18 12:34	HN	TAL IRV
Total/NA	Prep	3510C			519211	12/26/18 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 23:24	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 21:43	MAG	TAL PLS
Dissolved	Prep	7470A			258067	01/07/19 14:44	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258092	01/07/19 19:20	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257396	12/20/18 21:23	ECB	TAL PLS

Client Sample ID: DG-AN5W

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90478-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520246	01/01/19 06:01	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520247	01/01/19 06:01	JB	TAL IRV
Total/NA	Prep	3520C			519311	12/26/18 11:19	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	520151	12/31/18 12:58	HN	TAL IRV
Total/NA	Prep	3510C			519211	12/26/18 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	519777	12/28/18 20:20	MPD	TAL IRV
Dissolved	Prep	3005A			257584	12/26/18 09:30	MAA	TAL PLS
Dissolved	Analysis	6010B		1	257643	12/26/18 21:48	MAG	TAL PLS
Dissolved	Prep	7470A			258067	01/07/19 14:44	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258092	01/07/19 19:22	MAG	TAL PLS
Total/NA	Analysis	7196A		1	257396	12/20/18 21:23	ECB	TAL PLS

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90478-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90478-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90478-1	DG-AS3W	Water	12/20/18 08:30	12/20/18 19:10
720-90478-2	DUP-18	Water	12/20/18 00:00	12/20/18 19:10
720-90478-3	DG-AU3W	Water	12/20/18 09:20	12/20/18 19:10
720-90478-4	DG-AX5W	Water	12/20/18 10:15	12/20/18 19:10
720-90478-5	DG-AV5W	Water	12/20/18 11:00	12/20/18 19:10
720-90478-6	DG-AT5W	Water	12/20/18 11:35	12/20/18 19:10
720-90478-7	TB-12.20.18	Water	12/20/18 00:00	12/20/18 19:10
720-90478-8	FB-12.20.18	Water	12/20/18 00:00	12/20/18 19:10
720-90478-9	DG-AR5W	Water	12/20/18 13:30	12/20/18 19:10
720-90478-10	DG-AP5W	Water	12/20/18 14:28	12/20/18 19:10
720-90478-11	DG-AN5W	Water	12/20/18 15:15	12/20/18 19:10

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600.3002

720-90478

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-20-18	COC No 18750
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90478 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	
1	DG-AS3W	12/20/18	0830	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DUP-18	12/20/18	—	G	GW	9	Y		X	X	X	X	X	
3	DG-AU3W	12/20/18	0920	G	GW	9	Y		X	X	X	X	X	
4	DG-AX5W	12/20/18	1015	G	GW	9	Y		X	X	X	X	X	
5	DG-AV5W	12/20/18	1100	G	GW	9	Y		X	X	X	X	X	
6	DG-AT5W	12/20/18	1135	G	GW	9	Y		X	X	X	X	X	
7	TB	12/20/18		G	GW	2			X					
8	FB	12/20/18		G	GW	2			X					
9	DG-AR5W	12/20/18	1330	G	GW	9	Y		X	X	X	X	X	
10	DG-AP5W	12/20/18	1428	G	GW	9	N		X	X	X	X	X	
11	DG-AN5W	12/20/18	1515	G	GW	9	Y		X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
1.4, 1.0, 0.5, 3.5 °C
0.8, 1.3, 2.0, 1.1 °C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____	
Relinquished by	Company: Geosyntec	Date/Time: 12/20/18 1900	Received by	Company: TAPLS	Date/Time: 12/20/18 1600
Relinquished by	Company: TAPLS	Date/Time: 12/20/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TAPLS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

12/20/18

1/10/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0183	COC No: 720-40611.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90478-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AS3W (720-90478-1)	12/20/18	08:30 Pacific		Water			X	X	X	X	7	check for 2 phases
DUP-18 (720-90478-2)	12/20/18	Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AU3W (720-90478-3)	12/20/18	09:20 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AX5W (720-90478-4)	12/20/18	10:15 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AV5W (720-90478-5)	12/20/18	11.00 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AT5W (720-90478-6)	12/20/18	11:35 Pacific		Water			X	X	X	X	7	check for 2 phases
TB (720-90478-7)	12/20/18	Pacific		Water			X	X			2	check for 2 phases
FB (720-90478-8)	12/20/18	Pacific		Water			X	X			2	check for 2 phases
DG-AR5W (720-90478-9)	12/20/18	13.30 Pacific		Water			X	X	X	X	7	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed	**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Doreen Mullen	Date/Time: 12-21-18 1600	Company: Fhess	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by: Olga Cinelas	Date/Time: 12/22/18 1100	Company: TAL-PLV

Custody Seals Intact: ✓ Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.1 / 4.1 IR89

2.1/2.1 4.3/4.3 2.9/2.9

Ver: 09/20/2016

1/10/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40611 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90478-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AP5W (720-90478-10)	12/20/18	14:28 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AN5W (720-90478-11)	12/20/18	15:15 Pacific		Water			X	X	X	X	7	check for 2 phases

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12-21-18 1600	Company: Fed Ex	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

1/10/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90478-1

Login Number: 90478
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	False	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90478-1

Login Number: 90478
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/22/18 03:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90478-1

Login Number: 90478
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/22/18 03:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Bill Chen <BChen@Geosyntec.com>
Sent: Saturday, December 22, 2018 11:23 AM
To: Bondoc, Christian M.; Patel, Urvashi
Cc: Krzysztof Jesionek; Anthony Smith; Miranda Kahrilas
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90478-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Thanks for the response Urvashi.

Please run the samples, and notify us as soon as you can whether one of the VOAs with bubbles >1/4" diameter needs to be used.

Many thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

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From: Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Sent: Friday, December 21, 2018 5:01 PM
To: Bill Chen <BChen@Geosyntec.com>; Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Cc: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90478-1 Brisbane OU-2 Data Gap Investigation

Hello Bill,

Yes, if there is only one of the Voas with headspace then the lab will always analyze the ones without headspace. If too many of the vials have headspace from a single sample the lab will pick the container with the least bubbles and it will be noted in the report that the lab needed to analyze one of these.
In regards to your specific samples, we cannot tell if it reacted with the GW however I would recommend asking the field crew. If the GW reacted with the HCl then this would've happened in the field when the sample was taken.
Please let me know if you have any other questions.

Thank You,

SHIPPING ALERT: Christmas Holiday, Tuesday December 25th 2018 & New Year's Day, Tuesday January 1st 2019

For the upcoming Christmas holiday (observed Tuesday, December 25th) FedEx and UPS will not have scheduled service on Tuesday December 25th.

For the upcoming New Year's holiday (observed Tuesday, January 1st) FedEx and UPS will not have scheduled service on Tuesday January 1st.

If you have BODs sampled on December 19th , 20th , 27th or 28th or short hold samples arriving Monday December 24th , 31st or the weekend, we ask that you contact your Project Manager in advance to ensure your samples meet all holding time criteria.

We are thankful for your business and hope that you have a wonderful and safe holiday!

Christian Bondoc
Project Management Assistant

Test America
THE LEADER IN ENVIRONMENTAL TESTING

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Irvine, CA 92614
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Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback

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From: Bill Chen [mailto:BChen@Geosyntec.com]
Sent: Friday, December 21, 2018 4:29 PM
To: Bondoc, Christian M.; Patel, Urvashi
Cc: Krzysztof Jesionek; Anthony Smith; Miranda Kahrilas
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90478-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Christian, Urvashi,

Is it possible to run the analysis without using the voa with the ¼ inch bubble? Also, any way you can tell from inspection of this voa whether it looks like the HCL reacted with the GW?

We'll ask our staff to use labels on the blanks, and to name them appropriately on the COC to take the guesswork out. Otherwise, sample login has correctly logged in our samples.

Best,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Friday, December 21, 2018 2:45 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90478-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90478-1; Brisbane OU-2 Data Gap Investigation

There were no labels or sample IDs listed on the Trip Blank containers or the Field Blank containers. TB sample was distinguised by TA Pleasanton seal and FB sample was presumably the only sample set left. The samples were logged in per project format for sample ID. Please confirm that this is correct.

The following samples were received with headspace in the sample vials:
(#5) DG-AV5W 1of3 vials had an air bubble > 1/4".
(#10) DG-AP5W 1of3 vials had an air bubble > 1/4".
(#11) DG-AN5W 1of3 vials had an air bubble > 1/4".

We will proceed with all tests unless otherwise notified.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [490581]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90479-1
TestAmerica Sample Delivery Group: Brisbane OU2
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/31/2019 4:24:20 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
L	A negative instrument reading had an absolute value greater than the reporting limit
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90479-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90479-1

Comments
No additional comments.
Revision created to remove samples analyzed past the 7 day hold time for 8260B and CA_Luft per client request.

720-90479	9	DG-AV5S-3.5-4
720-90479	10	DG-AV5S-7.5-8
720-90479	11	DUP-35
720-90479	12	DG-AT5S-0.5-1
720-90479	13	DG-AT5S-3.5-4
720-90479	14	Dup-18
720-90479	18	DG-AP5S-3.5-4
720-90479	19	DG-AN5S-0.5-1
720-90479	20	DG-AN5S-3.5-4
720-90479	21	DG-S9S-7
720-90479	22	DG-S9S-4.5-5

Receipt
The samples were received on 12/20/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.5º C, 0.8º C, 1.0º C, 1.1º C, 1.3º C, 1.4º C, 2.0º C and 3.5º C.

GC/MS VOA

Method 8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following samples were above control limits: DG-AV5S-7.5-8 (720-90479-10), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22). Re-analyses were performed with concurring results. The re-analyses have been reported.

Method 8260B/CA_LUFTMS: Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following samples were below control limits: DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22). The sample(s) were re-analyzed with concurring results, and the re-analyses have been reported.

Method 8260B/CA_LUFTMS: The following samples were analyzed outside of analytical holding time due to method prep was logged in under 14 day hold time instead of 7 day hold time for terracores.
: DG-AV5S-7.5-8 (720-90479-10), DUP-35 (720-90479-11), DG-AT5S-0.5-1 (720-90479-12), DG-AT5S-3.5-4 (720-90479-13), DUP-18 (720-90479-14), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22).

Method 8260B/CA_LUFTMS: The following samples were analyzed outside of analytical holding time due to method prep was logged in under 14 day hold time instead of 7 day hold time for terracores.
: DG-AV5S-3.5-4 (720-90479-9), DG-AP5S-3.5-4 (720-90479-18), DG-AN5S-0.5-1 (720-90479-19) and DG-AN5S-3.5-4 (720-90479-20).

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519479 recovered above the upper control limit for 1,1-Dichloroethane and trans-1,2-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-519756 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a * symbol.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519967 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have

Job ID: 720-90479-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

been reported. The following samples are impacted: TB-122018 (720-90479-23) and (CCVIS 440-519967/2).

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with 519482 were outside control limits: (440-228439-F-1 MS) and (440-228439-F-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260B: The following samples were analyzed outside of analytical holding time due to method prep was logged in under 14 day hold time instead of 7 day hold time for terracores.
: DG-AV5S-7.5-8 (720-90479-10), DUP-35 (720-90479-11), DG-AT5S-0.5-1 (720-90479-12), DG-AT5S-3.5-4 (720-90479-13), DUP-18 (720-90479-14), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22).

Method 8260B: The following samples were analyzed outside of analytical holding time due to method prep was logged in under 14 day hold time instead of 7 day hold time for terracores.
: DG-AP5S-3.5-4 (720-90479-18), DG-AN5S-0.5-1 (720-90479-19) and DG-AN5S-3.5-4 (720-90479-20).

Method 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 (46.18%=50-200) response for the following sample was outside control limits: DG-S9S-7 (720-90479-21). The sample(s) was re-extracted and/or re-analyzed with concurring results. Affected sample results for these compounds have been qualified with a * symbol.

Method 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 (32.60%=50-200) response for the following sample was outside control limits: DG-S9S-4.5-5 (720-90479-22). The sample(s) was re-extracted and/or re-analyzed with concurring results. Affected sample results for these compounds have been qualified with a * symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C SIM: The method blank for preparation batch 720-257611 and analytical batch 720-257766 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-257660 and analytical batch 720-257766 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AS3S-3.5-4 (720-90479-2), DG-AS3S-8-8.5 (720-90479-3), DG-AU3S-0.5-1 (720-90479-4), DG-AV5S-0.5-1 (720-90479-8), DUP-35 (720-90479-11), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Internal standard responses were outside of acceptance limits for the following samples: (720-90479-E-8-D MS) and (720-90479-E-8-E MSD). The sample(s) shows evidence of matrix interference. Affected results are qualified with a * symbol.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257791 and analytical batch 720-257888 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The method blank for preparation batch 720-257791 and analytical batch 720-257858 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following analyte recovered outside control limits for the LCS associated with preparation batch 720-257791 and analytical batch 720-257888: Phenanthrene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported. Phenanthrene results for affected samples have been qualified with a * symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 720-90479-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

GC Semi VOA

Method 8081A: The continuing calibration verification (CCV) associated with batch 720-257557 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AS3S-0.5-1 (720-90479-1), DG-AS3S-3.5-4 (720-90479-2), DG-AS3S-8-8.5 (720-90479-3) and (MB 720-257432/1-A).

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257432 and analytical batch 720-257700 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257433 and analytical batch 720-257768 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: Surrogate recovery for the following sample was outside control limits: DUP-35 (720-90479-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The following sample has clear evidence of the presence of chlordane based on the presence of cis and trans chlordane; however, the chlordane peaks in the sample do not closely match the laboratory's Technical Chlordane standard: DUP-35 (720-90479-11). As a result, there is increased quantitative uncertainty associated with this result.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE & 4,4'-DDT for the following sample: DG-AV5S-0.5-1 (720-90479-8). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT for the following sample: DUP-35 (720-90479-11). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following sample: DG-AU3S-0.5-1 (720-90479-4). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: DUP-35 (720-90479-11), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: Surrogate DCB Decachlorobiphenyl recovery for the following sample was outside control limits: DUP-35 (720-90479-11). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed. Secondary surrogate (TCMX) recovery was within control limits, indicating that the extraction process was in control.

Method(s) 8082: Surrogate recovery for the following samples was outside control limits: DUP-35 (720-90479-11). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257874 was outside of control limits. Arsenic-236%, Barium-133%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257874 was outside control limits for Arsenic-17%, Barium-19%, Cobalt-37%, Chromium-21%, Nickle-21%, Lead-20%, Thallium-18%, Vanadium-22%: (720-90479-E-9-I SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257521 and analytical batch 720-257874 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 720-90479-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-257874 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected samples have been qualified with a ^ symbol.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AS3S-0.5-1 (720-90479-1), DG-AS3S-3.5-4 (720-90479-2), DG-AS3S-8-8.5 (720-90479-3), DG-AU3S-0.5-1 (720-90479-4), DG-AU3S-3.5-4 (720-90479-5), DG-AX5S-0.5-1 (720-90479-6), DG-AX5S-3.5-4 (720-90479-7), DG-AV5S-0.5-1 (720-90479-8), DG-AV5S-3.5-4 (720-90479-9), DG-AV5S-3.5-4 (720-90479-9[MS]), DG-AV5S-3.5-4 (720-90479-9[MSD]), DG-AV5S-7.5-8 (720-90479-10), DUP-35 (720-90479-11), DG-AT5S-0.5-1 (720-90479-12), DG-AT5S-3.5-4 (720-90479-13), DUP-18 (720-90479-14), DG-AR5S-0.5-1 (720-90479-15), (720-90479-E-9-I PDS) and (720-90479-E-9-I SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257547 and analytical batch 720-258031 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-258031 was outside of control limits. Cobalt-130%, Chromium-141%, Copper-151%, Molybdenum-128%, Nickel-131%, Lead-149%, Antimony-129%, Selenium-128%, Thallium-130%, Vanadium-140%, Zinc-193%, Silver-137%, Arsenic-129%, Barium-198%, Beryllium-135% and Cadmium-128%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258031 was outside control limits for Barium-26%, Cobalt-46%, Chromium-21%, Nickel-22%, Lead-22%, Vanadium-21% and Zinc-20%: (720-90481-A-17-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-S9S-4.5-5 (720-90479-22), (720-90481-A-17-C), (720-90481-A-17-A MS), (720-90481-A-17-B MSD), (720-90481-A-17-C PDS) and (720-90481-A-17-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257538 and analytical batch 720-258036 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-258036 was outside of control limits. Arsenic-127%, Barium-141%, Beryllium-129%, Chromium-132%, Copper-163%, Molybdenum-128%, Lead-143%, Vanadium-128% and Zinc-154%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258036 was outside control limits for Cobalt-19%, Chromium-22%, Copper-13%, Nickel-22%, Lead-17%, Vanadium-12% and Zinc-15%: (720-90480-A-14-I SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-AR5S-3.5-4 (720-90479-16), DG-AP5S-0.5-1 (720-90479-17), DG-AP5S-3.5-4 (720-90479-18), DG-AN5S-0.5-1 (720-90479-19), DG-AN5S-3.5-4 (720-90479-20) and (720-90480-A-14-I). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-257538 and analytical batch 720-258036 contained Barium, Chromium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258071 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-257547 and analytical batch 720-258071 contained Barium, Cadmium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following sample was diluted due to the abundance of non-target analytes: DG-AN5S-3.5-4 (720-90479-20). Elevated

Job ID: 720-90479-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Client Sample ID: DG-AS3S-0.5-1 — Lab Sample ID: 720-90479-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	6.8	J	10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.5	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	5.6		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	9.3		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	12		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	19	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	11		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	7.4		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	12		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.0	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	16		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	9.4		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.6		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	9.9		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	15		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	24		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	60		50	10	mg/Kg	1		8015B	Total/NA
Antimony	0.49	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	0.91	J	2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	57		1.4	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.087	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	9.1		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	7.6		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	110		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	36	^	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	5.2		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	70		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.081		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS3S-3.5-4 — Lab Sample ID: 720-90479-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	98		20	9.9	ug/Kg	2		8270C SIM	Total/NA
Acenaphthene	26		9.9	5.6	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	30		9.9	4.8	ug/Kg	2		8270C SIM	Total/NA
Anthracene	180		9.9	4.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	270		9.9	3.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	400		9.9	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	360	B	9.9	4.2	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	240		9.9	8.6	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	180		9.9	4.2	ug/Kg	2		8270C SIM	Total/NA
Chrysene	260		9.9	2.8	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	110		9.9	7.0	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	430		9.9	2.8	ug/Kg	2		8270C SIM	Total/NA
Fluorene	40		9.9	4.4	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	230		9.9	8.4	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	74		9.9	7.0	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	370		9.9	3.6	ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AS3S-3.5-4 (Continued) — Lab Sample ID: 720-90479-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	530		9.9	3.4	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	240		50	10	mg/Kg	1		8015B	Total/NA
Antimony	5.9		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	190		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	69		1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.23		0.21	0.067	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	21		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	8.4		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	130		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	120	^	1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	23		1.0	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.27	J	0.52	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	130		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS3S-8-8.5 — Lab Sample ID: 720-90479-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	5.0	J	9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	4.4	J	9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	6.5	J	9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	16		9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	25	B	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	9.1	J	9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	8.5	J	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	13		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	8.5	J	9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	15		9.8	6.9	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	18	*	9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	52		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	160		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	230		50	10	mg/Kg	1		8015B	Total/NA
Antimony	2.2		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	21		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	58		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.89		0.38	0.12	mg/Kg	4		6010B	Total/NA
Chromium	39		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	37		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	10	^	1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	35		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	74		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.088		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU3S-0.5-1 — Lab Sample ID: 720-90479-4

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AU3S-0.5-1 (Continued) — Lab Sample ID: 720-90479-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	15	J	20	10	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	24		10	4.8	ug/Kg	2		8270C SIM	Total/NA
Anthracene	41		10	4.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	90		10	3.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	160		10	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	240	B	10	4.2	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	62		10	8.6	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	89		10	4.2	ug/Kg	2		8270C SIM	Total/NA
Chrysene	120		10	2.8	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	23		10	7.0	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	49		10	2.8	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	59		10	8.4	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	21		10	7.0	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	29		10	3.6	ug/Kg	2		8270C SIM	Total/NA
Pyrene	58		10	3.4	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	41		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110		50	10	mg/Kg	1		8015B	Total/NA
4,4'-DDD	2.6		2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	0.79	J p	2.0	0.41	ug/Kg	1		8081A	Total/NA
Aroclor 1260	36	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	0.99	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	9.4		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	64		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.27	0.089	mg/Kg	4		6010B	Total/NA
Cadmium	0.28	J	0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	15		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	120		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	66	^	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	10		1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.18	J	0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	92		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	96		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU3S-3.5-4 — Lab Sample ID: 720-90479-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	45		10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	5.1		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	13		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	17		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	68		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	98		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	110	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	69		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	48		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	87		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	19		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AU3S-3.5-4 (Continued) — Lab Sample ID: 720-90479-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	83		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	13		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	58		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	23		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	91		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	110		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	140		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160		50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	0.79	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	79		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	290		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.48		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	19		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	6.4		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	43		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	61	^	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	22		1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.11	J	0.55	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	180		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.42		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX5S-0.5-1 — Lab Sample ID: 720-90479-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	160		49	27	ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	410		49	24	ug/Kg	10		8270C SIM	Total/NA
Anthracene	450		49	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	2300		49	15	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	4400		49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	5200	B	49	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	2300		49	42	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	1800		49	21	ug/Kg	10		8270C SIM	Total/NA
Chrysene	2500		49	14	ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	350		49	34	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	6300		49	14	ug/Kg	10		8270C SIM	Total/NA
Fluorene	120		49	22	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	2100		49	41	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	130		49	34	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	2700	*	49	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	8900		49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	47		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130		50	10	mg/Kg	1		8015B	Total/NA
Antimony	2.4		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	9.6		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	200		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.57		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.34	J	0.42	0.042	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AX5S-0.5-1 (Continued) — Lab Sample ID: 720-90479-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	44		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	69		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	220	^	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.24	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	42		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.56	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	230		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX5S-3.5-4 — Lab Sample ID: 720-90479-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2.1		1.7	0.87	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	5.7	J	9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	14		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	29		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	50		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	150		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	230		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	260	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	250		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	79		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	190		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	33		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	440		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	25		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	190		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	11		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	350		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	570		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.2		2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	2.3		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	64		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.90		0.31	0.10	mg/Kg	4		6010B	Total/NA
Chromium	39		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	49		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	12	^	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	38		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	83		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.096		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV5S-0.5-1 — Lab Sample ID: 720-90479-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	110		20	9.9	ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV5S-0.5-1 (Continued) — Lab Sample ID: 720-90479-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	8.7	J	9.9	5.5	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	34		9.9	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	92		9.9	4.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	120		9.9	3.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	130		9.9	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	210	B	9.9	4.2	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	120	F1	9.9	8.5	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	89		9.9	4.2	ug/Kg	2		8270C SIM	Total/NA
Chrysene	150		9.9	2.8	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	20	F1	9.9	6.9	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	210		9.9	2.8	ug/Kg	2		8270C SIM	Total/NA
Fluorene	6.8	J	9.9	4.4	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	59	F1	9.9	8.3	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	87		9.9	6.9	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	160	F1 *	9.9	3.6	ug/Kg	2		8270C SIM	Total/NA
Pyrene	220		9.9	3.4	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	120		4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	280		100	20	mg/Kg	2		8015B	Total/NA
4,4'-DDE	5.7	p	2.0	0.41	ug/Kg	1		8081A	Total/NA
4,4'-DDT	14	p	2.0	0.40	ug/Kg	1		8081A	Total/NA
Aroclor 1260	420		50	17	ug/Kg	1		8082	Total/NA
Antimony	5.0		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	240		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.45		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	51		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	300		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	290	^	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	3.5		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	48		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.70	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Silver	7.7		0.84	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	550		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	1.3		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV5S-3.5-4 — Lab Sample ID: 720-90479-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	2.8	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	6.5		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	6.6		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.7		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	10	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	7.4		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.1	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	7.0		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	13		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV5S-3.5-4 (Continued) — Lab Sample ID: 720-90479-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	8.5		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	4.3	J	5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	11		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.8		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	22	J	50	10	mg/Kg	1		8015B	Total/NA
Antimony	13	F1 F2	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	1400	F2	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	33	F1	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.33	F1	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.77		0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	24	F1	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	3.3		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	8.3	F1	5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	28	^ F1	1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	19	F1	1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.52	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Thallium	32		1.7	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	15	F1	1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	40	F1	5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.023		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV5S-7.5-8 — Lab Sample ID: 720-90479-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	2.0	J	4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.6	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	43	B	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.5		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.0	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	25		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	3.9	J	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	9.5		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.0		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	31	*	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.1		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.9		2.0	0.75	mg/Kg	1		8015B	Total/NA
Antimony	2.3		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	110		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	55		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	1.0		0.28	0.091	mg/Kg	4		6010B	Total/NA
Chromium	38		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	45		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	13		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.24	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	36		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	82		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.039		0.015	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Client Sample ID: DUP-35 — Lab Sample ID: 720-90479-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	140		50	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthene	430		25	14	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	84		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	640		25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	1000		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	970		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	1200	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	470		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	520		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	1100		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	120		25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	2000		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluorene	370		25	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	450		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	150		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	2100		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	2200		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	330		9.9	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	580		250	50	mg/Kg	5		8015B	Total/NA
4,4'-DDE	7.8		1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	21	p	1.9	0.39	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	12		1.9	0.38	ug/Kg	1		8081A	Total/NA
Chlordane (n.o.s.)	160		38	2.8	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	160		38	3.1	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	12		1.9	0.44	ug/Kg	1		8081A	Total/NA
Aroclor 1260 - DL	740		250	85	ug/Kg	5		8082	Total/NA
Antimony	5.8		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	15		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	190		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	3.0		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	100		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	480		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	420		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	12		1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	93		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.84	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Silver	1.2		0.61	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	720		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	1.0		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT5S-0.5-1 — Lab Sample ID: 720-90479-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	2.3	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	2.9	J B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.0		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	11	J	50	9.9	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample ID: DG-AT5S-0.5-1 (Continued) — Lab Sample ID: 720-90479-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.68	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	0.21	J	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	28		1.2	0.17	mg/Kg	4		6010B	Total/NA
Chromium	10		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	200		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	2.0		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	4.5		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	95		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	36		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.029		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT5S-3.5-4 — Lab Sample ID: 720-90479-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	13		10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	11		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	43		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	37		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	220		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	240		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	280	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	97		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	260		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	45		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	350		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	14		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	120		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	21		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	230		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	470		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	16		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	42	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	8.3		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	83		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	180		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.25		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.86		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	20		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	140		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	600		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.49	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	19		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	0.98		0.61	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	350		3.7	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Client Sample ID: DUP-18 — Lab Sample ID: 720-90479-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	11		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.9	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	7.5		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	15		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	16		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	26	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	11		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	11		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	19		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.1	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	27		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	9.9		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	12		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	18		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	25		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	25		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	65		50	10	mg/Kg	1		8015B	Total/NA
4,4'-DDE	2.6		1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	2.5		1.9	0.39	ug/Kg	1		8081A	Total/NA
Antimony	1.2	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	2.1	J	2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	47		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	0.31	J	0.32	0.031	mg/Kg	4		6010B	Total/NA
Chromium	14		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	110		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	59		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	11		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.70	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	91		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR5S-0.5-1 — Lab Sample ID: 720-90479-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	2.2	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	3.1	J B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.5	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	2.7	J	5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	2.7	J	5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.5	J	2.0	0.75	mg/Kg	1		8015B	Total/NA
Barium	39		1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	9.9		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	160		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	7.6		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	4.4		1.6	0.16	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR5S-0.5-1 (Continued) — Lab Sample ID: 720-90479-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	90		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	39		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.067		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR5S-3.5-4 — Lab Sample ID: 720-90479-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.2	J	9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	6.5		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	7.5		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	23		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	31		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	39	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	15		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	16		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	26		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	6.3		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	35		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.6	J	5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	14		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.1		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	21		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	42		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	16		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	43	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	0.69	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	18		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	180	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.48		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.33	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	89	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	39		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	70	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.49	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	140		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	75		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.088		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP5S-0.5-1 — Lab Sample ID: 720-90479-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	340		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.4	J	5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	7.4		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	13		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	16		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	19		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	33	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP5S-0.5-1 (Continued) — Lab Sample ID: 720-90479-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	12		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	11		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	21		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.2	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	33		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	8.9		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	240		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	66	*	5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	35		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	70		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	220		50	10	mg/Kg	1		8015B	Total/NA
Antimony	13		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	2.7	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	68	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.53		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	13	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	130		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	62	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	10		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	97		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	120		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP5S-3.5-4 — Lab Sample ID: 720-90479-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	5.6		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	6.7		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	8.8	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	6.0		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.9	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	4.6	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	7.6		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.4	J	5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	4.4	J	5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.2		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.3		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	11	J	50	10	mg/Kg	1		8015B	Total/NA
Antimony	0.82	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	19		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	59	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.23	J	0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	26	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	4.4		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	23		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	64	B	1.3	0.27	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP5S-3.5-4 (Continued) — Lab Sample ID: 720-90479-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	21		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	21		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	62		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.013	J	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN5S-0.5-1 — Lab Sample ID: 720-90479-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	4.2	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	11		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	13		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	20	B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	7.3		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.7		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	11		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	23		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.1		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	4.4	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	15		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	20		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	13		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	41	J	50	10	mg/Kg	1		8015B	Total/NA
4,4'-DDE	0.65	J	2.0	0.42	ug/Kg	1		8081A	Total/NA
Aroclor 1260	23	J	50	17	ug/Kg	1		8082	Total/NA
Arsenic	200	J	1500	120	mg/Kg	4		6010B	Total/NA
Barium	23000	B	730	100	mg/Kg	4		6010B	Total/NA
Beryllium	120	J	150	47	mg/Kg	4		6010B	Total/NA
Cadmium	51	J	180	18	mg/Kg	4		6010B	Total/NA
Chromium	4700	B	730	77	mg/Kg	4		6010B	Total/NA
Cobalt	4400		290	29	mg/Kg	4		6010B	Total/NA
Copper	62000		2200	1000	mg/Kg	4		6010B	Total/NA
Lead	4600	B	730	150	mg/Kg	4		6010B	Total/NA
Molybdenum	250	J	730	93	mg/Kg	4		6010B	Total/NA
Nickel	1800		730	74	mg/Kg	4		6010B	Total/NA
Vanadium	45000		730	99	mg/Kg	4		6010B	Total/NA
Zinc	18000		2200	920	mg/Kg	4		6010B	Total/NA
Mercury	0.071		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN5S-3.5-4 — Lab Sample ID: 720-90479-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	2.0	J	5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.6	J	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.7	J B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.5	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	2.0	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.1	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	2.9	J	5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	4.4	J	5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15		2.0	0.75	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AN5S-3.5-4 (Continued) — Lab Sample ID: 720-90479-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	36	J	50	9.9	mg/Kg	1		8015B	Total/NA
Arsenic	83		24	2.1	mg/Kg	40		6010B	Total/NA
Barium	810	B	6.1	0.86	mg/Kg	20		6010B	Total/NA
Chromium	6.4	J B	12	1.3	mg/Kg	40		6010B	Total/NA
Cobalt	10		4.8	0.48	mg/Kg	40		6010B	Total/NA
Copper	96		36	17	mg/Kg	40		6010B	Total/NA
Lead	5.2	J B	12	2.5	mg/Kg	40		6010B	Total/NA
Nickel	3.8	J	12	1.2	mg/Kg	40		6010B	Total/NA
Vanadium	81		12	1.6	mg/Kg	40		6010B	Total/NA
Zinc	36		36	15	mg/Kg	40		6010B	Total/NA
Mercury	0.031		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S9S-7 — Lab Sample ID: 720-90479-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	35		25	14	ug/Kg	5		8270C SIM	Total/NA
Anthracene	99		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	20	J	25	7.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	21	J	25	9.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	55	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	45		25	7.0	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	50		25	7.0	ug/Kg	5		8270C SIM	Total/NA
Fluorene	17	J	25	11	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	24	J	25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	120		25	9.0	ug/Kg	5		8270C SIM	Total/NA
Pyrene	92		25	8.5	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1900		40	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2700		1000	200	mg/Kg	20		8015B	Total/NA

Client Sample ID: DG-S9S-4.5-5 — Lab Sample ID: 720-90479-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	110	J	200	100	ug/Kg	20		8270C SIM	Total/NA
Acenaphthylene	58	J	100	48	ug/Kg	20		8270C SIM	Total/NA
Anthracene	210		100	40	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	98	J	100	30	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	220		100	38	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	420	B	100	42	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	140		100	86	ug/Kg	20		8270C SIM	Total/NA
Chrysene	330		100	28	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	310		100	28	ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	100		100	84	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	120		100	70	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	140		100	36	ug/Kg	20		8270C SIM	Total/NA
Pyrene	700		100	34	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3000		97	36	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	7300		2400	480	mg/Kg	50		8015B	Total/NA
Antimony	6.2		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	110		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	100	B	1.9	0.27	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S9S-4.5-5 (Continued)

Lab Sample ID: 720-90479-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.16	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	26	B	0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	29		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	210		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	500	B	1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	36		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	4500		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: TB-122018

Lab Sample ID: 720-90479-23

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AS3S-0.5-1

Date Collected: 12/20/18 08:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		90	63	ug/Kg		12/20/18 21:00	12/27/18 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*60 - 120*	*12/20/18 21:00*	*12/27/18 13:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*12/20/18 21:00*	*12/27/18 13:32*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/20/18 21:00*	*12/27/18 13:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,1,1-Trichloroethane	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.0	4.5	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,1,2-Trichloroethane	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,1-Dichloroethane	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,1-Dichloroethene	ND		1.8	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,1-Dichloropropene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,2,3-Trichlorobenzene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,2,3-Trichloropropane	ND		9.0	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,2,4-Trichlorobenzene	ND		4.5	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,2,4-Trimethylbenzene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,2-Dibromo-3-Chloropropane	ND		4.5	1.8	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,2-Dichlorobenzene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,2-Dichloroethane	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,2-Dichloropropane	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,3,5-Trimethylbenzene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,3-Dichlorobenzene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,3-Dichloropropane	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
1,4-Dichlorobenzene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
2,2-Dichloropropane	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
2-Butanone (MEK)	ND		9.0	4.5	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
2-Chlorotoluene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
2-Hexanone	ND		9.0	4.5	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
4-Chlorotoluene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
4-Isopropyltoluene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
4-Methyl-2-pentanone (MIBK)	ND		4.5	2.3	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Benzene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Bromobenzene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Bromoform	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Bromomethane	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Carbon disulfide	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Carbon tetrachloride	ND		1.8	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Chlorobenzene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Chlorobromomethane	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Chlorodibromomethane	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Chloroethane	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Chloroform	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Chloromethane	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
cis-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1

Client Sample ID: DG-AS3S-0.5-1

Date Collected: 12/20/18 08:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Dibromomethane	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Dichlorobromomethane	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Dichlorodifluoromethane	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Ethylbenzene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Ethylene Dibromide	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Hexachlorobutadiene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Isopropylbenzene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Methyl tert-butyl ether	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Methylene Chloride	ND		9.0	4.5	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Naphthalene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
n-Butylbenzene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
N-Propylbenzene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
sec-Butylbenzene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Styrene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
tert-Butylbenzene	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Tetrachloroethene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Toluene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
trans-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
trans-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Trichloroethene	ND		0.90	0.45	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Trichlorofluoromethane	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Vinyl acetate	ND		7.2	3.6	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Vinyl chloride	ND		1.8	0.90	ug/Kg		12/20/18 21:00	12/27/18 13:32	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		12/20/18 21:00	12/27/18 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*72*		*70 - 130*	*12/20/18 21:00*	*12/27/18 13:32*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/20/18 21:00*	*12/27/18 13:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**6.8**	**J**	10	5.0	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Acenaphthylene	**2.5**	**J**	5.0	2.4	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Anthracene	**5.6**		5.0	2.0	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Benzo[a]anthracene	**9.3**		5.0	1.5	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Benzo[a]pyrene	**12**		5.0	1.9	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Benzo[b]fluoranthene	**19**	**B**	5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Benzo[g,h,i]perylene	**11**		5.0	4.3	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Benzo[k]fluoranthene	**7.4**		5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Chrysene	**12**		5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Dibenz(a,h)anthracene	**4.0**	**J**	5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Fluoranthene	**16**		5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Fluorene	ND		5.0	2.2	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Indeno[1,2,3-cd]pyrene	**9.4**		5.0	4.2	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Naphthalene	**5.6**		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Phenanthrene	**9.9**		5.0	1.8	ug/Kg		12/27/18 09:33	12/31/18 12:23	1
Pyrene	**15**		5.0	1.7	ug/Kg		12/27/18 09:33	12/31/18 12:23	1

Client Sample ID: DG-AS3S-0.5-1

Date Collected: 12/20/18 08:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*33 - 120*	*12/27/18 09:33*	*12/31/18 12:23*	*1*
Terphenyl-d14	*89*		*35 - 146*	*12/27/18 09:33*	*12/31/18 12:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**24**		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 21:11	1
Motor Oil Range Organics [C24-C36]	**60**		50	10	mg/Kg		12/26/18 10:01	12/27/18 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*113*		*40 - 130*	*12/26/18 10:01*	*12/27/18 21:11*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Endrin	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:50	12/25/18 06:05	1
Toxaphene	ND		39	6.7	ug/Kg		12/21/18 09:50	12/25/18 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*21 - 136*	*12/21/18 09:50*	*12/25/18 06:05*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*12/21/18 09:50*	*12/25/18 06:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 18:51	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 18:51	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 18:51	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 18:51	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 18:51	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 18:51	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 18:51	1

Client Sample ID: DG-AS3S-0.5-1

Date Collected: 12/20/18 08:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*12/27/18 06:24*	*12/27/18 18:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.49**	**J**	1.4	0.24	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Arsenic	**0.91**	**J**	2.9	0.25	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Barium	**57**		1.4	0.21	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Beryllium	**0.14**	**J**	0.29	0.094	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Cadmium	**0.087**	**J**	0.36	0.036	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Chromium	**9.1**		1.4	0.15	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Cobalt	**7.6**		0.58	0.058	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Copper	**110**		4.3	2.1	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Lead	**36**	**^**	1.4	0.30	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Molybdenum	ND		1.4	0.19	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Nickel	**5.2**		1.4	0.15	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Selenium	ND		2.9	0.43	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Silver	ND		0.72	0.15	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Thallium	ND		1.4	0.42	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Vanadium	**73**		1.4	0.20	mg/Kg		12/28/18 08:51	01/02/19 11:04	4
Zinc	**70**		4.3	1.8	mg/Kg		12/28/18 08:51	01/02/19 11:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.081**		0.017	0.0025	mg/Kg		12/24/18 09:50	01/07/19 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AS3S-3.5-4

Date Collected: 12/20/18 09:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		59	41	ug/Kg		12/20/18 21:00	12/27/18 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*	*12/20/18 21:00*	*12/27/18 13:59*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*	*12/20/18 21:00*	*12/27/18 13:59*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*12/20/18 21:00*	*12/27/18 13:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,1,1-Trichloroethane	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.9	2.9	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,1,2-Trichloroethane	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,1-Dichloroethane	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,1-Dichloroethene	ND		1.2	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,1-Dichloropropene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,2,3-Trichlorobenzene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,2,3-Trichloropropane	ND		5.9	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,2,4-Trichlorobenzene	ND		2.9	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,2,4-Trimethylbenzene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,2-Dibromo-3-Chloropropane	ND		2.9	1.2	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,2-Dichlorobenzene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,2-Dichloroethane	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,2-Dichloropropane	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,3,5-Trimethylbenzene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,3-Dichlorobenzene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,3-Dichloropropane	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
1,4-Dichlorobenzene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
2,2-Dichloropropane	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
2-Butanone (MEK)	ND		5.9	2.9	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
2-Chlorotoluene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
2-Hexanone	ND		5.9	2.9	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
4-Chlorotoluene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
4-Isopropyltoluene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
4-Methyl-2-pentanone (MIBK)	ND		2.9	1.5	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Benzene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Bromobenzene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Bromoform	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Bromomethane	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Carbon disulfide	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Carbon tetrachloride	ND		1.2	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Chlorobenzene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Chlorobromomethane	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Chlorodibromomethane	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Chloroethane	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Chloroform	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Chloromethane	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
cis-1,2-Dichloroethene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1

Client Sample ID: DG-AS3S-3.5-4

Date Collected: 12/20/18 09:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Dibromomethane	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Dichlorobromomethane	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Dichlorodifluoromethane	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Ethylbenzene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Ethylene Dibromide	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Hexachlorobutadiene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Isopropylbenzene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Methyl tert-butyl ether	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Methylene Chloride	ND		5.9	2.9	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Naphthalene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
n-Butylbenzene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
N-Propylbenzene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
sec-Butylbenzene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Styrene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
tert-Butylbenzene	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Tetrachloroethene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Toluene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
trans-1,2-Dichloroethene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
trans-1,3-Dichloropropene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Trichloroethene	ND		0.59	0.29	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Trichlorofluoromethane	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Vinyl acetate	ND		4.7	2.3	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Vinyl chloride	ND		1.2	0.59	ug/Kg		12/20/18 21:00	12/27/18 13:59	1
Xylenes, Total	ND		1.2	0.76	ug/Kg		12/20/18 21:00	12/27/18 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*		*70 - 130*	*12/20/18 21:00*	*12/27/18 13:59*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*12/20/18 21:00*	*12/27/18 13:59*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**98**		20	9.9	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Acenaphthene	**26**		9.9	5.6	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Acenaphthylene	**30**		9.9	4.8	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Anthracene	**180**		9.9	4.0	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Benzo[a]anthracene	**270**		9.9	3.0	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Benzo[a]pyrene	**400**		9.9	3.8	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Benzo[b]fluoranthene	**360**	**B**	9.9	4.2	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Benzo[g,h,i]perylene	**240**		9.9	8.6	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Benzo[k]fluoranthene	**180**		9.9	4.2	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Chrysene	**260**		9.9	2.8	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Dibenz(a,h)anthracene	**110**		9.9	7.0	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Fluoranthene	**430**		9.9	2.8	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Fluorene	**40**		9.9	4.4	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Indeno[1,2,3-cd]pyrene	**230**		9.9	8.4	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Naphthalene	**74**		9.9	7.0	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Phenanthrene	**370**		9.9	3.6	ug/Kg		12/27/18 09:33	12/29/18 18:03	2
Pyrene	**530**		9.9	3.4	ug/Kg		12/27/18 09:33	12/29/18 18:03	2

Client Sample ID: DG-AS3S-3.5-4

Date Collected: 12/20/18 09:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*12/27/18 09:33*	*12/29/18 18:03*	*2*
Terphenyl-d14	*102*		*35 - 146*	*12/27/18 09:33*	*12/29/18 18:03*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 21:40	1
Motor Oil Range Organics [C24-C36]	**240**		50	10	mg/Kg		12/26/18 10:01	12/27/18 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*100*		*40 - 130*	*12/26/18 10:01*	*12/27/18 21:40*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Endrin	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:50	12/25/18 06:21	1
Toxaphene	ND		40	6.7	ug/Kg		12/21/18 09:50	12/25/18 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*	*p*	*21 - 136*	*12/21/18 09:50*	*12/25/18 06:21*	*1*
Tetrachloro-m-xylene	*83*		*21 - 145*	*12/21/18 09:50*	*12/25/18 06:21*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:04	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:04	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:04	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:04	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:04	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:04	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:04	1

Client Sample ID: DG-AS3S-3.5-4

Date Collected: 12/20/18 09:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*	*12/27/18 06:24*	*12/27/18 19:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.9**		1.0	0.17	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Arsenic	**190**		2.1	0.18	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Barium	**69**		1.0	0.15	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Beryllium	**0.23**		0.21	0.067	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Cadmium	**1.1**		0.26	0.026	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Chromium	**21**		1.0	0.11	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Cobalt	**8.4**		0.41	0.041	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Copper	**130**		3.1	1.5	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Lead	**120**	**^**	1.0	0.22	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Molybdenum	**0.19**	**J**	1.0	0.13	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Nickel	**23**		1.0	0.11	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Selenium	ND		2.1	0.31	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Silver	**0.27**	**J**	0.52	0.10	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Thallium	ND		1.0	0.30	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Vanadium	**47**		1.0	0.14	mg/Kg		12/28/18 08:51	01/02/19 11:09	4
Zinc	**130**		3.1	1.3	mg/Kg		12/28/18 08:51	01/02/19 11:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.015	0.0022	mg/Kg		12/24/18 09:50	01/07/19 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AS3S-8-8.5

Date Collected: 12/20/18 09:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	50	ug/Kg		12/20/18 21:00	12/27/18 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*	*12/20/18 21:00*	*12/27/18 14:27*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*12/20/18 21:00*	*12/27/18 14:27*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/20/18 21:00*	*12/27/18 14:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,2,4-Trichlorobenzene	ND		3.6	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,2,4-Trimethylbenzene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,3,5-Trimethylbenzene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
2,2-Dichloropropane	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
2-Butanone (MEK)	ND		7.2	3.6	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
2-Chlorotoluene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
2-Hexanone	ND		7.2	3.6	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
4-Chlorotoluene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
4-Isopropyltoluene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Benzene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Bromobenzene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Bromoform	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Bromomethane	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Chloroethane	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Chloroform	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Chloromethane	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1

Client Sample ID: DG-AS3S-8-8.5

Date Collected: 12/20/18 09:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Dibromomethane	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Hexachlorobutadiene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Naphthalene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
n-Butylbenzene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
N-Propylbenzene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
sec-Butylbenzene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Styrene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
tert-Butylbenzene	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Tetrachloroethene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Toluene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Trichloroethene	ND		0.72	0.36	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		12/20/18 21:00	12/27/18 14:27	1
Xylenes, Total	ND		1.4	0.94	ug/Kg		12/20/18 21:00	12/27/18 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*70 - 130*	*12/20/18 21:00*	*12/27/18 14:27*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/20/18 21:00*	*12/27/18 14:27*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		20	9.8	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Acenaphthene	ND		9.8	5.5	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Acenaphthylene	**5.0**	**J**	9.8	4.7	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Anthracene	**4.4**	**J**	9.8	3.9	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Benzo[a]anthracene	**6.5**	**J**	9.8	2.9	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Benzo[a]pyrene	**16**		9.8	3.7	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Benzo[b]fluoranthene	**25**	**B**	9.8	4.1	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Benzo[g,h,i]perylene	**9.1**	**J**	9.8	8.4	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Benzo[k]fluoranthene	**8.5**	**J**	9.8	4.1	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Chrysene	**13**		9.8	2.7	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Dibenz(a,h)anthracene	ND		9.8	6.9	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Fluoranthene	**8.5**	**J**	9.8	2.7	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Fluorene	ND		9.8	4.3	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Indeno[1,2,3-cd]pyrene	ND		9.8	8.2	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Naphthalene	**15**		9.8	6.9	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Phenanthrene	**18**	*	9.8	3.5	ug/Kg		12/31/18 09:05	01/03/19 03:13	2
Pyrene	**52**		9.8	3.3	ug/Kg		12/31/18 09:05	01/03/19 03:13	2

Client Sample ID: DG-AS3S-8-8.5

Date Collected: 12/20/18 09:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*33 - 120*	*12/31/18 09:05*	*01/03/19 03:13*	*2*
Terphenyl-d14	*94*		*35 - 146*	*12/31/18 09:05*	*01/03/19 03:13*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 22:09	1
Motor Oil Range Organics [C24-C36]	**230**		50	10	mg/Kg		12/26/18 10:01	12/27/18 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*99*		*40 - 130*	*12/26/18 10:01*	*12/27/18 22:09*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/21/18 09:50	12/25/18 06:38	1
Toxaphene	ND		39	6.6	ug/Kg		12/21/18 09:50	12/25/18 06:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*	*p*	*21 - 136*	*12/21/18 09:50*	*12/25/18 06:38*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*12/21/18 09:50*	*12/25/18 06:38*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:17	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:17	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:17	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:17	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:17	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:17	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:17	1

Client Sample ID: DG-AS3S-8-8.5

Date Collected: 12/20/18 09:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*12/27/18 06:24*	*12/27/18 19:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.2**		1.9	0.32	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Arsenic	**21**		3.8	0.32	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Barium	**58**		1.9	0.27	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Beryllium	**0.89**		0.38	0.12	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Cadmium	ND		0.48	0.047	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Chromium	**39**		1.9	0.20	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Cobalt	**11**		0.76	0.076	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Copper	**37**		5.7	2.7	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Lead	**10**	^	1.9	0.40	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Molybdenum	ND		1.9	0.24	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Nickel	**35**		1.9	0.19	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Selenium	ND		3.8	0.57	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Silver	ND		0.95	0.19	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Thallium	ND		1.9	0.55	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Vanadium	**47**		1.9	0.26	mg/Kg		12/28/18 08:51	01/02/19 11:13	4
Zinc	**74**		5.7	2.4	mg/Kg		12/28/18 08:51	01/02/19 11:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.088**		0.017	0.0025	mg/Kg		12/24/18 09:50	01/07/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.8**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AU3S-0.5-1

Date Collected: 12/20/18 09:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	60	ug/Kg		12/20/18 21:00	12/27/18 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*60 - 120*	*12/20/18 21:00*	*12/27/18 14:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*12/20/18 21:00*	*12/27/18 14:54*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/20/18 21:00*	*12/27/18 14:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,1,1-Trichloroethane	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.3	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,1,2-Trichloroethane	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,1-Dichloroethane	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,1-Dichloropropene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,2,4-Trichlorobenzene	ND		4.3	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,2-Dichlorobenzene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,2-Dichloroethane	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,2-Dichloropropane	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,3-Dichlorobenzene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,3-Dichloropropane	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
1,4-Dichlorobenzene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
2-Butanone (MEK)	ND		8.5	4.3	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
2-Hexanone	ND		8.5	4.3	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
4-Isopropyltoluene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Benzene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Bromobenzene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Bromoform	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Bromomethane	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Chlorobenzene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Chlorodibromomethane	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Chloroethane	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Chloroform	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Chloromethane	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
cis-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1

Client Sample ID: DG-AU3S-0.5-1

Date Collected: 12/20/18 09:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Dibromomethane	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Dichlorobromomethane	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Ethylbenzene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Ethylene Dibromide	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Isopropylbenzene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Methylene Chloride	ND		8.5	4.3	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Naphthalene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
N-Propylbenzene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Styrene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Tetrachloroethene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Toluene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
trans-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
trans-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Trichloroethene	ND		0.85	0.43	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		12/20/18 21:00	12/27/18 14:54	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/20/18 21:00	12/27/18 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 130*	*12/20/18 21:00*	*12/27/18 14:54*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/20/18 21:00*	*12/27/18 14:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**15**	**J**	20	10	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Acenaphthene	ND		10	5.6	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Acenaphthylene	**24**		10	4.8	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Anthracene	**41**		10	4.0	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Benzo[a]anthracene	**90**		10	3.0	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Benzo[a]pyrene	**160**		10	3.8	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Benzo[b]fluoranthene	**240**	**B**	10	4.2	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Benzo[g,h,i]perylene	**62**		10	8.6	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Benzo[k]fluoranthene	**89**		10	4.2	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Chrysene	**120**		10	2.8	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Dibenz(a,h)anthracene	**23**		10	7.0	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Fluoranthene	**49**		10	2.8	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Fluorene	ND		10	4.4	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Indeno[1,2,3-cd]pyrene	**59**		10	8.4	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Naphthalene	**21**		10	7.0	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Phenanthrene	**29**		10	3.6	ug/Kg		12/27/18 09:33	01/02/19 13:16	2
Pyrene	**58**		10	3.4	ug/Kg		12/27/18 09:33	01/02/19 13:16	2

Client Sample ID: DG-AU3S-0.5-1

Date Collected: 12/20/18 09:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-4

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		33 - 120	12/27/18 09:33	01/02/19 13:16	2
Terphenyl-d14	94		35 - 146	12/27/18 09:33	01/02/19 13:16	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**41**		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 22:38	1
Motor Oil Range Organics [C24-C36]	**110**		50	10	mg/Kg		12/26/18 10:01	12/27/18 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	106		40 - 130	12/26/18 10:01	12/27/18 22:38	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**2.6**		2.0	0.60	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
4,4'-DDE	**0.79**	**J p**	2.0	0.41	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Chlordane (technical)	ND		39	3.2	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Endrin	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:55	12/29/18 16:44	1
Toxaphene	ND		39	6.7	ug/Kg		12/21/18 09:55	12/29/18 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		21 - 136	12/21/18 09:55	12/29/18 16:44	1
Tetrachloro-m-xylene	85		21 - 145	12/21/18 09:55	12/29/18 16:44	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:31	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:31	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:31	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:31	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:31	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:31	1
Aroclor 1260	**36**	**J**	50	17	ug/Kg		12/27/18 06:24	12/27/18 19:31	1

Client Sample ID: DG-AU3S-0.5-1

Date Collected: 12/20/18 09:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*45 - 120*	*12/27/18 06:24*	*12/27/18 19:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.99**	**J**	1.4	0.23	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Arsenic	**9.4**		2.7	0.23	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Barium	**64**		1.4	0.19	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Beryllium	**0.11**	**J**	0.27	0.089	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Cadmium	**0.28**	**J**	0.34	0.034	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Chromium	**15**		1.4	0.15	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Cobalt	**10**		0.55	0.055	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Copper	**120**		4.1	2.0	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Lead	**66**	**^**	1.4	0.29	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Molybdenum	**0.20**	**J**	1.4	0.18	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Nickel	**10**		1.4	0.14	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Selenium	ND		2.7	0.41	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Silver	**0.18**	**J**	0.68	0.14	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Thallium	ND		1.4	0.40	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Vanadium	**92**		1.4	0.19	mg/Kg		12/28/18 08:51	01/02/19 11:18	4
Zinc	**96**		4.1	1.7	mg/Kg		12/28/18 08:51	01/02/19 11:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.016	0.0024	mg/Kg		12/24/18 09:50	01/07/19 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AU3S-3.5-4

Date Collected: 12/20/18 09:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	72	ug/Kg		12/20/18 21:00	12/27/18 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*12/20/18 21:00*	*12/27/18 15:22*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*12/20/18 21:00*	*12/27/18 15:22*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/20/18 21:00*	*12/27/18 15:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,1,1-Trichloroethane	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.1	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,1,2-Trichloroethane	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,1-Dichloroethane	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,1-Dichloroethene	ND		2.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,1-Dichloropropene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,2,4-Trichlorobenzene	ND		5.1	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,2-Dichlorobenzene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,2-Dichloroethane	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,2-Dichloropropane	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,3-Dichlorobenzene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,3-Dichloropropane	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
1,4-Dichlorobenzene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
2-Butanone (MEK)	ND		10	5.1	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
2-Hexanone	ND		10	5.1	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
4-Isopropyltoluene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.1	2.6	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Benzene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Bromobenzene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Bromoform	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Bromomethane	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Carbon disulfide	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Carbon tetrachloride	ND		2.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Chlorobenzene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Chlorodibromomethane	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Chloroethane	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Chloroform	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Chloromethane	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1

Client Sample ID: DG-AU3S-3.5-4

Date Collected: 12/20/18 09:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Dibromomethane	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Dichlorobromomethane	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Ethylbenzene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Ethylene Dibromide	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Isopropylbenzene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Methylene Chloride	ND		10	5.1	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Naphthalene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
N-Propylbenzene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Styrene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Tetrachloroethene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Toluene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
trans-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Trichloroethene	ND		1.0	0.51	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Vinyl acetate	ND		8.2	4.1	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Vinyl chloride	ND		2.0	1.0	ug/Kg		12/20/18 21:00	12/27/18 15:22	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		12/20/18 21:00	12/27/18 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*70 - 130*	*12/20/18 21:00*	*12/27/18 15:22*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*12/20/18 21:00*	*12/27/18 15:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**45**		10	5.0	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Acenaphthene	**5.1**		5.0	2.8	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Acenaphthylene	**13**		5.0	2.4	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Anthracene	**17**		5.0	2.0	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Benzo[a]anthracene	**68**		5.0	1.5	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Benzo[a]pyrene	**98**		5.0	1.9	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Benzo[b]fluoranthene	**110**	**B**	5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Benzo[g,h,i]perylene	**69**		5.0	4.3	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Benzo[k]fluoranthene	**48**		5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Chrysene	**87**		5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Dibenz(a,h)anthracene	**19**		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Fluoranthene	**83**		5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Fluorene	**13**		5.0	2.2	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Indeno[1,2,3-cd]pyrene	**58**		5.0	4.2	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Naphthalene	**23**		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Phenanthrene	**91**		5.0	1.8	ug/Kg		12/27/18 09:33	12/31/18 12:46	1
Pyrene	**110**		5.0	1.7	ug/Kg		12/27/18 09:33	12/31/18 12:46	1

Client Sample ID: DG-AU3S-3.5-4

Date Collected: 12/20/18 09:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*33 - 120*	*12/27/18 09:33*	*12/31/18 12:46*	*1*
Terphenyl-d14	*90*		*35 - 146*	*12/27/18 09:33*	*12/31/18 12:46*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 23:07	1
Motor Oil Range Organics [C24-C36]	**160**		50	9.9	mg/Kg		12/26/18 10:01	12/27/18 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*108*		*40 - 130*	*12/26/18 10:01*	*12/27/18 23:07*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Aldrin	ND		1.9	0.49	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
alpha-BHC	ND		1.9	0.54	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
delta-BHC	ND		1.9	0.43	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Endosulfan II	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Endrin	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Heptachlor	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/21/18 09:55	12/29/18 17:01	1
Toxaphene	ND		39	6.6	ug/Kg		12/21/18 09:55	12/29/18 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*21 - 136*	*12/21/18 09:55*	*12/29/18 17:01*	*1*
Tetrachloro-m-xylene	*95*		*21 - 145*	*12/21/18 09:55*	*12/29/18 17:01*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:44	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:44	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:44	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:44	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:44	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:44	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:44	1

Client Sample ID: DG-AU3S-3.5-4

Date Collected: 12/20/18 09:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*12/27/18 06:24*	*12/27/18 19:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.79**	**J**	1.1	0.18	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Arsenic	**79**		2.2	0.19	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Barium	**290**		1.1	0.16	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Beryllium	**0.48**		0.22	0.071	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Cadmium	**0.15**	**J**	0.27	0.027	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Chromium	**19**		1.1	0.12	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Cobalt	**6.4**		0.44	0.044	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Copper	**43**		3.3	1.6	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Lead	**61**	**^**	1.1	0.23	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Molybdenum	**0.26**	**J**	1.1	0.14	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Nickel	**22**		1.1	0.11	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Selenium	ND		2.2	0.33	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Silver	**0.11**	**J**	0.55	0.11	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Thallium	ND		1.1	0.32	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Vanadium	**28**		1.1	0.15	mg/Kg		12/28/18 08:51	01/02/19 11:22	4
Zinc	**180**		3.3	1.4	mg/Kg		12/28/18 08:51	01/02/19 11:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**		0.015	0.0022	mg/Kg		12/24/18 09:50	01/07/19 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AX5S-0.5-1

Date Collected: 12/20/18 10:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		110	76	ug/Kg		12/20/18 21:00	12/27/18 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*60 - 120*	*12/20/18 21:00*	*12/27/18 15:50*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*12/20/18 21:00*	*12/27/18 15:50*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*12/20/18 21:00*	*12/27/18 15:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,1,1-Trichloroethane	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,1,2,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.4	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,1,2-Trichloroethane	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,1-Dichloroethane	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,1-Dichloroethene	ND		2.2	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,1-Dichloropropene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,2,3-Trichlorobenzene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,2,4-Trichlorobenzene	ND		5.4	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,2,4-Trimethylbenzene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,2-Dibromo-3-Chloropropane	ND		5.4	2.2	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,2-Dichlorobenzene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,2-Dichloroethane	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,2-Dichloropropane	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,3,5-Trimethylbenzene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,3-Dichlorobenzene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,3-Dichloropropane	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
1,4-Dichlorobenzene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
2,2-Dichloropropane	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
2-Butanone (MEK)	ND		11	5.4	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
2-Chlorotoluene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
2-Hexanone	ND		11	5.4	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
4-Chlorotoluene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
4-Isopropyltoluene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.4	2.7	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Benzene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Bromobenzene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Bromoform	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Bromomethane	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Carbon disulfide	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Carbon tetrachloride	ND		2.2	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Chlorobenzene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Chlorobromomethane	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Chlorodibromomethane	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Chloroethane	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Chloroform	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Chloromethane	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
cis-1,2-Dichloroethene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1

Client Sample ID: DG-AX5S-0.5-1

Date Collected: 12/20/18 10:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Dibromomethane	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Dichlorobromomethane	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Dichlorodifluoromethane	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Ethylbenzene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Ethylene Dibromide	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Hexachlorobutadiene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Isopropylbenzene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Methyl tert-butyl ether	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Methylene Chloride	ND		11	5.4	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Naphthalene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
n-Butylbenzene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
N-Propylbenzene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
sec-Butylbenzene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Styrene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
tert-Butylbenzene	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Tetrachloroethene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Toluene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
trans-1,2-Dichloroethene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
trans-1,3-Dichloropropene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Trichloroethene	ND		1.1	0.54	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Trichlorofluoromethane	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Vinyl acetate	ND		8.6	4.3	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Vinyl chloride	ND		2.2	1.1	ug/Kg		12/20/18 21:00	12/27/18 15:50	1
Xylenes, Total	ND		2.2	1.4	ug/Kg		12/20/18 21:00	12/27/18 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*	*12/20/18 21:00*	*12/27/18 15:50*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*12/20/18 21:00*	*12/27/18 15:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		98	49	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Acenaphthene	**160**		49	27	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Acenaphthylene	**410**		49	24	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Anthracene	**450**		49	20	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Benzo[a]anthracene	**2300**		49	15	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Benzo[a]pyrene	**4400**		49	19	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Benzo[b]fluoranthene	**5200**	**B**	49	21	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Benzo[g,h,i]perylene	**2300**		49	42	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Benzo[k]fluoranthene	**1800**		49	21	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Chrysene	**2500**		49	14	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Dibenz(a,h)anthracene	**350**		49	34	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Fluoranthene	**6300**		49	14	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Fluorene	**120**		49	22	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Indeno[1,2,3-cd]pyrene	**2100**		49	41	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Naphthalene	**130**		49	34	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Phenanthrene	**2700**	*	49	18	ug/Kg		12/31/18 09:05	01/03/19 04:46	10
Pyrene	**8900**		49	17	ug/Kg		12/31/18 09:05	01/03/19 04:46	10

Client Sample ID: DG-AX5S-0.5-1

Date Collected: 12/20/18 10:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*12/31/18 09:05*	*01/03/19 04:46*	*10*
Terphenyl-d14	*99*		*35 - 146*	*12/31/18 09:05*	*01/03/19 04:46*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**47**		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 23:36	1
Motor Oil Range Organics [C24-C36]	**130**		50	10	mg/Kg		12/26/18 10:01	12/27/18 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*112*		*40 - 130*	*12/26/18 10:01*	*12/27/18 23:36*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:55	12/29/18 17:17	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:55	12/29/18 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*	*p*	*21 - 136*	*12/21/18 09:55*	*12/29/18 17:17*	*1*
Tetrachloro-m-xylene	*94*		*21 - 145*	*12/21/18 09:55*	*12/29/18 17:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:57	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:57	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:57	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:57	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:57	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:57	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 19:57	1

Client Sample ID: DG-AX5S-0.5-1

Date Collected: 12/20/18 10:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*12/27/18 06:24*	*12/27/18 19:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.4**		1.7	0.28	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Arsenic	**9.6**		3.4	0.29	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Barium	**200**		1.7	0.24	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Beryllium	**0.57**		0.34	0.11	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Cadmium	**0.34**	**J**	0.42	0.042	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Chromium	**44**		1.7	0.18	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Cobalt	**12**		0.67	0.067	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Copper	**69**		5.0	2.4	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Lead	**220**	**^**	1.7	0.35	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Molybdenum	**0.24**	**J**	1.7	0.22	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Nickel	**42**		1.7	0.17	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Selenium	**0.56**	**J**	3.4	0.50	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Silver	ND		0.84	0.17	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Thallium	ND		1.7	0.49	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Vanadium	**43**		1.7	0.23	mg/Kg		12/28/18 08:51	01/02/19 11:27	4
Zinc	**230**		5.0	2.1	mg/Kg		12/28/18 08:51	01/02/19 11:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.016	0.0024	mg/Kg		12/24/18 09:50	01/07/19 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AX5S-3.5-4

Date Collected: 12/20/18 10:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		87	61	ug/Kg		12/20/18 21:00	12/27/18 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*60 - 120*	*12/20/18 21:00*	*12/27/18 16:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*12/20/18 21:00*	*12/27/18 16:18*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/20/18 21:00*	*12/27/18 16:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,1,1-Trichloroethane	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.7	4.3	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,1,2-Trichloroethane	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,1-Dichloroethane	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,1-Dichloropropene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,2,3-Trichlorobenzene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,2,3-Trichloropropane	ND		8.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,2,4-Trichlorobenzene	ND		4.3	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,2,4-Trimethylbenzene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,2-Dichlorobenzene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,2-Dichloroethane	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,2-Dichloropropane	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,3,5-Trimethylbenzene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,3-Dichlorobenzene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,3-Dichloropropane	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
1,4-Dichlorobenzene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
2,2-Dichloropropane	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
2-Butanone (MEK)	ND		8.7	4.3	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
2-Chlorotoluene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
2-Hexanone	ND		8.7	4.3	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
4-Chlorotoluene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
4-Isopropyltoluene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.2	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Benzene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Bromobenzene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Bromoform	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Bromomethane	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Carbon disulfide	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Chlorobenzene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Chlorobromomethane	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Chlorodibromomethane	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Chloroethane	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Chloroform	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Chloromethane	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
cis-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1

Client Sample ID: DG-AX5S-3.5-4
Date Collected: 12/20/18 10:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Dibromomethane	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Dichlorobromomethane	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Dichlorodifluoromethane	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Ethylbenzene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Ethylene Dibromide	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Hexachlorobutadiene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Isopropylbenzene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Methyl tert-butyl ether	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Methylene Chloride	ND		8.7	4.3	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Naphthalene	**2.1**		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
n-Butylbenzene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
N-Propylbenzene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
sec-Butylbenzene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Styrene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
tert-Butylbenzene	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Tetrachloroethene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Toluene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
trans-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
trans-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Trichloroethene	ND		0.87	0.43	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Trichlorofluoromethane	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Vinyl acetate	ND		6.9	3.5	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Vinyl chloride	ND		1.7	0.87	ug/Kg		12/20/18 21:00	12/27/18 16:18	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/20/18 21:00	12/27/18 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*	*12/20/18 21:00*	*12/27/18 16:18*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*12/20/18 21:00*	*12/27/18 16:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.7**	**J**	9.9	5.0	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Acenaphthene	**14**		5.0	2.8	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Acenaphthylene	**29**		5.0	2.4	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Anthracene	**50**		5.0	2.0	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Benzo[a]anthracene	**150**		5.0	1.5	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Benzo[a]pyrene	**230**		5.0	1.9	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Benzo[b]fluoranthene	**260**	**B**	5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Benzo[g,h,i]perylene	**250**		5.0	4.3	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Benzo[k]fluoranthene	**79**		5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Chrysene	**190**		5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Dibenz(a,h)anthracene	**33**		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Fluoranthene	**440**		5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Fluorene	**25**		5.0	2.2	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Indeno[1,2,3-cd]pyrene	**190**		5.0	4.2	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Naphthalene	**11**		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Phenanthrene	**350**		5.0	1.8	ug/Kg		12/27/18 09:33	12/31/18 10:49	1
Pyrene	**570**		5.0	1.7	ug/Kg		12/27/18 09:33	12/31/18 10:49	1

Client Sample ID: DG-AX5S-3.5-4

Date Collected: 12/20/18 10:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*33 - 120*	*12/27/18 09:33*	*12/31/18 10:49*	*1*
Terphenyl-d14	*79*		*35 - 146*	*12/27/18 09:33*	*12/31/18 10:49*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.2**		2.0	0.75	mg/Kg		12/26/18 11:37	12/31/18 12:02	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/26/18 11:37	12/31/18 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*12/26/18 11:37*	*12/31/18 12:02*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.57	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Aldrin	ND		1.9	0.47	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Chlordane (n.o.s.)	ND		38	2.7	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Chlordane (technical)	ND		38	3.0	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
delta-BHC	ND		1.9	0.41	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Endosulfan I	ND		1.9	0.30	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Endosulfan II	ND		1.9	0.46	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Endrin	ND		1.9	0.43	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Endrin aldehyde	ND		1.9	0.59	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
gamma-BHC (Lindane)	ND		1.9	0.59	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Heptachlor	ND		1.9	0.43	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Methoxychlor	ND		1.9	0.64	ug/Kg		12/21/18 09:55	12/30/18 01:30	1
Toxaphene	ND		38	6.4	ug/Kg		12/21/18 09:55	12/30/18 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*118*		*21 - 136*	*12/21/18 09:55*	*12/30/18 01:30*	*1*
Tetrachloro-m-xylene	*89*		*21 - 145*	*12/21/18 09:55*	*12/30/18 01:30*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:11	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:11	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:11	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:11	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:11	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:11	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:11	1

Client Sample ID: DG-AX5S-3.5-4

Date Collected: 12/20/18 10:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*	*12/27/18 06:24*	*12/27/18 20:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.3**		1.6	0.26	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Arsenic	**14**		3.1	0.26	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Barium	**64**		1.6	0.22	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Beryllium	**0.90**		0.31	0.10	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Cadmium	ND		0.39	0.038	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Chromium	**39**		1.6	0.16	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Cobalt	**17**		0.62	0.062	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Copper	**49**		4.7	2.2	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Lead	**12**	^	1.6	0.33	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Molybdenum	ND		1.6	0.20	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Nickel	**38**		1.6	0.16	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Selenium	ND		3.1	0.47	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Silver	ND		0.78	0.16	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Thallium	ND		1.6	0.45	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Vanadium	**45**		1.6	0.21	mg/Kg		12/28/18 08:51	01/02/19 11:32	4
Zinc	**83**		4.7	2.0	mg/Kg		12/28/18 08:51	01/02/19 11:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.096**		0.014	0.0021	mg/Kg		12/24/18 09:50	01/07/19 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AV5S-0.5-1

Date Collected: 12/20/18 11:10
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		12/20/18 21:00	12/27/18 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*60 - 120*	*12/20/18 21:00*	*12/27/18 16:45*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*12/20/18 21:00*	*12/27/18 16:45*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/20/18 21:00*	*12/27/18 16:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,1,1-Trichloroethane	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.2	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,1,2-Trichloroethane	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,1-Dichloroethane	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,1-Dichloropropene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,2,4-Trichlorobenzene	ND		4.2	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,2-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,2-Dichloroethane	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,2-Dichloropropane	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,3-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,3-Dichloropropane	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
1,4-Dichlorobenzene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
2-Butanone (MEK)	ND		8.3	4.2	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
2-Hexanone	ND		8.3	4.2	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
4-Isopropyltoluene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Benzene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Bromobenzene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Bromoform	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Bromomethane	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Carbon disulfide	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Chlorobenzene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Chlorodibromomethane	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Chloroethane	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Chloroform	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Chloromethane	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
cis-1,2-Dichloroethene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1

Client Sample ID: DG-AV5S-0.5-1
Date Collected: 12/20/18 11:10
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Dibromomethane	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Dichlorobromomethane	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Ethylbenzene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Ethylene Dibromide	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Isopropylbenzene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Methyl tert-butyl ether	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Methylene Chloride	ND		8.3	4.2	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Naphthalene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
N-Propylbenzene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Styrene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Tetrachloroethene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Toluene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
trans-1,2-Dichloroethene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
trans-1,3-Dichloropropene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Trichloroethene	ND		0.83	0.42	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Vinyl acetate	ND		6.7	3.3	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		12/20/18 21:00	12/27/18 16:45	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		12/20/18 21:00	12/27/18 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*	*12/20/18 21:00*	*12/27/18 16:45*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*12/20/18 21:00*	*12/27/18 16:45*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**110**		20	9.9	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Acenaphthene	**8.7**	**J**	9.9	5.5	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Acenaphthylene	**34**		9.9	4.7	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Anthracene	**92**		9.9	4.0	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Benzo[a]anthracene	**120**		9.9	3.0	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Benzo[a]pyrene	**130**		9.9	3.8	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Benzo[b]fluoranthene	**210**	**B**	9.9	4.2	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Benzo[g,h,i]perylene	**120**	**F1**	9.9	8.5	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Benzo[k]fluoranthene	**89**		9.9	4.2	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Chrysene	**150**		9.9	2.8	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Dibenz(a,h)anthracene	**20**	**F1**	9.9	6.9	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Fluoranthene	**210**		9.9	2.8	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Fluorene	**6.8**	**J**	9.9	4.4	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Indeno[1,2,3-cd]pyrene	**59**	**F1**	9.9	8.3	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Naphthalene	**87**		9.9	6.9	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Phenanthrene	**160**	**F1 ***	9.9	3.6	ug/Kg		12/31/18 09:05	01/03/19 03:36	2
Pyrene	**220**		9.9	3.4	ug/Kg		12/31/18 09:05	01/03/19 03:36	2

Client Sample ID: DG-AV5S-0.5-1

Date Collected: 12/20/18 11:10
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-8

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		33 - 120	12/31/18 09:05	01/03/19 03:36	2
Terphenyl-d14	94		35 - 146	12/31/18 09:05	01/03/19 03:36	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**120**		4.0	1.5	mg/Kg		12/26/18 11:37	12/31/18 12:59	2
Motor Oil Range Organics [C24-C36]	**280**		100	20	mg/Kg		12/26/18 11:37	12/31/18 12:59	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	65		40 - 130	12/26/18 11:37	12/31/18 12:59	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
4,4'-DDE	**5.7**	**p**	2.0	0.41	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
4,4'-DDT	**14**	**p**	2.0	0.40	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Chlordane (technical)	ND		39	3.2	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Endrin	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:55	12/30/18 01:47	1
Toxaphene	ND		39	6.7	ug/Kg		12/21/18 09:55	12/30/18 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	133		21 - 136	12/21/18 09:55	12/30/18 01:47	1
Tetrachloro-m-xylene	105		21 - 145	12/21/18 09:55	12/30/18 01:47	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:24	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:24	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:24	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:24	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:24	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:24	1
Aroclor 1260	**420**		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:24	1

Client Sample ID: DG-AV5S-0.5-1

Date Collected: 12/20/18 11:10
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*12/27/18 06:24*	*12/27/18 20:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.0**		1.7	0.28	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Arsenic	**12**		3.4	0.29	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Barium	**240**		1.7	0.24	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Beryllium	**0.45**		0.34	0.11	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Cadmium	**1.6**		0.42	0.042	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Chromium	**51**		1.7	0.18	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Cobalt	**9.4**		0.67	0.067	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Copper	**300**		5.0	2.4	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Lead	**290**	**^**	1.7	0.35	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Molybdenum	**3.5**		1.7	0.22	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Nickel	**48**		1.7	0.17	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Selenium	**0.70**	**J**	3.4	0.50	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Silver	**7.7**		0.84	0.17	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Thallium	ND		1.7	0.49	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Vanadium	**38**		1.7	0.23	mg/Kg		12/28/18 08:51	01/02/19 11:36	4
Zinc	**550**		5.0	2.1	mg/Kg		12/28/18 08:51	01/02/19 11:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.3**		0.015	0.0023	mg/Kg		12/24/18 09:50	01/07/19 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.1**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AV5S-3.5-4

Date Collected: 12/20/18 11:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-9

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Acenaphthylene	**2.8**	**J**	5.0	2.4	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Anthracene	**6.5**		5.0	2.0	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Benzo[a]anthracene	**6.6**		5.0	1.5	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Benzo[a]pyrene	**5.7**		5.0	1.9	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Benzo[b]fluoranthene	**10**	**B**	5.0	2.1	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Benzo[g,h,i]perylene	**7.4**		5.0	4.3	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Benzo[k]fluoranthene	**4.1**	**J**	5.0	2.1	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Chrysene	**7.0**		5.0	1.4	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Fluoranthene	**13**		5.0	1.4	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Fluorene	ND		5.0	2.2	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Naphthalene	**8.5**		5.0	3.5	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Phenanthrene	**4.3**	**J**	5.0	1.8	ug/Kg		12/27/18 09:33	12/29/18 00:07	1
Pyrene	**11**		5.0	1.7	ug/Kg		12/27/18 09:33	12/29/18 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*33 - 120*	*12/27/18 09:33*	*12/29/18 00:07*	*1*
Terphenyl-d14	*86*		*35 - 146*	*12/27/18 09:33*	*12/29/18 00:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.8**		2.0	0.75	mg/Kg		12/26/18 11:37	12/29/18 17:12	1
Motor Oil Range Organics [C24-C36]	**22**	**J**	50	10	mg/Kg		12/26/18 11:37	12/29/18 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*40 - 130*	*12/26/18 11:37*	*12/29/18 17:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1	1.9	0.59	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Aldrin	ND		1.9	0.49	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
alpha-BHC	ND		1.9	0.54	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
delta-BHC	ND		1.9	0.43	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Endosulfan II	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Endrin	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:55	12/29/18 16:27	1

Client Sample ID: DG-AV5S-3.5-4

Date Collected: 12/20/18 11:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-9

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Heptachlor	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/21/18 09:55	12/29/18 16:27	1
Toxaphene	ND		39	6.6	ug/Kg		12/21/18 09:55	12/29/18 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*21 - 136*	*12/21/18 09:55*	*12/29/18 16:27*	*1*
Tetrachloro-m-xylene	*91*		*21 - 145*	*12/21/18 09:55*	*12/29/18 16:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:37	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:37	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:37	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:37	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:37	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:37	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*	*12/27/18 06:24*	*12/27/18 20:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**13**	**F1 F2**	1.7	0.28	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Arsenic	**1400**	**F2**	3.3	0.28	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Barium	**33**	**F1**	1.7	0.24	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Beryllium	**0.33**	**F1**	0.33	0.11	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Cadmium	**0.77**		0.42	0.041	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Chromium	**24**	**F1**	1.7	0.18	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Cobalt	**3.3**		0.67	0.067	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Copper	**8.3**	**F1**	5.0	2.4	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Lead	**28**	**^ F1**	1.7	0.35	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Molybdenum	ND		1.7	0.21	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Nickel	**19**	**F1**	1.7	0.17	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Selenium	**0.52**	**J**	3.3	0.50	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Silver	ND	F1	0.83	0.17	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Thallium	**32**		1.7	0.48	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Vanadium	**15**	**F1**	1.7	0.23	mg/Kg		12/28/18 08:51	01/02/19 10:27	4
Zinc	**40**	**F1**	5.0	2.1	mg/Kg		12/28/18 08:51	01/02/19 10:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.014	0.0021	mg/Kg		12/24/18 09:50	01/07/19 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.5**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AV5S-7.5-8

Date Collected: 12/20/18 11:45
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-10

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Acenaphthene	ND		4.9	2.8	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Anthracene	ND		4.9	2.0	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Benzo[a]anthracene	**2.0**	**J**	4.9	1.5	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Benzo[a]pyrene	**4.6**	**J**	4.9	1.9	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Benzo[b]fluoranthene	**43**	**B**	4.9	2.1	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Benzo[g,h,i]perylene	**5.5**		4.9	4.2	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Benzo[k]fluoranthene	**4.0**	**J**	4.9	2.1	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Chrysene	**25**		4.9	1.4	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Dibenz(a,h)anthracene	**3.9**	**J**	4.9	3.4	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Fluoranthene	**9.5**		4.9	1.4	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Fluorene	ND		4.9	2.2	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Naphthalene	**5.0**		4.9	3.4	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Phenanthrene	**31**	*	4.9	1.8	ug/Kg		12/31/18 09:05	01/02/19 14:58	1
Pyrene	**8.1**		4.9	1.7	ug/Kg		12/31/18 09:05	01/02/19 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*33 - 120*	*12/31/18 09:05*	*01/02/19 14:58*	*1*
Terphenyl-d14	*75*		*35 - 146*	*12/31/18 09:05*	*01/02/19 14:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.9**		2.0	0.75	mg/Kg		12/26/18 11:37	12/31/18 12:30	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/26/18 11:37	12/31/18 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*93*		*40 - 130*	*12/26/18 11:37*	*12/31/18 12:30*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Chlordane (technical)	ND		38	3.1	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/30/18 02:06	1

Client Sample ID: DG-AV5S-7.5-8

Date Collected: 12/20/18 11:45
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-10

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/21/18 09:55	12/30/18 02:06	1
Toxaphene	ND		38	6.5	ug/Kg		12/21/18 09:55	12/30/18 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*21 - 136*	*12/21/18 09:55*	*12/30/18 02:06*	*1*
Tetrachloro-m-xylene	*88*		*21 - 145*	*12/21/18 09:55*	*12/30/18 02:06*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:51	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:51	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:51	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:51	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:51	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:51	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*12/27/18 06:24*	*12/27/18 20:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.3**		1.4	0.23	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Arsenic	**110**		2.8	0.24	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Barium	**55**		1.4	0.20	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Beryllium	**1.0**		0.28	0.091	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Cadmium	ND		0.35	0.035	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Chromium	**38**		1.4	0.15	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Cobalt	**19**		0.56	0.056	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Copper	**45**		4.2	2.0	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Lead	**13**		1.4	0.29	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Molybdenum	**0.24**	**J**	1.4	0.18	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Nickel	**36**		1.4	0.14	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Selenium	ND		2.8	0.42	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Silver	ND		0.70	0.14	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Thallium	ND		1.4	0.41	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Vanadium	**48**		1.4	0.19	mg/Kg		12/28/18 08:51	01/02/19 11:50	4
Zinc	**82**		4.2	1.8	mg/Kg		12/28/18 08:51	01/02/19 11:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.015	0.0021	mg/Kg		12/24/18 09:50	01/07/19 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DUP-35

Date Collected: 12/20/18 00:01
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-11

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	140		50	25	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Acenaphthene	430		25	14	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Acenaphthylene	84		25	12	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Anthracene	640		25	9.9	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Benzo[a]anthracene	1000		25	7.4	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Benzo[a]pyrene	970		25	9.4	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Benzo[b]fluoranthene	1200	B	25	10	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Benzo[g,h,i]perylene	470		25	21	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Benzo[k]fluoranthene	520		25	10	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Chrysene	1100		25	6.9	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Dibenz(a,h)anthracene	120		25	17	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Fluoranthene	2000		25	6.9	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Fluorene	370		25	11	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Indeno[1,2,3-cd]pyrene	450		25	21	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Naphthalene	150		25	17	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Phenanthrene	2100		25	8.9	ug/Kg		12/27/18 09:33	12/29/18 18:26	5
Pyrene	2200		25	8.4	ug/Kg		12/27/18 09:33	12/29/18 18:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*12/27/18 09:33*	*12/29/18 18:26*	*5*
Terphenyl-d14	*107*		*35 - 146*	*12/27/18 09:33*	*12/29/18 18:26*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	330		9.9	3.7	mg/Kg		12/26/18 11:37	12/31/18 13:28	5
Motor Oil Range Organics [C24-C36]	580		250	50	mg/Kg		12/26/18 11:37	12/31/18 13:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/26/18 11:37*	*12/31/18 13:28*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
4,4'-DDE	7.8		1.9	0.40	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
4,4'-DDT	21	p	1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
alpha-Chlordane	12		1.9	0.38	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Chlordane (n.o.s.)	160		38	2.8	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Chlordane (technical)	160		38	3.1	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:55	12/30/18 02:24	1

Client Sample ID: DUP-35

Date Collected: 12/20/18 00:01
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-11

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
gamma-Chlordane	**12**		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/21/18 09:55	12/30/18 02:24	1
Toxaphene	ND		38	6.5	ug/Kg		12/21/18 09:55	12/30/18 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*197*	*X*	*21 - 136*	*12/21/18 09:55*	*12/30/18 02:24*	*1*
Tetrachloro-m-xylene	*96*		*21 - 145*	*12/21/18 09:55*	*12/30/18 02:24*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:04	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:04	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:04	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:04	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:04	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*181*	*X*	*45 - 120*	*12/27/18 06:24*	*12/27/18 21:04*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	**740**		250	85	ug/Kg		12/27/18 06:24	12/28/18 12:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*209*	*X*	*45 - 120*	*12/27/18 06:24*	*12/28/18 12:36*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.8**		1.2	0.20	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Arsenic	**15**		2.4	0.21	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Barium	**190**		1.2	0.17	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Beryllium	**0.15**	**J**	0.24	0.079	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Cadmium	**3.0**		0.30	0.030	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Chromium	**100**		1.2	0.13	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Cobalt	**13**		0.48	0.048	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Copper	**480**		3.6	1.7	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Lead	**420**		1.2	0.25	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Molybdenum	**12**		1.2	0.16	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Nickel	**93**		1.2	0.12	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Selenium	**0.84**	**J**	2.4	0.36	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Silver	**1.2**		0.61	0.12	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Thallium	ND		1.2	0.35	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Vanadium	**36**		1.2	0.16	mg/Kg		12/28/18 08:51	01/02/19 11:55	4
Zinc	**720**		3.6	1.5	mg/Kg		12/28/18 08:51	01/02/19 11:55	4

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Client Sample ID: DUP-35
Date Collected: 12/20/18 00:01
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-11
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.015	0.0022	mg/Kg		12/24/18 09:50	01/07/19 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AT5S-0.5-1

Date Collected: 12/20/18 12:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-12

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Anthracene	ND		5.0	2.0	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Benzo[a]pyrene	**2.3**	**J**	5.0	1.9	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Benzo[b]fluoranthene	**2.9**	**J B**	5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Chrysene	ND		5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Fluorene	ND		5.0	2.2	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/27/18 09:33	12/31/18 11:36	1
Pyrene	ND		5.0	1.7	ug/Kg		12/27/18 09:33	12/31/18 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*33 - 120*	*12/27/18 09:33*	*12/31/18 11:36*	*1*
Terphenyl-d14	*88*		*35 - 146*	*12/27/18 09:33*	*12/31/18 11:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.0**		2.0	0.75	mg/Kg		12/26/18 11:37	12/31/18 12:59	1
Motor Oil Range Organics [C24-C36]	**11**	**J**	50	9.9	mg/Kg		12/26/18 11:37	12/31/18 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*103*		*40 - 130*	*12/26/18 11:37*	*12/31/18 12:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
alpha-BHC	ND		1.9	0.52	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Chlordane (technical)	ND		38	3.0	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Endosulfan I	ND		1.9	0.30	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Endrin ketone	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/30/18 02:41	1

Client Sample ID: DG-AT5S-0.5-1

Date Collected: 12/20/18 12:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-12

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/21/18 09:55	12/30/18 02:41	1
Toxaphene	ND		38	6.5	ug/Kg		12/21/18 09:55	12/30/18 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*21 - 136*	*12/21/18 09:55*	*12/30/18 02:41*	*1*
Tetrachloro-m-xylene	*91*		*21 - 145*	*12/21/18 09:55*	*12/30/18 02:41*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:17	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:17	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:17	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:17	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:17	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:17	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*12/27/18 06:24*	*12/27/18 21:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.68**	**J**	1.2	0.20	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Arsenic	**0.21**	**J**	2.4	0.20	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Barium	**28**		1.2	0.17	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Beryllium	ND		0.24	0.078	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Cadmium	ND		0.30	0.030	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Chromium	**10**		1.2	0.13	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Cobalt	**12**		0.48	0.048	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Copper	**200**		3.6	1.7	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Lead	**2.0**		1.2	0.25	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Molybdenum	ND		1.2	0.15	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Nickel	**4.5**		1.2	0.12	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Selenium	ND		2.4	0.36	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Silver	ND		0.60	0.12	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Thallium	ND	L	1.2	0.35	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Vanadium	**95**		1.2	0.16	mg/Kg		12/28/18 08:51	01/02/19 12:00	4
Zinc	**36**		3.6	1.5	mg/Kg		12/28/18 08:51	01/02/19 12:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.016	0.0024	mg/Kg		12/24/18 09:50	01/07/19 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AT5S-3.5-4

Date Collected: 12/20/18 13:05
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-13

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	13		10	5.0	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Acenaphthene	11		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Acenaphthylene	43		5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Anthracene	37		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Benzo[a]anthracene	220		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Benzo[a]pyrene	240		5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Benzo[b]fluoranthene	280	B	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Benzo[g,h,i]perylene	110		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Benzo[k]fluoranthene	97		5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Chrysene	260		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Dibenz(a,h)anthracene	45		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Fluoranthene	350		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Fluorene	14		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Indeno[1,2,3-cd]pyrene	120		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Naphthalene	21		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Phenanthrene	230		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 16:53	1
Pyrene	470		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/26/18 13:22*	*12/29/18 16:53*	*1*
Terphenyl-d14	*92*		*35 - 146*	*12/26/18 13:22*	*12/29/18 16:53*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16		2.0	0.75	mg/Kg		12/26/18 11:37	12/31/18 13:28	1
Motor Oil Range Organics [C24-C36]	42	J	50	9.9	mg/Kg		12/26/18 11:37	12/31/18 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*102*		*40 - 130*	*12/26/18 11:37*	*12/31/18 13:28*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Endrin	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/21/18 09:55	12/30/18 02:59	1

Client Sample ID: DG-AT5S-3.5-4

Date Collected: 12/20/18 13:05
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-13

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:55	12/30/18 02:59	1
Toxaphene	ND		39	6.7	ug/Kg		12/21/18 09:55	12/30/18 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*21 - 136*	*12/21/18 09:55*	*12/30/18 02:59*	*1*
Tetrachloro-m-xylene	*102*		*21 - 145*	*12/21/18 09:55*	*12/30/18 02:59*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:30	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:30	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:30	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:30	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:30	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:30	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*	*12/27/18 06:24*	*12/27/18 21:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**8.3**		1.2	0.20	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Arsenic	**83**		2.4	0.21	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Barium	**180**		1.2	0.17	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Beryllium	**0.25**		0.24	0.079	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Cadmium	**0.86**		0.30	0.030	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Chromium	**20**		1.2	0.13	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Cobalt	**8.8**		0.49	0.049	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Copper	**140**		3.7	1.7	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Lead	**600**		1.2	0.26	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Molybdenum	**0.49**	**J**	1.2	0.16	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Nickel	**19**		1.2	0.12	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Selenium	ND		2.4	0.37	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Silver	**0.98**		0.61	0.12	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Thallium	ND		1.2	0.35	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Vanadium	**53**		1.2	0.17	mg/Kg		12/28/18 08:51	01/02/19 12:04	4
Zinc	**350**		3.7	1.5	mg/Kg		12/28/18 08:51	01/02/19 12:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.014	0.0021	mg/Kg		12/24/18 09:50	01/07/19 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.9**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DUP-18

Date Collected: 12/20/18 00:01
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-14

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**11**		9.9	5.0	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Acenaphthylene	**2.9**	**J**	5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Anthracene	**7.5**		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Benzo[a]anthracene	**15**		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Benzo[a]pyrene	**16**		5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Benzo[b]fluoranthene	**26**	**B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Benzo[g,h,i]perylene	**11**		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Benzo[k]fluoranthene	**11**		5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Chrysene	**19**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Dibenz(a,h)anthracene	**4.1**	**J**	5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Fluoranthene	**27**		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Indeno[1,2,3-cd]pyrene	**9.9**		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Naphthalene	**12**		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Phenanthrene	**18**		5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 17:16	1
Pyrene	**25**		5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*12/26/18 13:22*	*12/29/18 17:16*	*1*
Terphenyl-d14	*91*		*35 - 146*	*12/26/18 13:22*	*12/29/18 17:16*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**25**		2.0	0.75	mg/Kg		12/26/18 11:37	12/31/18 13:57	1
Motor Oil Range Organics [C24-C36]	**65**		50	10	mg/Kg		12/26/18 11:37	12/31/18 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*12/26/18 11:37*	*12/31/18 13:57*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
4,4'-DDE	**2.6**		1.9	0.40	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
4,4'-DDT	**2.5**		1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Chlordane (technical)	ND		38	3.1	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:55	12/30/18 03:17	1

Client Sample ID: DUP-18

Date Collected: 12/20/18 00:01
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-14

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/21/18 09:55	12/30/18 03:17	1
Toxaphene	ND		38	6.5	ug/Kg		12/21/18 09:55	12/30/18 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*21 - 136*	*12/21/18 09:55*	*12/30/18 03:17*	*1*
Tetrachloro-m-xylene	*95*		*21 - 145*	*12/21/18 09:55*	*12/30/18 03:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:44	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:44	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:44	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:44	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:44	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:44	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*47*		*45 - 120*	*12/27/18 06:24*	*12/27/18 21:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**	**J**	1.3	0.21	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Arsenic	**2.1**	**J**	2.5	0.22	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Barium	**47**		1.3	0.18	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Beryllium	**0.11**	**J**	0.25	0.082	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Cadmium	**0.31**	**J**	0.32	0.031	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Chromium	**14**		1.3	0.13	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Cobalt	**9.2**		0.51	0.051	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Copper	**110**		3.8	1.8	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Lead	**59**		1.3	0.27	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Molybdenum	**0.19**	**J**	1.3	0.16	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Nickel	**11**		1.3	0.13	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Selenium	**0.70**	**J**	2.5	0.38	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Silver	ND		0.63	0.13	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Thallium	ND		1.3	0.37	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Vanadium	**72**		1.3	0.17	mg/Kg		12/28/18 08:51	01/02/19 12:09	4
Zinc	**91**		3.8	1.6	mg/Kg		12/28/18 08:51	01/02/19 12:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.014	0.0021	mg/Kg		01/07/19 20:35	01/08/19 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AR5S-0.5-1

Date Collected: 12/20/18 13:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		80	56	ug/Kg		12/20/18 21:00	12/27/18 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*12/20/18 21:00*	*12/27/18 14:00*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*12/20/18 21:00*	*12/27/18 14:00*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/20/18 21:00*	*12/27/18 14:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
2-Butanone (MEK)	ND		8.0	4.0	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
2-Hexanone	ND		8.0	4.0	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Benzene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Bromobenzene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Bromoform	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Bromomethane	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Carbon disulfide	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Chloroethane	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Chloroform	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Chloromethane	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1

Client Sample ID: DG-AR5S-0.5-1

Date Collected: 12/20/18 13:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Dibromomethane	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Naphthalene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Styrene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Tetrachloroethene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Toluene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Trichloroethene	ND		0.80	0.40	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		12/20/18 21:00	12/27/18 14:00	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		12/20/18 21:00	12/27/18 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*	*12/20/18 21:00*	*12/27/18 14:00*	*1*
Toluene-d8 (Surr)	*118*		*79 - 123*	*12/20/18 21:00*	*12/27/18 14:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Benzo[a]pyrene	**2.2**	**J**	5.0	1.9	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Benzo[b]fluoranthene	**3.1**	**J B**	5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Chrysene	ND		5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Fluoranthene	**2.5**	**J**	5.0	1.4	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Phenanthrene	**2.7**	**J**	5.0	1.8	ug/Kg		12/26/18 13:22	12/29/18 17:39	1
Pyrene	**2.7**	**J**	5.0	1.7	ug/Kg		12/26/18 13:22	12/29/18 17:39	1

Client Sample ID: DG-AR5S-0.5-1

Date Collected: 12/20/18 13:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/26/18 13:22*	*12/29/18 17:39*	*1*
Terphenyl-d14	*92*		*35 - 146*	*12/26/18 13:22*	*12/29/18 17:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.5**	**J**	2.0	0.75	mg/Kg		12/26/18 11:37	12/31/18 14:26	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/26/18 11:37	12/31/18 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*12/26/18 11:37*	*12/31/18 14:26*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Aldrin	ND		2.0	0.49	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
alpha-BHC	ND		2.0	0.54	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
beta-BHC	ND		2.0	0.35	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
delta-BHC	ND		2.0	0.43	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Dieldrin	ND		2.0	0.58	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Endosulfan I	ND		2.0	0.31	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Endosulfan II	ND		2.0	0.48	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Endrin	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Endrin ketone	ND		2.0	0.32	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Heptachlor	ND		2.0	0.45	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Methoxychlor	ND		2.0	0.67	ug/Kg		12/21/18 09:55	12/30/18 03:35	1
Toxaphene	ND		39	6.7	ug/Kg		12/21/18 09:55	12/30/18 03:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*21 - 136*	*12/21/18 09:55*	*12/30/18 03:35*	*1*
Tetrachloro-m-xylene	*91*		*21 - 145*	*12/21/18 09:55*	*12/30/18 03:35*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:57	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:57	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:57	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:57	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:57	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:57	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 21:57	1

Client Sample ID: DG-AR5S-0.5-1

Date Collected: 12/20/18 13:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*12/27/18 06:24*	*12/27/18 21:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.27	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Arsenic	ND		3.2	0.27	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Barium	**39**		1.6	0.23	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Beryllium	ND		0.32	0.10	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Cadmium	ND		0.40	0.040	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Chromium	**9.9**		1.6	0.17	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Cobalt	**11**		0.65	0.065	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Copper	**160**		4.8	2.3	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Lead	**7.6**		1.6	0.34	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Molybdenum	ND		1.6	0.21	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Nickel	**4.4**		1.6	0.16	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Selenium	ND		3.2	0.48	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Silver	ND		0.81	0.16	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Thallium	ND		1.6	0.47	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Vanadium	**90**		1.6	0.22	mg/Kg		12/28/18 08:51	01/02/19 12:13	4
Zinc	**39**		4.8	2.0	mg/Kg		12/28/18 08:51	01/02/19 12:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 10:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AR5S-3.5-4

Date Collected: 12/20/18 14:05
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	52	ug/Kg		12/20/18 21:00	12/27/18 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*60 - 120*	*12/20/18 21:00*	*12/27/18 18:15*	*1*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*	*12/20/18 21:00*	*12/27/18 18:15*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/20/18 21:00*	*12/27/18 18:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,1,1-Trichloroethane	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
2-Hexanone	ND		7.5	3.7	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
4-Isopropyltoluene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Benzene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Bromobenzene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Bromoform	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Bromomethane	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Chloroethane	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Chloroform	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Chloromethane	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1

Client Sample ID: DG-AR5S-3.5-4

Date Collected: 12/20/18 14:05
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-16

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Dibromomethane	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Naphthalene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
N-Propylbenzene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Styrene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Tetrachloroethene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Toluene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Trichloroethene	ND		0.75	0.37	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		12/20/18 21:00	12/27/18 18:15	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		12/20/18 21:00	12/27/18 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*	*12/20/18 21:00*	*12/27/18 18:15*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/20/18 21:00*	*12/27/18 18:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.2**	**J**	9.9	5.0	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Acenaphthylene	**6.5**		5.0	2.4	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Anthracene	**7.5**		5.0	2.0	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Benzo[a]anthracene	**23**		5.0	1.5	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Benzo[a]pyrene	**31**		5.0	1.9	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Benzo[b]fluoranthene	**39**	**B**	5.0	2.1	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Benzo[g,h,i]perylene	**15**		5.0	4.3	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Benzo[k]fluoranthene	**16**		5.0	2.1	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Chrysene	**26**		5.0	1.4	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Dibenz(a,h)anthracene	**6.3**		5.0	3.5	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Fluoranthene	**35**		5.0	1.4	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Fluorene	**2.6**	**J**	5.0	2.2	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Indeno[1,2,3-cd]pyrene	**14**		5.0	4.2	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Naphthalene	**5.1**		5.0	3.5	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Phenanthrene	**21**		5.0	1.8	ug/Kg		12/27/18 09:33	12/29/18 18:50	1
Pyrene	**42**		5.0	1.7	ug/Kg		12/27/18 09:33	12/29/18 18:50	1

Client Sample ID: DG-AR5S-3.5-4

Date Collected: 12/20/18 14:05
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*12/27/18 09:33*	*12/29/18 18:50*	*1*
Terphenyl-d14	*88*		*35 - 146*	*12/27/18 09:33*	*12/29/18 18:50*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16		2.0	0.75	mg/Kg		12/26/18 11:37	12/31/18 14:55	1
Motor Oil Range Organics [C24-C36]	43	J	50	9.9	mg/Kg		12/26/18 11:37	12/31/18 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*99*		*40 - 130*	*12/26/18 11:37*	*12/31/18 14:55*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/21/18 09:55	12/30/18 03:53	1
Toxaphene	ND		39	6.6	ug/Kg		12/21/18 09:55	12/30/18 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*21 - 136*	*12/21/18 09:55*	*12/30/18 03:53*	*1*
Tetrachloro-m-xylene	*88*		*21 - 145*	*12/21/18 09:55*	*12/30/18 03:53*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:10	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:10	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:10	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:10	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:10	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:10	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:10	1

Client Sample ID: DG-AR5S-3.5-4

Date Collected: 12/20/18 14:05
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*45 - 120*	*12/27/18 06:24*	*12/27/18 22:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.4	0.24	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Arsenic	18		2.9	0.24	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Barium	180	B	1.4	0.20	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Beryllium	0.48		0.29	0.094	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Cadmium	0.33	J	0.36	0.036	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Chromium	89	B	1.4	0.15	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Cobalt	16		0.58	0.058	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Copper	39		4.3	2.0	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Lead	70	B	1.4	0.30	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Molybdenum	0.49	J	1.4	0.18	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Nickel	140		1.4	0.15	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Selenium	ND		2.9	0.43	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Silver	ND		0.72	0.15	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Thallium	ND		1.4	0.42	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Vanadium	45		1.4	0.20	mg/Kg		12/24/18 11:28	01/04/19 19:32	4
Zinc	75		4.3	1.8	mg/Kg		12/24/18 11:28	01/04/19 19:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088		0.016	0.0024	mg/Kg		01/07/19 20:35	01/08/19 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.5		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AP5S-0.5-1

Date Collected: 12/20/18 14:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-17

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		92	64	ug/Kg		12/20/18 21:00	12/27/18 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*12/20/18 21:00*	*12/27/18 18:44*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*12/20/18 21:00*	*12/27/18 18:44*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/20/18 21:00*	*12/27/18 18:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,1,1-Trichloroethane	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.2	4.6	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,1,2-Trichloroethane	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,1-Dichloroethane	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,1-Dichloroethene	ND		1.8	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,1-Dichloropropene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,2,3-Trichlorobenzene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,2,3-Trichloropropane	ND		9.2	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,2,4-Trichlorobenzene	ND		4.6	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,2,4-Trimethylbenzene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,2-Dibromo-3-Chloropropane	ND		4.6	1.8	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,2-Dichlorobenzene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,2-Dichloroethane	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,2-Dichloropropane	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,3,5-Trimethylbenzene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,3-Dichlorobenzene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,3-Dichloropropane	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
1,4-Dichlorobenzene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
2,2-Dichloropropane	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
2-Butanone (MEK)	ND		9.2	4.6	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
2-Chlorotoluene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
2-Hexanone	ND		9.2	4.6	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
4-Chlorotoluene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
4-Isopropyltoluene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
4-Methyl-2-pentanone (MIBK)	ND		4.6	2.3	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Benzene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Bromobenzene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Bromoform	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Bromomethane	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Carbon disulfide	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Carbon tetrachloride	ND		1.8	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Chlorobenzene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Chlorobromomethane	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Chlorodibromomethane	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Chloroethane	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Chloroform	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Chloromethane	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
cis-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1

Client Sample ID: DG-AP5S-0.5-1
Date Collected: 12/20/18 14:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-17
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Dibromomethane	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Dichlorobromomethane	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Dichlorodifluoromethane	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Ethylbenzene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Ethylene Dibromide	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Hexachlorobutadiene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Isopropylbenzene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Methyl tert-butyl ether	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Methylene Chloride	ND		9.2	4.6	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Naphthalene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
n-Butylbenzene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
N-Propylbenzene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
sec-Butylbenzene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Styrene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
tert-Butylbenzene	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Tetrachloroethene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Toluene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
trans-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
trans-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Trichloroethene	ND		0.92	0.46	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Trichlorofluoromethane	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Vinyl acetate	ND		7.4	3.7	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Vinyl chloride	ND		1.8	0.92	ug/Kg		12/20/18 21:00	12/27/18 18:44	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		12/20/18 21:00	12/27/18 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*	*12/20/18 21:00*	*12/27/18 18:44*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*12/20/18 21:00*	*12/27/18 18:44*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**340**		9.9	5.0	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Acenaphthene	**3.4**	**J**	5.0	2.8	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Acenaphthylene	**7.4**		5.0	2.4	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Anthracene	**13**		5.0	2.0	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Benzo[a]anthracene	**16**		5.0	1.5	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Benzo[a]pyrene	**19**		5.0	1.9	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Benzo[b]fluoranthene	**33**	**B**	5.0	2.1	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Benzo[g,h,i]perylene	**12**		5.0	4.3	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Benzo[k]fluoranthene	**11**		5.0	2.1	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Chrysene	**21**		5.0	1.4	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Dibenz(a,h)anthracene	**4.2**	**J**	5.0	3.5	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Fluoranthene	**33**		5.0	1.4	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Fluorene	ND		5.0	2.2	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Indeno[1,2,3-cd]pyrene	**8.9**		5.0	4.2	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Naphthalene	**240**		5.0	3.5	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Phenanthrene	**66**	*	5.0	1.8	ug/Kg		12/31/18 09:05	01/02/19 15:22	1
Pyrene	**35**		5.0	1.7	ug/Kg		12/31/18 09:05	01/02/19 15:22	1

Client Sample ID: DG-AP5S-0.5-1

Date Collected: 12/20/18 14:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*33 - 120*	*12/31/18 09:05*	*01/02/19 15:22*	*1*
Terphenyl-d14	*85*		*35 - 146*	*12/31/18 09:05*	*01/02/19 15:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**70**		2.0	0.75	mg/Kg		12/26/18 11:37	12/31/18 17:47	1
Motor Oil Range Organics [C24-C36]	**220**		50	10	mg/Kg		12/26/18 11:37	12/31/18 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*80*		*40 - 130*	*12/26/18 11:37*	*12/31/18 17:47*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Aldrin	ND		1.9	0.49	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
delta-BHC	ND		1.9	0.43	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Endosulfan II	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Endrin	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Heptachlor	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/21/18 09:55	12/30/18 04:10	1
Toxaphene	ND		39	6.6	ug/Kg		12/21/18 09:55	12/30/18 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*21 - 136*	*12/21/18 09:55*	*12/30/18 04:10*	*1*
Tetrachloro-m-xylene	*89*		*21 - 145*	*12/21/18 09:55*	*12/30/18 04:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:24	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:24	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:24	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:24	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:24	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:24	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:24	1

Client Sample ID: DG-AP5S-0.5-1

Date Collected: 12/20/18 14:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*12/27/18 06:24*	*12/27/18 22:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**13**		1.6	0.27	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Arsenic	**2.7**	**J**	3.2	0.27	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Barium	**68**	**B**	1.6	0.23	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Beryllium	**0.25**	**J**	0.32	0.10	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Cadmium	**0.53**		0.40	0.040	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Chromium	**13**	**B**	1.6	0.17	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Cobalt	**12**		0.64	0.064	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Copper	**130**		4.8	2.3	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Lead	**62**	**B**	1.6	0.34	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Molybdenum	**1.3**	**J**	1.6	0.20	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Nickel	**10**		1.6	0.16	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Selenium	ND		3.2	0.48	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Silver	ND		0.80	0.16	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Thallium	ND		1.6	0.46	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Vanadium	**97**		1.6	0.22	mg/Kg		12/24/18 11:28	01/04/19 19:37	4
Zinc	**120**		4.8	2.0	mg/Kg		12/24/18 11:28	01/04/19 19:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.014	0.0021	mg/Kg		01/07/19 20:35	01/08/19 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AP5S-3.5-4

Date Collected: 12/20/18 14:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-18

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Anthracene	ND		5.0	2.0	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Benzo[a]anthracene	**5.6**		5.0	1.5	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Benzo[a]pyrene	**6.7**		5.0	1.9	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Benzo[b]fluoranthene	**8.8**	**B**	5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Benzo[g,h,i]perylene	**6.0**		5.0	4.3	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Benzo[k]fluoranthene	**3.9**	**J**	5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Chrysene	**4.6**	**J**	5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Fluoranthene	**7.6**		5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Fluorene	ND		5.0	2.2	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Indeno[1,2,3-cd]pyrene	**4.4**	**J**	5.0	4.2	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Phenanthrene	**4.4**	**J**	5.0	1.8	ug/Kg		12/27/18 09:33	12/31/18 11:12	1
Pyrene	**8.2**		5.0	1.7	ug/Kg		12/27/18 09:33	12/31/18 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*33 - 120*	*12/27/18 09:33*	*12/31/18 11:12*	*1*
Terphenyl-d14	*90*		*35 - 146*	*12/27/18 09:33*	*12/31/18 11:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.3**		2.0	0.75	mg/Kg		12/26/18 11:37	12/31/18 12:02	1
Motor Oil Range Organics [C24-C36]	**11**	**J**	50	10	mg/Kg		12/26/18 11:37	12/31/18 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*40 - 130*	*12/26/18 11:37*	*12/31/18 12:02*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Aldrin	ND		1.9	0.49	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
beta-BHC	ND		1.9	0.35	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Chlordane (technical)	ND		39	3.1	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
delta-BHC	ND		1.9	0.43	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Dieldrin	ND		1.9	0.57	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Endosulfan II	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Endrin	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:55	12/30/18 04:29	1

Client Sample ID: DG-AP5S-3.5-4

Date Collected: 12/20/18 14:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-18

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Heptachlor	ND		1.9	0.45	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Methoxychlor	ND		1.9	0.66	ug/Kg		12/21/18 09:55	12/30/18 04:29	1
Toxaphene	ND		39	6.6	ug/Kg		12/21/18 09:55	12/30/18 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*21 - 136*	*12/21/18 09:55*	*12/30/18 04:29*	*1*
Tetrachloro-m-xylene	*78*		*21 - 145*	*12/21/18 09:55*	*12/30/18 04:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:37	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:37	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:37	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:37	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:37	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:37	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*	*12/27/18 06:24*	*12/27/18 22:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.82**	**J**	1.3	0.21	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Arsenic	**19**		2.6	0.22	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Barium	**59**	**B**	1.3	0.18	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Beryllium	**0.23**	**J**	0.26	0.084	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Cadmium	**0.20**	**J**	0.32	0.032	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Chromium	**26**	**B**	1.3	0.14	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Cobalt	**4.4**		0.52	0.052	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Copper	**23**		3.9	1.8	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Lead	**64**	**B**	1.3	0.27	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Molybdenum	ND		1.3	0.17	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Nickel	**21**		1.3	0.13	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Selenium	ND		2.6	0.39	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Silver	ND		0.65	0.13	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Thallium	ND		1.3	0.37	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Vanadium	**21**		1.3	0.18	mg/Kg		12/24/18 11:28	01/04/19 19:41	4
Zinc	**62**		3.9	1.6	mg/Kg		12/24/18 11:28	01/04/19 19:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.8**		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AN5S-0.5-1

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-19

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Anthracene	**4.2**	**J**	5.0	2.0	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Benzo[a]anthracene	**11**		5.0	1.5	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Benzo[a]pyrene	**13**		5.0	1.9	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Benzo[b]fluoranthene	**20**	**B**	5.0	2.1	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Benzo[g,h,i]perylene	**7.3**		5.0	4.3	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Benzo[k]fluoranthene	**6.7**		5.0	2.1	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Chrysene	**11**		5.0	1.4	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Fluoranthene	**23**		5.0	1.4	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Fluorene	ND		5.0	2.2	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Indeno[1,2,3-cd]pyrene	**6.1**		5.0	4.2	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Naphthalene	**4.4**	**J**	5.0	3.5	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Phenanthrene	**15**		5.0	1.8	ug/Kg		12/27/18 09:33	12/29/18 19:13	1
Pyrene	**20**		5.0	1.7	ug/Kg		12/27/18 09:33	12/29/18 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*12/27/18 09:33*	*12/29/18 19:13*	*1*
Terphenyl-d14	*91*		*35 - 146*	*12/27/18 09:33*	*12/29/18 19:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		2.0	0.75	mg/Kg		12/26/18 11:37	12/29/18 21:38	1
Motor Oil Range Organics [C24-C36]	**41**	**J**	50	10	mg/Kg		12/26/18 11:37	12/29/18 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*113*		*40 - 130*	*12/26/18 11:37*	*12/29/18 21:38*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
4,4'-DDE	**0.65**	**J**	2.0	0.42	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:55	12/30/18 04:46	1

Client Sample ID: DG-AN5S-0.5-1

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-19

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:55	12/30/18 04:46	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:55	12/30/18 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*21 - 136*	*12/21/18 09:55*	*12/30/18 04:46*	*1*
Tetrachloro-m-xylene	*97*		*21 - 145*	*12/21/18 09:55*	*12/30/18 04:46*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:04	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:04	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:04	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:04	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:04	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:04	1
Aroclor 1260	**23**	**J**	50	17	ug/Kg		12/27/18 06:24	12/27/18 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*12/27/18 06:24*	*12/27/18 23:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		730	120	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Arsenic	**200**	**J**	1500	120	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Barium	**23000**	**B**	730	100	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Beryllium	**120**	**J**	150	47	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Cadmium	**51**	**J**	180	18	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Chromium	**4700**	**B**	730	77	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Cobalt	**4400**		290	29	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Copper	**62000**		2200	1000	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Lead	**4600**	**B**	730	150	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Molybdenum	**250**	**J**	730	93	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Nickel	**1800**		730	74	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Selenium	ND		1500	220	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Silver	ND		360	73	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Thallium	ND		730	210	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Vanadium	**45000**		730	99	mg/Kg		12/24/18 11:28	01/04/19 19:56	4
Zinc	**18000**		2200	920	mg/Kg		12/24/18 11:28	01/04/19 19:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.071**		0.015	0.0023	mg/Kg		01/07/19 20:35	01/08/19 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AN5S-3.5-4

Date Collected: 12/20/18 15:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-20

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Anthracene	ND		5.0	2.0	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Benzo[a]anthracene	**2.0**	**J**	5.0	1.5	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Benzo[a]pyrene	**3.6**	**J**	5.0	1.9	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Benzo[b]fluoranthene	**4.7**	**J B**	5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Benzo[k]fluoranthene	**2.5**	**J**	5.0	2.1	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Chrysene	**2.0**	**J**	5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Fluoranthene	**4.1**	**J**	5.0	1.4	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Fluorene	ND		5.0	2.2	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Phenanthrene	**2.9**	**J**	5.0	1.8	ug/Kg		12/27/18 09:33	12/31/18 11:59	1
Pyrene	**4.4**	**J**	5.0	1.7	ug/Kg		12/27/18 09:33	12/31/18 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*33 - 120*	*12/27/18 09:33*	*12/31/18 11:59*	*1*
Terphenyl-d14	*88*		*35 - 146*	*12/27/18 09:33*	*12/31/18 11:59*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		2.0	0.75	mg/Kg		12/26/18 11:37	12/29/18 22:02	1
Motor Oil Range Organics [C24-C36]	**36**	**J**	50	9.9	mg/Kg		12/26/18 11:37	12/29/18 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*12/26/18 11:37*	*12/29/18 22:02*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Aldrin	ND		1.9	0.48	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
alpha-BHC	ND		1.9	0.53	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
beta-BHC	ND		1.9	0.34	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Chlordane (technical)	ND		38	3.1	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
delta-BHC	ND		1.9	0.42	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Dieldrin	ND		1.9	0.56	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Endosulfan I	ND		1.9	0.31	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Endosulfan II	ND		1.9	0.47	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Endrin	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Endrin ketone	ND		1.9	0.32	ug/Kg		12/21/18 09:55	12/30/18 05:04	1

Client Sample ID: DG-AN5S-3.5-4

Date Collected: 12/20/18 15:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-20

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Heptachlor	ND		1.9	0.44	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Methoxychlor	ND		1.9	0.65	ug/Kg		12/21/18 09:55	12/30/18 05:04	1
Toxaphene	ND		38	6.5	ug/Kg		12/21/18 09:55	12/30/18 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*21 - 136*	*12/21/18 09:55*	*12/30/18 05:04*	*1*
Tetrachloro-m-xylene	*96*		*21 - 145*	*12/21/18 09:55*	*12/30/18 05:04*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:17	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:17	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:17	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:17	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:17	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:17	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*12/27/18 06:24*	*12/27/18 23:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		12	2.0	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Arsenic	**83**		24	2.1	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Barium	**810**	**B**	6.1	0.86	mg/Kg		12/24/18 11:28	01/07/19 15:21	20
Beryllium	ND		1.2	0.39	mg/Kg		12/24/18 11:28	01/07/19 15:21	20
Cadmium	ND		3.0	0.30	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Chromium	**6.4**	**J B**	12	1.3	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Cobalt	**10**		4.8	0.48	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Copper	**96**		36	17	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Lead	**5.2**	**J B**	12	2.5	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Molybdenum	ND		6.1	0.78	mg/Kg		12/24/18 11:28	01/07/19 15:21	20
Nickel	**3.8**	**J**	12	1.2	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Selenium	ND		24	3.6	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Silver	ND		6.1	1.2	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Thallium	ND		12	3.5	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Vanadium	**81**		12	1.6	mg/Kg		12/24/18 11:28	01/07/19 20:50	40
Zinc	**36**		36	15	mg/Kg		12/24/18 11:28	01/07/19 20:50	40

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-S9S-7

Date Collected: 12/20/18 13:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-21

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		50	25	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Acenaphthene	**35**		25	14	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Acenaphthylene	ND		25	12	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Anthracene	**99**		25	10	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Benzo[a]anthracene	**20**	**J**	25	7.5	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Benzo[a]pyrene	**21**	**J**	25	9.5	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Benzo[b]fluoranthene	**55**	**B**	25	10	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Benzo[g,h,i]perylene	ND		25	21	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Benzo[k]fluoranthene	ND		25	10	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Chrysene	**45**		25	7.0	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Dibenz(a,h)anthracene	ND		25	17	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Fluoranthene	**50**		25	7.0	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Fluorene	**17**	**J**	25	11	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Indeno[1,2,3-cd]pyrene	ND		25	21	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Naphthalene	**24**	**J**	25	17	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Phenanthrene	**120**		25	9.0	ug/Kg		12/27/18 09:33	12/29/18 19:36	5
Pyrene	**92**		25	8.5	ug/Kg		12/27/18 09:33	12/29/18 19:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/27/18 09:33*	*12/29/18 19:36*	*5*
Terphenyl-d14	*103*		*35 - 146*	*12/27/18 09:33*	*12/29/18 19:36*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1900**		40	15	mg/Kg		12/26/18 08:35	12/27/18 20:22	20
Motor Oil Range Organics [C24-C36]	**2700**		1000	200	mg/Kg		12/26/18 08:35	12/27/18 20:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/26/18 08:35*	*12/27/18 20:22*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-S9S-4.5-5

Date Collected: 12/20/18 11:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-22

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	110	J	200	100	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Acenaphthene	ND		100	56	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Acenaphthylene	58	J	100	48	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Anthracene	210		100	40	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Benzo[a]anthracene	98	J	100	30	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Benzo[a]pyrene	220		100	38	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Benzo[b]fluoranthene	420	B	100	42	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Benzo[g,h,i]perylene	140		100	86	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Benzo[k]fluoranthene	ND		100	42	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Chrysene	330		100	28	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Dibenz(a,h)anthracene	ND		100	70	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Fluoranthene	310		100	28	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Fluorene	ND		100	44	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Indeno[1,2,3-cd]pyrene	100		100	84	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Naphthalene	120		100	70	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Phenanthrene	140		100	36	ug/Kg		12/27/18 09:33	12/29/18 20:00	20
Pyrene	700		100	34	ug/Kg		12/27/18 09:33	12/29/18 20:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*12/27/18 09:33*	*12/29/18 20:00*	*20*
Terphenyl-d14	*89*		*35 - 146*	*12/27/18 09:33*	*12/29/18 20:00*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3000		97	36	mg/Kg		12/27/18 10:55	12/28/18 22:36	50
Motor Oil Range Organics [C24-C36]	7300		2400	480	mg/Kg		12/27/18 10:55	12/28/18 22:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/27/18 10:55*	*12/28/18 22:36*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.2		1.9	0.32	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Arsenic	110		3.8	0.32	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Barium	100	B	1.9	0.27	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Beryllium	0.16	J	0.38	0.12	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Cadmium	26	B	0.48	0.047	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Chromium	29		1.9	0.20	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Cobalt	9.4		0.76	0.076	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Copper	210		5.7	2.7	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Lead	500	B	1.9	0.40	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Nickel	36		1.9	0.19	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Selenium	ND		3.8	0.57	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Silver	ND		0.95	0.19	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Thallium	ND		1.9	0.55	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Vanadium	53		1.9	0.26	mg/Kg		01/03/19 11:10	01/04/19 18:17	4
Zinc	4500		5.7	2.4	mg/Kg		01/03/19 11:10	01/04/19 18:17	4

Client Sample ID: DG-S9S-4.5-5

Date Collected: 12/20/18 11:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-22

Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.9		0.1	0.05	%			12/24/18 13:46	1
Percent Moisture	21.9		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: TB-122018
Date Collected: 12/20/18 00:01
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-23
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*12/29/18 15:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/29/18 15:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/29/18 15:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Acetone	ND		20	10	ug/L			12/29/18 15:47	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 15:47	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 15:47	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 15:47	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 15:47	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 15:47	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 15:47	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 15:47	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 15:47	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Client Sample ID: TB-122018
Date Collected: 12/20/18 00:01
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-23
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 15:47	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 15:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 15:47	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 15:47	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 15:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 15:47	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 15:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 15:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 15:47	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 15:47	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 15:47	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*12/29/18 15:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*12/29/18 15:47*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(79-123)
440-228439-F-1 MS	Matrix Spike	115	113
440-228439-F-1 MSD	Matrix Spike Duplicate	106	112
720-90479-1	DG-AS3S-0.5-1	72	106
720-90479-2	DG-AS3S-3.5-4	76	105
720-90479-3	DG-AS3S-8-8.5	77	106
720-90479-4	DG-AU3S-0.5-1	79	106
720-90479-5	DG-AU3S-3.5-4	80	108
720-90479-6	DG-AX5S-0.5-1	82	111
720-90479-7	DG-AX5S-3.5-4	81	106
720-90479-8	DG-AV5S-0.5-1	83	109
720-90479-15	DG-AR5S-0.5-1	110	118
720-90479-16	DG-AR5S-3.5-4	111	117
720-90479-17	DG-AP5S-0.5-1	114	117
720-90479-A-9-B MS	720-90479-A-9-B MS	74	98
720-90479-A-9-C MSD	720-90479-A-9-C MSD	71	101
LCS 440-519479/5	Lab Control Sample	70	99
LCS 440-519482/5	Lab Control Sample	102	106
MB 440-519479/7	Method Blank	72	105
MB 440-519482/4	Method Blank	112	117

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
720-90445-B-8 MS	Matrix Spike	106	99
720-90445-B-8 MSD	Matrix Spike Duplicate	105	97
720-90479-23	TB-122018	120	100
LCS 440-519967/5	Lab Control Sample	100	100
MB 440-519967/4	Method Blank	100	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
440-228439-F-1 MS	Matrix Spike	110	115	113
440-228439-F-1 MSD	Matrix Spike Duplicate	111	117	112
720-90479-1	DG-AS3S-0.5-1	94	102	106
720-90479-2	DG-AS3S-3.5-4	99	98	105

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-90479-3	DG-AS3S-8-8.5	99	103	106
720-90479-4	DG-AU3S-0.5-1	97	102	106
720-90479-5	DG-AU3S-3.5-4	101	106	108
720-90479-6	DG-AX5S-0.5-1	97	104	111
720-90479-7	DG-AX5S-3.5-4	96	101	106
720-90479-8	DG-AV5S-0.5-1	97	109	109
720-90479-15	DG-AR5S-0.5-1	108	110	118
720-90479-16	DG-AR5S-3.5-4	113	112	117
720-90479-17	DG-AP5S-0.5-1	109	110	117
720-90479-A-9-B MS	720-90479-A-9-B MS	97	102	98
720-90479-A-9-C MSD	720-90479-A-9-C MSD	97	100	101
LCS 440-519480/6	Lab Control Sample	92	102	108
LCS 440-519483/6	Lab Control Sample	110	103	116
MB 440-519480/7	Method Blank	94	99	105
MB 440-519483/4	Method Blank	108	111	117

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
720-90445-B-8 MS	Matrix Spike	104	105	99
720-90445-B-8 MSD	Matrix Spike Duplicate	105	102	97
720-90479-23	TB-122018	115	101	100
LCS 440-519968/6	Lab Control Sample	103	103	100
MB 440-519968/4	Method Blank	103	101	99

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-90446-E-7-J MS	Matrix Spike	66	90
720-90446-E-7-K MSD	Matrix Spike Duplicate	68	91
720-90479-1	DG-AS3S-0.5-1	61	89
720-90479-2	DG-AS3S-3.5-4	71	102
720-90479-3	DG-AS3S-8-8.5	66	94
720-90479-4	DG-AU3S-0.5-1	62	94

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)						
720-90479-5	DG-AU3S-3.5-4	59	90						
720-90479-6	DG-AX5S-0.5-1	63	99						
720-90479-7	DG-AX5S-3.5-4	47	79						
720-90479-8	DG-AV5S-0.5-1	62	94						
720-90479-8 MS	DG-AV5S-0.5-1	62	99						
720-90479-8 MSD	DG-AV5S-0.5-1	60	99						
720-90479-9	DG-AV5S-3.5-4	69	86						
720-90479-9 MS	DG-AV5S-3.5-4	61	85						
720-90479-9 MSD	DG-AV5S-3.5-4	57	81						
720-90479-10	DG-AV5S-7.5-8	57	75						
720-90479-11	DUP-35	76	107						
720-90479-12	DG-AT5S-0.5-1	56	88						
720-90479-13	DG-AT5S-3.5-4	73	92						
720-90479-14	DUP-18	68	91						
720-90479-15	DG-AR5S-0.5-1	73	92						
720-90479-16	DG-AR5S-3.5-4	71	88						
720-90479-17	DG-AP5S-0.5-1	56	85						
720-90479-18	DG-AP5S-3.5-4	69	90						
720-90479-19	DG-AN5S-0.5-1	71	91						
720-90479-20	DG-AN5S-3.5-4	65	88						
720-90479-21	DG-S9S-7	73	103						
720-90479-22	DG-S9S-4.5-5	68	89						
LCS 720-257611/2-A	Lab Control Sample	66	89						
LCS 720-257660/2-A	Lab Control Sample	66	91						
LCS 720-257791/2-A	Lab Control Sample	53	75						
MB 720-257611/1-A	Method Blank	73	90						
MB 720-257660/1-A	Method Blank	67	87						
MB 720-257791/1-A	Method Blank	58	79						

Surrogate Legend

FBP = 2-Fluorobiphenyl

TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TPH1 (40-130)							
720-90446-E-1-G MS	Matrix Spike	78							
720-90446-E-1-H MSD	Matrix Spike Duplicate	77							
720-90470-B-5-H MS	Matrix Spike	97							
720-90470-B-5-I MSD	Matrix Spike Duplicate	92							
720-90479-1	DG-AS3S-0.5-1	113							
720-90479-2	DG-AS3S-3.5-4	100							
720-90479-3	DG-AS3S-8-8.5	99							
720-90479-4	DG-AU3S-0.5-1	106							
720-90479-5	DG-AU3S-3.5-4	108							
720-90479-6	DG-AX5S-0.5-1	112							

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TPH1 (40-130)						
720-90479-7	DG-AX5S-3.5-4	90						
720-90479-8	DG-AV5S-0.5-1	65						
720-90479-9	DG-AV5S-3.5-4	96						
720-90479-9 MS	DG-AV5S-3.5-4	106						
720-90479-9 MSD	DG-AV5S-3.5-4	105						
720-90479-10	DG-AV5S-7.5-8	93						
720-90479-11	DUP-35	0 X D						
720-90479-12	DG-AT5S-0.5-1	103						
720-90479-13	DG-AT5S-3.5-4	102						
720-90479-14	DUP-18	101						
720-90479-15	DG-AR5S-0.5-1	106						
720-90479-16	DG-AR5S-3.5-4	99						
720-90479-17	DG-AP5S-0.5-1	80						
720-90479-18	DG-AP5S-3.5-4	87						
720-90479-19	DG-AN5S-0.5-1	113						
720-90479-20	DG-AN5S-3.5-4	101						
720-90479-21	DG-S9S-7	0 X D						
720-90479-22	DG-S9S-4.5-5	0 X D						
720-90512-A-1-O MS	Matrix Spike	93						
720-90512-A-1-P MSD	Matrix Spike Duplicate	113						
LCS 720-257581/2-A	Lab Control Sample	98						
LCS 720-257590/2-A	Lab Control Sample	112						
LCS 720-257599/2-A	Lab Control Sample	111						
LCS 720-257665/2-A	Lab Control Sample	103						
MB 720-257581/1-A	Method Blank	93						
MB 720-257590/1-A	Method Blank	94						
MB 720-257599/1-A	Method Blank	101						
MB 720-257665/1-A	Method Blank	101						

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX2 (21-145)					
720-90446-E-1-D MS	Matrix Spike	116	87					
720-90479-9 MS	DG-AV5S-3.5-4	89	97					
720-90479-11	DUP-35	197 X	96					
LCS 720-257433/2-A	Lab Control Sample	113	93					

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX1 (21-145)
720-90446-E-1-E MSD	Matrix Spike Duplicate	98	76
720-90479-1	DG-AS3S-0.5-1	87	87
720-90479-3	DG-AS3S-8-8.5	96 p	87
720-90479-8	DG-AV5S-0.5-1	133	105
720-90479-10	DG-AV5S-7.5-8	109	88
720-90479-12	DG-AT5S-0.5-1	94	91
720-90479-13	DG-AT5S-3.5-4	102	102
720-90479-14	DUP-18	107	95
720-90479-16	DG-AR5S-3.5-4	111	88
720-90479-18	DG-AP5S-3.5-4	106	78
720-90479-19	DG-AN5S-0.5-1	108	97
720-90479-20	DG-AN5S-3.5-4	103	96

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX2 (21-145)
720-90479-7	DG-AX5S-3.5-4	118	89
720-90479-15	DG-AR5S-0.5-1	103	91
720-90479-17	DG-AP5S-0.5-1	108	89
LCS 720-257432/2-A	Lab Control Sample	109	85

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX1 (21-145)
720-90479-2	DG-AS3S-3.5-4	97 p	83
720-90479-4	DG-AU3S-0.5-1	78	85
720-90479-5	DG-AU3S-3.5-4	87	95
720-90479-6	DG-AX5S-0.5-1	67 p	94
720-90479-9	DG-AV5S-3.5-4	79	91
720-90479-9 MSD	DG-AV5S-3.5-4	84	95
MB 720-257432/1-A	Method Blank	104	85
MB 720-257433/1-A	Method Blank	100	88

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
720-90479-1	DG-AS3S-0.5-1	93
720-90479-2	DG-AS3S-3.5-4	76
720-90479-3	DG-AS3S-8-8.5	73
720-90479-4	DG-AU3S-0.5-1	82
720-90479-5	DG-AU3S-3.5-4	64
720-90479-6	DG-AX5S-0.5-1	64
720-90479-7	DG-AX5S-3.5-4	86
720-90479-8	DG-AV5S-0.5-1	91
720-90479-9	DG-AV5S-3.5-4	76
720-90479-9 MS	DG-AV5S-3.5-4	87
720-90479-9 MSD	DG-AV5S-3.5-4	83
720-90479-10	DG-AV5S-7.5-8	72
720-90479-11	DUP-35	181 X
720-90479-11 - DL	DUP-35	209 X
720-90479-12	DG-AT5S-0.5-1	85
720-90479-13	DG-AT5S-3.5-4	78
720-90479-14	DUP-18	47
720-90479-15	DG-AR5S-0.5-1	73
720-90479-16	DG-AR5S-3.5-4	67
720-90479-17	DG-AP5S-0.5-1	68
720-90479-18	DG-AP5S-3.5-4	76
720-90479-19	DG-AN5S-0.5-1	80
720-90479-20	DG-AN5S-3.5-4	59
LCS 440-519466/2-A	Lab Control Sample	93
MB 440-519466/1-A	Method Blank	93

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-519479/7
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/27/18 10:18	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/27/18 10:18	1
Benzene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Bromoform	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/27/18 10:18	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/27/18 10:18	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Chloroform	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
2-Hexanone	ND		10	5.0	ug/Kg			12/27/18 10:18	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/27/18 10:18	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Methylene Chloride	ND		10	5.0	ug/Kg			12/27/18 10:18	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/27/18 10:18	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519479/7
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Styrene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/27/18 10:18	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/27/18 10:18	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Toluene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/27/18 10:18	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/27/18 10:18	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/27/18 10:18	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/27/18 10:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*72*		*70 - 130*		*12/27/18 10:18*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*		*12/27/18 10:18*	*1*

Lab Sample ID: LCS 440-519479/5
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	54.0		ug/Kg		108	75 - 120
1,3-Dichlorobenzene	50.0	52.9		ug/Kg		106	75 - 125
2-Butanone (MEK)	50.0	59.1		ug/Kg		118	40 - 145
1,4-Dichlorobenzene	50.0	54.0		ug/Kg		108	75 - 120
2-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 125
1,3-Dichloropropane	50.0	49.0		ug/Kg		98	70 - 125
1,1-Dichloropropene	50.0	51.5		ug/Kg		103	70 - 130
4-Chlorotoluene	50.0	51.1		ug/Kg		102	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	46.4		ug/Kg		93	50 - 135
Benzene	50.0	51.5		ug/Kg		103	65 - 120
Bromobenzene	50.0	58.2		ug/Kg		116	75 - 120
1,1-Dichloroethane	50.0	37.4		ug/Kg		75	70 - 130
Bromoform	50.0	53.9		ug/Kg		108	55 - 135
1,2-Dichloroethane	50.0	37.5		ug/Kg		75	60 - 140
Bromomethane	50.0	43.4		ug/Kg		87	60 - 145
1,1-Dichloroethene	50.0	50.8		ug/Kg		102	70 - 125
Carbon disulfide	50.0	49.7		ug/Kg		99	50 - 130
Carbon tetrachloride	50.0	48.1		ug/Kg		96	65 - 140
Chlorobenzene	50.0	51.4		ug/Kg		103	75 - 120
1,2-Dichloropropane	50.0	42.8		ug/Kg		86	70 - 130
Chlorobromomethane	50.0	53.8		ug/Kg		108	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519479/5
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	50.0	48.2		ug/Kg		96	65 - 140
Chloroethane	50.0	33.9		ug/Kg		68	60 - 140
Chloroform	50.0	47.3		ug/Kg		95	70 - 130
Chloromethane	50.0	27.9		ug/Kg		56	45 - 145
2-Hexanone	50.0	44.5		ug/Kg		89	40 - 150
cis-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	70 - 125
cis-1,3-Dichloropropene	50.0	53.8		ug/Kg		108	75 - 125
4-Isopropyltoluene	50.0	53.5		ug/Kg		107	75 - 125
Dibromomethane	50.0	48.5		ug/Kg		97	70 - 130
Dichlorobromomethane	50.0	47.3		ug/Kg		95	70 - 135
4-Methyl-2-pentanone (MIBK)	50.0	42.4		ug/Kg		85	40 - 145
Dichlorodifluoromethane	50.0	30.9		ug/Kg		62	35 - 160
Ethylbenzene	50.0	50.1		ug/Kg		100	70 - 125
Ethylene Dibromide	50.0	51.6		ug/Kg		103	70 - 130
Hexachlorobutadiene	50.0	54.2		ug/Kg		108	60 - 135
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/Kg		104	70 - 130
Isopropylbenzene	50.0	52.6		ug/Kg		105	75 - 130
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/Kg		102	55 - 140
Methyl tert-butyl ether	50.0	55.0		ug/Kg		110	60 - 140
Methylene Chloride	50.0	50.5		ug/Kg		101	55 - 135
1,2,3-Trichlorobenzene	50.0	57.1		ug/Kg		114	60 - 130
Naphthalene	50.0	58.1		ug/Kg		116	55 - 135
1,2,4-Trichlorobenzene	50.0	56.5		ug/Kg		113	70 - 135
n-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 130
1,1,1-Trichloroethane	50.0	49.3		ug/Kg		99	65 - 135
N-Propylbenzene	50.0	52.2		ug/Kg		104	70 - 130
1,1,2-Trichloroethane	50.0	50.7		ug/Kg		101	65 - 135
sec-Butylbenzene	50.0	53.6		ug/Kg		107	70 - 125
Styrene	50.0	51.5		ug/Kg		103	75 - 130
1,2,3-Trichloropropane	50.0	54.1		ug/Kg		108	60 - 135
tert-Butylbenzene	50.0	54.0		ug/Kg		108	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0		ug/Kg		100	60 - 140
Tetrachloroethene	50.0	52.5		ug/Kg		105	70 - 125
1,2,4-Trimethylbenzene	50.0	52.1		ug/Kg		104	70 - 125
Toluene	50.0	52.4		ug/Kg		105	70 - 125
1,3,5-Trimethylbenzene	50.0	53.5		ug/Kg		107	70 - 125
trans-1,2-Dichloroethene	50.0	55.6		ug/Kg		111	70 - 125
trans-1,3-Dichloropropene	50.0	49.0		ug/Kg		98	70 - 135
m-Xylene & p-Xylene	50.0	53.8		ug/Kg		108	70 - 125
Trichloroethene	50.0	54.8		ug/Kg		110	70 - 125
o-Xylene	50.0	51.3		ug/Kg		103	70 - 125
Trichlorofluoromethane	50.0	37.0		ug/Kg		74	60 - 145
Vinyl acetate	50.0	45.8		ug/Kg		92	45 - 145
Vinyl chloride	50.0	31.6		ug/Kg		63	55 - 135
2,2-Dichloropropane	50.0	44.7		ug/Kg		89	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519479/5
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*70*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: MB 440-519482/4
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/27/18 08:46	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/27/18 08:46	1
Benzene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Bromobenzene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Bromoform	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Bromomethane	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			12/27/18 08:46	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			12/27/18 08:46	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Chloroethane	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Chloroform	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Chloromethane	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
2-Hexanone	ND		10	5.0	ug/Kg			12/27/18 08:46	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Dibromomethane	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			12/27/18 08:46	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519482/4
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		10	5.0	ug/Kg			12/27/18 08:46	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Naphthalene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/27/18 08:46	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Styrene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/27/18 08:46	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			12/27/18 08:46	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Toluene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Trichloroethene	ND		1.0	0.50	ug/Kg			12/27/18 08:46	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			12/27/18 08:46	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			12/27/18 08:46	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/27/18 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*12/27/18 08:46*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*		*12/27/18 08:46*	*1*

Lab Sample ID: LCS 440-519482/5
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	52.9		ug/Kg		106	75 - 120
1,3-Dichlorobenzene	50.0	51.3		ug/Kg		103	75 - 125
2-Butanone (MEK)	50.0	52.5		ug/Kg		105	40 - 145
1,4-Dichlorobenzene	50.0	51.4		ug/Kg		103	75 - 120
2-Chlorotoluene	50.0	48.8		ug/Kg		98	70 - 125
1,3-Dichloropropane	50.0	52.4		ug/Kg		105	70 - 125
1,1-Dichloropropene	50.0	55.0		ug/Kg		110	70 - 130
4-Chlorotoluene	50.0	49.2		ug/Kg		98	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/Kg		99	50 - 135
Benzene	50.0	51.5		ug/Kg		103	65 - 120
Bromobenzene	50.0	55.7		ug/Kg		111	75 - 120
1,1-Dichloroethane	50.0	52.4		ug/Kg		105	70 - 130
Bromoform	50.0	55.7		ug/Kg		111	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519482/5
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	55.5		ug/Kg		111	60 - 140
Bromomethane	50.0	42.7		ug/Kg		85	60 - 145
1,1-Dichloroethene	50.0	54.3		ug/Kg		109	70 - 125
Carbon disulfide	50.0	50.7		ug/Kg		101	50 - 130
Carbon tetrachloride	50.0	54.6		ug/Kg		109	65 - 140
Chlorobenzene	50.0	50.1		ug/Kg		100	75 - 120
1,2-Dichloropropane	50.0	55.8		ug/Kg		112	70 - 130
Chlorobromomethane	50.0	53.8		ug/Kg		108	70 - 135
Chlorodibromomethane	50.0	56.9		ug/Kg		114	65 - 140
Chloroethane	50.0	46.4		ug/Kg		93	60 - 140
Chloroform	50.0	51.8		ug/Kg		104	70 - 130
Chloromethane	50.0	40.2		ug/Kg		80	45 - 145
2-Hexanone	50.0	56.5		ug/Kg		113	40 - 150
cis-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	50.0	57.2		ug/Kg		114	75 - 125
4-Isopropyltoluene	50.0	49.3		ug/Kg		99	75 - 125
Dibromomethane	50.0	57.8		ug/Kg		116	70 - 130
Dichlorobromomethane	50.0	52.7		ug/Kg		105	70 - 135
4-Methyl-2-pentanone (MIBK)	50.0	64.3		ug/Kg		129	40 - 145
Dichlorodifluoromethane	50.0	37.0		ug/Kg		74	35 - 160
Ethylbenzene	50.0	50.4		ug/Kg		101	70 - 125
Ethylene Dibromide	50.0	55.6		ug/Kg		111	70 - 130
Hexachlorobutadiene	50.0	43.2		ug/Kg		86	60 - 135
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/Kg		108	70 - 130
Isopropylbenzene	50.0	50.4		ug/Kg		101	75 - 130
1,1,2,2-Tetrachloroethane	50.0	51.4		ug/Kg		103	55 - 140
Methyl tert-butyl ether	50.0	52.0		ug/Kg		104	60 - 140
Methylene Chloride	50.0	50.1		ug/Kg		100	55 - 135
1,2,3-Trichlorobenzene	50.0	45.0		ug/Kg		90	60 - 130
Naphthalene	50.0	43.7		ug/Kg		87	55 - 135
1,2,4-Trichlorobenzene	50.0	45.5		ug/Kg		91	70 - 135
n-Butylbenzene	50.0	47.9		ug/Kg		96	70 - 130
1,1,1-Trichloroethane	50.0	52.1		ug/Kg		104	65 - 135
N-Propylbenzene	50.0	51.4		ug/Kg		103	70 - 130
1,1,2-Trichloroethane	50.0	57.0		ug/Kg		114	65 - 135
sec-Butylbenzene	50.0	48.2		ug/Kg		96	70 - 125
Styrene	50.0	45.4		ug/Kg		91	75 - 130
1,2,3-Trichloropropane	50.0	52.3		ug/Kg		105	60 - 135
tert-Butylbenzene	50.0	49.0		ug/Kg		98	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.8		ug/Kg		104	60 - 140
Tetrachloroethene	50.0	56.6		ug/Kg		113	70 - 125
1,2,4-Trimethylbenzene	50.0	49.2		ug/Kg		98	70 - 125
Toluene	50.0	51.2		ug/Kg		102	70 - 125
1,3,5-Trimethylbenzene	50.0	49.2		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	50.0	55.4		ug/Kg		111	70 - 125
trans-1,3-Dichloropropene	50.0	56.1		ug/Kg		112	70 - 135
m-Xylene & p-Xylene	50.0	52.2		ug/Kg		104	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519482/5
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	56.2		ug/Kg		112	70 - 125
o-Xylene	50.0	51.3		ug/Kg		103	70 - 125
Trichlorofluoromethane	50.0	45.6		ug/Kg		91	60 - 145
Vinyl acetate	50.0	58.4		ug/Kg		117	45 - 145
Vinyl chloride	50.0	41.5		ug/Kg		83	55 - 135
2,2-Dichloropropane	50.0	51.6		ug/Kg		103	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*106*		*79 - 123*

Lab Sample ID: 440-228439-F-1 MS
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		243	247		ug/Kg		102	70 - 130
1,3-Dichlorobenzene	ND		243	243		ug/Kg		100	70 - 130
2-Butanone (MEK)	ND	*	243	254		ug/Kg		104	25 - 170
1,4-Dichlorobenzene	ND		243	255		ug/Kg		105	70 - 130
2-Chlorotoluene	ND		243	255		ug/Kg		105	60 - 135
1,3-Dichloropropane	ND		243	275		ug/Kg		113	65 - 140
1,1-Dichloropropene	ND		243	257		ug/Kg		106	65 - 135
4-Chlorotoluene	ND		243	257		ug/Kg		106	65 - 135
1,2-Dibromo-3-Chloropropane	ND	*	243	243		ug/Kg		100	40 - 150
Benzene	ND		243	248		ug/Kg		102	65 - 130
Bromobenzene	ND		243	287		ug/Kg		118	65 - 140
1,1-Dichloroethane	ND		243	262		ug/Kg		108	65 - 135
Bromoform	ND		243	260		ug/Kg		107	50 - 145
1,2-Dichloroethane	ND		243	258		ug/Kg		106	60 - 150
Bromomethane	ND		243	203		ug/Kg		84	60 - 155
1,1-Dichloroethene	ND		243	252		ug/Kg		104	65 - 135
Carbon disulfide	ND		243	224		ug/Kg		92	40 - 140
Carbon tetrachloride	ND		243	253		ug/Kg		104	60 - 145
Chlorobenzene	ND		243	241		ug/Kg		99	70 - 130
1,2-Dichloropropane	ND		243	263		ug/Kg		108	65 - 130
Chlorobromomethane	ND		243	260		ug/Kg		107	65 - 145
Chlorodibromomethane	ND		243	286		ug/Kg		118	60 - 145
Chloroethane	ND		243	218		ug/Kg		90	60 - 150
Chloroform	ND		243	254		ug/Kg		105	65 - 135
Chloromethane	ND		243	183		ug/Kg		75	40 - 145
2-Hexanone	ND	*	243	258		ug/Kg		106	35 - 160
cis-1,2-Dichloroethene	ND		243	270		ug/Kg		111	65 - 135
cis-1,3-Dichloropropene	ND		243	302		ug/Kg		124	70 - 135
4-Isopropyltoluene	4.1	J	243	253		ug/Kg		102	60 - 140
Dibromomethane	ND		243	269		ug/Kg		111	65 - 140
Dichlorobromomethane	ND		243	259		ug/Kg		107	65 - 145
4-Methyl-2-pentanone (MIBK)	ND	* F1	243	316		ug/Kg		130	40 - 155

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228439-F-1 MS
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		243	138		ug/Kg		57	30 - 160
Ethylbenzene	ND		243	246		ug/Kg		101	70 - 135
Ethylene Dibromide	ND		243	270		ug/Kg		111	65 - 140
Hexachlorobutadiene	ND		243	159		ug/Kg		66	50 - 145
1,1,1,2-Tetrachloroethane	ND		243	265		ug/Kg		109	65 - 145
Isopropylbenzene	ND		243	236		ug/Kg		97	70 - 145
1,1,2,2-Tetrachloroethane	ND		243	283		ug/Kg		117	40 - 160
Methyl tert-butyl ether	ND		243	252		ug/Kg		104	55 - 155
Methylene Chloride	ND		243	265		ug/Kg		109	55 - 145
1,2,3-Trichlorobenzene	ND		243	160		ug/Kg		66	45 - 145
Naphthalene	ND		243	160		ug/Kg		66	40 - 150
1,2,4-Trichlorobenzene	ND		243	170		ug/Kg		70	50 - 140
n-Butylbenzene	ND		243	233		ug/Kg		96	55 - 145
1,1,1-Trichloroethane	ND		243	252		ug/Kg		104	65 - 145
N-Propylbenzene	ND		243	269		ug/Kg		111	65 - 140
1,1,2-Trichloroethane	ND		243	288		ug/Kg		119	65 - 140
sec-Butylbenzene	ND		243	246		ug/Kg		101	60 - 135
Styrene	ND		243	223		ug/Kg		92	70 - 140
1,2,3-Trichloropropane	ND		243	290		ug/Kg		119	50 - 150
tert-Butylbenzene	ND		243	246		ug/Kg		101	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		243	226		ug/Kg		93	60 - 140
Tetrachloroethene	ND		243	283		ug/Kg		117	65 - 135
1,2,4-Trimethylbenzene	ND		243	242		ug/Kg		100	65 - 140
Toluene	ND		243	265		ug/Kg		109	70 - 130
1,3,5-Trimethylbenzene	ND		243	249		ug/Kg		103	65 - 135
trans-1,2-Dichloroethene	ND		243	264		ug/Kg		109	70 - 135
trans-1,3-Dichloropropene	ND		243	282		ug/Kg		116	60 - 145
m-Xylene & p-Xylene	ND		243	250		ug/Kg		103	70 - 130
Trichloroethene	ND		243	253		ug/Kg		104	65 - 140
o-Xylene	ND		243	240		ug/Kg		99	65 - 130
Trichlorofluoromethane	ND		243	205		ug/Kg		84	55 - 155
Vinyl acetate	ND	F1	243	31.8	J F1	ug/Kg		13	40 - 150
Vinyl chloride	ND		243	192		ug/Kg		79	55 - 140
2,2-Dichloropropane	ND		243	270		ug/Kg		111	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*113*		*79 - 123*

Lab Sample ID: 440-228439-F-1 MSD
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		240	249		ug/Kg		103	70 - 130	1	25
1,3-Dichlorobenzene	ND		240	247		ug/Kg		103	70 - 130	2	25
2-Butanone (MEK)	ND	*	240	281		ug/Kg		117	25 - 170	10	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228439-F-1 MSD
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		240	255		ug/Kg		106	70 - 130	0	25
2-Chlorotoluene	ND		240	257		ug/Kg		107	60 - 135	1	25
1,3-Dichloropropane	ND		240	278		ug/Kg		116	65 - 140	1	25
1,1-Dichloropropene	ND		240	248		ug/Kg		103	65 - 135	4	20
4-Chlorotoluene	ND		240	254		ug/Kg		106	65 - 135	1	25
1,2-Dibromo-3-Chloropropane	ND	*	240	275		ug/Kg		114	40 - 150	12	30
Benzene	ND		240	250		ug/Kg		104	65 - 130	1	20
Bromobenzene	ND		240	292		ug/Kg		122	65 - 140	2	25
1,1-Dichloroethane	ND		240	262		ug/Kg		109	65 - 135	0	25
Bromoform	ND		240	270		ug/Kg		113	50 - 145	4	30
1,2-Dichloroethane	ND		240	270		ug/Kg		112	60 - 150	4	25
Bromomethane	ND		240	206		ug/Kg		86	60 - 155	1	25
1,1-Dichloroethene	ND		240	248		ug/Kg		103	65 - 135	1	25
Carbon disulfide	ND		240	226		ug/Kg		94	40 - 140	1	20
Carbon tetrachloride	ND		240	243		ug/Kg		101	60 - 145	4	25
Chlorobenzene	ND		240	242		ug/Kg		101	70 - 130	1	25
1,2-Dichloropropane	ND		240	263		ug/Kg		109	65 - 130	0	20
Chlorobromomethane	ND		240	274		ug/Kg		114	65 - 145	5	25
Chlorodibromomethane	ND		240	292		ug/Kg		121	60 - 145	2	25
Chloroethane	ND		240	219		ug/Kg		91	60 - 150	1	25
Chloroform	ND		240	256		ug/Kg		106	65 - 135	1	20
Chloromethane	ND		240	178		ug/Kg		74	40 - 145	2	25
2-Hexanone	ND	*	240	334		ug/Kg		139	35 - 160	26	40
cis-1,2-Dichloroethene	ND		240	262		ug/Kg		109	65 - 135	3	25
cis-1,3-Dichloropropene	ND		240	309		ug/Kg		129	70 - 135	2	25
4-Isopropyltoluene	4.1	J	240	245		ug/Kg		100	60 - 140	3	25
Dibromomethane	ND		240	272		ug/Kg		113	65 - 140	1	25
Dichlorobromomethane	ND		240	257		ug/Kg		107	65 - 145	1	20
4-Methyl-2-pentanone (MIBK)	ND	* F1	240	377	F1	ug/Kg		157	40 - 155	18	40
Dichlorodifluoromethane	ND		240	138		ug/Kg		58	30 - 160	0	35
Ethylbenzene	ND		240	241		ug/Kg		100	70 - 135	2	25
Ethylene Dibromide	ND		240	285		ug/Kg		119	65 - 140	5	25
Hexachlorobutadiene	ND		240	141		ug/Kg		58	50 - 145	12	35
1,1,1,2-Tetrachloroethane	ND		240	258		ug/Kg		107	65 - 145	3	20
Isopropylbenzene	ND		240	225		ug/Kg		94	70 - 145	5	25
1,1,2,2-Tetrachloroethane	ND		240	316		ug/Kg		132	40 - 160	11	30
Methyl tert-butyl ether	ND		240	263		ug/Kg		109	55 - 155	4	35
Methylene Chloride	ND		240	264		ug/Kg		110	55 - 145	0	25
1,2,3-Trichlorobenzene	ND		240	155		ug/Kg		64	45 - 145	3	30
Naphthalene	ND		240	152		ug/Kg		63	40 - 150	5	40
1,2,4-Trichlorobenzene	ND		240	163		ug/Kg		68	50 - 140	4	30
n-Butylbenzene	ND		240	222		ug/Kg		92	55 - 145	5	30
1,1,1-Trichloroethane	ND		240	241		ug/Kg		100	65 - 145	5	20
N-Propylbenzene	ND		240	268		ug/Kg		111	65 - 140	0	25
1,1,2-Trichloroethane	ND		240	319		ug/Kg		133	65 - 140	10	30
sec-Butylbenzene	ND		240	238		ug/Kg		99	60 - 135	3	25
Styrene	ND		240	213		ug/Kg		89	70 - 140	5	25
1,2,3-Trichloropropane	ND		240	329		ug/Kg		137	50 - 150	13	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228439-F-1 MSD
Matrix: Solid
Analysis Batch: 519482

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene	ND		240	248		ug/Kg		103	60 - 140	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		240	213		ug/Kg		89	60 - 140	6	40
Tetrachloroethene	ND		240	280		ug/Kg		117	65 - 135	1	25
1,2,4-Trimethylbenzene	ND		240	242		ug/Kg		101	65 - 140	0	25
Toluene	ND		240	261		ug/Kg		109	70 - 130	1	20
1,3,5-Trimethylbenzene	ND		240	250		ug/Kg		104	65 - 135	0	25
trans-1,2-Dichloroethene	ND		240	260		ug/Kg		108	70 - 135	1	25
trans-1,3-Dichloropropene	ND		240	299		ug/Kg		125	60 - 145	6	25
m-Xylene & p-Xylene	ND		240	243		ug/Kg		101	70 - 130	3	25
Trichloroethene	ND		240	246		ug/Kg		102	65 - 140	3	25
o-Xylene	ND		240	226		ug/Kg		94	65 - 130	6	25
Trichlorofluoromethane	ND		240	195		ug/Kg		81	55 - 155	5	25
Vinyl acetate	ND	F1	240	ND	F1	ug/Kg		0	40 - 150	NC	30
Vinyl chloride	ND		240	185		ug/Kg		77	55 - 140	4	30
2,2-Dichloropropane	ND		240	258		ug/Kg		107	65 - 150	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*112*		*79 - 123*

Lab Sample ID: 720-90479-A-9-B MS
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: 720-90479-A-9-B MS
Prep Type: Total/NA
Prep Batch: 519537

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		44.9	48.3		ug/Kg		108	70 - 130
1,3-Dichlorobenzene	ND		44.9	47.9		ug/Kg		107	70 - 130
2-Butanone (MEK)	ND		44.9	57.9		ug/Kg		129	25 - 170
1,4-Dichlorobenzene	ND		44.9	49.7		ug/Kg		111	70 - 130
2-Chlorotoluene	ND		44.9	46.9		ug/Kg		105	60 - 135
1,3-Dichloropropane	ND		44.9	41.2		ug/Kg		92	65 - 140
1,1-Dichloropropene	ND		44.9	45.8		ug/Kg		102	65 - 135
4-Chlorotoluene	ND		44.9	46.4		ug/Kg		103	65 - 135
1,2-Dibromo-3-Chloropropane	ND		44.9	39.3		ug/Kg		88	40 - 150
Benzene	ND		44.9	45.3		ug/Kg		101	65 - 130
Bromobenzene	ND		44.9	53.0		ug/Kg		118	65 - 140
1,1-Dichloroethane	ND		44.9	33.0		ug/Kg		74	65 - 135
Bromoform	ND		44.9	46.4		ug/Kg		103	50 - 145
1,2-Dichloroethane	ND		44.9	34.3		ug/Kg		77	60 - 150
Bromomethane	ND		44.9	33.7		ug/Kg		75	60 - 155
1,1-Dichloroethene	ND		44.9	41.7		ug/Kg		93	65 - 135
Carbon disulfide	ND		44.9	39.1		ug/Kg		87	40 - 140
Carbon tetrachloride	ND		44.9	42.2		ug/Kg		94	60 - 145
Chlorobenzene	ND		44.9	45.4		ug/Kg		101	70 - 130
1,2-Dichloropropane	ND		44.9	39.8		ug/Kg		89	65 - 130
Chlorobromomethane	ND		44.9	49.4		ug/Kg		110	65 - 145
Chlorodibromomethane	ND		44.9	43.1		ug/Kg		96	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90479-A-9-B MS
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: 720-90479-A-9-B MS
Prep Type: Total/NA
Prep Batch: 519537

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	ND		44.9	27.6		ug/Kg		61	60 - 150
Chloroform	ND		44.9	43.5		ug/Kg		97	65 - 135
Chloromethane	ND		44.9	21.2		ug/Kg		47	40 - 145
2-Hexanone	ND		44.9	41.0		ug/Kg		91	35 - 160
cis-1,2-Dichloroethene	ND		44.9	47.6		ug/Kg		106	65 - 135
cis-1,3-Dichloropropene	ND		44.9	46.7		ug/Kg		104	70 - 135
4-Isopropyltoluene	ND		44.9	48.6		ug/Kg		108	60 - 140
Dibromomethane	ND		44.9	42.4		ug/Kg		94	65 - 140
Dichlorobromomethane	ND		44.9	42.0		ug/Kg		93	65 - 145
4-Methyl-2-pentanone (MIBK)	ND		44.9	37.9		ug/Kg		85	40 - 155
Dichlorodifluoromethane	ND		44.9	20.8		ug/Kg		46	30 - 160
Ethylbenzene	ND		44.9	43.5		ug/Kg		97	70 - 135
Ethylene Dibromide	ND		44.9	46.0		ug/Kg		102	65 - 140
Hexachlorobutadiene	ND		44.9	47.3		ug/Kg		105	50 - 145
1,1,1,2-Tetrachloroethane	ND		44.9	47.6		ug/Kg		106	65 - 145
Isopropylbenzene	ND		44.9	46.1		ug/Kg		103	70 - 145
1,1,2,2-Tetrachloroethane	ND		44.9	47.6		ug/Kg		106	40 - 160
Methyl tert-butyl ether	ND		44.9	48.8		ug/Kg		109	55 - 155
Methylene Chloride	ND		44.9	43.9		ug/Kg		98	55 - 145
1,2,3-Trichlorobenzene	ND		44.9	52.5		ug/Kg		117	45 - 145
Naphthalene	ND		44.9	50.6		ug/Kg		113	40 - 150
1,2,4-Trichlorobenzene	ND		44.9	52.3		ug/Kg		116	50 - 140
n-Butylbenzene	ND		44.9	46.3		ug/Kg		103	55 - 145
1,1,1-Trichloroethane	ND		44.9	44.0		ug/Kg		98	65 - 145
N-Propylbenzene	ND		44.9	47.3		ug/Kg		105	65 - 140
1,1,2-Trichloroethane	ND		44.9	45.8		ug/Kg		102	65 - 140
sec-Butylbenzene	ND		44.9	48.3		ug/Kg		108	60 - 135
Styrene	ND		44.9	46.0		ug/Kg		102	70 - 140
1,2,3-Trichloropropane	ND		44.9	47.5		ug/Kg		106	50 - 150
tert-Butylbenzene	ND		44.9	48.4		ug/Kg		108	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		44.9	41.3		ug/Kg		92	60 - 140
Tetrachloroethene	ND		44.9	45.0		ug/Kg		100	65 - 135
1,2,4-Trimethylbenzene	ND		44.9	46.8		ug/Kg		104	65 - 140
Toluene	0.70	J	44.9	44.7		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	ND		44.9	48.6		ug/Kg		108	65 - 135
trans-1,2-Dichloroethene	ND		44.9	47.0		ug/Kg		105	70 - 135
trans-1,3-Dichloropropene	ND		44.9	45.1		ug/Kg		100	60 - 145
m-Xylene & p-Xylene	ND		44.9	46.6		ug/Kg		104	70 - 130
Trichloroethene	ND		44.9	48.7		ug/Kg		109	65 - 140
o-Xylene	ND		44.9	45.6		ug/Kg		102	65 - 130
Trichlorofluoromethane	ND		44.9	30.0		ug/Kg		67	55 - 155
Vinyl acetate	ND		44.9	41.8		ug/Kg		93	40 - 150
Vinyl chloride	ND	F1	44.9	24.1	F1	ug/Kg		54	55 - 140
2,2-Dichloropropane	ND		44.9	41.0		ug/Kg		91	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*74*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90479-A-9-B MS
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: 720-90479-A-9-B MS
Prep Type: Total/NA
Prep Batch: 519537

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	98		79 - 123

Lab Sample ID: 720-90479-A-9-C MSD
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: 720-90479-A-9-C MSD
Prep Type: Total/NA
Prep Batch: 519537

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		51.1	54.5		ug/Kg		107	70 - 130	12	25
1,3-Dichlorobenzene	ND		51.1	54.2		ug/Kg		106	70 - 130	12	25
2-Butanone (MEK)	ND		51.1	56.6		ug/Kg		111	25 - 170	2	40
1,4-Dichlorobenzene	ND		51.1	54.6		ug/Kg		107	70 - 130	9	25
2-Chlorotoluene	ND		51.1	53.1		ug/Kg		104	60 - 135	12	25
1,3-Dichloropropane	ND		51.1	48.9		ug/Kg		96	65 - 140	17	25
1,1-Dichloropropene	ND		51.1	50.9		ug/Kg		100	65 - 135	11	20
4-Chlorotoluene	ND		51.1	52.8		ug/Kg		103	65 - 135	13	25
1,2-Dibromo-3-Chloropropane	ND		51.1	43.1		ug/Kg		84	40 - 150	9	30
Benzene	ND		51.1	51.2		ug/Kg		100	65 - 130	12	20
Bromobenzene	ND		51.1	61.0		ug/Kg		119	65 - 140	14	25
1,1-Dichloroethane	ND		51.1	38.5		ug/Kg		75	65 - 135	15	25
Bromoform	ND		51.1	56.3		ug/Kg		110	50 - 145	19	30
1,2-Dichloroethane	ND		51.1	38.8		ug/Kg		76	60 - 150	12	25
Bromomethane	ND		51.1	38.2		ug/Kg		75	60 - 155	12	25
1,1-Dichloroethene	ND		51.1	46.8		ug/Kg		91	65 - 135	11	25
Carbon disulfide	ND		51.1	44.1		ug/Kg		86	40 - 140	12	20
Carbon tetrachloride	ND		51.1	47.0		ug/Kg		92	60 - 145	11	25
Chlorobenzene	ND		51.1	53.2		ug/Kg		104	70 - 130	16	25
1,2-Dichloropropane	ND		51.1	44.1		ug/Kg		86	65 - 130	10	20
Chlorobromomethane	ND		51.1	54.2		ug/Kg		106	65 - 145	9	25
Chlorodibromomethane	ND		51.1	51.4		ug/Kg		101	60 - 145	17	25
Chloroethane	ND		51.1	30.6		ug/Kg		60	60 - 150	10	25
Chloroform	ND		51.1	48.9		ug/Kg		96	65 - 135	12	20
Chloromethane	ND		51.1	24.8		ug/Kg		48	40 - 145	15	25
2-Hexanone	ND		51.1	45.2		ug/Kg		89	35 - 160	10	40
cis-1,2-Dichloroethene	ND		51.1	52.9		ug/Kg		104	65 - 135	11	25
cis-1,3-Dichloropropene	ND		51.1	56.1		ug/Kg		110	70 - 135	18	25
4-Isopropyltoluene	ND		51.1	54.2		ug/Kg		106	60 - 140	11	25
Dibromomethane	ND		51.1	48.5		ug/Kg		95	65 - 140	13	25
Dichlorobromomethane	ND		51.1	49.0		ug/Kg		96	65 - 145	15	20
4-Methyl-2-pentanone (MIBK)	ND		51.1	44.5		ug/Kg		87	40 - 155	16	40
Dichlorodifluoromethane	ND		51.1	23.4		ug/Kg		46	30 - 160	12	35
Ethylbenzene	ND		51.1	50.3		ug/Kg		98	70 - 135	14	25
Ethylene Dibromide	ND		51.1	53.3		ug/Kg		104	65 - 140	15	25
Hexachlorobutadiene	ND		51.1	50.1		ug/Kg		98	50 - 145	6	35
1,1,1,2-Tetrachloroethane	ND		51.1	55.1		ug/Kg		108	65 - 145	15	20
Isopropylbenzene	ND		51.1	53.9		ug/Kg		105	70 - 145	16	25
1,1,2,2-Tetrachloroethane	ND		51.1	54.4		ug/Kg		106	40 - 160	13	30
Methyl tert-butyl ether	ND		51.1	55.4		ug/Kg		108	55 - 155	13	35
Methylene Chloride	ND		51.1	49.6		ug/Kg		97	55 - 145	12	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90479-A-9-C MSD
Matrix: Solid
Analysis Batch: 519479

Client Sample ID: 720-90479-A-9-C MSD
Prep Type: Total/NA
Prep Batch: 519537

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	ND		51.1	55.8		ug/Kg		109	45 - 145	6	30
Naphthalene	ND		51.1	54.9		ug/Kg		107	40 - 150	8	40
1,2,4-Trichlorobenzene	ND		51.1	55.9		ug/Kg		109	50 - 140	7	30
n-Butylbenzene	ND		51.1	50.2		ug/Kg		98	55 - 145	8	30
1,1,1-Trichloroethane	ND		51.1	47.5		ug/Kg		93	65 - 145	8	20
N-Propylbenzene	ND		51.1	53.9		ug/Kg		105	65 - 140	13	25
1,1,2-Trichloroethane	ND		51.1	51.1		ug/Kg		100	65 - 140	11	30
sec-Butylbenzene	ND		51.1	54.2		ug/Kg		106	60 - 135	12	25
Styrene	ND		51.1	50.8		ug/Kg		99	70 - 140	10	25
1,2,3-Trichloropropane	ND		51.1	58.6		ug/Kg		115	50 - 150	21	30
tert-Butylbenzene	ND		51.1	55.3		ug/Kg		108	60 - 140	13	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51.1	46.3		ug/Kg		91	60 - 140	12	40
Tetrachloroethene	ND		51.1	52.6		ug/Kg		103	65 - 135	16	25
1,2,4-Trimethylbenzene	ND		51.1	55.4		ug/Kg		108	65 - 140	17	25
Toluene	0.70	J	51.1	53.0		ug/Kg		102	70 - 130	17	20
1,3,5-Trimethylbenzene	ND		51.1	54.5		ug/Kg		107	65 - 135	11	25
trans-1,2-Dichloroethene	ND		51.1	55.9		ug/Kg		109	70 - 135	17	25
trans-1,3-Dichloropropene	ND		51.1	52.2		ug/Kg		102	60 - 145	15	25
m-Xylene & p-Xylene	ND		51.1	53.1		ug/Kg		104	70 - 130	13	25
Trichloroethene	ND		51.1	54.9		ug/Kg		107	65 - 140	12	25
o-Xylene	ND		51.1	52.7		ug/Kg		103	65 - 130	14	25
Trichlorofluoromethane	ND		51.1	34.8		ug/Kg		68	55 - 155	15	25
Vinyl acetate	ND		51.1	43.3		ug/Kg		85	40 - 150	4	30
Vinyl chloride	ND	F1	51.1	28.7		ug/Kg		56	55 - 140	18	30
2,2-Dichloropropane	ND		51.1	46.1		ug/Kg		90	65 - 150	12	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*71*		*70 - 130*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: MB 440-519967/4
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			12/29/18 08:27	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/18 08:27	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/18 08:27	1
Benzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519967/4
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Bromoform	ND		1.0	0.40	ug/L			12/29/18 08:27	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			12/29/18 08:27	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/18 08:27	1
Chloroform	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
2-Hexanone	ND		5.0	2.5	ug/L			12/29/18 08:27	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			12/29/18 08:27	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/18 08:27	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/18 08:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/18 08:27	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Styrene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/18 08:27	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			12/29/18 08:27	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Toluene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/18 08:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-519967/4
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Vinyl acetate	ND		4.0	2.0	ug/L			12/29/18 08:27	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/18 08:27	1
Xylenes, Total	ND		1.0	0.50	ug/L			12/29/18 08:27	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/18 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/29/18 08:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 08:27*	*1*

Lab Sample ID: LCS 440-519967/5
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	21.8		ug/L		87	10 - 150
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	25.9		ug/L		103	70 - 130
2-Butanone (MEK)	25.0	27.2		ug/L		109	44 - 150
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
2-Chlorotoluene	25.0	27.2		ug/L		109	70 - 130
1,3-Dichloropropane	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
4-Chlorotoluene	25.0	26.8		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.4		ug/L		94	52 - 140
Benzene	25.0	23.8		ug/L		95	68 - 130
Bromobenzene	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloroethane	25.0	23.9		ug/L		95	64 - 130
Bromoform	25.0	29.0		ug/L		116	60 - 148
1,2-Dichloroethane	25.0	22.9		ug/L		92	57 - 138
Bromomethane	25.0	23.5		ug/L		94	64 - 139
1,1-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	52 - 136
Carbon tetrachloride	25.0	26.5		ug/L		106	60 - 150
Chlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,2-Dichloropropane	25.0	24.0		ug/L		96	67 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	25.0	28.0		ug/L		112	69 - 145
Chloroethane	25.0	21.3		ug/L		85	64 - 135
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	21.4		ug/L		85	47 - 140
2-Hexanone	25.0	22.2		ug/L		89	10 - 150
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 133
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 133
4-Isopropyltoluene	25.0	27.7		ug/L		111	70 - 132
Dibromomethane	25.0	25.8		ug/L		103	70 - 130
Dichlorobromomethane	25.0	26.8		ug/L		107	70 - 132

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-519967/5
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	25.0	23.4		ug/L		93	59 - 149
Dichlorodifluoromethane	25.0	21.9		ug/L		88	29 - 150
Ethylbenzene	25.0	24.8		ug/L		99	70 - 130
Ethylene Dibromide	25.0	26.5		ug/L		106	70 - 130
Hexachlorobutadiene	25.0	27.8		ug/L		111	10 - 150
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	60 - 141
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 136
1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		104	63 - 130
Methyl tert-butyl ether	25.0	23.3		ug/L		93	63 - 131
Methylene Chloride	25.0	23.0		ug/L		92	52 - 130
1,2,3-Trichlorobenzene	25.0	26.6		ug/L		106	60 - 140
Naphthalene	25.0	26.0		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	60 - 140
n-Butylbenzene	25.0	28.6		ug/L		114	65 - 150
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
N-Propylbenzene	25.0	27.9		ug/L		111	67 - 139
1,1,2-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
sec-Butylbenzene	25.0	28.0		ug/L		112	70 - 138
Styrene	25.0	25.8		ug/L		103	70 - 134
1,2,3-Trichloropropane	25.0	24.6		ug/L		98	63 - 130
tert-Butylbenzene	25.0	27.6		ug/L		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0		ug/L		100	60 - 140
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	25.0	27.8		ug/L		111	70 - 135
Toluene	25.0	24.6		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	25.0	28.0		ug/L		112	70 - 136
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 132
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 130
Trichloroethene	25.0	25.1		ug/L		100	70 - 130
o-Xylene	25.0	26.1		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	26.5		ug/L		106	60 - 150
Vinyl acetate	25.0	24.7		ug/L		99	48 - 140
Vinyl chloride	25.0	23.6		ug/L		94	59 - 133
2,2-Dichloropropane	25.0	27.1		ug/L		108	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-90445-B-8 MS
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	24.7		ug/L		99	10 - 150
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-B-8 MS
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
2-Butanone (MEK)	ND		25.0	25.0		ug/L		100	48 - 140
1,4-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
2-Chlorotoluene	ND		25.0	27.5		ug/L		110	70 - 130
1,3-Dichloropropane	ND		25.0	25.3		ug/L		101	70 - 130
1,1-Dichloropropene	ND		25.0	25.0		ug/L		100	64 - 130
4-Chlorotoluene	ND		25.0	27.1		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	25.5		ug/L		102	48 - 140
Benzene	ND		25.0	23.9		ug/L		95	66 - 130
Bromobenzene	ND		25.0	26.6		ug/L		106	70 - 130
1,1-Dichloroethane	ND		25.0	23.8		ug/L		95	65 - 130
Bromoform	ND		25.0	30.1		ug/L		120	59 - 150
1,2-Dichloroethane	ND		25.0	23.9		ug/L		96	56 - 146
Bromomethane	ND		25.0	23.9		ug/L		96	62 - 131
1,1-Dichloroethene	ND		25.0	25.1		ug/L		100	70 - 130
Carbon disulfide	ND		25.0	24.9		ug/L		100	49 - 140
Carbon tetrachloride	ND		25.0	27.8		ug/L		111	60 - 150
Chlorobenzene	ND		25.0	24.0		ug/L		96	70 - 130
1,2-Dichloropropane	ND		25.0	24.5		ug/L		98	69 - 130
Chlorobromomethane	ND		25.0	25.2		ug/L		101	70 - 130
Chlorodibromomethane	ND		25.0	29.3		ug/L		117	70 - 148
Chloroethane	ND		25.0	21.5		ug/L		86	68 - 130
Chloroform	ND		25.0	24.4		ug/L		98	70 - 130
Chloromethane	ND		25.0	22.5		ug/L		90	39 - 144
2-Hexanone	ND		25.0	23.3		ug/L		93	10 - 150
cis-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	70 - 133
4-Isopropyltoluene	ND		25.0	27.6		ug/L		111	70 - 130
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130
Dichlorobromomethane	ND		25.0	27.2		ug/L		109	70 - 138
4-Methyl-2-pentanone (MIBK)	ND		25.0	24.0		ug/L		96	52 - 150
Dichlorodifluoromethane	ND		25.0	24.7		ug/L		99	25 - 142
Ethylbenzene	ND		25.0	25.0		ug/L		100	70 - 130
Ethylene Dibromide	ND		25.0	26.9		ug/L		107	70 - 131
Hexachlorobutadiene	ND		25.0	28.6		ug/L		114	10 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	60 - 149
Isopropylbenzene	ND		25.0	26.2		ug/L		105	70 - 132
1,1,2,2-Tetrachloroethane	ND		25.0	26.9		ug/L		107	63 - 130
Methyl tert-butyl ether	7.2		25.0	30.5		ug/L		93	70 - 130
Methylene Chloride	ND		25.0	22.7		ug/L		91	52 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.5		ug/L		106	60 - 140
Naphthalene	ND		25.0	25.9		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140
n-Butylbenzene	ND		25.0	29.4		ug/L		118	61 - 149
1,1,1-Trichloroethane	ND		25.0	27.9		ug/L		112	70 - 130
N-Propylbenzene	ND		25.0	28.3		ug/L		113	66 - 135
1,1,2-Trichloroethane	ND		25.0	26.6		ug/L		107	70 - 130
sec-Butylbenzene	ND		25.0	28.2		ug/L		113	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-B-8 MS
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		25.0	25.7		ug/L		103	29 - 150
1,2,3-Trichloropropane	ND		25.0	25.7		ug/L		103	60 - 130
tert-Butylbenzene	ND		25.0	28.1		ug/L		112	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.8		ug/L		103	60 - 140
Tetrachloroethene	ND		25.0	26.9		ug/L		108	70 - 137
1,2,4-Trimethylbenzene	ND		25.0	27.8		ug/L		111	70 - 130
Toluene	ND		25.0	24.6		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.9		ug/L		112	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.1		ug/L		100	70 - 130
trans-1,3-Dichloropropene	ND		25.0	24.9		ug/L		100	70 - 138
m-Xylene & p-Xylene	ND		25.0	25.5		ug/L		102	70 - 133
Trichloroethene	ND		25.0	25.0		ug/L		100	70 - 130
o-Xylene	ND		25.0	25.7		ug/L		103	70 - 133
Trichlorofluoromethane	ND		25.0	28.0		ug/L		112	60 - 150
Vinyl acetate	ND		25.0	25.0		ug/L		100	23 - 150
Vinyl chloride	ND		25.0	24.1		ug/L		96	50 - 137
2,2-Dichloropropane	ND		25.0	26.6		ug/L		106	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-90445-B-8 MSD
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	26.7		ug/L		107	10 - 150	8	35
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	0	20
2-Butanone (MEK)	ND		25.0	28.1		ug/L		113	48 - 140	12	40
1,4-Dichlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130	3	20
2-Chlorotoluene	ND		25.0	26.4		ug/L		106	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	24.6		ug/L		99	70 - 130	2	25
1,1-Dichloropropene	ND		25.0	24.7		ug/L		99	64 - 130	1	20
4-Chlorotoluene	ND		25.0	26.5		ug/L		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.2		ug/L		101	48 - 140	1	30
Benzene	ND		25.0	23.7		ug/L		95	66 - 130	0	20
Bromobenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
1,1-Dichloroethane	ND		25.0	24.0		ug/L		96	65 - 130	1	20
Bromoform	ND		25.0	28.9		ug/L		115	59 - 150	4	25
1,2-Dichloroethane	ND		25.0	23.6		ug/L		94	56 - 146	1	20
Bromomethane	ND		25.0	26.2		ug/L		105	62 - 131	9	25
1,1-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130	0	20
Carbon disulfide	ND		25.0	25.0		ug/L		100	49 - 140	0	20
Carbon tetrachloride	ND		25.0	27.3		ug/L		109	60 - 150	2	25
Chlorobenzene	ND		25.0	22.8		ug/L		91	70 - 130	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-B-8 MSD
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		25.0	23.8		ug/L		95	69 - 130	3	20
Chlorobromomethane	ND		25.0	25.1		ug/L		101	70 - 130	0	25
Chlorodibromomethane	ND		25.0	27.8		ug/L		111	70 - 148	5	25
Chloroethane	ND		25.0	20.5		ug/L		82	68 - 130	5	25
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130	1	20
Chloromethane	ND		25.0	21.6		ug/L		86	39 - 144	4	25
2-Hexanone	ND		25.0	23.0		ug/L		92	10 - 150	1	35
cis-1,2-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	26.8		ug/L		107	70 - 133	4	20
4-Isopropyltoluene	ND		25.0	27.1		ug/L		109	70 - 130	2	20
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130	0	25
Dichlorobromomethane	ND		25.0	27.4		ug/L		110	70 - 138	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.7		ug/L		95	52 - 150	1	35
Dichlorodifluoromethane	ND		25.0	23.7		ug/L		95	25 - 142	4	30
Ethylbenzene	ND		25.0	23.8		ug/L		95	70 - 130	5	20
Ethylene Dibromide	ND		25.0	25.9		ug/L		104	70 - 131	4	25
Hexachlorobutadiene	ND		25.0	28.8		ug/L		115	10 - 150	1	20
1,1,1,2-Tetrachloroethane	ND		25.0	26.1		ug/L		105	60 - 149	4	20
Isopropylbenzene	ND		25.0	24.9		ug/L		99	70 - 132	5	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.5		ug/L		106	63 - 130	1	30
Methyl tert-butyl ether	7.2		25.0	31.5		ug/L		97	70 - 130	3	25
Methylene Chloride	ND		25.0	23.2		ug/L		93	52 - 130	2	20
1,2,3-Trichlorobenzene	ND		25.0	27.3		ug/L		109	60 - 140	3	20
Naphthalene	ND		25.0	27.9		ug/L		112	60 - 140	7	30
1,2,4-Trichlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140	2	20
n-Butylbenzene	ND		25.0	29.0		ug/L		116	61 - 149	1	20
1,1,1-Trichloroethane	ND		25.0	27.1		ug/L		108	70 - 130	3	20
N-Propylbenzene	ND		25.0	27.3		ug/L		109	66 - 135	4	20
1,1,2-Trichloroethane	ND		25.0	25.1		ug/L		100	70 - 130	6	25
sec-Butylbenzene	ND		25.0	27.7		ug/L		111	67 - 134	2	20
Styrene	ND		25.0	24.6		ug/L		98	29 - 150	4	35
1,2,3-Trichloropropane	ND		25.0	25.7		ug/L		103	60 - 130	0	30
tert-Butylbenzene	ND		25.0	27.6		ug/L		111	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.0		ug/L		100	60 - 140	3	20
Tetrachloroethene	ND		25.0	25.8		ug/L		103	70 - 137	4	20
1,2,4-Trimethylbenzene	ND		25.0	27.1		ug/L		109	70 - 130	3	25
Toluene	ND		25.0	23.5		ug/L		94	70 - 130	5	20
1,3,5-Trimethylbenzene	ND		25.0	27.4		ug/L		110	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	24.9		ug/L		100	70 - 130	1	20
trans-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	70 - 138	2	25
m-Xylene & p-Xylene	ND		25.0	24.7		ug/L		99	70 - 133	3	25
Trichloroethene	ND		25.0	24.5		ug/L		98	70 - 130	2	20
o-Xylene	ND		25.0	24.8		ug/L		99	70 - 133	4	20
Trichlorofluoromethane	ND		25.0	27.2		ug/L		109	60 - 150	3	25
Vinyl acetate	ND		25.0	25.6		ug/L		103	23 - 150	2	30
Vinyl chloride	ND		25.0	24.4		ug/L		97	50 - 137	1	30
2,2-Dichloropropane	ND		25.0	26.4		ug/L		106	69 - 138	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90445-B-8 MSD
Matrix: Water
Analysis Batch: 519967

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-519480/7
Matrix: Solid
Analysis Batch: 519480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/27/18 10:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*60 - 120*		*12/27/18 10:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*12/27/18 10:18*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*		*12/27/18 10:18*	*1*

Lab Sample ID: LCS 440-519480/6
Matrix: Solid
Analysis Batch: 519480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	639		ug/Kg		64	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*92*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*108*		*79 - 123*

Lab Sample ID: MB 440-519483/4
Matrix: Solid
Analysis Batch: 519483

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			12/27/18 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*		*12/27/18 08:46*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*		*12/27/18 08:46*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*		*12/27/18 08:46*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-519483/6
Matrix: Solid
Analysis Batch: 519483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	792		ug/Kg		79	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*116*		*79 - 123*

Lab Sample ID: 440-228439-F-1 MS
Matrix: Solid
Analysis Batch: 519483

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		16700	14000		ug/Kg		83	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*60 - 120*
4-Bromofluorobenzene (Surr)	*115*		*79 - 120*
Toluene-d8 (Surr)	*113*		*79 - 123*

Lab Sample ID: 440-228439-F-1 MSD
Matrix: Solid
Analysis Batch: 519483

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		16600	13900		ug/Kg		84	55 - 140	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*60 - 120*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*
Toluene-d8 (Surr)	*112*		*79 - 123*

Lab Sample ID: 720-90479-A-9-B MS
Matrix: Solid
Analysis Batch: 519480

Client Sample ID: 720-90479-A-9-B MS
Prep Type: Total/NA
Prep Batch: 519537

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	320		3100	2850		ug/Kg		81	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90479-A-9-C MSD
Matrix: Solid
Analysis Batch: 519480

Client Sample ID: 720-90479-A-9-C MSD
Prep Type: Total/NA
Prep Batch: 519537

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	320		3530	3020		ug/Kg		76	55 - 140	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: MB 440-519968/4
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			12/29/18 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*12/29/18 08:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/29/18 08:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*12/29/18 08:27*	*1*

Lab Sample ID: LCS 440-519968/6
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	396		ug/L		79	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-90445-B-8 MS
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1910		ug/L		111	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90445-B-8 MSD
Matrix: Water
Analysis Batch: 519968

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1890		ug/L		109	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-257611/1-A
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Anthracene	ND		5.0	2.0	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[b]fluoranthene	2.22	J	5.0	2.1	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Chrysene	ND		5.0	1.4	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Fluorene	ND		5.0	2.2	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/26/18 13:22	12/28/18 22:09	1
Pyrene	ND		5.0	1.7	ug/Kg		12/26/18 13:22	12/28/18 22:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/26/18 13:22*	*12/28/18 22:09*	*1*
Terphenyl-d14	*90*		*35 - 146*	*12/26/18 13:22*	*12/28/18 22:09*	*1*

Lab Sample ID: LCS 720-257611/2-A
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	451		ug/Kg		68	46 - 110
Acenaphthene	667	459		ug/Kg		69	46 - 106
Acenaphthylene	667	503		ug/Kg		75	46 - 108
Anthracene	667	490		ug/Kg		74	55 - 103
Benzo[a]anthracene	667	549		ug/Kg		82	54 - 110

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-257611/2-A
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	667	557		ug/Kg		84	62 - 111
Benzo[b]fluoranthene	667	548		ug/Kg		82	60 - 109
Benzo[g,h,i]perylene	667	533		ug/Kg		80	52 - 114
Benzo[k]fluoranthene	667	515		ug/Kg		77	58 - 109
Chrysene	667	494		ug/Kg		74	54 - 108
Dibenz(a,h)anthracene	667	544		ug/Kg		82	58 - 112
Fluoranthene	667	536		ug/Kg		80	59 - 109
Fluorene	667	489		ug/Kg		73	52 - 106
Indeno[1,2,3-cd]pyrene	667	567		ug/Kg		85	55 - 120
Naphthalene	667	444		ug/Kg		67	49 - 110
Phenanthrene	667	468		ug/Kg		70	57 - 110
Pyrene	667	553		ug/Kg		83	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*33 - 120*
Terphenyl-d14	*89*		*35 - 146*

Lab Sample ID: 720-90446-E-7-J MS
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		665	455		ug/Kg		68	46 - 110
Acenaphthene	ND		665	458		ug/Kg		69	46 - 106
Acenaphthylene	ND		665	501		ug/Kg		75	46 - 108
Anthracene	2.3	J	665	487		ug/Kg		73	55 - 103
Benzo[a]anthracene	1.7	J	665	551		ug/Kg		83	54 - 110
Benzo[a]pyrene	3.5	J	665	551		ug/Kg		82	62 - 111
Benzo[b]fluoranthene	5.9	B	665	528		ug/Kg		78	60 - 109
Benzo[g,h,i]perylene	ND		665	559		ug/Kg		84	52 - 114
Benzo[k]fluoranthene	2.5	J	665	525		ug/Kg		79	58 - 109
Chrysene	1.5	J	665	499		ug/Kg		75	54 - 108
Dibenz(a,h)anthracene	ND		665	560		ug/Kg		84	58 - 112
Fluoranthene	3.0	J	665	538		ug/Kg		80	59 - 109
Fluorene	ND		665	494		ug/Kg		74	52 - 106
Indeno[1,2,3-cd]pyrene	ND		665	585		ug/Kg		88	55 - 120
Naphthalene	ND		665	446		ug/Kg		67	49 - 110
Phenanthrene	ND		665	469		ug/Kg		71	57 - 110
Pyrene	3.3	J	665	566		ug/Kg		85	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*33 - 120*
Terphenyl-d14	*90*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90446-E-7-K MSD
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		663	462		ug/Kg		70	46 - 110	2	35
Acenaphthene	ND		663	472		ug/Kg		71	46 - 106	3	35
Acenaphthylene	ND		663	518		ug/Kg		78	46 - 108	3	35
Anthracene	2.3	J	663	501		ug/Kg		75	55 - 103	3	35
Benzo[a]anthracene	1.7	J	663	557		ug/Kg		84	54 - 110	1	35
Benzo[a]pyrene	3.5	J	663	558		ug/Kg		84	62 - 111	1	35
Benzo[b]fluoranthene	5.9	B	663	566		ug/Kg		84	60 - 109	7	35
Benzo[g,h,i]perylene	ND		663	551		ug/Kg		83	52 - 114	1	35
Benzo[k]fluoranthene	2.5	J	663	490		ug/Kg		74	58 - 109	7	35
Chrysene	1.5	J	663	502		ug/Kg		76	54 - 108	1	35
Dibenz(a,h)anthracene	ND		663	560		ug/Kg		85	58 - 112	0	35
Fluoranthene	3.0	J	663	546		ug/Kg		82	59 - 109	1	35
Fluorene	ND		663	506		ug/Kg		76	52 - 106	2	35
Indeno[1,2,3-cd]pyrene	ND		663	581		ug/Kg		88	55 - 120	1	35
Naphthalene	ND		663	451		ug/Kg		68	49 - 110	1	35
Phenanthrene	ND		663	482		ug/Kg		73	57 - 110	3	35
Pyrene	3.3	J	663	573		ug/Kg		86	50 - 120	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*33 - 120*
Terphenyl-d14	*91*		*35 - 146*

Lab Sample ID: MB 720-257660/1-A
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Anthracene	ND		5.0	2.0	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Benzo[b]fluoranthene	2.17	J	5.0	2.1	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Chrysene	ND		5.0	1.4	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Fluorene	ND		5.0	2.2	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/27/18 09:33	12/28/18 22:56	1
Pyrene	ND		5.0	1.7	ug/Kg		12/27/18 09:33	12/28/18 22:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*12/27/18 09:33*	*12/28/18 22:56*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-257660/1-A
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257660

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	87		35 - 146	12/27/18 09:33	12/28/18 22:56	1

Lab Sample ID: LCS 720-257660/2-A
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	455		ug/Kg		68	46 - 110
Acenaphthene	667	470		ug/Kg		71	46 - 106
Acenaphthylene	667	513		ug/Kg		77	46 - 108
Anthracene	667	503		ug/Kg		75	55 - 103
Benzo[a]anthracene	667	569		ug/Kg		85	54 - 110
Benzo[a]pyrene	667	581		ug/Kg		87	62 - 111
Benzo[b]fluoranthene	667	576		ug/Kg		86	60 - 109
Benzo[g,h,i]perylene	667	543		ug/Kg		81	52 - 114
Benzo[k]fluoranthene	667	521		ug/Kg		78	58 - 109
Chrysene	667	517		ug/Kg		78	54 - 108
Dibenz(a,h)anthracene	667	558		ug/Kg		84	58 - 112
Fluoranthene	667	559		ug/Kg		84	59 - 109
Fluorene	667	489		ug/Kg		73	52 - 106
Indeno[1,2,3-cd]pyrene	667	583		ug/Kg		87	55 - 120
Naphthalene	667	446		ug/Kg		67	49 - 110
Phenanthrene	667	468		ug/Kg		70	57 - 110
Pyrene	667	564		ug/Kg		85	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	66		33 - 120
Terphenyl-d14	91		35 - 146

Lab Sample ID: 720-90479-9 MS
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257660

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		663	417		ug/Kg		63	46 - 110
Acenaphthene	ND		663	426		ug/Kg		64	46 - 106
Acenaphthylene	2.8	J	663	470		ug/Kg		70	46 - 108
Anthracene	6.5		663	455		ug/Kg		68	55 - 103
Benzo[a]anthracene	6.6		663	517		ug/Kg		77	54 - 110
Benzo[a]pyrene	5.7		663	507		ug/Kg		76	62 - 111
Benzo[b]fluoranthene	10	B	663	510		ug/Kg		75	60 - 109
Benzo[g,h,i]perylene	7.4		663	518		ug/Kg		77	52 - 114
Benzo[k]fluoranthene	4.1	J	663	462		ug/Kg		69	58 - 109
Chrysene	7.0		663	472		ug/Kg		70	54 - 108
Dibenz(a,h)anthracene	ND		663	522		ug/Kg		79	58 - 112
Fluoranthene	13		663	510		ug/Kg		75	59 - 109
Fluorene	ND		663	460		ug/Kg		69	52 - 106
Indeno[1,2,3-cd]pyrene	ND		663	543		ug/Kg		82	55 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90479-9 MS
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257660

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	8.5		663	414		ug/Kg		61	49 - 110
Phenanthrene	4.3	J	663	441		ug/Kg		66	57 - 110
Pyrene	11		663	534		ug/Kg		79	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*61*		*33 - 120*
Terphenyl-d14	*85*		*35 - 146*

Lab Sample ID: 720-90479-9 MSD
Matrix: Solid
Analysis Batch: 257766

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		664	391		ug/Kg		59	46 - 110	6	35
Acenaphthene	ND		664	400		ug/Kg		60	46 - 106	6	35
Acenaphthylene	2.8	J	664	439		ug/Kg		66	46 - 108	7	35
Anthracene	6.5		664	418		ug/Kg		62	55 - 103	8	35
Benzo[a]anthracene	6.6		664	483		ug/Kg		72	54 - 110	7	35
Benzo[a]pyrene	5.7		664	464		ug/Kg		69	62 - 111	9	35
Benzo[b]fluoranthene	10	B	664	483		ug/Kg		71	60 - 109	6	35
Benzo[g,h,i]perylene	7.4		664	465		ug/Kg		69	52 - 114	11	35
Benzo[k]fluoranthene	4.1	J	664	423		ug/Kg		63	58 - 109	9	35
Chrysene	7.0		664	441		ug/Kg		65	54 - 108	7	35
Dibenz(a,h)anthracene	ND		664	480		ug/Kg		72	58 - 112	8	35
Fluoranthene	13		664	482		ug/Kg		71	59 - 109	6	35
Fluorene	ND		664	437		ug/Kg		66	52 - 106	5	35
Indeno[1,2,3-cd]pyrene	ND		664	493		ug/Kg		74	55 - 120	10	35
Naphthalene	8.5		664	384		ug/Kg		57	49 - 110	8	35
Phenanthrene	4.3	J	664	416		ug/Kg		62	57 - 110	6	35
Pyrene	11		664	505		ug/Kg		74	50 - 120	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*57*		*33 - 120*
Terphenyl-d14	*81*		*35 - 146*

Lab Sample ID: MB 720-257791/1-A
Matrix: Solid
Analysis Batch: 257858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Anthracene	ND		5.0	2.0	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Benzo[b]fluoranthene	2.21	J	5.0	2.1	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/31/18 09:05	01/02/19 14:11	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-257791/1-A
Matrix: Solid
Analysis Batch: 257858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Chrysene	ND		5.0	1.4	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Fluorene	ND		5.0	2.2	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/31/18 09:05	01/02/19 14:11	1
Pyrene	ND		5.0	1.7	ug/Kg		12/31/18 09:05	01/02/19 14:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*33 - 120*	*12/31/18 09:05*	*01/02/19 14:11*	*1*
Terphenyl-d14	*79*		*35 - 146*	*12/31/18 09:05*	*01/02/19 14:11*	*1*

Lab Sample ID: LCS 720-257791/2-A
Matrix: Solid
Analysis Batch: 257888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	359		ug/Kg		54	46 - 110
Acenaphthene	667	358		ug/Kg		54	46 - 106
Acenaphthylene	667	394		ug/Kg		59	46 - 108
Anthracene	667	399		ug/Kg		60	55 - 103
Benzo[a]anthracene	667	455		ug/Kg		68	54 - 110
Benzo[a]pyrene	667	470		ug/Kg		70	62 - 111
Benzo[b]fluoranthene	667	460		ug/Kg		69	60 - 109
Benzo[g,h,i]perylene	667	419		ug/Kg		63	52 - 114
Benzo[k]fluoranthene	667	429		ug/Kg		64	58 - 109
Chrysene	667	412		ug/Kg		62	54 - 108
Dibenz(a,h)anthracene	667	444		ug/Kg		67	58 - 112
Fluoranthene	667	443		ug/Kg		66	59 - 109
Fluorene	667	388		ug/Kg		58	52 - 106
Indeno[1,2,3-cd]pyrene	667	462		ug/Kg		69	55 - 120
Naphthalene	667	352		ug/Kg		53	49 - 110
Phenanthrene	667	374	*	ug/Kg		56	57 - 110
Pyrene	667	460		ug/Kg		69	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*53*		*33 - 120*
Terphenyl-d14	*75*		*35 - 146*

Lab Sample ID: 720-90479-8 MS
Matrix: Solid
Analysis Batch: 257888

Client Sample ID: DG-AV5S-0.5-1
Prep Type: Total/NA
Prep Batch: 257791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	110		658	536		ug/Kg		64	46 - 110
Acenaphthene	8.7	J	658	427		ug/Kg		64	46 - 106

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90479-8 MS
Matrix: Solid
Analysis Batch: 257888

Client Sample ID: DG-AV5S-0.5-1
Prep Type: Total/NA
Prep Batch: 257791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	34		658	493		ug/Kg		70	46 - 108
Anthracene	92		658	529		ug/Kg		66	55 - 103
Benzo[a]anthracene	120		658	554		ug/Kg		65	54 - 110
Benzo[a]pyrene	130		658	565	*	ug/Kg		67	62 - 111
Benzo[b]fluoranthene	210	B	658	706	*	ug/Kg		76	60 - 109
Benzo[g,h,i]perylene	120	F1	658	256	F1 *	ug/Kg		21	52 - 114
Benzo[k]fluoranthene	89		658	584	*	ug/Kg		75	58 - 109
Chrysene	150		658	544		ug/Kg		59	54 - 108
Dibenz(a,h)anthracene	20	F1	658	253	F1 *	ug/Kg		35	58 - 112
Fluoranthene	210		658	613		ug/Kg		61	59 - 109
Fluorene	6.8	J	658	469		ug/Kg		70	52 - 106
Indeno[1,2,3-cd]pyrene	59	F1	658	286	F1 *	ug/Kg		35	55 - 120
Naphthalene	87		658	491		ug/Kg		61	49 - 110
Phenanthrene	160	F1 *	658	570		ug/Kg		62	57 - 110
Pyrene	220		658	769		ug/Kg		83	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*33 - 120*
Terphenyl-d14	*99*		*35 - 146*

Lab Sample ID: 720-90479-8 MSD
Matrix: Solid
Analysis Batch: 257888

Client Sample ID: DG-AV5S-0.5-1
Prep Type: Total/NA
Prep Batch: 257791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	110		658	484		ug/Kg		56	46 - 110	10	35
Acenaphthene	8.7	J	658	417		ug/Kg		62	46 - 106	2	35
Acenaphthylene	34		658	480		ug/Kg		68	46 - 108	3	35
Anthracene	92		658	519		ug/Kg		65	55 - 103	2	35
Benzo[a]anthracene	120		658	552		ug/Kg		65	54 - 110	0	35
Benzo[a]pyrene	130		658	566	*	ug/Kg		67	62 - 111	0	35
Benzo[b]fluoranthene	210	B	658	730	*	ug/Kg		79	60 - 109	3	35
Benzo[g,h,i]perylene	120	F1	658	277	* F1	ug/Kg		24	52 - 114	8	35
Benzo[k]fluoranthene	89		658	576	*	ug/Kg		74	58 - 109	1	35
Chrysene	150		658	527		ug/Kg		57	54 - 108	3	35
Dibenz(a,h)anthracene	20	F1	658	269	* F1	ug/Kg		38	58 - 112	6	35
Fluoranthene	210		658	614		ug/Kg		61	59 - 109	0	35
Fluorene	6.8	J	658	465		ug/Kg		70	52 - 106	1	35
Indeno[1,2,3-cd]pyrene	59	F1	658	294	* F1	ug/Kg		36	55 - 120	3	35
Naphthalene	87		658	448		ug/Kg		55	49 - 110	9	35
Phenanthrene	160	F1 *	658	514	F1	ug/Kg		54	57 - 110	10	35
Pyrene	220		658	746		ug/Kg		80	50 - 120	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*33 - 120*
Terphenyl-d14	*99*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-257581/1-A
Matrix: Solid
Analysis Batch: 257635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		12/26/18 08:35	12/27/18 05:34	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/26/18 08:35	12/27/18 05:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*93*		*40 - 130*	*12/26/18 08:35*	*12/27/18 05:34*	*1*

Lab Sample ID: LCS 720-257581/2-A
Matrix: Solid
Analysis Batch: 257635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	146		mg/Kg		87	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*98*		*40 - 130*

Lab Sample ID: 720-90470-B-5-H MS
Matrix: Solid
Analysis Batch: 257609

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	8.0		161	174		mg/Kg		103	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*97*		*40 - 130*

Lab Sample ID: 720-90470-B-5-I MSD
Matrix: Solid
Analysis Batch: 257609

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	8.0		160	152		mg/Kg		90	50 - 150	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*92*		*40 - 130*

Lab Sample ID: MB 720-257590/1-A
Matrix: Solid
Analysis Batch: 257649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		12/26/18 10:01	12/27/18 18:21	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/26/18 10:01	12/27/18 18:21	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-257590/1-A
Matrix: Solid
Analysis Batch: 257649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257590

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	*94*		*40 - 130*	*12/26/18 10:01*	*12/27/18 18:21*	*1*

Lab Sample ID: LCS 720-257590/2-A
Matrix: Solid
Analysis Batch: 257649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257590

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	137		mg/Kg		82	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*112*		*40 - 130*

Lab Sample ID: 720-90446-E-1-G MS
Matrix: Solid
Analysis Batch: 257648

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	72		166	248		mg/Kg		106	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*78*		*40 - 130*

Lab Sample ID: 720-90446-E-1-H MSD
Matrix: Solid
Analysis Batch: 257648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	72		166	231		mg/Kg		96	50 - 150	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*77*		*40 - 130*

Lab Sample ID: MB 720-257599/1-A
Matrix: Solid
Analysis Batch: 257771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		12/26/18 11:37	12/29/18 15:35	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/26/18 11:37	12/29/18 15:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	*101*		*40 - 130*	*12/26/18 11:37*	*12/29/18 15:35*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-257599/2-A
Matrix: Solid
Analysis Batch: 257771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257599

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	165		mg/Kg		99	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*111*		*40 - 130*

Lab Sample ID: 720-90479-9 MS
Matrix: Solid
Analysis Batch: 257771

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257599

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	5.8		166	172		mg/Kg		100	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*106*		*40 - 130*

Lab Sample ID: 720-90479-9 MSD
Matrix: Solid
Analysis Batch: 257771

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257599

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	5.8		166	175		mg/Kg		102	50 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*105*		*40 - 130*

Lab Sample ID: MB 720-257665/1-A
Matrix: Solid
Analysis Batch: 257719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		12/27/18 10:55	12/28/18 18:57	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/27/18 10:55	12/28/18 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*12/27/18 10:55*	*12/28/18 18:57*	*1*

Lab Sample ID: LCS 720-257665/2-A
Matrix: Solid
Analysis Batch: 257719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257665

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	139		mg/Kg		83	50 - 150		

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-257665/2-A
Matrix: Solid
Analysis Batch: 257719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257665

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*103*		*40 - 130*

Lab Sample ID: 720-90512-A-1-O MS
Matrix: Solid
Analysis Batch: 257719

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	9.2		164	120		mg/Kg		68	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*93*		*40 - 130*

Lab Sample ID: 720-90512-A-1-P MSD
Matrix: Solid
Analysis Batch: 257719

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	9.2		164	130		mg/Kg		74	50 - 150	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*113*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-257432/1-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:50	12/25/18 02:27	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-257432/1-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:50	12/25/18 02:27	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:50	12/25/18 02:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*21 - 136*	*12/21/18 09:50*	*12/25/18 02:27*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*12/21/18 09:50*	*12/25/18 02:27*	*1*

Lab Sample ID: LCS 720-257432/2-A
Matrix: Solid
Analysis Batch: 257557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	16.5		ug/Kg		99	75 - 128
4,4'-DDE	16.7	15.6		ug/Kg		94	76 - 126
4,4'-DDT	16.7	15.5		ug/Kg		93	63 - 127
Aldrin	16.7	13.5		ug/Kg		81	65 - 120
alpha-BHC	16.7	11.5		ug/Kg		69	46 - 122
alpha-Chlordane	16.7	15.4		ug/Kg		92	70 - 120
beta-BHC	16.7	15.7		ug/Kg		94	78 - 136
delta-BHC	16.7	12.5		ug/Kg		75	43 - 125
Dieldrin	16.7	15.0		ug/Kg		90	72 - 120
Endosulfan I	16.7	15.5		ug/Kg		93	62 - 120
Endosulfan II	16.7	16.1		ug/Kg		97	65 - 120
Endosulfan sulfate	16.7	16.2		ug/Kg		97	72 - 121
Endrin	16.7	16.2		ug/Kg		97	68 - 120
Endrin aldehyde	16.7	18.4		ug/Kg		110	68 - 120
Endrin ketone	16.7	16.9		ug/Kg		101	75 - 136
gamma-BHC (Lindane)	16.7	13.5		ug/Kg		81	72 - 120
gamma-Chlordane	16.7	15.1		ug/Kg		90	68 - 120
Heptachlor	16.7	13.5		ug/Kg		81	69 - 120
Heptachlor epoxide	16.7	15.0		ug/Kg		90	68 - 120
Methoxychlor	16.7	17.0		ug/Kg		102	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*109*		*21 - 136*
Tetrachloro-m-xylene	*85*		*21 - 145*

Lab Sample ID: 720-90446-E-1-D MS
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F2	15.9	18.9		ug/Kg		119	40 - 120
4,4'-DDE	ND		15.9	13.5		ug/Kg		85	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90446-E-1-D MS
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDT	ND		15.9	14.5		ug/Kg		91	17 - 144
Aldrin	ND		15.9	12.4		ug/Kg		78	53 - 120
alpha-BHC	ND		15.9	11.3		ug/Kg		71	40 - 120
alpha-Chlordane	ND		15.9	13.5		ug/Kg		85	40 - 120
beta-BHC	ND		15.9	15.4		ug/Kg		97	40 - 120
delta-BHC	ND		15.9	11.7		ug/Kg		74	40 - 120
Dieldrin	ND		15.9	13.1		ug/Kg		82	46 - 130
Endosulfan I	ND		15.9	15.1		ug/Kg		95	40 - 120
Endosulfan II	ND		15.9	15.2		ug/Kg		95	40 - 120
Endosulfan sulfate	ND		15.9	16.8		ug/Kg		106	40 - 120
Endrin	ND		15.9	14.0		ug/Kg		88	32 - 143
Endrin aldehyde	ND	F2	15.9	17.0		ug/Kg		107	40 - 120
Endrin ketone	ND		15.9	14.5		ug/Kg		91	40 - 120
gamma-BHC (Lindane)	ND		15.9	13.3		ug/Kg		83	58 - 120
gamma-Chlordane	ND		15.9	14.7		ug/Kg		92	40 - 120
Heptachlor	ND		15.9	13.0		ug/Kg		82	52 - 120
Heptachlor epoxide	ND		15.9	12.8		ug/Kg		81	40 - 120
Methoxychlor	ND		15.9	15.1		ug/Kg		95	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*116*		*21 - 136*
Tetrachloro-m-xylene	*87*		*21 - 145*

Lab Sample ID: 720-90446-E-1-E MSD
Matrix: Solid
Analysis Batch: 257700

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F2	15.9	14.6	F2	ug/Kg		92	40 - 120	26	20
4,4'-DDE	ND		15.9	12.6		ug/Kg		79	40 - 120	7	20
4,4'-DDT	ND		15.9	13.7		ug/Kg		86	17 - 144	6	20
Aldrin	ND		15.9	12.2		ug/Kg		76	53 - 120	2	20
alpha-BHC	ND		15.9	10.5		ug/Kg		66	40 - 120	8	20
alpha-Chlordane	ND		15.9	13.0		ug/Kg		82	40 - 120	4	20
beta-BHC	ND		15.9	13.5		ug/Kg		85	40 - 120	13	20
delta-BHC	ND		15.9	11.2		ug/Kg		70	40 - 120	5	20
Dieldrin	ND		15.9	13.1		ug/Kg		82	46 - 130	1	20
Endosulfan I	ND		15.9	12.8		ug/Kg		80	40 - 120	17	20
Endosulfan II	ND		15.9	13.3		ug/Kg		83	40 - 120	13	30
Endosulfan sulfate	ND		15.9	16.6		ug/Kg		104	40 - 120	1	20
Endrin	ND		15.9	13.6		ug/Kg		85	32 - 143	3	20
Endrin aldehyde	ND	F2	15.9	13.0	F2	ug/Kg		82	40 - 120	27	20
Endrin ketone	ND		15.9	13.8		ug/Kg		87	40 - 120	4	20
gamma-BHC (Lindane)	ND		15.9	12.0		ug/Kg		75	58 - 120	10	20
gamma-Chlordane	ND		15.9	13.7		ug/Kg		86	40 - 120	7	20
Heptachlor	ND		15.9	12.9		ug/Kg		81	52 - 120	1	20
Heptachlor epoxide	ND		15.9	12.3		ug/Kg		77	40 - 120	4	20
Methoxychlor	ND		15.9	14.5		ug/Kg		91	40 - 120	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	98		21 - 136
Tetrachloro-m-xylene	76		21 - 145

Lab Sample ID: MB 720-257433/1-A
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Aldrin	ND		2.0	0.50	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
alpha-BHC	ND		2.0	0.55	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
beta-BHC	ND		2.0	0.36	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Chlordane (technical)	ND		40	3.2	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
delta-BHC	ND		2.0	0.44	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Dieldrin	ND		2.0	0.59	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Endosulfan I	ND		2.0	0.32	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Endosulfan II	ND		2.0	0.49	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Endrin	ND		2.0	0.46	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Endrin ketone	ND		2.0	0.33	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Heptachlor	ND		2.0	0.46	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Methoxychlor	ND		2.0	0.68	ug/Kg		12/21/18 09:55	12/29/18 12:00	1
Toxaphene	ND		40	6.8	ug/Kg		12/21/18 09:55	12/29/18 12:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		21 - 136	12/21/18 09:55	12/29/18 12:00	1
Tetrachloro-m-xylene	88		21 - 145	12/21/18 09:55	12/29/18 12:00	1

Lab Sample ID: LCS 720-257433/2-A
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	17.2		ug/Kg		103	75 - 128
4,4'-DDE	16.7	17.0		ug/Kg		102	76 - 126
4,4'-DDT	16.7	17.1		ug/Kg		103	63 - 127
Aldrin	16.7	15.1		ug/Kg		91	65 - 120
alpha-BHC	16.7	13.5		ug/Kg		81	46 - 122
alpha-Chlordane	16.7	16.6		ug/Kg		99	70 - 120
beta-BHC	16.7	16.8		ug/Kg		101	78 - 136
delta-BHC	16.7	13.5		ug/Kg		81	43 - 125
Dieldrin	16.7	16.7		ug/Kg		100	72 - 120
Endosulfan I	16.7	16.6		ug/Kg		100	62 - 120
Endosulfan II	16.7	17.2		ug/Kg		103	65 - 120
Endosulfan sulfate	16.7	17.2		ug/Kg		103	72 - 121

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-257433/2-A
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	16.7	16.8		ug/Kg		101	68 - 120
Endrin aldehyde	16.7	18.6		ug/Kg		112	68 - 120
Endrin ketone	16.7	17.7		ug/Kg		106	75 - 136
gamma-BHC (Lindane)	16.7	15.3		ug/Kg		92	72 - 120
gamma-Chlordane	16.7	16.4		ug/Kg		98	68 - 120
Heptachlor	16.7	14.6		ug/Kg		87	69 - 120
Heptachlor epoxide	16.7	16.2		ug/Kg		97	68 - 120
Methoxychlor	16.7	16.7		ug/Kg		100	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*113*		*21 - 136*
Tetrachloro-m-xylene	*93*		*21 - 145*

Lab Sample ID: 720-90479-9 MS
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F1	16.2	24.4	F1	ug/Kg		150	40 - 120
4,4'-DDE	ND		16.2	16.5		ug/Kg		102	40 - 120
4,4'-DDT	ND		16.2	5.01		ug/Kg		31	17 - 144
Aldrin	ND		16.2	15.0		ug/Kg		92	53 - 120
alpha-BHC	ND		16.2	13.7		ug/Kg		85	40 - 120
alpha-Chlordane	ND		16.2	14.8		ug/Kg		91	40 - 120
beta-BHC	ND		16.2	16.8		ug/Kg		103	40 - 120
delta-BHC	ND		16.2	14.2		ug/Kg		88	40 - 120
Dieldrin	ND		16.2	15.3		ug/Kg		94	46 - 130
Endosulfan I	ND		16.2	14.9		ug/Kg		92	40 - 120
Endosulfan II	ND		16.2	16.2		ug/Kg		100	40 - 120
Endosulfan sulfate	ND		16.2	15.6		ug/Kg		96	40 - 120
Endrin	ND		16.2	14.6		ug/Kg		90	32 - 143
Endrin aldehyde	ND		16.2	16.2		ug/Kg		100	40 - 120
Endrin ketone	ND		16.2	12.5		ug/Kg		77	40 - 120
gamma-BHC (Lindane)	ND		16.2	14.8		ug/Kg		91	58 - 120
gamma-Chlordane	ND		16.2	16.1		ug/Kg		99	40 - 120
Heptachlor	ND		16.2	12.4		ug/Kg		76	52 - 120
Heptachlor epoxide	ND		16.2	15.4		ug/Kg		95	40 - 120
Methoxychlor	ND		16.2	6.47		ug/Kg		40	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*21 - 136*
Tetrachloro-m-xylene	*97*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90479-9 MSD
Matrix: Solid
Analysis Batch: 257768

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	16.5	22.8	F1	ug/Kg		138	40 - 120	7	20
4,4'-DDE	ND		16.5	16.8		ug/Kg		102	40 - 120	2	20
4,4'-DDT	ND		16.5	4.21		ug/Kg		25	17 - 144	17	20
Aldrin	ND		16.5	15.2		ug/Kg		92	53 - 120	1	20
alpha-BHC	ND		16.5	14.5		ug/Kg		88	40 - 120	5	20
alpha-Chlordane	ND		16.5	15.1		ug/Kg		92	40 - 120	2	20
beta-BHC	ND		16.5	17.0		ug/Kg		103	40 - 120	1	20
delta-BHC	ND		16.5	14.4		ug/Kg		87	40 - 120	1	20
Dieldrin	ND		16.5	16.3		ug/Kg		98	46 - 130	6	20
Endosulfan I	ND		16.5	15.7		ug/Kg		95	40 - 120	5	20
Endosulfan II	ND		16.5	15.0		ug/Kg		91	40 - 120	7	30
Endosulfan sulfate	ND		16.5	14.8		ug/Kg		90	40 - 120	5	20
Endrin	ND		16.5	14.5		ug/Kg		88	32 - 143	1	20
Endrin aldehyde	ND		16.5	15.5		ug/Kg		94	40 - 120	4	20
Endrin ketone	ND		16.5	12.6		ug/Kg		76	40 - 120	1	20
gamma-BHC (Lindane)	ND		16.5	15.2		ug/Kg		92	58 - 120	3	20
gamma-Chlordane	ND		16.5	15.9		ug/Kg		96	40 - 120	1	20
Heptachlor	ND		16.5	12.6		ug/Kg		76	52 - 120	1	20
Heptachlor epoxide	ND		16.5	15.7		ug/Kg		95	40 - 120	2	20
Methoxychlor	ND		16.5	6.61		ug/Kg		40	40 - 120	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*21 - 136*
Tetrachloro-m-xylene	*95*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-519466/1-A
Matrix: Solid
Analysis Batch: 519681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 17:57	1
Aroclor 1221	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 17:57	1
Aroclor 1232	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 17:57	1
Aroclor 1242	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 17:57	1
Aroclor 1248	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 17:57	1
Aroclor 1254	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 17:57	1
Aroclor 1260	ND		50	17	ug/Kg		12/27/18 06:24	12/27/18 17:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*12/27/18 06:24*	*12/27/18 17:57*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-519466/2-A
Matrix: Solid
Analysis Batch: 519681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519466

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	203		ug/Kg		76	65 - 115		
Aroclor 1260			267	241		ug/Kg		91	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*

Lab Sample ID: 720-90479-9 MS
Matrix: Solid
Analysis Batch: 519681

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 519466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		266	206		ug/Kg		77	50 - 120		
Aroclor 1260	ND		266	235		ug/Kg		88	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*

Lab Sample ID: 720-90479-9 MSD
Matrix: Solid
Analysis Batch: 519681

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 519466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	199		ug/Kg		75	50 - 120	3	30
Aroclor 1260	ND		266	226		ug/Kg		85	50 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257521/1-A
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Arsenic	ND		1.0	0.085	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Barium	ND		0.50	0.071	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Beryllium	ND		0.10	0.033	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Cadmium	ND		0.13	0.012	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Chromium	ND		0.50	0.053	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Cobalt	ND		0.20	0.020	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Copper	ND		1.5	0.71	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Lead	ND		0.50	0.11	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Nickel	ND		0.50	0.051	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Selenium	ND		1.0	0.15	mg/Kg		12/28/18 08:51	01/02/19 10:00	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257521/1-A
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.25	0.051	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Thallium	ND		0.50	0.15	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Vanadium	ND		0.50	0.068	mg/Kg		12/28/18 08:51	01/02/19 10:00	1
Zinc	ND		1.5	0.64	mg/Kg		12/28/18 08:51	01/02/19 10:00	1

Lab Sample ID: LCS 720-257521/2-A
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.4		mg/Kg		95	80 - 120
Arsenic	50.0	45.5		mg/Kg		91	80 - 120
Barium	50.0	48.7		mg/Kg		97	80 - 120
Beryllium	50.0	47.1		mg/Kg		94	80 - 120
Cadmium	50.0	46.3		mg/Kg		93	80 - 120
Chromium	50.0	47.9		mg/Kg		96	80 - 120
Cobalt	50.0	45.1		mg/Kg		90	80 - 120
Copper	50.0	48.0		mg/Kg		96	80 - 120
Lead	50.0	45.8		mg/Kg		92	80 - 120
Molybdenum	50.0	47.1		mg/Kg		94	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Selenium	50.0	44.4		mg/Kg		89	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	45.8		mg/Kg		92	80 - 120
Vanadium	50.0	46.0		mg/Kg		92	80 - 120
Zinc	50.0	48.8		mg/Kg		98	80 - 120

Lab Sample ID: 720-90479-9 MS
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	13	F1 F2	41.7	33.8	F1	mg/Kg		51	75 - 125
Arsenic	1400	F2	41.7	1730	4	mg/Kg		681	75 - 125
Barium	33	F1	41.7	99.1	F1	mg/Kg		158	75 - 125
Beryllium	0.33	F1	41.7	54.5	F1	mg/Kg		130	75 - 125
Cadmium	0.77		41.7	49.6		mg/Kg		117	75 - 125
Chromium	24	F1	41.7	85.8	F1	mg/Kg		149	75 - 125
Cobalt	3.3		41.7	51.1		mg/Kg		115	75 - 125
Copper	8.3	F1	41.7	65.4	F1	mg/Kg		137	75 - 125
Lead	28	^ F1	41.7	87.2	F1	mg/Kg		143	75 - 125
Molybdenum	ND		41.7	46.6		mg/Kg		112	75 - 125
Nickel	19	F1	41.7	72.8	F1	mg/Kg		130	75 - 125
Selenium	0.52	J	41.7	47.0		mg/Kg		112	75 - 125
Silver	ND	F1	20.8	27.9	F1	mg/Kg		134	75 - 125
Thallium	32		41.7	82.1		mg/Kg		121	75 - 125
Vanadium	15	F1	41.7	70.2	F1	mg/Kg		133	75 - 125
Zinc	40	F1	41.7	98.7	F1	mg/Kg		141	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90479-9 MSD
Matrix: Solid
Analysis Batch: 257874

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	13	F1 F2	41.7	27.2	F1 F2	mg/Kg		35	75 - 125	22	20
Arsenic	1400	F2	41.7	1380	4 F2	mg/Kg		-144	75 - 125	22	20
Barium	33	F1	41.7	93.0	F1	mg/Kg		144	75 - 125	6	20
Beryllium	0.33	F1	41.7	55.7	F1	mg/Kg		133	75 - 125	2	20
Cadmium	0.77		41.7	47.5		mg/Kg		112	75 - 125	4	20
Chromium	24	F1	41.7	79.8	F1	mg/Kg		135	75 - 125	7	20
Cobalt	3.3		41.7	48.2		mg/Kg		108	75 - 125	6	20
Copper	8.3	F1	41.7	62.0	F1	mg/Kg		129	75 - 125	5	20
Lead	28	^ F1	41.7	76.2		mg/Kg		116	75 - 125	14	20
Molybdenum	ND		41.7	44.2		mg/Kg		106	75 - 125	5	20
Nickel	19	F1	41.7	65.2		mg/Kg		112	75 - 125	11	20
Selenium	0.52	J	41.7	45.3		mg/Kg		107	75 - 125	4	20
Silver	ND	F1	20.8	27.6	F1	mg/Kg		133	75 - 125	1	20
Thallium	32		41.7	72.5		mg/Kg		98	75 - 125	12	20
Vanadium	15	F1	41.7	67.5	F1	mg/Kg		127	75 - 125	4	20
Zinc	40	F1	41.7	86.2		mg/Kg		111	75 - 125	13	20

Lab Sample ID: MB 720-257538/1-A
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Arsenic	ND		1.0	0.085	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Barium	0.0744	J	0.50	0.071	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Beryllium	ND		0.10	0.033	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Cadmium	ND		0.13	0.012	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Chromium	0.0543	J	0.50	0.053	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Cobalt	ND		0.20	0.020	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Copper	ND		1.5	0.71	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Lead	0.193	J	0.50	0.11	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Nickel	ND		0.50	0.051	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Selenium	ND		1.0	0.15	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Silver	ND		0.25	0.051	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Thallium	ND		0.50	0.15	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Vanadium	ND		0.50	0.068	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Zinc	ND		1.5	0.64	mg/Kg		12/24/18 11:28	01/04/19 18:59	1

Lab Sample ID: LCS 720-257538/2-A
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.0		mg/Kg		100	80 - 120
Arsenic	50.0	53.8		mg/Kg		108	80 - 120
Barium	50.0	53.6		mg/Kg		107	80 - 120
Beryllium	50.0	51.6		mg/Kg		103	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257538/2-A
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	53.8		mg/Kg		108	80 - 120
Chromium	50.0	54.3		mg/Kg		109	80 - 120
Cobalt	50.0	54.6		mg/Kg		109	80 - 120
Copper	50.0	54.6		mg/Kg		109	80 - 120
Lead	50.0	54.7		mg/Kg		109	80 - 120
Molybdenum	50.0	55.0		mg/Kg		110	80 - 120
Nickel	50.0	53.9		mg/Kg		108	80 - 120
Selenium	50.0	51.7		mg/Kg		103	80 - 120
Silver	25.0	25.6		mg/Kg		102	80 - 120
Thallium	50.0	53.9		mg/Kg		108	80 - 120
Vanadium	50.0	53.5		mg/Kg		107	80 - 120
Zinc	50.0	53.4		mg/Kg		107	80 - 120

Lab Sample ID: 720-90480-A-14-G MS
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.4	F1	43.9	18.8	F1	mg/Kg		31	75 - 125
Arsenic	9.3	F1	43.9	63.1		mg/Kg		123	75 - 125
Barium	110	B F1	43.9	179	F1	mg/Kg		158	75 - 125
Beryllium	0.26	J F1	43.9	51.7		mg/Kg		117	75 - 125
Cadmium	1.9		43.9	52.3		mg/Kg		115	75 - 125
Chromium	57	B	43.9	94.8		mg/Kg		87	75 - 125
Cobalt	11		43.9	62.5		mg/Kg		117	75 - 125
Copper	350	F2	43.9	407	4	mg/Kg		137	75 - 125
Lead	510	B F2	43.9	528	4	mg/Kg		45	75 - 125
Molybdenum	2.3		43.9	52.4		mg/Kg		114	75 - 125
Nickel	27	F1	43.9	77.6		mg/Kg		116	75 - 125
Selenium	ND		43.9	48.6		mg/Kg		111	75 - 125
Silver	ND		21.9	24.5		mg/Kg		112	75 - 125
Thallium	ND		43.9	48.7		mg/Kg		111	75 - 125
Vanadium	72	F1	43.9	122		mg/Kg		112	75 - 125
Zinc	740		43.9	818	4	mg/Kg		184	75 - 125

Lab Sample ID: 720-90480-A-14-H MSD
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.4	F1	43.1	18.5	F1	mg/Kg		30	75 - 125	2	20
Arsenic	9.3	F1	43.1	64.7	F1	mg/Kg		129	75 - 125	3	20
Barium	110	B F1	43.1	200	F1	mg/Kg		210	75 - 125	11	20
Beryllium	0.26	J F1	43.1	55.3	F1	mg/Kg		128	75 - 125	7	20
Cadmium	1.9		43.1	54.1		mg/Kg		121	75 - 125	3	20
Chromium	57	B	43.1	101		mg/Kg		103	75 - 125	6	20
Cobalt	11		43.1	65.0		mg/Kg		125	75 - 125	4	20
Copper	350	F2	43.1	521	4 F2	mg/Kg		404	75 - 125	25	20
Lead	510	B F2	43.1	657	4 F2	mg/Kg		347	75 - 125	22	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90480-A-14-H MSD
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	2.3		43.1	54.8		mg/Kg		122	75 - 125	4	20
Nickel	27	F1	43.1	92.0	F1	mg/Kg		152	75 - 125	17	20
Selenium	ND		43.1	48.9		mg/Kg		114	75 - 125	1	20
Silver	ND		21.6	24.7		mg/Kg		115	75 - 125	1	20
Thallium	ND		43.1	47.6		mg/Kg		110	75 - 125	2	20
Vanadium	72	F1	43.1	135	F1	mg/Kg		146	75 - 125	11	20
Zinc	740		43.1	853	4	mg/Kg		267	75 - 125	4	20

Lab Sample ID: MB 720-257547/1-A
Matrix: Solid
Analysis Batch: 258071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Arsenic	ND		1.0	0.085	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Barium	0.131	J	0.50	0.071	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Beryllium	ND		0.10	0.033	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Cadmium	0.0120	J	0.13	0.012	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Chromium	ND		0.50	0.053	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Cobalt	ND		0.20	0.020	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Copper	ND		1.5	0.71	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Lead	0.153	J	0.50	0.11	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Nickel	ND		0.50	0.051	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Selenium	ND		1.0	0.15	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Silver	ND		0.25	0.051	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Thallium	ND		0.50	0.15	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Vanadium	ND		0.50	0.068	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Zinc	ND		1.5	0.64	mg/Kg		01/03/19 11:10	01/07/19 12:36	1

Lab Sample ID: LCS 720-257547/2-A
Matrix: Solid
Analysis Batch: 258071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.9		mg/Kg		94	80 - 120
Arsenic	50.0	46.5		mg/Kg		93	80 - 120
Barium	50.0	46.8		mg/Kg		94	80 - 120
Beryllium	50.0	46.8		mg/Kg		94	80 - 120
Cadmium	50.0	49.3		mg/Kg		99	80 - 120
Chromium	50.0	47.7		mg/Kg		95	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	50.0	47.6		mg/Kg		95	80 - 120
Lead	50.0	49.7		mg/Kg		99	80 - 120
Molybdenum	50.0	47.9		mg/Kg		96	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	50.0	47.3		mg/Kg		95	80 - 120
Silver	25.0	23.0		mg/Kg		92	80 - 120
Thallium	50.0	48.6		mg/Kg		97	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257547/2-A
Matrix: Solid
Analysis Batch: 258071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257547

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vanadium			50.0	47.7		mg/Kg		95	80 - 120		
Zinc			50.0	47.9		mg/Kg		96	80 - 120		

Lab Sample ID: 720-90481-A-17-A MS
Matrix: Solid
Analysis Batch: 258031

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony	4.3	F1 F2	40.7	38.8		mg/Kg		85	75 - 125		
Arsenic	10	F1 F2	40.7	116	F1	mg/Kg		261	75 - 125		
Barium	210	B F2	40.7	457	4	mg/Kg		603	75 - 125		
Beryllium	0.19	J F1	40.7	53.3	F1	mg/Kg		131	75 - 125		
Cadmium	0.86	B	40.7	51.8		mg/Kg		125	75 - 125		
Chromium	19	F1	40.7	82.2	F1	mg/Kg		156	75 - 125		
Cobalt	4.7	F1	40.7	63.3	F1	mg/Kg		144	75 - 125		
Copper	63	F1 F2	40.7	202	F1	mg/Kg		342	75 - 125		
Lead	250	B	40.7	570	4	mg/Kg		790	75 - 125		
Molybdenum	0.39	J	40.7	48.5		mg/Kg		118	75 - 125		
Nickel	21	F1 F2	40.7	90.8	F1	mg/Kg		172	75 - 125		
Selenium	0.83	J	40.7	48.2		mg/Kg		116	75 - 125		
Silver	0.63	J F1	20.3	26.6	F1	mg/Kg		128	75 - 125		
Thallium	ND		40.7	47.5		mg/Kg		117	75 - 125		
Vanadium	26	F1	40.7	88.8	F1	mg/Kg		155	75 - 125		
Zinc	240		40.7	471	4	mg/Kg		577	75 - 125		

Lab Sample ID: 720-90481-A-17-B MSD
Matrix: Solid
Analysis Batch: 258031

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.3	F1 F2	40.3	20.1	F1 F2	mg/Kg		39	75 - 125	64	20
Arsenic	10	F1 F2	40.3	60.0	F2	mg/Kg		124	75 - 125	64	20
Barium	210	B F2	40.3	316	4 F2	mg/Kg		258	75 - 125	37	20
Beryllium	0.19	J F1	40.3	47.5		mg/Kg		117	75 - 125	11	20
Cadmium	0.86	B	40.3	47.0		mg/Kg		114	75 - 125	10	20
Chromium	19	F1	40.3	69.9	F1	mg/Kg		127	75 - 125	16	20
Cobalt	4.7	F1	40.3	52.1		mg/Kg		117	75 - 125	19	20
Copper	63	F1 F2	40.3	142	F1 F2	mg/Kg		196	75 - 125	35	20
Lead	250	B	40.3	481	4	mg/Kg		577	75 - 125	17	20
Molybdenum	0.39	J	40.3	44.2		mg/Kg		109	75 - 125	9	20
Nickel	21	F1 F2	40.3	70.4	F2	mg/Kg		123	75 - 125	25	20
Selenium	0.83	J	40.3	44.1		mg/Kg		107	75 - 125	9	20
Silver	0.63	J F1	20.2	24.6		mg/Kg		119	75 - 125	8	20
Thallium	ND		40.3	43.4		mg/Kg		108	75 - 125	9	20
Vanadium	26	F1	40.3	76.7	F1	mg/Kg		126	75 - 125	15	20
Zinc	240		40.3	388	4	mg/Kg		377	75 - 125	19	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257528/1-A
Matrix: Solid
Analysis Batch: 258076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		12/24/18 09:50	01/07/19 14:23	1

Lab Sample ID: LCS 720-257528/2-A
Matrix: Solid
Analysis Batch: 258076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.735		mg/Kg		88	80 - 120

Lab Sample ID: 720-90479-9 MS
Matrix: Solid
Analysis Batch: 258076

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.023		0.704	0.673		mg/Kg		92	75 - 125

Lab Sample ID: 720-90479-9 MSD
Matrix: Solid
Analysis Batch: 258076

Client Sample ID: DG-AV5S-3.5-4
Prep Type: Total/NA
Prep Batch: 257528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.023		0.704	0.668		mg/Kg		92	75 - 125	1	20

Lab Sample ID: MB 720-257536/1-A
Matrix: Solid
Analysis Batch: 258133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/07/19 20:35	01/08/19 09:53	1

Lab Sample ID: LCS 720-257536/2-A
Matrix: Solid
Analysis Batch: 258133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.819		mg/Kg		98	80 - 120

Lab Sample ID: 720-90480-A-14-D MS
Matrix: Solid
Analysis Batch: 258133

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.24		0.758	0.952		mg/Kg		94	75 - 125

Lab Sample ID: 720-90480-A-14-E MSD
Matrix: Solid
Analysis Batch: 258133

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.24		0.781	1.06		mg/Kg		105	75 - 125	11	20

Lab Sample ID: MB 720-257550/1-A
Matrix: Solid
Analysis Batch: 258154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/08/19 10:23	01/08/19 13:47	1

Lab Sample ID: LCS 720-257550/2-A
Matrix: Solid
Analysis Batch: 258154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257550

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.792		mg/Kg		95	80 - 120		

Lab Sample ID: 720-90481-A-17-D MS
Matrix: Solid
Analysis Batch: 258154

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.098		0.746	0.884		mg/Kg		105	75 - 125		

Lab Sample ID: 720-90481-A-17-E MSD
Matrix: Solid
Analysis Batch: 258154

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.22		0.735	0.886		mg/Kg		90	75 - 125	0	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90481-A-34 DU
Matrix: Solid
Analysis Batch: 257537

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	8.9			8.7		%				2	20

Lab Sample ID: 720-90479-17 DU
Matrix: Solid
Analysis Batch: 257548

Client Sample ID: DG-AP5S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.5			11.1		%				4	20

GC/MS VOA

Analysis Batch: 519479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	8260B	519537
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	8260B	519537
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	8260B	519537
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	8260B	519537
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	8260B	519537
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	8260B	519537
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	8260B	519537
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	8260B	519537
MB 440-519479/7	Method Blank	Total/NA	Solid	8260B	
LCS 440-519479/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90479-A-9-B MS	720-90479-A-9-B MS	Total/NA	Solid	8260B	519537
720-90479-A-9-C MSD	720-90479-A-9-C MSD	Total/NA	Solid	8260B	519537

Analysis Batch: 519480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	519537
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	519537
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	8260B/CA_LUFT MS	519537
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	519537
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	519537
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	519537
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	519537
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	519537
MB 440-519480/7	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-519480/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90479-A-9-B MS	720-90479-A-9-B MS	Total/NA	Solid	8260B/CA_LUFT MS	519537
720-90479-A-9-C MSD	720-90479-A-9-C MSD	Total/NA	Solid	8260B/CA_LUFT MS	519537

Analysis Batch: 519482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	8260B	519537
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	8260B	519537
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	8260B	519537
MB 440-519482/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-519482/5	Lab Control Sample	Total/NA	Solid	8260B	
440-228439-F-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-228439-F-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 519483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	519537

GC/MS VOA (Continued)

Analysis Batch: 519483 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	519537
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	519537
MB 440-519483/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-519483/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-228439-F-1 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-228439-F-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 519537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	5035	
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	5035	
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	5035	
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	5035	
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	5035	
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	5035	
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	5035	
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	5035	
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	5035	
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	5035	
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	5035	
720-90479-A-9-B MS	720-90479-A-9-B MS	Total/NA	Solid	5035	
720-90479-A-9-C MSD	720-90479-A-9-C MSD	Total/NA	Solid	5035	

Analysis Batch: 519967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-23	TB-122018	Total/NA	Water	8260B	
MB 440-519967/4	Method Blank	Total/NA	Water	8260B	
LCS 440-519967/5	Lab Control Sample	Total/NA	Water	8260B	
720-90445-B-8 MS	Matrix Spike	Total/NA	Water	8260B	
720-90445-B-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 519968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-23	TB-122018	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-519968/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-519968/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-B-8 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
720-90445-B-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

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Prep Batch: 257611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	3546	
720-90479-14	DUP-18	Total/NA	Solid	3546	
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	3546	
MB 720-257611/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257611/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-E-7-J MS	Matrix Spike	Total/NA	Solid	3546	
720-90446-E-7-K MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 257660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	3546	
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	3546	
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	3546	
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	3546	
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	3546	
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	3546	
720-90479-11	DUP-35	Total/NA	Solid	3546	
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	3546	
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	3546	
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	3546	
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	3546	
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	3546	
720-90479-21	DG-S9S-7	Total/NA	Solid	3546	
720-90479-22	DG-S9S-4.5-5	Total/NA	Solid	3546	
MB 720-257660/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257660/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	3546	
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 257766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	8270C SIM	257660
MB 720-257611/1-A	Method Blank	Total/NA	Solid	8270C SIM	257611
MB 720-257660/1-A	Method Blank	Total/NA	Solid	8270C SIM	257660
LCS 720-257611/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257611
LCS 720-257660/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257660
720-90446-E-7-J MS	Matrix Spike	Total/NA	Solid	8270C SIM	257611
720-90446-E-7-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	257611
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	8270C SIM	257660
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	8270C SIM	257660

Analysis Batch: 257772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	8270C SIM	257660
720-90479-11	DUP-35	Total/NA	Solid	8270C SIM	257660
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	8270C SIM	257611
720-90479-14	DUP-18	Total/NA	Solid	8270C SIM	257611
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	8270C SIM	257611
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	8270C SIM	257660
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	8270C SIM	257660
720-90479-21	DG-S9S-7	Total/NA	Solid	8270C SIM	257660

GC/MS Semi VOA (Continued)

Analysis Batch: 257772 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-22	DG-S9S-4.5-5	Total/NA	Solid	8270C SIM	257660

Prep Batch: 257791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	3546	
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	3546	
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	3546	
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	3546	
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	3546	
MB 720-257791/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257791/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90479-8 MS	DG-AV5S-0.5-1	Total/NA	Solid	3546	
720-90479-8 MSD	DG-AV5S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 257793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	8270C SIM	257660
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	8270C SIM	257660
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	8270C SIM	257660
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	8270C SIM	257660
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	8270C SIM	257660
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	8270C SIM	257660

Analysis Batch: 257858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	8270C SIM	257660
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	8270C SIM	257791
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	8270C SIM	257791
MB 720-257791/1-A	Method Blank	Total/NA	Solid	8270C SIM	257791

Analysis Batch: 257888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	8270C SIM	257791
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	8270C SIM	257791
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	8270C SIM	257791
LCS 720-257791/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257791
720-90479-8 MS	DG-AV5S-0.5-1	Total/NA	Solid	8270C SIM	257791
720-90479-8 MSD	DG-AV5S-0.5-1	Total/NA	Solid	8270C SIM	257791

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Prep Batch: 257432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	3546	
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	3546	
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	3546	
MB 720-257432/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257432/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-E-1-D MS	Matrix Spike	Total/NA	Solid	3546	
720-90446-E-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 257433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	3546	
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	3546	
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	3546	
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	3546	
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	3546	
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	3546	
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	3546	
720-90479-11	DUP-35	Total/NA	Solid	3546	
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	3546	
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	3546	
720-90479-14	DUP-18	Total/NA	Solid	3546	
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	3546	
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	3546	
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	3546	
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	3546	
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	3546	
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	3546	
MB 720-257433/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257433/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	3546	
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 257557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	8081A	257432
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	8081A	257432
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	8081A	257432
MB 720-257432/1-A	Method Blank	Total/NA	Solid	8081A	257432
LCS 720-257432/2-A	Lab Control Sample	Total/NA	Solid	8081A	257432

Prep Batch: 257581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-21	DG-S9S-7	Total/NA	Solid	3546	
MB 720-257581/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257581/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90470-B-5-H MS	Matrix Spike	Total/NA	Solid	3546	
720-90470-B-5-I MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 257590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	3546	
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	3546	
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	3546	
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	3546	
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	3546	
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	3546	
MB 720-257590/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257590/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90446-E-1-G MS	Matrix Spike	Total/NA	Solid	3546	
720-90446-E-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 257599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	3546	
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	3546	
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	3546	
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	3546	
720-90479-11	DUP-35	Total/NA	Solid	3546	
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	3546	
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	3546	
720-90479-14	DUP-18	Total/NA	Solid	3546	
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	3546	
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	3546	
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	3546	
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	3546	
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	3546	
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	3546	
MB 720-257599/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257599/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	3546	
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 257609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90470-B-5-H MS	Matrix Spike	Total/NA	Solid	8015B	257581
720-90470-B-5-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	257581

Analysis Batch: 257635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257581/1-A	Method Blank	Total/NA	Solid	8015B	257581
LCS 720-257581/2-A	Lab Control Sample	Total/NA	Solid	8015B	257581

Analysis Batch: 257647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	8015B	257590
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	8015B	257590
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	8015B	257590
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	8015B	257590
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	8015B	257590
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	8015B	257590

Analysis Batch: 257648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-E-1-G MS	Matrix Spike	Total/NA	Solid	8015B	257590
720-90446-E-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	257590

Analysis Batch: 257649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-21	DG-S9S-7	Total/NA	Solid	8015B	257581
MB 720-257590/1-A	Method Blank	Total/NA	Solid	8015B	257590
LCS 720-257590/2-A	Lab Control Sample	Total/NA	Solid	8015B	257590

GC Semi VOA (Continued)

Prep Batch: 257665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-22	DG-S9S-4.5-5	Total/NA	Solid	3546	
MB 720-257665/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257665/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90512-A-1-O MS	Matrix Spike	Total/NA	Solid	3546	
720-90512-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 257700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90446-E-1-D MS	Matrix Spike	Total/NA	Solid	8081A	257432
720-90446-E-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	257432

Analysis Batch: 257719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-22	DG-S9S-4.5-5	Total/NA	Solid	8015B	257665
MB 720-257665/1-A	Method Blank	Total/NA	Solid	8015B	257665
LCS 720-257665/2-A	Lab Control Sample	Total/NA	Solid	8015B	257665
720-90512-A-1-O MS	Matrix Spike	Total/NA	Solid	8015B	257665
720-90512-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	257665

Analysis Batch: 257768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	8081A	257433
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	8081A	257433
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	8081A	257433
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	8081A	257433
MB 720-257433/1-A	Method Blank	Total/NA	Solid	8081A	257433
LCS 720-257433/2-A	Lab Control Sample	Total/NA	Solid	8081A	257433
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	8081A	257433
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	8081A	257433

Analysis Batch: 257769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	8081A	257433
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	8081A	257433
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	8081A	257433
720-90479-11	DUP-35	Total/NA	Solid	8081A	257433
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	8081A	257433
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	8081A	257433
720-90479-14	DUP-18	Total/NA	Solid	8081A	257433
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	8081A	257433
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	8081A	257433
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	8081A	257433
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	8081A	257433
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	8081A	257433
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	8081A	257433

Analysis Batch: 257770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	8015B	257599
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	8015B	257599

GC Semi VOA (Continued)

Analysis Batch: 257771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	8015B	257599
MB 720-257599/1-A	Method Blank	Total/NA	Solid	8015B	257599
LCS 720-257599/2-A	Lab Control Sample	Total/NA	Solid	8015B	257599
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	8015B	257599
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	8015B	257599

Analysis Batch: 257781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	8015B	257599
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	8015B	257599
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	8015B	257599
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	8015B	257599
720-90479-14	DUP-18	Total/NA	Solid	8015B	257599
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	8015B	257599
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	8015B	257599

Analysis Batch: 257783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	8015B	257599
720-90479-11	DUP-35	Total/NA	Solid	8015B	257599
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	8015B	257599

Analysis Batch: 257785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	8015B	257599

Prep Batch: 519466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	3546	
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	3546	
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	3546	
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	3546	
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	3546	
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	3546	
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	3546	
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	3546	
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	3546	
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	3546	
720-90479-11 - DL	DUP-35	Total/NA	Solid	3546	
720-90479-11	DUP-35	Total/NA	Solid	3546	
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	3546	
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	3546	
720-90479-14	DUP-18	Total/NA	Solid	3546	
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	3546	
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	3546	
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	3546	
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	3546	
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	3546	
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	3546	
MB 440-519466/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-519466/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 519466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	3546	
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 519681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	8082	519466
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	8082	519466
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	8082	519466
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	8082	519466
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	8082	519466
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	8082	519466
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	8082	519466
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	8082	519466
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	8082	519466
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	8082	519466
720-90479-11	DUP-35	Total/NA	Solid	8082	519466
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	8082	519466
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	8082	519466
720-90479-14	DUP-18	Total/NA	Solid	8082	519466
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	8082	519466
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	8082	519466
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	8082	519466
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	8082	519466
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	8082	519466
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	8082	519466
MB 440-519466/1-A	Method Blank	Total/NA	Solid	8082	519466
LCS 440-519466/2-A	Lab Control Sample	Total/NA	Solid	8082	519466
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	8082	519466
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	8082	519466

Analysis Batch: 519815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-11 - DL	DUP-35	Total/NA	Solid	8082	519466

Metals

Prep Batch: 257521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	3050B	
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	3050B	
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	3050B	
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	3050B	
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	3050B	
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	3050B	
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	3050B	
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	3050B	
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	3050B	
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	3050B	
720-90479-11	DUP-35	Total/NA	Solid	3050B	
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	3050B	
720-90479-14	DUP-18	Total/NA	Solid	3050B	
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	3050B	
MB 720-257521/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257521/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	3050B	
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	7471A	
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	7471A	
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	7471A	
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	7471A	
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	7471A	
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	7471A	
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	7471A	
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	7471A	
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	7471A	
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	7471A	
720-90479-11	DUP-35	Total/NA	Solid	7471A	
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	7471A	
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	7471A	
MB 720-257528/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257528/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	7471A	
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 257536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-14	DUP-18	Total/NA	Solid	7471A	
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	7471A	
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	7471A	
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	7471A	
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	7471A	
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	7471A	
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	7471A	
MB 720-257536/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257536/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90480-A-14-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-90480-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	3050B	
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	3050B	
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	3050B	
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	3050B	
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	3050B	
MB 720-257538/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257538/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257538 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-A-14-G MS	Matrix Spike	Total/NA	Solid	3050B	
720-90480-A-14-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-22	DG-S9S-4.5-5	Total/NA	Solid	3050B	
MB 720-257547/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257547/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90481-A-17-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90481-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-22	DG-S9S-4.5-5	Total/NA	Solid	7471A	
MB 720-257550/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257550/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90481-A-17-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-90481-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 257874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	6010B	257521
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	6010B	257521
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	6010B	257521
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	6010B	257521
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	6010B	257521
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	6010B	257521
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	6010B	257521
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	6010B	257521
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	6010B	257521
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	6010B	257521
720-90479-11	DUP-35	Total/NA	Solid	6010B	257521
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	6010B	257521
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	6010B	257521
720-90479-14	DUP-18	Total/NA	Solid	6010B	257521
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	6010B	257521
MB 720-257521/1-A	Method Blank	Total/NA	Solid	6010B	257521
LCS 720-257521/2-A	Lab Control Sample	Total/NA	Solid	6010B	257521
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	6010B	257521
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	6010B	257521

Analysis Batch: 258031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-22	DG-S9S-4.5-5	Total/NA	Solid	6010B	257547
720-90481-A-17-A MS	Matrix Spike	Total/NA	Solid	6010B	257547
720-90481-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257547

Analysis Batch: 258036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	6010B	257538
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	6010B	257538

Metals (Continued)

Analysis Batch: 258036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	6010B	257538
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	6010B	257538
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	6010B	257538
MB 720-257538/1-A	Method Blank	Total/NA	Solid	6010B	257538
LCS 720-257538/2-A	Lab Control Sample	Total/NA	Solid	6010B	257538
720-90480-A-14-G MS	Matrix Spike	Total/NA	Solid	6010B	257538
720-90480-A-14-H MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257538

Analysis Batch: 258071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257547/1-A	Method Blank	Total/NA	Solid	6010B	257547
LCS 720-257547/2-A	Lab Control Sample	Total/NA	Solid	6010B	257547

Analysis Batch: 258076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	7471A	257528
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	7471A	257528
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	7471A	257528
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	7471A	257528
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	7471A	257528
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	7471A	257528
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	7471A	257528
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	7471A	257528
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	7471A	257528
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	7471A	257528
720-90479-11	DUP-35	Total/NA	Solid	7471A	257528
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	7471A	257528
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	7471A	257528
MB 720-257528/1-A	Method Blank	Total/NA	Solid	7471A	257528
LCS 720-257528/2-A	Lab Control Sample	Total/NA	Solid	7471A	257528
720-90479-9 MS	DG-AV5S-3.5-4	Total/NA	Solid	7471A	257528
720-90479-9 MSD	DG-AV5S-3.5-4	Total/NA	Solid	7471A	257528

Analysis Batch: 258082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	6010B	257538

Analysis Batch: 258119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	6010B	257538

Analysis Batch: 258133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-14	DUP-18	Total/NA	Solid	7471A	257536
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	7471A	257536
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	7471A	257536
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	7471A	257536
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	7471A	257536
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	7471A	257536
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	7471A	257536
MB 720-257536/1-A	Method Blank	Total/NA	Solid	7471A	257536

Metals (Continued)

Analysis Batch: 258133 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-257536/2-A	Lab Control Sample	Total/NA	Solid	7471A	257536
720-90480-A-14-D MS	Matrix Spike	Total/NA	Solid	7471A	257536
720-90480-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257536

Analysis Batch: 258154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-22	DG-S9S-4.5-5	Total/NA	Solid	7471A	257550
MB 720-257550/1-A	Method Blank	Total/NA	Solid	7471A	257550
LCS 720-257550/2-A	Lab Control Sample	Total/NA	Solid	7471A	257550
720-90481-A-17-D MS	Matrix Spike	Total/NA	Solid	7471A	257550
720-90481-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257550

General Chemistry

Analysis Batch: 257537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-1	DG-AS3S-0.5-1	Total/NA	Solid	Moisture	
720-90479-2	DG-AS3S-3.5-4	Total/NA	Solid	Moisture	
720-90479-3	DG-AS3S-8-8.5	Total/NA	Solid	Moisture	
720-90479-4	DG-AU3S-0.5-1	Total/NA	Solid	Moisture	
720-90479-5	DG-AU3S-3.5-4	Total/NA	Solid	Moisture	
720-90479-6	DG-AX5S-0.5-1	Total/NA	Solid	Moisture	
720-90479-7	DG-AX5S-3.5-4	Total/NA	Solid	Moisture	
720-90479-8	DG-AV5S-0.5-1	Total/NA	Solid	Moisture	
720-90479-9	DG-AV5S-3.5-4	Total/NA	Solid	Moisture	
720-90479-10	DG-AV5S-7.5-8	Total/NA	Solid	Moisture	
720-90479-11	DUP-35	Total/NA	Solid	Moisture	
720-90479-12	DG-AT5S-0.5-1	Total/NA	Solid	Moisture	
720-90479-13	DG-AT5S-3.5-4	Total/NA	Solid	Moisture	
720-90479-14	DUP-18	Total/NA	Solid	Moisture	
720-90479-15	DG-AR5S-0.5-1	Total/NA	Solid	Moisture	
720-90481-A-34 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90479-16	DG-AR5S-3.5-4	Total/NA	Solid	Moisture	
720-90479-17	DG-AP5S-0.5-1	Total/NA	Solid	Moisture	
720-90479-18	DG-AP5S-3.5-4	Total/NA	Solid	Moisture	
720-90479-19	DG-AN5S-0.5-1	Total/NA	Solid	Moisture	
720-90479-20	DG-AN5S-3.5-4	Total/NA	Solid	Moisture	
720-90479-21	DG-S9S-7	Total/NA	Solid	Moisture	
720-90479-22	DG-S9S-4.5-5	Total/NA	Solid	Moisture	
720-90479-17 DU	DG-AP5S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Client Sample ID: DG-AS3S-0.5-1

Lab Sample ID: 720-90479-1

Date Collected: 12/20/18 08:35

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519479	12/27/18 13:32	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519480	12/27/18 13:32	AYL	TAL IRV
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257793	12/31/18 12:23	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257647	12/27/18 21:11	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257557	12/25/18 06:05	MQL	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 18:51	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:04	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AS3S-3.5-4

Lab Sample ID: 720-90479-2

Date Collected: 12/20/18 09:00

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519479	12/27/18 13:59	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519480	12/27/18 13:59	AYL	TAL IRV
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	257772	12/29/18 18:03	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257647	12/27/18 21:40	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257557	12/25/18 06:21	MQL	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 19:04	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:09	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AS3S-8-8.5

Date Collected: 12/20/18 09:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519479	12/27/18 14:27	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519480	12/27/18 14:27	AYL	TAL IRV
Total/NA	Prep	3546			257791	12/31/18 09:05	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	257888	01/03/19 03:13	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257647	12/27/18 22:09	DCH	TAL PLS
Total/NA	Prep	3546			257432	12/21/18 09:50	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257557	12/25/18 06:38	MQL	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 19:17	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:13	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AU3S-0.5-1

Date Collected: 12/20/18 09:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519479	12/27/18 14:54	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519480	12/27/18 14:54	AYL	TAL IRV
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	257858	01/02/19 13:16	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257647	12/27/18 22:38	DCH	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257768	12/29/18 16:44	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 19:31	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:18	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AU3S-3.5-4

Lab Sample ID: 720-90479-5

Date Collected: 12/20/18 09:50
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519479	12/27/18 15:22	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519480	12/27/18 15:22	AYL	TAL IRV
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257793	12/31/18 12:46	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257647	12/27/18 23:07	DCH	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257768	12/29/18 17:01	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 19:44	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:22	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AX5S-0.5-1

Lab Sample ID: 720-90479-6

Date Collected: 12/20/18 10:20
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519479	12/27/18 15:50	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519480	12/27/18 15:50	AYL	TAL IRV
Total/NA	Prep	3546			257791	12/31/18 09:05	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		10	257888	01/03/19 04:46	LPL	TAL PLS
Total/NA	Prep	3546			257590	12/26/18 10:01	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257647	12/27/18 23:36	DCH	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257768	12/29/18 17:17	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 19:57	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:27	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AX5S-3.5-4

Date Collected: 12/20/18 10:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519479	12/27/18 16:18	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519480	12/27/18 16:18	AYL	TAL IRV
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257793	12/31/18 10:49	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257781	12/31/18 12:02	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 01:30	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 20:11	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:32	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AV5S-0.5-1

Date Collected: 12/20/18 11:10
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519479	12/27/18 16:45	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519480	12/27/18 16:45	AYL	TAL IRV
Total/NA	Prep	3546			257791	12/31/18 09:05	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	257888	01/03/19 03:36	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		2	257783	12/31/18 12:59	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 01:47	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 20:24	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:36	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AV5S-3.5-4

Lab Sample ID: 720-90479-9

Date Collected: 12/20/18 11:30
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257766	12/29/18 00:07	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257771	12/29/18 17:12	DCH	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257768	12/29/18 16:27	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 20:37	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 10:27	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AV5S-7.5-8

Lab Sample ID: 720-90479-10

Date Collected: 12/20/18 11:45
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257791	12/31/18 09:05	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257858	01/02/19 14:58	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257781	12/31/18 12:30	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 02:06	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 20:51	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:50	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 14:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DUP-35

Lab Sample ID: 720-90479-11

Date Collected: 12/20/18 00:01
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	257772	12/29/18 18:26	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		5	257783	12/31/18 13:28	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS

Client Sample ID: DUP-35

Lab Sample ID: 720-90479-11

Date Collected: 12/20/18 00:01
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081A		1	257769	12/30/18 02:24	JZT	TAL PLS
Total/NA	Prep	3546	DL		519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082	DL	5	519815	12/28/18 12:36	JM	TAL IRV
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 21:04	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 11:55	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 15:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AT5S-0.5-1

Lab Sample ID: 720-90479-12

Date Collected: 12/20/18 12:50
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257793	12/31/18 11:36	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257781	12/31/18 12:59	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 02:41	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 21:17	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 12:00	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 15:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AT5S-3.5-4

Lab Sample ID: 720-90479-13

Date Collected: 12/20/18 13:05
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 16:53	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257781	12/31/18 13:28	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 02:59	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 21:30	JM	TAL IRV

Client Sample ID: DG-AT5S-3.5-4

Lab Sample ID: 720-90479-13

Date Collected: 12/20/18 13:05

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 12:04	BKR	TAL PLS
Total/NA	Prep	7471A			257528	12/24/18 09:50	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258076	01/07/19 15:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DUP-18

Lab Sample ID: 720-90479-14

Date Collected: 12/20/18 00:01

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 17:16	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257781	12/31/18 13:57	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 03:17	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 21:44	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS
Total/NA	Analysis	6010B		4	257874	01/02/19 12:09	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AR5S-0.5-1

Lab Sample ID: 720-90479-15

Date Collected: 12/20/18 13:55

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519482	12/27/18 14:00	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519483	12/27/18 14:00	AYL	TAL IRV
Total/NA	Prep	3546			257611	12/26/18 13:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 17:39	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257781	12/31/18 14:26	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 03:35	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 21:57	JM	TAL IRV
Total/NA	Prep	3050B			257521	12/28/18 08:51	MAA	TAL PLS

Client Sample ID: DG-AR5S-0.5-1

Lab Sample ID: 720-90479-15

Date Collected: 12/20/18 13:55
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		4	257874	01/02/19 12:13	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AR5S-3.5-4

Lab Sample ID: 720-90479-16

Date Collected: 12/20/18 14:05
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519482	12/27/18 18:15	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519483	12/27/18 18:15	AYL	TAL IRV
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 18:50	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257781	12/31/18 14:55	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 03:53	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 22:10	JM	TAL IRV
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 19:32	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AP5S-0.5-1

Lab Sample ID: 720-90479-17

Date Collected: 12/20/18 14:35
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	519482	12/27/18 18:44	AYL	TAL IRV
Total/NA	Prep	5035			519537	12/20/18 21:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519483	12/27/18 18:44	AYL	TAL IRV
Total/NA	Prep	3546			257791	12/31/18 09:05	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257858	01/02/19 15:22	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257785	12/31/18 17:47	DCH	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 04:10	JZT	TAL PLS

Client Sample ID: DG-AP5S-0.5-1

Date Collected: 12/20/18 14:35
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 22:24	JM	TAL IRV
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 19:37	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AP5S-3.5-4

Date Collected: 12/20/18 14:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257793	12/31/18 11:12	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257783	12/31/18 12:02	JXL	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 04:29	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 22:37	JM	TAL IRV
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 19:41	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AN5S-0.5-1

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257772	12/29/18 19:13	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257770	12/29/18 21:38	DCH	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 04:46	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 23:04	JM	TAL IRV
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 19:56	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS

Client Sample ID: DG-AN5S-0.5-1

Lab Sample ID: 720-90479-19

Date Collected: 12/20/18 15:15
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1	258133	01/08/19 10:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AN5S-3.5-4

Lab Sample ID: 720-90479-20

Date Collected: 12/20/18 15:30
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	257793	12/31/18 11:59	LPL	TAL PLS
Total/NA	Prep	3546			257599	12/26/18 11:37	RAR	TAL PLS
Total/NA	Analysis	8015B		1	257770	12/29/18 22:02	DCH	TAL PLS
Total/NA	Prep	3546			257433	12/21/18 09:55	JNG	TAL PLS
Total/NA	Analysis	8081A		1	257769	12/30/18 05:04	JZT	TAL PLS
Total/NA	Prep	3546			519466	12/27/18 06:24	L1A	TAL IRV
Total/NA	Analysis	8082		1	519681	12/27/18 23:17	JM	TAL IRV
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 20:01	BKR	TAL PLS
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		40	258119	01/07/19 20:50	BKR	TAL PLS
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		20	258082	01/07/19 15:21	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-S9S-7

Lab Sample ID: 720-90479-21

Date Collected: 12/20/18 13:40
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	257772	12/29/18 19:36	LPL	TAL PLS
Total/NA	Prep	3546			257581	12/26/18 08:35	KLM	TAL PLS
Total/NA	Analysis	8015B		20	257649	12/27/18 20:22	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-S9S-4.5-5

Lab Sample ID: 720-90479-22

Date Collected: 12/20/18 11:30
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257660	12/27/18 09:33	RAR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Client Sample ID: DG-S9S-4.5-5

Date Collected: 12/20/18 11:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C SIM		20	257772	12/29/18 20:00	LPL	TAL PLS
Total/NA	Prep	3546			257665	12/27/18 10:55	RAR	TAL PLS
Total/NA	Analysis	8015B		50	257719	12/28/18 22:36	DCH	TAL PLS
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 18:17	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: TB-122018

Date Collected: 12/20/18 00:01
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90479-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519967	12/29/18 15:47	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	519968	12/29/18 15:47	WC	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3546	Solid	Chlordane (n.o.s.)
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90479-1
SDG: Brisbane OU2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90479-1	DG-AS3S-0.5-1	Solid	12/20/18 08:35	12/20/18 19:10
720-90479-2	DG-AS3S-3.5-4	Solid	12/20/18 09:00	12/20/18 19:10
720-90479-3	DG-AS3S-8-8.5	Solid	12/20/18 09:15	12/20/18 19:10
720-90479-4	DG-AU3S-0.5-1	Solid	12/20/18 09:40	12/20/18 19:10
720-90479-5	DG-AU3S-3.5-4	Solid	12/20/18 09:50	12/20/18 19:10
720-90479-6	DG-AX5S-0.5-1	Solid	12/20/18 10:20	12/20/18 19:10
720-90479-7	DG-AX5S-3.5-4	Solid	12/20/18 10:30	12/20/18 19:10
720-90479-8	DG-AV5S-0.5-1	Solid	12/20/18 11:10	12/20/18 19:10
720-90479-9	DG-AV5S-3.5-4	Solid	12/20/18 11:30	12/20/18 19:10
720-90479-10	DG-AV5S-7.5-8	Solid	12/20/18 11:45	12/20/18 19:10
720-90479-11	DUP-35	Solid	12/20/18 00:01	12/20/18 19:10
720-90479-12	DG-AT5S-0.5-1	Solid	12/20/18 12:50	12/20/18 19:10
720-90479-13	DG-AT5S-3.5-4	Solid	12/20/18 13:05	12/20/18 19:10
720-90479-14	DUP-18	Solid	12/20/18 00:01	12/20/18 19:10
720-90479-15	DG-AR5S-0.5-1	Solid	12/20/18 13:55	12/20/18 19:10
720-90479-16	DG-AR5S-3.5-4	Solid	12/20/18 14:05	12/20/18 19:10
720-90479-17	DG-AP5S-0.5-1	Solid	12/20/18 14:35	12/20/18 19:10
720-90479-18	DG-AP5S-3.5-4	Solid	12/20/18 14:50	12/20/18 19:10
720-90479-19	DG-AN5S-0.5-1	Solid	12/20/18 15:15	12/20/18 19:10
720-90479-20	DG-AN5S-3.5-4	Solid	12/20/18 15:30	12/20/18 19:10
720-90479-21	DG-S9S-7	Solid	12/20/18 13:40	12/20/18 19:10
720-90479-22	DG-S9S-4.5-5	Solid	12/20/18 11:30	12/20/18 19:10
720-90479-23	TB-122018	Water	12/20/18 00:01	12/20/18 19:10

eurofins | CEI

Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

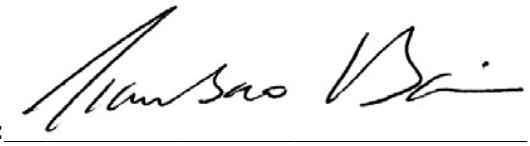
CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A1817558
Received: 12/26/2018
Reported: 1/4/2019
Analyst: Samantha Card
Shilpa Ladekar
Scott Minyard

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AS3S-0.5-1 (720-90479-1)	A223753	No	None Detected	0.00
DG-AS3S-3.5-4 (720-90479-2)	A223754	No	None Detected	0.00
DG-AS3S-8-8.5 (720-90479-3)	A223755	No	None Detected	0.00
DG-AU3S-0.5-1 (720-90479-4)	A223756	No	None Detected	0.00
DG-AU3S-3.5-4 (720-90479-5)	A223757	No	None Detected	0.00
DG-AX5S-0.5-1 (720-90479-6)	A223758	No	None Detected	0.00
DG-AX5S-3.5-4 (720-90479-7)	A223759	No	None Detected	0.00
DG-AV5S-0.5-1 (720-90479-8)	A223760	No	None Detected	0.00
DG-AV5S-3.5-4 (720-90479-9)	A223761	No	None Detected	0.00
DG-AV5S-7.5-8 (720-90479-10)	A223762	No	None Detected	0.00
DUP-35 (720-90479-11)	A223763	No	None Detected	0.00
DG-AT5S-0.5-1 (720-90479-12)	A223764	No	None Detected	0.00

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AT5S-3.5-4 (720-90479-13)	A223765	No	None Detected	0.00
DUP-18 (720-90479-14)	A223766	No	None Detected	0.00
DG-AR5S-0.5-1 (720-90479-15)	A223767	No	None Detected	0.00
DG-AR5S-3.5-4 (720-90479-16)	A223768	No	None Detected	0.00
DG-AP5S-0.5-1 (720-90479-17)	A223769	No	None Detected	0.00
DG-AP5S-3.5-4 (720-90479-18)	A223770	No	None Detected	0.00
DG-AN5S-0.5-1 (720-90479-19)	A223771	No	None Detected	0.00
DG-AN5S-3.5-4 (720-90479-20)	A223772	No	None Detected	0.00

REVIEWED BY: 

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

A18185 58 (20) A223753-A223772

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40610.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 730 SE Maynard Rd,	Due Date Requested: 1/7/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AS3S-0.5-1 (720-90479-1)	12/20/18	08:35 Pacific		Solid			X	1	
DG-AS3S-3.5-4 (720-90479-2)	12/20/18	09:00 Pacific		Solid			X	1	
DG-AS3S-8-8.5 (720-90479-3)	12/20/18	09:15 Pacific		Solid			X	1	
DG-AU3S-0.5-1 (720-90479-4)	12/20/18	09:40 Pacific		Solid			X	1	
DG-AU3S-3.5-4 (720-90479-5)	12/20/18	09:50 Pacific		Solid			X	1	
DG-AX5S-0.5-1 (720-90479-6)	12/20/18	10:20 Pacific		Solid			X	1	EUROFINS CEI. INC SAMPLES ACCEPTED
DG-AX5S-3.5-4 (720-90479-7)	12/20/18	10:30 Pacific		Solid			X	1	
DG-AV5S-0.5-1 (720-90479-8)	12/20/18	11:10 Pacific		Solid			X	1	
DG-AV5S-3.5-4 (720-90479-9)	12/20/18	11:30 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		12/21/18 1332	TAPLS		12/26 8:40	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

A1817558

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40610.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/7/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AV5S-7.5-8 (720-90479-10)	12/20/18	11:45 Pacific		Solid			X	1	
DUP-35 (720-90479-11)	12/20/18	Pacific		Solid			X	1	
DG-AT5S-0.5-1 (720-90479-12)	12/20/18	12:50 Pacific		Solid			X	1	
DG-AT5S-3.5-4 (720-90479-13)	12/20/18	13:05 Pacific		Solid			X	1	
DUP-18 (720-90479-14)	12/20/18	Pacific		Solid			X	1	
DG-AR5S-0.5-1 (720-90479-15)	12/20/18	13:55 Pacific		Solid			X	1	
DG-AR5S-3.5-4 (720-90479-16)	12/20/18	14:05 Pacific		Solid			X	1	
DG-AP5S-0.5-1 (720-90479-17)	12/20/18	14:35 Pacific		Solid			X	1	
DG-AP5S-3.5-4 (720-90479-18)	12/20/18	14:50 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		12/21/18 1332				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

AH817558

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40610.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/7/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AN5S-0.5-1 (720-90479-19)	12/20/18	15:15 Pacific		Solid			X	1	
DG-AN5S-3.5-4 (720-90479-20)	12/20/18	15:30 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 12/21/18 1332	Company TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90479

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/2018	COC No 18752
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler N. Hennefeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Project Name Brisbane OU2 Investigation				
Site Brisbane OU2				
P O # WG2619/ TA project # 72013947				

720-90479 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-AS3S-0.5-1	12/20/18	0835	G	S	8	N		X	X	X	X	X	X	X	
2 DG-AS3S-3.5-4		0900													
3 DG-AS3S-8-8.5		0915													
4 DG-AU3S-0.5-1		0940													
5 DG-AU3S-3.5-4		0950													
6 DG-AX5S-0.5-1		1020													
7 DG-AX5S-3.5-4		1030													
8 DG-AV5S-0.5-1		1110			↓										
9 DG-AV5S-3.5-4		1130			11		X								
10 DG-AV5S-7.5-8		1145			8										
11 DUP-35		—													
12 DG-AT5S-0.5-1	↓	1250	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
1.4, 1.0, 0.5, 3.5
0.8, 1.3, 2.0, 1.1°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____			
Relinquished by Naomi Hennefeld, Naomi Hennefeld	Company Geosyntec	Date/Time 12/20/18 1630	Received by	Company TAPCS	Date/Time 12/20/18 1670
Relinquished by	Company TAPCS	Date/Time 12/20/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TAPCS	Date/Time 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90479

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/2018	COC No 684 of 684
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler N. Hennefeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	HOLD	Sample Specific Notes
12	DG-AT5S-3.5-4	12/20/18	1305	G	S	8	N		X	X	X	X	X	X	X		
13	DUP-18		—														
14	DG-AR5S-0.5-1		1355														
15	DG-AR5S-3.5-4		1405			7											
16	DG-AP5S-0.5-1		1435			8											
17	DG-AP5S-3.5-4		1450														
18	DG-AN5S-0.5-1		1515														
19	DG-AN5S-3.5-4		1530														
20	DG-S9S-7		1340			5											
21	DG-S9S-4.5-5		1130			5										X	HOLD
22	TB-122018		—	—	W	2			X								VOCs only
23																	

12/20/18

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No. ____	
Relinquished by Naomi Hennefeld	Company Geosyntec	Date/Time 12/20/18 1630	Received by	Company TAP LS	Date/Time 12/20/18 1630
Relinquished by	Company TAPLS	Date/Time 12/20/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TAPLS	Date/Time 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019 (Rev. 1)

720-90479
THUR Tracking Copy

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
463602766133

Total Pieces: 1

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1.800.463.3339

Dec 20, 2018 4:58:20 PM

720-90479-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40608.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - Di Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - [illegible], V - [illegible], W [illegible], Z - [illegible]
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	~~8082/3546 Standard 8082 PCB list~~	~~8260B_LL/5030B 8260-(MOD) VOCs~~	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instru
			Preservation Code:										
DG-AS3S-0.5-1 (720-90479-1)	12/20/18	08:35 Pacific		Solid			X	X	X			5	4
DG-AS3S-3.5-4 (720-90479-2)	12/20/18	09:00 Pacific		Solid			X	X	X			5	4
DG-AS3S-8-8.5 (720-90479-3)	12/20/18	09:15 Pacific		Solid			X	X	X			5	4
DG-AU3S-0.5-1 (720-90479-4)	12/20/18	09:40 Pacific		Solid			X	X	X			5	4
DG-AU3S-3.5-4 (720-90479-5)	12/20/18	09:50 Pacific		Solid			X	X	X			5	4
DG-AX5S-0.5-1 (720-90479-6)	12/20/18	10:20 Pacific		Solid			X	X	X			5	4
DG-AX5S-3.5-4 (720-90479-7)	12/20/18	10:30 Pacific		Solid			X	X	X			5	4
DG-AV5S-0.5-1 (720-90479-8)	12/20/18	11:10 Pacific		Solid			X	X	X			5	4
DG-AV5S-3.5-4 (720-90479-9)	12/20/18	11:30 Pacific		Solid			X	X	X			4	3

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Ref:
Dep:
Svcs: PRIORITY OVERNIGHT
TRCK: 4636 0276 6133
Date: 20Dec18
Wgt: 50.00 LBS
DV:
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 100.00 0.00
Hves the rate
#

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

1/31/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40608.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AV5S-3.5-4 (720-90479-9MS)	12/20/18	11:30 Pacific	MS	Solid			X	X	X			3	
DG-AV5S-3.5-4 (720-90479-9MSD)	12/20/18	11:30 Pacific	MSD	Solid			X	X	X			2	
DG-AV5S-7.5-8 (720-90479-10)	12/20/18	11:45 Pacific		Solid			X	X	X			4	
DUP-35 (720-90479-11)	12/20/18	Pacific		Solid			X	X	X			4	
DG-AT5S-0.5-1 (720-90479-12)	12/20/18	12:50 Pacific		Solid			X	X	X			4	
DG-AT5S-3.5-4 (720-90479-13)	12/20/18	13:05 Pacific		Solid			X	X	X			4	
DUP-18 (720-90479-14)	12/20/18	Pacific		Solid			X	X	X			4	
DG-AR5S-0.5-1 (720-90479-15)	12/20/18	13:55 Pacific		Solid			X	X	X			4	
DG-AR5S-3.5-4 (720-90479-16)	12/20/18	14:05 Pacific		Solid			X	X	X			4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	12-21-18 940	FedEx			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40608.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	~~8082/3546 Standard 8082 PCB list~~	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AP5S-0.5-1 (720-90479-17)	12/20/18	14:35 Pacific		Solid			X	X	X			5	4
DG-AP5S-3.5-4 (720-90479-18)	12/20/18	14:50 Pacific		Solid			X	X	X			5	4
DG-AN5S-0.5-1 (720-90479-19)	12/20/18	15:15 Pacific		Solid			X	X	X			5	4
DG-AN5S-3.5-4 (720-90479-20)	12/20/18	15:30 Pacific		Solid			X	X	X			5	4
DG-S9S-7 (720-90479-21)	12/20/18	13:40 Pacific		Solid			X	X				4	
DG-S9S-4.5-5 (720-90479-22)	12/20/18	11:30 Pacific		Solid			X	X				4	
TB-122018 (720-90479-23)	12/20/18	Pacific		Water						X	X	2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12-21-18 940	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90479

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/2018	COC No: 16521
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: N. Hennefeld
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90479 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1	DG-AS3S-0.5-1	12/20/18	0835	G	S	8	N		X	X	X	X	X	X	X	
2	DG-AS3S-3.5-4		0900													
3	DG-AS3S-8-8.5		0915													
4	DG-AW3S-0.5-1		0940													
5	DG-AW3S-3.5-4		0950													
6	DG-AX5S-0.5-1		1020													
7	DG-AX5S-3.5-4		1030													
8	DG-AV5S-0.5-1		1110			↓										
9	DG-AV5S-3.5-4		1130			11		X								
10	DG-AV5S-7.5-8		1145			8										
11	DUP-35		—													
12	DG-AT5S-0.5-1	↓	1250	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

720-90479 Chain of Custody

Encores or Terracores Frozen
Date: 12/20/18 Time: 10:30 Initials: SA

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
1.4, 1.0, 0.5, 3.5
0.8, 1.3, 2.0, 1.1°C

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by: Naomi Hennefeld	Company: Geosyntec	Date/Time: 12/20/18 1630	Received by:	Company: TAPCS	Date/Time: 12/20/18 1640
Relinquished by:	Company: TAPCS	Date/Time: 12/20/18 1910	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAPCS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

tracking # 4636 0276 6133

12/21/18 TA-IRV 10:00am

3.8/4.0 IR 08

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90479

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/2018	COC No: 28 of 58
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: N. Hennefeld
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	HOLD	Sample Specific Notes.	
12/20/18																		
12	DG-ATSS-3.5-4	12/20/18	1305	G	S	8	N		X	X	X	X	X	X	X			13.
13	DUP-18		—			↓												14.
14	DG-AR5S-0.5-1		1355			↓												15.
15	DG-ARSS-3.5-4		1405			7												16.
16	DG-APSS-0.5-1		1435			8												17.
17	DG-APSS-3.5-4		1450															18.
18	DG-ANSS-0.5-1		1515															19
19	DG-ANSS-3.5-4		1530			↓					↓		↓	↓	↓			20.
20	DG-S9S-7		1340			5			↓	↓		↓						21.
21	DG-S9S-4.5-5		1130	↓	↓	5										X	HOLD	22.
22	TB-122018	↓	—	—	W	2			X								VOCs only	23.
12/20/18																	NH	

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: Naomi Hennefeld	Company: Geosyntec	Date/Time: 12/20/18 1630	Received by:	Company: TAL PLS	Date/Time: 12/20/18 1630
Relinquished by:	Company: TAL PLS	Date/Time: 12/20/18 1910	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time	Received in Laboratory by	Company: TAL PLS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0231	COC No: 720-40608.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	8260B_LL/5030B 8260-(MOD) VOCs + GRO	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C6-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-AS3S-0.5-1 (720-90479-1)	12/20/18	08:35 Pacific		Solid		X	X	X				4	
DG-AS3S-3.5-4 (720-90479-2)	12/20/18	09:00 Pacific		Solid		X	X	X				4	
DG-AS3S-8-8.5 (720-90479-3)	12/20/18	09:15 Pacific		Solid		X	X	X				4	
DG-AU3S-0.5-1 (720-90479-4)	12/20/18	09:40 Pacific		Solid		X	X	X				4	
DG-AU3S-3.5-4 (720-90479-5)	12/20/18	09:50 Pacific		Solid		X	X	X				4	
DG-AX5S-0.5-1 (720-90479-6)	12/20/18	10:20 Pacific		Solid		X	X	X				4	
DG-AX5S-3.5-4 (720-90479-7)	12/20/18	10:30 Pacific		Solid		X	X	X				4	
DG-AV5S-0.5-1 (720-90479-8)	12/20/18	11:10 Pacific		Solid		X	X	X				4	
DG-AV5S-3.5-4 (720-90479-9)	12/20/18	11:30 Pacific		Solid		X	X	X				4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 12/21/18 1418	Company TAPLS	Received by:	Date/Time: 12.22.18 1100	Company TA IRV	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: ✓ Yes △ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: .9/.9 IR89			

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0231	COC No: 720-40608.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_PW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_PW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AV5S-3.5-4 (720-90479-9MS)	12/20/18	11:30 Pacific	MS	Solid			X	X	X			4	D
DG-AV5S-3.5-4 (720-90479-9MSD)	12/20/18	11:30 Pacific	MSD	Solid			X	X	X			4	D
DG-AV5S-7.5-8 (720-90479-10)	12/20/18	11:45 Pacific		Solid			X	X	X			4	
DUP-35 (720-90479-11)	12/20/18	Pacific		Solid			X	X	X			4	
DG-AT5S-0.5-1 (720-90479-12)	12/20/18	12:50 Pacific		Solid			X	X	X			4	
DG-AT5S-3.5-4 (720-90479-13)	12/20/18	13:05 Pacific		Solid			X	X	X			4	
DUP-18 (720-90479-14)	12/20/18	Pacific		Solid			X	X	X			4	
DG-AR5S-0.5-1 (720-90479-15)	12/20/18	13:55 Pacific		Solid			X	X	X			4	
DG-AR5S-3.5-4 (720-90479-16)	12/20/18	14:05 Pacific		Solid			X	X	X			6	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment	
Relinquished by:		Date/Time: 12/21/18 1419	Company TAPS	Received by:		Date/Time: 12.22.18 1100	Company TA RV
Relinquished by:		Date/Time:	Company	Received by:		Date/Time	Company
Relinquished by:		Date/Time	Company	Received by		Date/Time:	Company
Custody Seals Intact: ✓ Yes △ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks	2.9/.9 1289		

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0231	COC No: 720-40608.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_PW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_PW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AP5S-0.5-1 (720-90479-17)	12/20/18	14:35 Pacific		Solid			X	X	X			3	1
DG-AP5S-3.5-4 (720-90479-18)	12/20/18	14:50 Pacific		Solid			X	X	X			3	1
DG-AN5S-0.5-1 (720-90479-19)	12/20/18	15:15 Pacific		Solid			X	X	X			3	1
DG-AN5S-3.5-4 (720-90479-20)	12/20/18	15:30 Pacific		Solid			X	X	X			3	1
DG-S9S-7 (720-90479-21)	12/20/18	13:40 Pacific		Solid			X	X				2	
DG-S9S-4.5-5 (720-90479-22)	12/20/18	11:30 Pacific		Solid			X	X				2	
TB-122018 (720-90479-23)	12/20/18	Pacific		Water						X	X	2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/21/18 1449	Company: TAPLS	Received by:	Date/Time: 12.22.18 1100	Company: TA 1124
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: ▲ Yes △ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks: .9 / .9 1289

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90479-1
SDG Number: Brisbane OU2

Login Number: 90479
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90479-1
SDG Number: Brisbane OU2

Login Number: 90479
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/21/18 04:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90479-1
SDG Number: Brisbane OU2

Login Number: 90479
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/21/18 04:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90479-1
SDG Number: Brisbane OU2

Login Number: 90479
List Number: 4
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/21/18 04:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90480-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/9/2019 6:24:54 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90480-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90480-1

Comments
No additional comments.

Receipt
The samples were received on 12/20/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.5º C, 0.8º C, 1.0º C, 1.1º C, 1.3º C, 1.4º C, 2.0º C and 3.5º C.

Receipt Exceptions

Sample DG-AV7S-3.5-4 4 oz jar filled half full.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257547 and analytical batch 720-258031 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Cobalt-130%, Chromium-141%, Copper-151%, Molybdenum-128%, Nickel-131%, Lead-149%, Antimony-129%, Selenium-128%, Thallium-130%, Vanadium-140%, Zinc-193%, Silver-137%, Arsenic-129%, Barium-198%, Beryllium-135% and Cadmium-128% associated with batch 720-258031 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258031 was outside control limits for Barium-26%, Cobalt-46%, Chromium-21%, Nickel-22%, Lead-22%, Vanadium-21% and Zinc-20% (720-90481-A-17-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DUP-62 (720-90480-16), DG-S9S-0.5-1 (720-90480-17), DG-S9S-3.5-4 (720-90480-18), DG-O9S-0.5-1 (720-90480-19), DG-O9S-3.5-4 (720-90480-20), DG-N11S-3.5-4 (720-90480-21), DG-R11S-0.5-1 (720-90480-22), DG-R11S-3.5-4 (720-90480-23), DG-R11S-7.5-8 (720-90480-24), DG-Q9S-0.5-1 (720-90480-25), DG-Q9S-3.5-4 (720-90480-26), DG-P11S-0.5-1 (720-90480-27), DG-N11S-0.5-1 (720-90480-28), (720-90481-A-17-C), (720-90481-A-17-A MS), (720-90481-A-17-B MSD), (720-90481-A-17-C PDS) and (720-90481-A-17-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257538 and analytical batch 720-258036 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Arsenic-127%, Barium-141%, Beryllium-129%, Chromium-132%, Copper-163%, Molybdenum-128%, Lead-143%, Vanadium-128% and Zinc-154% associated with batch 720-258036 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258036 was outside control limits for Cobalt-19%, Chromium-22%, Copper-13%, Nickel-22%, Lead-17%, Vanadium-12% and Zinc-15%: (720-90480-A-14-I SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AV7S-0.5-1 (720-90480-1), DG-AV7S-3.5-4 (720-90480-2), DG-AV7S-7.5-8 (720-90480-3), DG-AS9S-0.5-1 (720-90480-4), DG-AS9S-3.5-4 (720-90480-5), DG-AC9S-0.5-1 (720-90480-6), DG-AC9S-3.5-4 (720-90480-7), DG-AA9S-0.5-1 (720-90480-8), DG-Y9S-0.5-1 (720-90480-9), DG-Y9S-3.5-4 (720-90480-10), DG-W9S-0.5-1 (720-90480-11), DG-W9S-3.5-4 (720-90480-12), DG-W9S-8.5-9 (720-90480-13), DG-U9S-0.5-1 (720-90480-14) and DG-U9S-3.5-4 (720-90480-15). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-257538 and analytical batch 720-258036 contained Barium, Chromium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following sample was diluted due to the abundance of non-target analytes: DG-Q9S-3.5-4 (720-90480-26). Elevated

Job ID: 720-90480-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258071 contained Pb above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-257547 and analytical batch 720-258071 contained Barium, Cadmium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258082 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AA9S-0.5-1 (720-90480-8), DG-Y9S-3.5-4 (720-90480-10) and DG-W9S-3.5-4 (720-90480-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-AV7S-0.5-1 — Lab Sample ID: 720-90480-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	140		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	81	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.34		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	11	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	160		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	10	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.51	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	5.2		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	58		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV7S-3.5-4 — Lab Sample ID: 720-90480-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	72		4.6	0.77	mg/Kg	10		6010B	Total/NA
Arsenic	73		9.3	0.79	mg/Kg	10		6010B	Total/NA
Barium	1900	B	4.6	0.66	mg/Kg	10		6010B	Total/NA
Beryllium	0.69	J	0.93	0.30	mg/Kg	10		6010B	Total/NA
Cadmium	19		1.2	0.11	mg/Kg	10		6010B	Total/NA
Chromium	85	B	4.6	0.49	mg/Kg	10		6010B	Total/NA
Cobalt	12		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	9900		14	6.6	mg/Kg	10		6010B	Total/NA
Lead	6000	B	4.6	0.97	mg/Kg	10		6010B	Total/NA
Molybdenum	4.7		4.6	0.59	mg/Kg	10		6010B	Total/NA
Nickel	150		4.6	0.47	mg/Kg	10		6010B	Total/NA
Selenium	10		9.3	1.4	mg/Kg	10		6010B	Total/NA
Silver	11		2.3	0.47	mg/Kg	10		6010B	Total/NA
Thallium	18		4.6	1.3	mg/Kg	10		6010B	Total/NA
Vanadium	42		4.6	0.63	mg/Kg	10		6010B	Total/NA
Zinc	10000		14	5.9	mg/Kg	10		6010B	Total/NA
Mercury	2.1		0.060	0.0088	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AV7S-7.5-8 — Lab Sample ID: 720-90480-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	94		4.5	0.74	mg/Kg	10		6010B	Total/NA
Arsenic	36		8.9	0.76	mg/Kg	10		6010B	Total/NA
Barium	1300	B	4.5	0.63	mg/Kg	10		6010B	Total/NA
Beryllium	0.64	J	0.89	0.29	mg/Kg	10		6010B	Total/NA
Cadmium	5.6		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	52	B	4.5	0.47	mg/Kg	10		6010B	Total/NA
Cobalt	12		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	12000		13	6.4	mg/Kg	10		6010B	Total/NA
Lead	4300	B	4.5	0.94	mg/Kg	10		6010B	Total/NA
Molybdenum	5.1		4.5	0.57	mg/Kg	10		6010B	Total/NA
Nickel	120		4.5	0.46	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV7S-7.5-8 (Continued) — Lab Sample ID: 720-90480-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	9.7		2.2	0.45	mg/Kg	10		6010B	Total/NA
Thallium	2.8	J	4.5	1.3	mg/Kg	10		6010B	Total/NA
Vanadium	28		4.5	0.61	mg/Kg	10		6010B	Total/NA
Zinc	6100		13	5.7	mg/Kg	10		6010B	Total/NA
Mercury	0.72		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS9S-0.5-1 — Lab Sample ID: 720-90480-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	22	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.071	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	83	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	17		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	14	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.34	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	80		1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	7.6		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	12		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.0022	J	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS9S-3.5-4 — Lab Sample ID: 720-90480-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	6.3		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J	0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	0.99		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	26	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	180		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	130	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	21		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.46	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	0.19	J	0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	82		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	290		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC9S-0.5-1 — Lab Sample ID: 720-90480-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	3.8		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	75	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.30	0.098	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC9S-0.5-1 (Continued) — Lab Sample ID: 720-90480-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.87		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	22	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	120		4.5	2.2	mg/Kg	4		6010B	Total/NA
Lead	190	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.94	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	18		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	83		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	180		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC9S-3.5-4 — Lab Sample ID: 720-90480-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	43		4.2	0.69	mg/Kg	10		6010B	Total/NA
Arsenic	35		8.3	0.71	mg/Kg	10		6010B	Total/NA
Barium	1700	B	4.2	0.59	mg/Kg	10		6010B	Total/NA
Beryllium	0.95		0.83	0.27	mg/Kg	10		6010B	Total/NA
Cadmium	3.7		1.0	0.10	mg/Kg	10		6010B	Total/NA
Chromium	52	B	4.2	0.44	mg/Kg	10		6010B	Total/NA
Cobalt	9.9		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	1700		13	5.9	mg/Kg	10		6010B	Total/NA
Lead	11000	B	4.2	0.88	mg/Kg	10		6010B	Total/NA
Molybdenum	4.1	J	4.2	0.53	mg/Kg	10		6010B	Total/NA
Nickel	46		4.2	0.43	mg/Kg	10		6010B	Total/NA
Silver	8.9		2.1	0.42	mg/Kg	10		6010B	Total/NA
Thallium	2.1	J	4.2	1.2	mg/Kg	10		6010B	Total/NA
Vanadium	37		4.2	0.57	mg/Kg	10		6010B	Total/NA
Zinc	2800		13	5.3	mg/Kg	10		6010B	Total/NA
Mercury	0.62		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA9S-0.5-1 — Lab Sample ID: 720-90480-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	29		5.6	0.93	mg/Kg	20		6010B	Total/NA
Arsenic	41		11	0.96	mg/Kg	20		6010B	Total/NA
Barium	1200	B	5.6	0.80	mg/Kg	20		6010B	Total/NA
Beryllium	0.56	J	1.1	0.37	mg/Kg	20		6010B	Total/NA
Cadmium	2.4		1.4	0.14	mg/Kg	20		6010B	Total/NA
Chromium	49	B	5.6	0.60	mg/Kg	20		6010B	Total/NA
Cobalt	10		2.2	0.22	mg/Kg	20		6010B	Total/NA
Copper	840		17	8.0	mg/Kg	20		6010B	Total/NA
Lead	3900	B ^	5.6	1.2	mg/Kg	20		6010B	Total/NA
Molybdenum	0.95	J	5.6	0.72	mg/Kg	20		6010B	Total/NA
Nickel	53		5.6	0.57	mg/Kg	20		6010B	Total/NA
Silver	5.4		2.8	0.57	mg/Kg	20		6010B	Total/NA
Vanadium	35		5.6	0.76	mg/Kg	20		6010B	Total/NA
Zinc	2400		17	7.1	mg/Kg	20		6010B	Total/NA
Mercury	0.79		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-Y9S-0.5-1 — Lab Sample ID: 720-90480-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	39	B	1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.34		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	11	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	150		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	12	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.64	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	4.1		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.96	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	58		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y9S-3.5-4 — Lab Sample ID: 720-90480-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	100		8.3	1.4	mg/Kg	20		6010B	Total/NA
Arsenic	47		17	1.4	mg/Kg	20		6010B	Total/NA
Barium	1100	B	8.3	1.2	mg/Kg	20		6010B	Total/NA
Cadmium	2.1		2.1	0.21	mg/Kg	20		6010B	Total/NA
Chromium	51	B	8.3	0.88	mg/Kg	20		6010B	Total/NA
Cobalt	16		3.3	0.33	mg/Kg	20		6010B	Total/NA
Copper	1100		25	12	mg/Kg	20		6010B	Total/NA
Lead	4900	B ^	8.3	1.8	mg/Kg	20		6010B	Total/NA
Molybdenum	1.2	J	8.3	1.1	mg/Kg	20		6010B	Total/NA
Nickel	92		8.3	0.85	mg/Kg	20		6010B	Total/NA
Silver	18		4.2	0.84	mg/Kg	20		6010B	Total/NA
Vanadium	56		8.3	1.1	mg/Kg	20		6010B	Total/NA
Zinc	2100		25	11	mg/Kg	20		6010B	Total/NA
Mercury	0.74		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W9S-0.5-1 — Lab Sample ID: 720-90480-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.89	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	2.1	J	2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	55	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.27		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	26	B	1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	7.0		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	92		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	77	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.42	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	15		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	96		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.075		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-W9S-3.5-4 — Lab Sample ID: 720-90480-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	27		5.3	0.88	mg/Kg	20		6010B	Total/NA
Arsenic	38		11	0.90	mg/Kg	20		6010B	Total/NA
Barium	960	B	5.3	0.76	mg/Kg	20		6010B	Total/NA
Beryllium	0.51	J	1.1	0.35	mg/Kg	20		6010B	Total/NA
Cadmium	2.8		1.3	0.13	mg/Kg	20		6010B	Total/NA
Chromium	33	B	5.3	0.56	mg/Kg	20		6010B	Total/NA
Cobalt	11		2.1	0.21	mg/Kg	20		6010B	Total/NA
Copper	950		16	7.6	mg/Kg	20		6010B	Total/NA
Lead	7500	B ^	5.3	1.1	mg/Kg	20		6010B	Total/NA
Molybdenum	1.5	J	5.3	0.68	mg/Kg	20		6010B	Total/NA
Nickel	40		5.3	0.54	mg/Kg	20		6010B	Total/NA
Silver	3.2		2.7	0.54	mg/Kg	20		6010B	Total/NA
Vanadium	25		5.3	0.72	mg/Kg	20		6010B	Total/NA
Zinc	2700		16	6.8	mg/Kg	20		6010B	Total/NA
Mercury	0.93		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W9S-8.5-9 — Lab Sample ID: 720-90480-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	22		3.6	0.61	mg/Kg	10		6010B	Total/NA
Arsenic	29		7.3	0.62	mg/Kg	10		6010B	Total/NA
Barium	600	B	3.6	0.52	mg/Kg	10		6010B	Total/NA
Beryllium	0.89		0.73	0.24	mg/Kg	10		6010B	Total/NA
Cadmium	3.2		0.91	0.091	mg/Kg	10		6010B	Total/NA
Chromium	46	B	3.6	0.39	mg/Kg	10		6010B	Total/NA
Cobalt	9.2		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	530		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	2200	B	3.6	0.77	mg/Kg	10		6010B	Total/NA
Molybdenum	5.4		3.6	0.47	mg/Kg	10		6010B	Total/NA
Nickel	48		3.6	0.37	mg/Kg	10		6010B	Total/NA
Silver	4.4		1.8	0.37	mg/Kg	10		6010B	Total/NA
Vanadium	29		3.6	0.50	mg/Kg	10		6010B	Total/NA
Zinc	1300		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	0.10		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U9S-0.5-1 — Lab Sample ID: 720-90480-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.4	F1	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	9.3	F1	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	110	B F1	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J F1	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.9		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	57	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	350	F2	5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	510	B F2	1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	2.3		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	27	F1	1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	72	F1	1.8	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-U9S-0.5-1 (Continued) — Lab Sample ID: 720-90480-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	740		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U9S-3.5-4 — Lab Sample ID: 720-90480-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	13		3.2	0.53	mg/Kg	10		6010B	Total/NA
Arsenic	8.9		6.3	0.54	mg/Kg	10		6010B	Total/NA
Barium	440	B	3.2	0.45	mg/Kg	10		6010B	Total/NA
Beryllium	0.38	J	0.63	0.21	mg/Kg	10		6010B	Total/NA
Cadmium	2.5		0.79	0.078	mg/Kg	10		6010B	Total/NA
Chromium	23	B	3.2	0.34	mg/Kg	10		6010B	Total/NA
Cobalt	10		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	460		9.5	4.5	mg/Kg	10		6010B	Total/NA
Lead	1400	B	3.2	0.66	mg/Kg	10		6010B	Total/NA
Molybdenum	1.7	J	3.2	0.41	mg/Kg	10		6010B	Total/NA
Nickel	21		3.2	0.32	mg/Kg	10		6010B	Total/NA
Silver	0.34	J	1.6	0.32	mg/Kg	10		6010B	Total/NA
Vanadium	67		3.2	0.43	mg/Kg	10		6010B	Total/NA
Zinc	720		9.5	4.0	mg/Kg	10		6010B	Total/NA
Mercury	0.38		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-62 — Lab Sample ID: 720-90480-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	10		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	10		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	430	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	1.7	B	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	22		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	450		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	1300	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.30	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	43		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.72	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Silver	0.75	J	0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	930		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.27		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S9S-0.5-1 — Lab Sample ID: 720-90480-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	3.3		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	67	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.40	B	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	15		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.64	0.064	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S9S-0.5-1 (Continued) — Lab Sample ID: 720-90480-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	92		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	98	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	13		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	130		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.064		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S9S-3.5-4 — Lab Sample ID: 720-90480-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.0	J	3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	42	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Chromium	7.4		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	140		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	4.0	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	9.7		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.81	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	88		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	38		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O9S-0.5-1 — Lab Sample ID: 720-90480-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	1.1	J	2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	34	B	1.4	0.19	mg/Kg	4		6010B	Total/NA
Chromium	7.3		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	100		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	27	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	7.0		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	83		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	49		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.067		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O9S-3.5-4 — Lab Sample ID: 720-90480-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	15		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	61	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.80		0.35	0.12	mg/Kg	4		6010B	Total/NA
Chromium	37		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	31		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	34	B	1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	27		1.8	0.18	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O9S-3.5-4 (Continued) — Lab Sample ID: 720-90480-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	46		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	230		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.037		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N11S-3.5-4 — Lab Sample ID: 720-90480-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	24		3.0	0.50	mg/Kg	10		6010B	Total/NA
Arsenic	31		6.0	0.51	mg/Kg	10		6010B	Total/NA
Barium	340	B	3.0	0.43	mg/Kg	10		6010B	Total/NA
Cadmium	0.79	B	0.75	0.075	mg/Kg	10		6010B	Total/NA
Chromium	42		3.0	0.32	mg/Kg	10		6010B	Total/NA
Cobalt	10		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	230		9.0	4.3	mg/Kg	10		6010B	Total/NA
Lead	6600	B	3.0	0.63	mg/Kg	10		6010B	Total/NA
Molybdenum	0.90	J	3.0	0.39	mg/Kg	10		6010B	Total/NA
Nickel	24		3.0	0.31	mg/Kg	10		6010B	Total/NA
Selenium	1.4	J	6.0	0.90	mg/Kg	10		6010B	Total/NA
Silver	0.35	J	1.5	0.30	mg/Kg	10		6010B	Total/NA
Vanadium	20		3.0	0.41	mg/Kg	10		6010B	Total/NA
Zinc	900		9.0	3.8	mg/Kg	10		6010B	Total/NA
Mercury	0.18		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R11S-0.5-1 — Lab Sample ID: 720-90480-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	120		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	50	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Chromium	57		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	8.3		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	12		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	6.4	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	29		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.63	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	23		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.036		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R11S-3.5-4 — Lab Sample ID: 720-90480-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.1	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	41		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	51	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.48		0.21	0.068	mg/Kg	4		6010B	Total/NA
Cadmium	0.048	J B	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	27		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	44		3.2	1.5	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R11S-3.5-4 (Continued) — Lab Sample ID: 720-90480-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	50	B	1.1	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.1	0.13	mg/Kg	4		6010B	Total/NA
Nickel	33		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.1	0.14	mg/Kg	4		6010B	Total/NA
Zinc	87		3.2	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.045		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R11S-7.5-8 — Lab Sample ID: 720-90480-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.90	J	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	4.6		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	27	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.26	0.086	mg/Kg	4		6010B	Total/NA
Chromium	49		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	8.4		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	23		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	6.1	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.57	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	45		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.49	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	50		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.048		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q9S-0.5-1 — Lab Sample ID: 720-90480-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	12		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	49	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Cadmium	0.52	B	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	22		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	97		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	280	B	1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	20		1.0	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	130		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.52		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q9S-3.5-4 — Lab Sample ID: 720-90480-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	36		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	380		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	86	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.35		0.25	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	1.1	B	0.32	0.032	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q9S-3.5-4 (Continued) — Lab Sample ID: 720-90480-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	95		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	620		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	1500	B ^	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.56	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	100		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.53	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Thallium	1.7		1.3	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	230		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	2.7		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-P11S-0.5-1 — Lab Sample ID: 720-90480-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	1.3	J	2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	48	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.040	J B	0.27	0.026	mg/Kg	4		6010B	Total/NA
Chromium	60		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	6.3		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	25		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	76	B	1.1	0.22	mg/Kg	4		6010B	Total/NA
Nickel	63		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.1	0.14	mg/Kg	4		6010B	Total/NA
Zinc	37		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N11S-0.5-1 — Lab Sample ID: 720-90480-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	39		4.8	0.79	mg/Kg	10		6010B	Total/NA
Arsenic	30		9.5	0.81	mg/Kg	10		6010B	Total/NA
Barium	200	B	4.8	0.68	mg/Kg	10		6010B	Total/NA
Cadmium	2.1	B	1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	36		4.8	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	12		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	1700		14	6.8	mg/Kg	10		6010B	Total/NA
Lead	2900	B	4.8	1.0	mg/Kg	10		6010B	Total/NA
Nickel	36		4.8	0.49	mg/Kg	10		6010B	Total/NA
Silver	1.3	J	2.4	0.48	mg/Kg	10		6010B	Total/NA
Vanadium	25		4.8	0.65	mg/Kg	10		6010B	Total/NA
Zinc	1200		14	6.0	mg/Kg	10		6010B	Total/NA
Mercury	0.13		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV7S-0.5-1

Date Collected: 12/20/18 08:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.28	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Arsenic	**140**		3.3	0.28	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Barium	**81**	**B**	1.7	0.24	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Beryllium	**0.34**		0.33	0.11	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Cadmium	**0.12**	**J**	0.42	0.041	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Chromium	**11**	**B**	1.7	0.18	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Cobalt	**15**		0.67	0.067	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Copper	**160**		5.0	2.4	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Lead	**10**	**B**	1.7	0.35	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Molybdenum	**0.51**	**J**	1.7	0.21	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Nickel	**5.2**		1.7	0.17	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Selenium	**1.1**	**J**	3.3	0.50	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Silver	ND		0.83	0.17	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Thallium	ND		1.7	0.48	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Vanadium	**130**		1.7	0.23	mg/Kg		12/24/18 11:28	01/04/19 20:05	4
Zinc	**58**		5.0	2.1	mg/Kg		12/24/18 11:28	01/04/19 20:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.016	0.0024	mg/Kg		01/07/19 20:35	01/08/19 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.2**		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AV7S-3.5-4

Date Collected: 12/20/18 08:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	72		4.6	0.77	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Arsenic	73		9.3	0.79	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Barium	1900	B	4.6	0.66	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Beryllium	0.69	J	0.93	0.30	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Cadmium	19		1.2	0.11	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Chromium	85	B	4.6	0.49	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Cobalt	12		1.9	0.19	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Copper	9900		14	6.6	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Lead	6000	B	4.6	0.97	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Molybdenum	4.7		4.6	0.59	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Nickel	150		4.6	0.47	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Selenium	10		9.3	1.4	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Silver	11		2.3	0.47	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Thallium	18		4.6	1.3	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Vanadium	42		4.6	0.63	mg/Kg		12/24/18 11:28	01/04/19 20:10	10
Zinc	10000		14	5.9	mg/Kg		12/24/18 11:28	01/04/19 20:10	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.1		0.060	0.0088	mg/Kg		01/07/19 20:35	01/08/19 10:57	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.9		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AV7S-7.5-8

Date Collected: 12/20/18 08:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	94		4.5	0.74	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Arsenic	36		8.9	0.76	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Barium	1300	B	4.5	0.63	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Beryllium	0.64	J	0.89	0.29	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Cadmium	5.6		1.1	0.11	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Chromium	52	B	4.5	0.47	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Cobalt	12		1.8	0.18	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Copper	12000		13	6.4	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Lead	4300	B	4.5	0.94	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Molybdenum	5.1		4.5	0.57	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Nickel	120		4.5	0.46	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Selenium	ND		8.9	1.3	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Silver	9.7		2.2	0.45	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Thallium	2.8	J	4.5	1.3	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Vanadium	28		4.5	0.61	mg/Kg		12/24/18 11:28	01/04/19 20:15	10
Zinc	6100		13	5.7	mg/Kg		12/24/18 11:28	01/04/19 20:15	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.72		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.8		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AS9S-0.5-1

Date Collected: 12/20/18 08:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.27	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Arsenic	**4.5**		3.3	0.28	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Barium	**22**	**B**	1.6	0.23	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Beryllium	**0.13**	**J**	0.33	0.11	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Cadmium	**0.071**	**J**	0.41	0.041	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Chromium	**83**	**B**	1.6	0.17	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Cobalt	**5.2**		0.66	0.066	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Copper	**17**		4.9	2.3	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Lead	**14**	**B**	1.6	0.34	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Molybdenum	**0.34**	**J**	1.6	0.21	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Nickel	**80**		1.6	0.17	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Selenium	ND		3.3	0.49	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Silver	ND		0.82	0.17	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Thallium	ND		1.6	0.48	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Vanadium	**7.6**		1.6	0.22	mg/Kg		12/24/18 11:28	01/04/19 20:20	4
Zinc	**12**		4.9	2.1	mg/Kg		12/24/18 11:28	01/04/19 20:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0022**	**J**	0.015	0.0021	mg/Kg		01/07/19 20:35	01/08/19 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.8**		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AS9S-3.5-4

Date Collected: 12/20/18 08:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.5	0.25	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Arsenic	6.3		3.0	0.26	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Barium	110	B	1.5	0.21	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Beryllium	0.26	J	0.30	0.098	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Cadmium	0.99		0.38	0.037	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Chromium	26	B	1.5	0.16	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Cobalt	11		0.60	0.060	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Copper	180		4.5	2.1	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Lead	130	B	1.5	0.32	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Molybdenum	1.3	J	1.5	0.19	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Nickel	21		1.5	0.15	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Selenium	0.46	J	3.0	0.45	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Silver	0.19	J	0.75	0.15	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Thallium	ND		1.5	0.44	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Vanadium	82		1.5	0.20	mg/Kg		12/24/18 11:28	01/04/19 20:25	4
Zinc	290		4.5	1.9	mg/Kg		12/24/18 11:28	01/04/19 20:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.015	0.0023	mg/Kg		01/07/19 20:35	01/08/19 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AC9S-0.5-1

Date Collected: 12/20/18 09:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.5	0.25	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Arsenic	3.8		3.0	0.26	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Barium	75	B	1.5	0.22	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Beryllium	0.24	J	0.30	0.098	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Cadmium	0.87		0.38	0.038	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Chromium	22	B	1.5	0.16	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Cobalt	10		0.61	0.061	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Copper	120		4.5	2.2	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Lead	190	B	1.5	0.32	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Molybdenum	0.94	J	1.5	0.19	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Nickel	18		1.5	0.15	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Selenium	ND		3.0	0.45	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Silver	ND		0.76	0.15	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Thallium	ND		1.5	0.44	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Vanadium	83		1.5	0.21	mg/Kg		12/24/18 11:28	01/04/19 20:29	4
Zinc	180		4.5	1.9	mg/Kg		12/24/18 11:28	01/04/19 20:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.016	0.0024	mg/Kg		01/07/19 20:35	01/08/19 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.0		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AC9S-3.5-4

Date Collected: 12/20/18 09:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	43		4.2	0.69	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Arsenic	35		8.3	0.71	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Barium	1700	B	4.2	0.59	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Beryllium	0.95		0.83	0.27	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Cadmium	3.7		1.0	0.10	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Chromium	52	B	4.2	0.44	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Cobalt	9.9		1.7	0.17	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Copper	1700		13	5.9	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Lead	11000	B	4.2	0.88	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Molybdenum	4.1	J	4.2	0.53	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Nickel	46		4.2	0.43	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Selenium	ND		8.3	1.3	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Silver	8.9		2.1	0.42	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Thallium	2.1	J	4.2	1.2	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Vanadium	37		4.2	0.57	mg/Kg		12/24/18 11:28	01/04/19 20:34	10
Zinc	2800		13	5.3	mg/Kg		12/24/18 11:28	01/04/19 20:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.62		0.015	0.0021	mg/Kg		01/07/19 20:35	01/08/19 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33.3		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-AA9S-0.5-1

Date Collected: 12/20/18 09:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	29		5.6	0.93	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Arsenic	41		11	0.96	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Barium	1200	B	5.6	0.80	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Beryllium	0.56	J	1.1	0.37	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Cadmium	2.4		1.4	0.14	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Chromium	49	B	5.6	0.60	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Cobalt	10		2.2	0.22	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Copper	840		17	8.0	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Lead	3900	B ^	5.6	1.2	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Molybdenum	0.95	J	5.6	0.72	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Nickel	53		5.6	0.57	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Selenium	ND		11	1.7	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Silver	5.4		2.8	0.57	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Thallium	ND		5.6	1.6	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Vanadium	35		5.6	0.76	mg/Kg		12/24/18 11:28	01/07/19 15:26	20
Zinc	2400		17	7.1	mg/Kg		12/24/18 11:28	01/07/19 15:26	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.79		0.016	0.0023	mg/Kg		01/07/19 20:35	01/08/19 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.2		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-Y9S-0.5-1

Date Collected: 12/20/18 10:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.27	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Arsenic	**5.0**		3.3	0.28	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Barium	**39**	**B**	1.7	0.23	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Beryllium	**0.34**		0.33	0.11	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Cadmium	**0.21**	**J**	0.41	0.041	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Chromium	**11**	**B**	1.7	0.18	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Cobalt	**12**		0.66	0.066	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Copper	**150**		5.0	2.4	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Lead	**12**	**B**	1.7	0.35	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Molybdenum	**0.64**	**J**	1.7	0.21	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Nickel	**4.1**		1.7	0.17	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Selenium	**0.96**	**J**	3.3	0.50	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Silver	ND		0.83	0.17	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Thallium	ND		1.7	0.48	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Vanadium	**120**		1.7	0.22	mg/Kg		12/24/18 11:28	01/04/19 20:53	4
Zinc	**58**		5.0	2.1	mg/Kg		12/24/18 11:28	01/04/19 20:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.016	0.0024	mg/Kg		01/07/19 20:35	01/08/19 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-Y9S-3.5-4

Date Collected: 12/20/18 10:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	100		8.3	1.4	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Arsenic	47		17	1.4	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Barium	1100	B	8.3	1.2	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Beryllium	ND		1.7	0.54	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Cadmium	2.1		2.1	0.21	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Chromium	51	B	8.3	0.88	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Cobalt	16		3.3	0.33	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Copper	1100		25	12	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Lead	4900	B ^	8.3	1.8	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Molybdenum	1.2	J	8.3	1.1	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Nickel	92		8.3	0.85	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Selenium	ND		17	2.5	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Silver	18		4.2	0.84	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Thallium	ND		8.3	2.4	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Vanadium	56		8.3	1.1	mg/Kg		12/24/18 11:28	01/07/19 15:30	20
Zinc	2100		25	11	mg/Kg		12/24/18 11:28	01/07/19 15:30	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.74		0.016	0.0023	mg/Kg		01/07/19 20:35	01/08/19 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.3		0.1	0.05	%			12/24/18 13:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-W9S-0.5-1

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.89	J	1.1	0.18	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Arsenic	2.1	J	2.2	0.18	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Barium	55	B	1.1	0.15	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Beryllium	0.19	J	0.22	0.070	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Cadmium	0.27		0.27	0.027	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Chromium	26	B	1.1	0.11	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Cobalt	7.0		0.43	0.043	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Copper	92		3.2	1.5	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Lead	77	B	1.1	0.23	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Molybdenum	0.42	J	1.1	0.14	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Nickel	15		1.1	0.11	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Selenium	ND		2.2	0.32	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Silver	ND		0.54	0.11	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Thallium	ND		1.1	0.31	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Vanadium	66		1.1	0.15	mg/Kg		12/24/18 11:28	01/04/19 21:03	4
Zinc	96		3.2	1.4	mg/Kg		12/24/18 11:28	01/04/19 21:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.016	0.0024	mg/Kg		01/07/19 20:35	01/08/19 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-W9S-3.5-4

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	27		5.3	0.88	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Arsenic	38		11	0.90	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Barium	960	B	5.3	0.76	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Beryllium	0.51	J	1.1	0.35	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Cadmium	2.8		1.3	0.13	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Chromium	33	B	5.3	0.56	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Cobalt	11		2.1	0.21	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Copper	950		16	7.6	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Lead	7500	B ^	5.3	1.1	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Molybdenum	1.5	J	5.3	0.68	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Nickel	40		5.3	0.54	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Selenium	ND		11	1.6	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Silver	3.2		2.7	0.54	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Thallium	ND		5.3	1.5	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Vanadium	25		5.3	0.72	mg/Kg		12/24/18 11:28	01/07/19 15:35	20
Zinc	2700		16	6.8	mg/Kg		12/24/18 11:28	01/07/19 15:35	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.93		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	38.0		0.1	0.05	%			12/24/18 13:46	1

Client Sample ID: DG-W9S-8.5-9

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	22		3.6	0.61	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Arsenic	29		7.3	0.62	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Barium	600	B	3.6	0.52	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Beryllium	0.89		0.73	0.24	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Cadmium	3.2		0.91	0.091	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Chromium	46	B	3.6	0.39	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Cobalt	9.2		1.5	0.15	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Copper	530		11	5.2	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Lead	2200	B	3.6	0.77	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Molybdenum	5.4		3.6	0.47	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Nickel	48		3.6	0.37	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Selenium	ND		7.3	1.1	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Silver	4.4		1.8	0.37	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Thallium	ND		3.6	1.1	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Vanadium	29		3.6	0.50	mg/Kg		12/24/18 11:28	01/04/19 21:12	10
Zinc	1300		11	4.6	mg/Kg		12/24/18 11:28	01/04/19 21:12	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	38.2		0.1	0.05	%			12/24/18 14:26	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-U9S-0.5-1

Date Collected: 12/20/18 10:45
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.4	F1	1.8	0.29	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Arsenic	9.3	F1	3.5	0.30	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Barium	110	B F1	1.8	0.25	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Beryllium	0.26	J F1	0.35	0.12	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Cadmium	1.9		0.44	0.044	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Chromium	57	B	1.8	0.19	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Cobalt	11		0.71	0.071	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Copper	350	F2	5.3	2.5	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Lead	510	B F2	1.8	0.37	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Molybdenum	2.3		1.8	0.23	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Nickel	27	F1	1.8	0.18	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Selenium	ND		3.5	0.53	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Silver	ND		0.88	0.18	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Thallium	ND		1.8	0.51	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Vanadium	72	F1	1.8	0.24	mg/Kg		12/24/18 11:28	01/04/19 19:27	4
Zinc	740		5.3	2.2	mg/Kg		12/24/18 11:28	01/04/19 19:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-U9S-3.5-4

Date Collected: 12/20/18 10:45
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	13		3.2	0.53	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Arsenic	8.9		6.3	0.54	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Barium	440	B	3.2	0.45	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Beryllium	0.38	J	0.63	0.21	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Cadmium	2.5		0.79	0.078	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Chromium	23	B	3.2	0.34	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Cobalt	10		1.3	0.13	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Copper	460		9.5	4.5	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Lead	1400	B	3.2	0.66	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Molybdenum	1.7	J	3.2	0.41	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Nickel	21		3.2	0.32	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Selenium	ND		6.3	0.95	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Silver	0.34	J	1.6	0.32	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Thallium	ND		3.2	0.92	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Vanadium	67		3.2	0.43	mg/Kg		12/24/18 11:28	01/04/19 21:17	10
Zinc	720		9.5	4.0	mg/Kg		12/24/18 11:28	01/04/19 21:17	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DUP-62

Date Collected: 12/20/18 10:45
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	10		1.6	0.26	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Arsenic	10		3.1	0.27	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Barium	430	B	1.6	0.22	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Beryllium	ND		0.31	0.10	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Cadmium	1.7	B	0.39	0.039	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Chromium	22		1.6	0.17	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Cobalt	11		0.63	0.063	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Copper	450		4.7	2.2	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Lead	1300	B	1.6	0.33	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Molybdenum	0.30	J	1.6	0.20	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Nickel	43		1.6	0.16	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Selenium	0.72	J	3.1	0.47	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Silver	0.75	J	0.78	0.16	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Thallium	ND		1.6	0.45	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Vanadium	69		1.6	0.21	mg/Kg		01/03/19 11:10	01/04/19 18:21	4
Zinc	930		4.7	2.0	mg/Kg		01/03/19 11:10	01/04/19 18:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.015	0.0023	mg/Kg		01/07/19 20:35	01/08/19 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.5		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-S9S-0.5-1

Date Collected: 12/20/18 11:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.6	0.27	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Arsenic	3.3		3.2	0.27	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Barium	67	B	1.6	0.23	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Beryllium	ND		0.32	0.10	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Cadmium	0.40	B	0.40	0.040	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Chromium	15		1.6	0.17	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Cobalt	11		0.64	0.064	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Copper	92		4.8	2.3	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Lead	98	B	1.6	0.34	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Molybdenum	0.28	J	1.6	0.20	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Nickel	13		1.6	0.16	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Selenium	ND		3.2	0.48	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Silver	ND		0.80	0.16	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Thallium	ND		1.6	0.46	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Vanadium	74		1.6	0.22	mg/Kg		01/03/19 11:10	01/04/19 18:26	4
Zinc	130		4.8	2.0	mg/Kg		01/03/19 11:10	01/04/19 18:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.016	0.0023	mg/Kg		01/07/19 20:35	01/08/19 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-S9S-3.5-4

Date Collected: 12/20/18 11:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Arsenic	**1.0**	**J**	3.1	0.27	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Barium	**42**	**B**	1.6	0.22	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Beryllium	ND		0.31	0.10	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Cadmium	ND		0.39	0.039	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Chromium	**7.4**		1.6	0.17	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Cobalt	**10**		0.63	0.063	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Copper	**140**		4.7	2.2	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Lead	**4.0**	**B**	1.6	0.33	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Nickel	**9.7**		1.6	0.16	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Selenium	**0.81**	**J**	3.1	0.47	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Silver	ND		0.79	0.16	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Thallium	ND		1.6	0.46	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Vanadium	**88**		1.6	0.21	mg/Kg		01/03/19 11:10	01/04/19 18:40	4
Zinc	**38**		4.7	2.0	mg/Kg		01/03/19 11:10	01/04/19 18:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.017	0.0025	mg/Kg		01/07/19 20:35	01/08/19 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.4**		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-O9S-0.5-1

Date Collected: 12/20/18 14:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.4	0.23	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Arsenic	1.1	J	2.7	0.23	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Barium	34	B	1.4	0.19	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Beryllium	ND		0.27	0.089	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Cadmium	ND		0.34	0.034	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Chromium	7.3		1.4	0.15	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Cobalt	12		0.55	0.055	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Copper	100		4.1	2.0	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Lead	27	B	1.4	0.29	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Nickel	7.0		1.4	0.14	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Selenium	ND		2.7	0.41	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Silver	ND		0.68	0.14	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Thallium	ND		1.4	0.40	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Vanadium	83		1.4	0.19	mg/Kg		01/03/19 11:10	01/04/19 18:44	4
Zinc	49		4.1	1.7	mg/Kg		01/03/19 11:10	01/04/19 18:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.016	0.0023	mg/Kg		01/07/19 20:35	01/08/19 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-O9S-3.5-4

Date Collected: 12/20/18 14:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8		1.8	0.29	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Arsenic	15		3.5	0.30	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Barium	61	B	1.8	0.25	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Beryllium	0.80		0.35	0.12	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Cadmium	ND		0.44	0.044	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Chromium	37		1.8	0.19	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Cobalt	12		0.71	0.071	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Copper	31		5.3	2.5	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Lead	34	B	1.8	0.37	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Nickel	27		1.8	0.18	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Selenium	ND		3.5	0.53	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Silver	ND		0.88	0.18	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Thallium	ND		1.8	0.51	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Vanadium	46		1.8	0.24	mg/Kg		01/03/19 11:10	01/04/19 18:49	4
Zinc	230		5.3	2.2	mg/Kg		01/03/19 11:10	01/04/19 18:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-N11S-3.5-4

Date Collected: 12/20/18 14:45
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	24		3.0	0.50	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Arsenic	31		6.0	0.51	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Barium	340	B	3.0	0.43	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Beryllium	ND		0.60	0.20	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Cadmium	0.79	B	0.75	0.075	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Chromium	42		3.0	0.32	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Cobalt	10		1.2	0.12	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Copper	230		9.0	4.3	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Lead	6600	B	3.0	0.63	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Molybdenum	0.90	J	3.0	0.39	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Nickel	24		3.0	0.31	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Selenium	1.4	J	6.0	0.90	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Silver	0.35	J	1.5	0.30	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Thallium	ND		3.0	0.87	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Vanadium	20		3.0	0.41	mg/Kg		01/03/19 11:10	01/04/19 18:53	10
Zinc	900		9.0	3.8	mg/Kg		01/03/19 11:10	01/04/19 18:53	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-R11S-0.5-1

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.8	0.30	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Arsenic	120		3.6	0.30	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Barium	50	B	1.8	0.25	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Beryllium	ND		0.36	0.12	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Cadmium	ND		0.45	0.044	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Chromium	57		1.8	0.19	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Cobalt	8.3		0.71	0.071	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Copper	12		5.4	2.5	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Lead	6.4	B	1.8	0.38	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Nickel	29		1.8	0.18	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Selenium	0.63	J	3.6	0.54	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Silver	ND		0.89	0.18	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Thallium	ND		1.8	0.52	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Vanadium	59		1.8	0.24	mg/Kg		01/03/19 11:10	01/04/19 18:58	4
Zinc	23		5.4	2.3	mg/Kg		01/03/19 11:10	01/04/19 18:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-R11S-3.5-4

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.1	0.17	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Arsenic	41		2.1	0.18	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Barium	51	B	1.1	0.15	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Beryllium	0.48		0.21	0.068	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Cadmium	0.048	J B	0.26	0.026	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Chromium	27		1.1	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Cobalt	15		0.42	0.042	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Copper	44		3.2	1.5	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Lead	50	B	1.1	0.22	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Molybdenum	0.25	J	1.1	0.13	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Nickel	33		1.1	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Selenium	ND		2.1	0.32	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Silver	ND		0.53	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Thallium	ND		1.1	0.31	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Vanadium	32		1.1	0.14	mg/Kg		01/03/19 11:10	01/04/19 19:02	4
Zinc	87		3.2	1.3	mg/Kg		01/03/19 11:10	01/04/19 19:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.015	0.0022	mg/Kg		01/07/19 20:35	01/08/19 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.9		0.1	0.05	%			12/24/18 14:26	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-R11S-7.5-8

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.90	J	1.3	0.22	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Arsenic	4.6		2.6	0.22	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Barium	27	B	1.3	0.19	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Beryllium	0.24	J	0.26	0.086	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Cadmium	ND		0.33	0.033	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Chromium	49		1.3	0.14	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Cobalt	8.4		0.53	0.053	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Copper	23		3.9	1.9	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Lead	6.1	B	1.3	0.28	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Molybdenum	0.57	J	1.3	0.17	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Nickel	45		1.3	0.13	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Selenium	0.49	J	2.6	0.39	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Silver	ND		0.66	0.13	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Thallium	ND		1.3	0.38	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Vanadium	37		1.3	0.18	mg/Kg		01/03/19 11:10	01/04/19 19:07	4
Zinc	50		3.9	1.7	mg/Kg		01/03/19 11:10	01/04/19 19:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.015	0.0021	mg/Kg		01/07/19 20:35	01/08/19 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	43.5		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-Q9S-0.5-1

Date Collected: 12/20/18 11:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.0	0.17	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Arsenic	12		2.0	0.17	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Barium	49	B	1.0	0.14	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Beryllium	ND		0.20	0.066	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Cadmium	0.52	B	0.25	0.025	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Chromium	22		1.0	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Cobalt	7.7		0.41	0.041	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Copper	97		3.0	1.4	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Lead	280	B	1.0	0.21	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Molybdenum	0.19	J	1.0	0.13	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Nickel	20		1.0	0.10	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Selenium	ND		2.0	0.30	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Silver	ND		0.51	0.10	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Thallium	ND		1.0	0.29	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Vanadium	53		1.0	0.14	mg/Kg		01/03/19 11:10	01/04/19 19:12	4
Zinc	130		3.0	1.3	mg/Kg		01/03/19 11:10	01/04/19 19:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.52		0.016	0.0024	mg/Kg		01/07/19 20:35	01/08/19 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-Q9S-3.5-4

Date Collected: 12/20/18 11:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	36		1.3	0.21	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Arsenic	380		2.5	0.22	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Barium	86	B	1.3	0.18	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Beryllium	0.35		0.25	0.083	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Cadmium	1.1	B	0.32	0.032	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Chromium	95		1.3	0.14	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Cobalt	13		0.51	0.051	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Copper	620		3.8	1.8	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Lead	1500	B ^	1.3	0.27	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Molybdenum	0.56	J	1.3	0.16	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Nickel	100		1.3	0.13	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Selenium	ND		2.5	0.38	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Silver	0.53	J	0.64	0.13	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Thallium	1.7		1.3	0.37	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Vanadium	54		1.3	0.17	mg/Kg		01/03/19 11:10	01/07/19 12:45	4
Zinc	230		3.8	1.6	mg/Kg		01/03/19 11:10	01/07/19 12:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.7		0.15	0.022	mg/Kg		01/07/19 20:35	01/08/19 09:34	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-P11S-0.5-1
Date Collected: 12/20/18 15:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-27
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6		1.1	0.18	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Arsenic	1.3	J	2.1	0.18	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Barium	48	B	1.1	0.15	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Beryllium	ND		0.21	0.069	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Cadmium	0.040	J B	0.27	0.026	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Chromium	60		1.1	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Cobalt	6.3		0.43	0.043	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Copper	25		3.2	1.5	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Lead	76	B	1.1	0.22	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Nickel	63		1.1	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Selenium	ND		2.1	0.32	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Silver	ND		0.53	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Thallium	ND		1.1	0.31	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Vanadium	26		1.1	0.14	mg/Kg		01/03/19 11:10	01/04/19 19:21	4
Zinc	37		3.2	1.4	mg/Kg		01/03/19 11:10	01/04/19 19:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.015	0.0021	mg/Kg		01/07/19 20:35	01/08/19 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.4		0.1	0.05	%			12/24/18 14:26	1

Client Sample ID: DG-N11S-0.5-1

Date Collected: 12/20/18 14:45
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	39		4.8	0.79	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Arsenic	30		9.5	0.81	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Barium	200	B	4.8	0.68	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Beryllium	ND		0.95	0.31	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Cadmium	2.1	B	1.2	0.12	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Chromium	36		4.8	0.50	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Cobalt	12		1.9	0.19	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Copper	1700		14	6.8	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Lead	2900	B	4.8	1.0	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Molybdenum	ND		4.8	0.61	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Nickel	36		4.8	0.49	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Selenium	ND		9.5	1.4	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Silver	1.3	J	2.4	0.48	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Thallium	ND		4.8	1.4	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Vanadium	25		4.8	0.65	mg/Kg		01/03/19 11:10	01/04/19 19:35	10
Zinc	1200		14	6.0	mg/Kg		01/03/19 11:10	01/04/19 19:35	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.016	0.0024	mg/Kg		01/07/19 20:35	01/08/19 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.4		0.1	0.05	%			12/24/18 14:26	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257538/1-A
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Arsenic	ND		1.0	0.085	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Barium	0.0744	J	0.50	0.071	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Beryllium	ND		0.10	0.033	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Cadmium	ND		0.13	0.012	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Chromium	0.0543	J	0.50	0.053	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Cobalt	ND		0.20	0.020	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Copper	ND		1.5	0.71	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Lead	0.193	J	0.50	0.11	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Nickel	ND		0.50	0.051	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Selenium	ND		1.0	0.15	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Silver	ND		0.25	0.051	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Thallium	ND		0.50	0.15	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Vanadium	ND		0.50	0.068	mg/Kg		12/24/18 11:28	01/04/19 18:59	1
Zinc	ND		1.5	0.64	mg/Kg		12/24/18 11:28	01/04/19 18:59	1

Lab Sample ID: LCS 720-257538/2-A
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.0		mg/Kg		100	80 - 120
Arsenic	50.0	53.8		mg/Kg		108	80 - 120
Barium	50.0	53.6		mg/Kg		107	80 - 120
Beryllium	50.0	51.6		mg/Kg		103	80 - 120
Cadmium	50.0	53.8		mg/Kg		108	80 - 120
Chromium	50.0	54.3		mg/Kg		109	80 - 120
Cobalt	50.0	54.6		mg/Kg		109	80 - 120
Copper	50.0	54.6		mg/Kg		109	80 - 120
Lead	50.0	54.7		mg/Kg		109	80 - 120
Molybdenum	50.0	55.0		mg/Kg		110	80 - 120
Nickel	50.0	53.9		mg/Kg		108	80 - 120
Selenium	50.0	51.7		mg/Kg		103	80 - 120
Silver	25.0	25.6		mg/Kg		102	80 - 120
Thallium	50.0	53.9		mg/Kg		108	80 - 120
Vanadium	50.0	53.5		mg/Kg		107	80 - 120
Zinc	50.0	53.4		mg/Kg		107	80 - 120

Lab Sample ID: 720-90480-14 MS
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: DG-U9S-0.5-1
Prep Type: Total/NA
Prep Batch: 257538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.4	F1	43.9	18.8	F1	mg/Kg		31	75 - 125
Arsenic	9.3	F1	43.9	63.1		mg/Kg		123	75 - 125
Barium	110	B F1	43.9	179	F1	mg/Kg		158	75 - 125
Beryllium	0.26	J F1	43.9	51.7		mg/Kg		117	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90480-14 MS
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: DG-U9S-0.5-1
Prep Type: Total/NA
Prep Batch: 257538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.9		43.9	52.3		mg/Kg		115	75 - 125
Chromium	57	B	43.9	94.8		mg/Kg		87	75 - 125
Cobalt	11		43.9	62.5		mg/Kg		117	75 - 125
Copper	350	F2	43.9	407	4	mg/Kg		137	75 - 125
Lead	510	B F2	43.9	528	4	mg/Kg		45	75 - 125
Molybdenum	2.3		43.9	52.4		mg/Kg		114	75 - 125
Nickel	27	F1	43.9	77.6		mg/Kg		116	75 - 125
Selenium	ND		43.9	48.6		mg/Kg		111	75 - 125
Silver	ND		21.9	24.5		mg/Kg		112	75 - 125
Thallium	ND		43.9	48.7		mg/Kg		111	75 - 125
Vanadium	72	F1	43.9	122		mg/Kg		112	75 - 125
Zinc	740		43.9	818	4	mg/Kg		184	75 - 125

Lab Sample ID: 720-90480-14 MSD
Matrix: Solid
Analysis Batch: 258036

Client Sample ID: DG-U9S-0.5-1
Prep Type: Total/NA
Prep Batch: 257538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.4	F1	43.1	18.5	F1	mg/Kg		30	75 - 125	2	20
Arsenic	9.3	F1	43.1	64.7	F1	mg/Kg		129	75 - 125	3	20
Barium	110	B F1	43.1	200	F1	mg/Kg		210	75 - 125	11	20
Beryllium	0.26	J F1	43.1	55.3	F1	mg/Kg		128	75 - 125	7	20
Cadmium	1.9		43.1	54.1		mg/Kg		121	75 - 125	3	20
Chromium	57	B	43.1	101		mg/Kg		103	75 - 125	6	20
Cobalt	11		43.1	65.0		mg/Kg		125	75 - 125	4	20
Copper	350	F2	43.1	521	4 F2	mg/Kg		404	75 - 125	25	20
Lead	510	B F2	43.1	657	4 F2	mg/Kg		347	75 - 125	22	20
Molybdenum	2.3		43.1	54.8		mg/Kg		122	75 - 125	4	20
Nickel	27	F1	43.1	92.0	F1	mg/Kg		152	75 - 125	17	20
Selenium	ND		43.1	48.9		mg/Kg		114	75 - 125	1	20
Silver	ND		21.6	24.7		mg/Kg		115	75 - 125	1	20
Thallium	ND		43.1	47.6		mg/Kg		110	75 - 125	2	20
Vanadium	72	F1	43.1	135	F1	mg/Kg		146	75 - 125	11	20
Zinc	740		43.1	853	4	mg/Kg		267	75 - 125	4	20

Lab Sample ID: MB 720-257547/1-A
Matrix: Solid
Analysis Batch: 258071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Arsenic	ND		1.0	0.085	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Barium	0.131	J	0.50	0.071	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Beryllium	ND		0.10	0.033	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Cadmium	0.0120	J	0.13	0.012	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Chromium	ND		0.50	0.053	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Cobalt	ND		0.20	0.020	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Copper	ND		1.5	0.71	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Lead	0.153	J	0.50	0.11	mg/Kg		01/03/19 11:10	01/07/19 12:36	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257547/1-A
Matrix: Solid
Analysis Batch: 258071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Nickel	ND		0.50	0.051	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Selenium	ND		1.0	0.15	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Silver	ND		0.25	0.051	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Thallium	ND		0.50	0.15	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Vanadium	ND		0.50	0.068	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Zinc	ND		1.5	0.64	mg/Kg		01/03/19 11:10	01/07/19 12:36	1

Lab Sample ID: LCS 720-257547/2-A
Matrix: Solid
Analysis Batch: 258071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.9		mg/Kg		94	80 - 120
Arsenic	50.0	46.5		mg/Kg		93	80 - 120
Barium	50.0	46.8		mg/Kg		94	80 - 120
Beryllium	50.0	46.8		mg/Kg		94	80 - 120
Cadmium	50.0	49.3		mg/Kg		99	80 - 120
Chromium	50.0	47.7		mg/Kg		95	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	50.0	47.6		mg/Kg		95	80 - 120
Lead	50.0	49.7		mg/Kg		99	80 - 120
Molybdenum	50.0	47.9		mg/Kg		96	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	50.0	47.3		mg/Kg		95	80 - 120
Silver	25.0	23.0		mg/Kg		92	80 - 120
Thallium	50.0	48.6		mg/Kg		97	80 - 120
Vanadium	50.0	47.7		mg/Kg		95	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

Lab Sample ID: 720-90481-A-17-A MS
Matrix: Solid
Analysis Batch: 258031

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.3	F1 F2	40.7	38.8		mg/Kg		85	75 - 125
Arsenic	10	F1 F2	40.7	116	F1	mg/Kg		261	75 - 125
Barium	210	B F2	40.7	457	4	mg/Kg		603	75 - 125
Beryllium	0.19	J F1	40.7	53.3	F1	mg/Kg		131	75 - 125
Cadmium	0.86	B	40.7	51.8		mg/Kg		125	75 - 125
Chromium	19	F1	40.7	82.2	F1	mg/Kg		156	75 - 125
Cobalt	4.7	F1	40.7	63.3	F1	mg/Kg		144	75 - 125
Copper	63	F1 F2	40.7	202	F1	mg/Kg		342	75 - 125
Lead	250	B	40.7	570	4	mg/Kg		790	75 - 125
Molybdenum	0.39	J	40.7	48.5		mg/Kg		118	75 - 125
Nickel	21	F1 F2	40.7	90.8	F1	mg/Kg		172	75 - 125
Selenium	0.83	J	40.7	48.2		mg/Kg		116	75 - 125
Silver	0.63	J F1	20.3	26.6	F1	mg/Kg		128	75 - 125
Thallium	ND		40.7	47.5		mg/Kg		117	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90481-A-17-A MS
Matrix: Solid
Analysis Batch: 258031

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	26	F1	40.7	88.8	F1	mg/Kg		155	75 - 125
Zinc	240		40.7	471	4	mg/Kg		577	75 - 125

Lab Sample ID: 720-90481-A-17-B MSD
Matrix: Solid
Analysis Batch: 258031

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.3	F1 F2	40.3	20.1	F1 F2	mg/Kg		39	75 - 125	64	20
Arsenic	10	F1 F2	40.3	60.0	F2	mg/Kg		124	75 - 125	64	20
Barium	210	B F2	40.3	316	4 F2	mg/Kg		258	75 - 125	37	20
Beryllium	0.19	J F1	40.3	47.5		mg/Kg		117	75 - 125	11	20
Cadmium	0.86	B	40.3	47.0		mg/Kg		114	75 - 125	10	20
Chromium	19	F1	40.3	69.9	F1	mg/Kg		127	75 - 125	16	20
Cobalt	4.7	F1	40.3	52.1		mg/Kg		117	75 - 125	19	20
Copper	63	F1 F2	40.3	142	F1 F2	mg/Kg		196	75 - 125	35	20
Lead	250	B	40.3	481	4	mg/Kg		577	75 - 125	17	20
Molybdenum	0.39	J	40.3	44.2		mg/Kg		109	75 - 125	9	20
Nickel	21	F1 F2	40.3	70.4	F2	mg/Kg		123	75 - 125	25	20
Selenium	0.83	J	40.3	44.1		mg/Kg		107	75 - 125	9	20
Silver	0.63	J F1	20.2	24.6		mg/Kg		119	75 - 125	8	20
Thallium	ND		40.3	43.4		mg/Kg		108	75 - 125	9	20
Vanadium	26	F1	40.3	76.7	F1	mg/Kg		126	75 - 125	15	20
Zinc	240		40.3	388	4	mg/Kg		377	75 - 125	19	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257536/1-A
Matrix: Solid
Analysis Batch: 258133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/07/19 20:35	01/08/19 09:53	1

Lab Sample ID: LCS 720-257536/2-A
Matrix: Solid
Analysis Batch: 258133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.819		mg/Kg		98	80 - 120

Lab Sample ID: 720-90480-14 MS
Matrix: Solid
Analysis Batch: 258133

Client Sample ID: DG-U9S-0.5-1
Prep Type: Total/NA
Prep Batch: 257536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.24		0.758	0.952		mg/Kg		94	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90480-14 MSD
Matrix: Solid
Analysis Batch: 258133

Client Sample ID: DG-U9S-0.5-1
Prep Type: Total/NA
Prep Batch: 257536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.24		0.781	1.06		mg/Kg		105	75 - 125	11	20

Lab Sample ID: MB 720-257544/1-A
Matrix: Solid
Analysis Batch: 258124

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/07/19 20:35	01/08/19 08:31	1

Lab Sample ID: LCS 720-257544/2-A
Matrix: Solid
Analysis Batch: 258124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.840		mg/Kg		101	80 - 120

Lab Sample ID: 720-90480-17 MS
Matrix: Solid
Analysis Batch: 258124

Client Sample ID: DG-S9S-0.5-1
Prep Type: Total/NA
Prep Batch: 257544

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.064		0.794	0.886		mg/Kg		104	75 - 125

Lab Sample ID: 720-90480-17 MSD
Matrix: Solid
Analysis Batch: 258124

Client Sample ID: DG-S9S-0.5-1
Prep Type: Total/NA
Prep Batch: 257544

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.064		0.806	0.907		mg/Kg		105	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90479-F-17 DU
Matrix: Solid
Analysis Batch: 257548

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.5		11.1		%		4	20

Lab Sample ID: 720-90480-14 DU
Matrix: Solid
Analysis Batch: 257551

Client Sample ID: DG-U9S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.2		9.8		%		4	20

Metals

Prep Batch: 257536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-1	DG-AV7S-0.5-1	Total/NA	Solid	7471A	
720-90480-2	DG-AV7S-3.5-4	Total/NA	Solid	7471A	
720-90480-3	DG-AV7S-7.5-8	Total/NA	Solid	7471A	
720-90480-4	DG-AS9S-0.5-1	Total/NA	Solid	7471A	
720-90480-5	DG-AS9S-3.5-4	Total/NA	Solid	7471A	
720-90480-6	DG-AC9S-0.5-1	Total/NA	Solid	7471A	
720-90480-7	DG-AC9S-3.5-4	Total/NA	Solid	7471A	
720-90480-8	DG-AA9S-0.5-1	Total/NA	Solid	7471A	
720-90480-9	DG-Y9S-0.5-1	Total/NA	Solid	7471A	
720-90480-10	DG-Y9S-3.5-4	Total/NA	Solid	7471A	
720-90480-11	DG-W9S-0.5-1	Total/NA	Solid	7471A	
720-90480-12	DG-W9S-3.5-4	Total/NA	Solid	7471A	
720-90480-14	DG-U9S-0.5-1	Total/NA	Solid	7471A	
MB 720-257536/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257536/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90480-14 MS	DG-U9S-0.5-1	Total/NA	Solid	7471A	
720-90480-14 MSD	DG-U9S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-1	DG-AV7S-0.5-1	Total/NA	Solid	3050B	
720-90480-2	DG-AV7S-3.5-4	Total/NA	Solid	3050B	
720-90480-3	DG-AV7S-7.5-8	Total/NA	Solid	3050B	
720-90480-4	DG-AS9S-0.5-1	Total/NA	Solid	3050B	
720-90480-5	DG-AS9S-3.5-4	Total/NA	Solid	3050B	
720-90480-6	DG-AC9S-0.5-1	Total/NA	Solid	3050B	
720-90480-7	DG-AC9S-3.5-4	Total/NA	Solid	3050B	
720-90480-8	DG-AA9S-0.5-1	Total/NA	Solid	3050B	
720-90480-9	DG-Y9S-0.5-1	Total/NA	Solid	3050B	
720-90480-10	DG-Y9S-3.5-4	Total/NA	Solid	3050B	
720-90480-11	DG-W9S-0.5-1	Total/NA	Solid	3050B	
720-90480-12	DG-W9S-3.5-4	Total/NA	Solid	3050B	
720-90480-13	DG-W9S-8.5-9	Total/NA	Solid	3050B	
720-90480-14	DG-U9S-0.5-1	Total/NA	Solid	3050B	
720-90480-15	DG-U9S-3.5-4	Total/NA	Solid	3050B	
MB 720-257538/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257538/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90480-14 MS	DG-U9S-0.5-1	Total/NA	Solid	3050B	
720-90480-14 MSD	DG-U9S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 257544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-13	DG-W9S-8.5-9	Total/NA	Solid	7471A	
720-90480-15	DG-U9S-3.5-4	Total/NA	Solid	7471A	
720-90480-16	DUP-62	Total/NA	Solid	7471A	
720-90480-17	DG-S9S-0.5-1	Total/NA	Solid	7471A	
720-90480-18	DG-S9S-3.5-4	Total/NA	Solid	7471A	
720-90480-19	DG-O9S-0.5-1	Total/NA	Solid	7471A	
720-90480-20	DG-O9S-3.5-4	Total/NA	Solid	7471A	
720-90480-21	DG-N11S-3.5-4	Total/NA	Solid	7471A	
720-90480-22	DG-R11S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257544 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-23	DG-R11S-3.5-4	Total/NA	Solid	7471A	
720-90480-24	DG-R11S-7.5-8	Total/NA	Solid	7471A	
720-90480-25	DG-Q9S-0.5-1	Total/NA	Solid	7471A	
720-90480-26	DG-Q9S-3.5-4	Total/NA	Solid	7471A	
720-90480-27	DG-P11S-0.5-1	Total/NA	Solid	7471A	
720-90480-28	DG-N11S-0.5-1	Total/NA	Solid	7471A	
MB 720-257544/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257544/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90480-17 MS	DG-S9S-0.5-1	Total/NA	Solid	7471A	
720-90480-17 MSD	DG-S9S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-16	DUP-62	Total/NA	Solid	3050B	
720-90480-17	DG-S9S-0.5-1	Total/NA	Solid	3050B	
720-90480-18	DG-S9S-3.5-4	Total/NA	Solid	3050B	
720-90480-19	DG-O9S-0.5-1	Total/NA	Solid	3050B	
720-90480-20	DG-O9S-3.5-4	Total/NA	Solid	3050B	
720-90480-21	DG-N11S-3.5-4	Total/NA	Solid	3050B	
720-90480-22	DG-R11S-0.5-1	Total/NA	Solid	3050B	
720-90480-23	DG-R11S-3.5-4	Total/NA	Solid	3050B	
720-90480-24	DG-R11S-7.5-8	Total/NA	Solid	3050B	
720-90480-25	DG-Q9S-0.5-1	Total/NA	Solid	3050B	
720-90480-26	DG-Q9S-3.5-4	Total/NA	Solid	3050B	
720-90480-27	DG-P11S-0.5-1	Total/NA	Solid	3050B	
720-90480-28	DG-N11S-0.5-1	Total/NA	Solid	3050B	
MB 720-257547/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257547/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90481-A-17-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90481-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 258031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-16	DUP-62	Total/NA	Solid	6010B	257547
720-90480-17	DG-S9S-0.5-1	Total/NA	Solid	6010B	257547
720-90480-18	DG-S9S-3.5-4	Total/NA	Solid	6010B	257547
720-90480-19	DG-O9S-0.5-1	Total/NA	Solid	6010B	257547
720-90480-20	DG-O9S-3.5-4	Total/NA	Solid	6010B	257547
720-90480-21	DG-N11S-3.5-4	Total/NA	Solid	6010B	257547
720-90480-22	DG-R11S-0.5-1	Total/NA	Solid	6010B	257547
720-90480-23	DG-R11S-3.5-4	Total/NA	Solid	6010B	257547
720-90480-24	DG-R11S-7.5-8	Total/NA	Solid	6010B	257547
720-90480-25	DG-Q9S-0.5-1	Total/NA	Solid	6010B	257547
720-90480-27	DG-P11S-0.5-1	Total/NA	Solid	6010B	257547
720-90480-28	DG-N11S-0.5-1	Total/NA	Solid	6010B	257547
720-90481-A-17-A MS	Matrix Spike	Total/NA	Solid	6010B	257547
720-90481-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257547

Analysis Batch: 258036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-1	DG-AV7S-0.5-1	Total/NA	Solid	6010B	257538

Metals (Continued)

Analysis Batch: 258036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-2	DG-AV7S-3.5-4	Total/NA	Solid	6010B	257538
720-90480-3	DG-AV7S-7.5-8	Total/NA	Solid	6010B	257538
720-90480-4	DG-AS9S-0.5-1	Total/NA	Solid	6010B	257538
720-90480-5	DG-AS9S-3.5-4	Total/NA	Solid	6010B	257538
720-90480-6	DG-AC9S-0.5-1	Total/NA	Solid	6010B	257538
720-90480-7	DG-AC9S-3.5-4	Total/NA	Solid	6010B	257538
720-90480-9	DG-Y9S-0.5-1	Total/NA	Solid	6010B	257538
720-90480-11	DG-W9S-0.5-1	Total/NA	Solid	6010B	257538
720-90480-13	DG-W9S-8.5-9	Total/NA	Solid	6010B	257538
720-90480-14	DG-U9S-0.5-1	Total/NA	Solid	6010B	257538
720-90480-15	DG-U9S-3.5-4	Total/NA	Solid	6010B	257538
MB 720-257538/1-A	Method Blank	Total/NA	Solid	6010B	257538
LCS 720-257538/2-A	Lab Control Sample	Total/NA	Solid	6010B	257538
720-90480-14 MS	DG-U9S-0.5-1	Total/NA	Solid	6010B	257538
720-90480-14 MSD	DG-U9S-0.5-1	Total/NA	Solid	6010B	257538

Analysis Batch: 258071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-26	DG-Q9S-3.5-4	Total/NA	Solid	6010B	257547
MB 720-257547/1-A	Method Blank	Total/NA	Solid	6010B	257547
LCS 720-257547/2-A	Lab Control Sample	Total/NA	Solid	6010B	257547

Analysis Batch: 258082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-8	DG-AA9S-0.5-1	Total/NA	Solid	6010B	257538
720-90480-10	DG-Y9S-3.5-4	Total/NA	Solid	6010B	257538
720-90480-12	DG-W9S-3.5-4	Total/NA	Solid	6010B	257538

Analysis Batch: 258124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-13	DG-W9S-8.5-9	Total/NA	Solid	7471A	257544
720-90480-15	DG-U9S-3.5-4	Total/NA	Solid	7471A	257544
720-90480-16	DUP-62	Total/NA	Solid	7471A	257544
720-90480-17	DG-S9S-0.5-1	Total/NA	Solid	7471A	257544
720-90480-18	DG-S9S-3.5-4	Total/NA	Solid	7471A	257544
720-90480-19	DG-O9S-0.5-1	Total/NA	Solid	7471A	257544
720-90480-20	DG-O9S-3.5-4	Total/NA	Solid	7471A	257544
720-90480-21	DG-N11S-3.5-4	Total/NA	Solid	7471A	257544
720-90480-22	DG-R11S-0.5-1	Total/NA	Solid	7471A	257544
720-90480-23	DG-R11S-3.5-4	Total/NA	Solid	7471A	257544
720-90480-24	DG-R11S-7.5-8	Total/NA	Solid	7471A	257544
720-90480-25	DG-Q9S-0.5-1	Total/NA	Solid	7471A	257544
720-90480-26	DG-Q9S-3.5-4	Total/NA	Solid	7471A	257544
720-90480-27	DG-P11S-0.5-1	Total/NA	Solid	7471A	257544
720-90480-28	DG-N11S-0.5-1	Total/NA	Solid	7471A	257544
MB 720-257544/1-A	Method Blank	Total/NA	Solid	7471A	257544
LCS 720-257544/2-A	Lab Control Sample	Total/NA	Solid	7471A	257544
720-90480-17 MS	DG-S9S-0.5-1	Total/NA	Solid	7471A	257544
720-90480-17 MSD	DG-S9S-0.5-1	Total/NA	Solid	7471A	257544

Metals (Continued)

Analysis Batch: 258133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-1	DG-AV7S-0.5-1	Total/NA	Solid	7471A	257536
720-90480-2	DG-AV7S-3.5-4	Total/NA	Solid	7471A	257536
720-90480-3	DG-AV7S-7.5-8	Total/NA	Solid	7471A	257536
720-90480-4	DG-AS9S-0.5-1	Total/NA	Solid	7471A	257536
720-90480-5	DG-AS9S-3.5-4	Total/NA	Solid	7471A	257536
720-90480-6	DG-AC9S-0.5-1	Total/NA	Solid	7471A	257536
720-90480-7	DG-AC9S-3.5-4	Total/NA	Solid	7471A	257536
720-90480-8	DG-AA9S-0.5-1	Total/NA	Solid	7471A	257536
720-90480-9	DG-Y9S-0.5-1	Total/NA	Solid	7471A	257536
720-90480-10	DG-Y9S-3.5-4	Total/NA	Solid	7471A	257536
720-90480-11	DG-W9S-0.5-1	Total/NA	Solid	7471A	257536
720-90480-12	DG-W9S-3.5-4	Total/NA	Solid	7471A	257536
720-90480-14	DG-U9S-0.5-1	Total/NA	Solid	7471A	257536
MB 720-257536/1-A	Method Blank	Total/NA	Solid	7471A	257536
LCS 720-257536/2-A	Lab Control Sample	Total/NA	Solid	7471A	257536
720-90480-14 MS	DG-U9S-0.5-1	Total/NA	Solid	7471A	257536
720-90480-14 MSD	DG-U9S-0.5-1	Total/NA	Solid	7471A	257536

General Chemistry

Analysis Batch: 257548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-1	DG-AV7S-0.5-1	Total/NA	Solid	Moisture	
720-90480-2	DG-AV7S-3.5-4	Total/NA	Solid	Moisture	
720-90480-3	DG-AV7S-7.5-8	Total/NA	Solid	Moisture	
720-90480-4	DG-AS9S-0.5-1	Total/NA	Solid	Moisture	
720-90480-5	DG-AS9S-3.5-4	Total/NA	Solid	Moisture	
720-90480-6	DG-AC9S-0.5-1	Total/NA	Solid	Moisture	
720-90480-7	DG-AC9S-3.5-4	Total/NA	Solid	Moisture	
720-90480-8	DG-AA9S-0.5-1	Total/NA	Solid	Moisture	
720-90480-9	DG-Y9S-0.5-1	Total/NA	Solid	Moisture	
720-90480-10	DG-Y9S-3.5-4	Total/NA	Solid	Moisture	
720-90480-11	DG-W9S-0.5-1	Total/NA	Solid	Moisture	
720-90480-12	DG-W9S-3.5-4	Total/NA	Solid	Moisture	
720-90479-F-17 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-13	DG-W9S-8.5-9	Total/NA	Solid	Moisture	
720-90480-14	DG-U9S-0.5-1	Total/NA	Solid	Moisture	
720-90480-15	DG-U9S-3.5-4	Total/NA	Solid	Moisture	
720-90480-16	DUP-62	Total/NA	Solid	Moisture	
720-90480-17	DG-S9S-0.5-1	Total/NA	Solid	Moisture	
720-90480-18	DG-S9S-3.5-4	Total/NA	Solid	Moisture	
720-90480-19	DG-O9S-0.5-1	Total/NA	Solid	Moisture	
720-90480-20	DG-O9S-3.5-4	Total/NA	Solid	Moisture	
720-90480-21	DG-N11S-3.5-4	Total/NA	Solid	Moisture	
720-90480-22	DG-R11S-0.5-1	Total/NA	Solid	Moisture	
720-90480-23	DG-R11S-3.5-4	Total/NA	Solid	Moisture	
720-90480-24	DG-R11S-7.5-8	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90480-25	DG-Q9S-0.5-1	Total/NA	Solid	Moisture	
720-90480-26	DG-Q9S-3.5-4	Total/NA	Solid	Moisture	
720-90480-27	DG-P11S-0.5-1	Total/NA	Solid	Moisture	
720-90480-28	DG-N11S-0.5-1	Total/NA	Solid	Moisture	
720-90480-14 DU	DG-U9S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-AV7S-0.5-1

Lab Sample ID: 720-90480-1

Date Collected: 12/20/18 08:00

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 20:05	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AV7S-3.5-4

Lab Sample ID: 720-90480-2

Date Collected: 12/20/18 08:00

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258036	01/04/19 20:10	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		4	258133	01/08/19 10:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AV7S-7.5-8

Lab Sample ID: 720-90480-3

Date Collected: 12/20/18 08:00

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258036	01/04/19 20:15	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AS9S-0.5-1

Lab Sample ID: 720-90480-4

Date Collected: 12/20/18 08:50

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 20:20	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AS9S-3.5-4

Lab Sample ID: 720-90480-5

Date Collected: 12/20/18 08:50

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 20:25	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AC9S-0.5-1

Lab Sample ID: 720-90480-6

Date Collected: 12/20/18 09:40

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 20:29	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AC9S-3.5-4

Lab Sample ID: 720-90480-7

Date Collected: 12/20/18 09:40

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258036	01/04/19 20:34	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-AA9S-0.5-1

Lab Sample ID: 720-90480-8

Date Collected: 12/20/18 09:50

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		20	258082	01/07/19 15:26	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-Y9S-0.5-1

Date Collected: 12/20/18 10:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 20:53	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-Y9S-3.5-4

Date Collected: 12/20/18 10:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		20	258082	01/07/19 15:30	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-W9S-0.5-1

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 21:03	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Client Sample ID: DG-W9S-3.5-4

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		20	258082	01/07/19 15:35	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257548	12/24/18 13:46	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-W9S-8.5-9

Lab Sample ID: 720-90480-13
Matrix: Solid
Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258036	01/04/19 21:12	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-U9S-0.5-1

Lab Sample ID: 720-90480-14
Matrix: Solid
Date Collected: 12/20/18 10:45
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258036	01/04/19 19:27	BKR	TAL PLS
Total/NA	Prep	7471A			257536	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258133	01/08/19 10:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-U9S-3.5-4

Lab Sample ID: 720-90480-15
Matrix: Solid
Date Collected: 12/20/18 10:45
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257538	12/24/18 11:28	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258036	01/04/19 21:17	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DUP-62

Lab Sample ID: 720-90480-16
Matrix: Solid
Date Collected: 12/20/18 10:45
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 18:21	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 08:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-S9S-0.5-1

Date Collected: 12/20/18 11:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 18:26	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 08:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-S9S-3.5-4

Date Collected: 12/20/18 11:20
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 18:40	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 08:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-O9S-0.5-1

Date Collected: 12/20/18 14:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 18:44	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 08:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-O9S-3.5-4

Date Collected: 12/20/18 14:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 18:49	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 08:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-N11S-3.5-4

Lab Sample ID: 720-90480-21

Date Collected: 12/20/18 14:45
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		10	258031	01/04/19 18:53	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 08:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-R11S-0.5-1

Lab Sample ID: 720-90480-22

Date Collected: 12/20/18 15:15
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 18:58	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 08:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-R11S-3.5-4

Lab Sample ID: 720-90480-23

Date Collected: 12/20/18 15:15
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 19:02	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-R11S-7.5-8

Lab Sample ID: 720-90480-24

Date Collected: 12/20/18 15:15
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 19:07	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Client Sample ID: DG-Q9S-0.5-1

Date Collected: 12/20/18 11:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 19:12	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-Q9S-3.5-4

Date Collected: 12/20/18 11:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258071	01/07/19 12:45	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		10	258124	01/08/19 09:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-P11S-0.5-1

Date Collected: 12/20/18 15:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 19:21	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Client Sample ID: DG-N11S-0.5-1

Date Collected: 12/20/18 14:45
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90480-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		10	258031	01/04/19 19:35	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257551	12/24/18 14:26	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90480-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90480-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90480-1	DG-AV7S-0.5-1	Solid	12/20/18 08:00	12/20/18 19:10
720-90480-2	DG-AV7S-3.5-4	Solid	12/20/18 08:00	12/20/18 19:10
720-90480-3	DG-AV7S-7.5-8	Solid	12/20/18 08:00	12/20/18 19:10
720-90480-4	DG-AS9S-0.5-1	Solid	12/20/18 08:50	12/20/18 19:10
720-90480-5	DG-AS9S-3.5-4	Solid	12/20/18 08:50	12/20/18 19:10
720-90480-6	DG-AC9S-0.5-1	Solid	12/20/18 09:40	12/20/18 19:10
720-90480-7	DG-AC9S-3.5-4	Solid	12/20/18 09:40	12/20/18 19:10
720-90480-8	DG-AA9S-0.5-1	Solid	12/20/18 09:50	12/20/18 19:10
720-90480-9	DG-Y9S-0.5-1	Solid	12/20/18 10:00	12/20/18 19:10
720-90480-10	DG-Y9S-3.5-4	Solid	12/20/18 10:00	12/20/18 19:10
720-90480-11	DG-W9S-0.5-1	Solid	12/20/18 10:15	12/20/18 19:10
720-90480-12	DG-W9S-3.5-4	Solid	12/20/18 10:15	12/20/18 19:10
720-90480-13	DG-W9S-8.5-9	Solid	12/20/18 10:15	12/20/18 19:10
720-90480-14	DG-U9S-0.5-1	Solid	12/20/18 10:45	12/20/18 19:10
720-90480-15	DG-U9S-3.5-4	Solid	12/20/18 10:45	12/20/18 19:10
720-90480-16	DUP-62	Solid	12/20/18 10:45	12/20/18 19:10
720-90480-17	DG-S9S-0.5-1	Solid	12/20/18 11:20	12/20/18 19:10
720-90480-18	DG-S9S-3.5-4	Solid	12/20/18 11:20	12/20/18 19:10
720-90480-19	DG-O9S-0.5-1	Solid	12/20/18 14:40	12/20/18 19:10
720-90480-20	DG-O9S-3.5-4	Solid	12/20/18 14:40	12/20/18 19:10
720-90480-21	DG-N11S-3.5-4	Solid	12/20/18 14:45	12/20/18 19:10
720-90480-22	DG-R11S-0.5-1	Solid	12/20/18 15:15	12/20/18 19:10
720-90480-23	DG-R11S-3.5-4	Solid	12/20/18 15:15	12/20/18 19:10
720-90480-24	DG-R11S-7.5-8	Solid	12/20/18 15:15	12/20/18 19:10
720-90480-25	DG-Q9S-0.5-1	Solid	12/20/18 11:40	12/20/18 19:10
720-90480-26	DG-Q9S-3.5-4	Solid	12/20/18 11:40	12/20/18 19:10
720-90480-27	DG-P11S-0.5-1	Solid	12/20/18 15:00	12/20/18 19:10
720-90480-28	DG-N11S-0.5-1	Solid	12/20/18 14:45	12/20/18 19:10

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600 3002

720-90480

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/18	COC No 187583
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90480 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1 DG-AV7S-0.5-1	12/20/18	0800	G	S	1	N		X	
2 DG-AV7S-3.5-4		0805							
3 DG-AV7S-7.5-8		0810							
4 DG-AS9S-0.5-1		0850							
5 DG-AS9S-3.5-4		0855							
6 DG-AC9S-0.5-1		0940							
7 DG-AC9S-3.5-4		0945							
8 DG-AA9S-0.5-1		0950							
12 ~~DG-AA9S-3.5-4~~									
9 DG-WG[illegible]9S-0.5-1		1000							
10 DG-Y9S-3.5-4		1005							
11 DG-W9S-0.5-1		1015							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.4, 1.0, 0.5, 3.5 °C
0.8, 1.3, 2.0, 1.1

Page 8 of 10

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No..	Cooler Temp. (°C) Obs'd. ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company Geosyntec	Date/Time 12/20/18 1600	Received by	Company TAPLC	Date/Time 12/20/18 1600
Relinquished by	Company TAPLS	Date/Time 12/20/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/9/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90480

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/18	COC No 720-87527
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
12 DG-WQS-3.5-4 (MD)	12/20/18	1015	G	S	1	N		X	
13 DG-WQS-8.5-9		1015							
14 DG-WQS-0.5-1		1045					X		
15 DG-WQS-3.5-4		1045							
16 DUP-02		1045							
17 DG-SQS-0.5-1		1130							
18 DG-SQS-3.5-4		1130							
~~19 DG-SQS-4.5-5~~		~~1130~~							
~~DG-SQS-7~~		~~1130~~							
19 DG-CQS-0.5-1		1446							
20 DG-CQS-3.5-4		1446							
(MD) ~~DG-NQS-0.5-1~~									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by:	Company: Geosyntec	Date/Time: 12/20/18 1600	Received by:	Company: TA-PLS	Date/Time: 12/20/18 1600
Relinquished by:	Company: TA-PLS	Date/Time: 12/20/18 1940	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/9/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720 -90480

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/18	COC No. 3 of 3 COCs 18758
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	Sampler:
1111 Broadway 6th Floor	Analysis Turnaround Time			For Lab Use Only:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			Lab Sampling.
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Job / SDG No.
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
21. DG-N11S-3.5-4	12/20/18	~~1500~~ 1445	G	S	1	N		X	
22. DG-R11S-0.5-1	↓	1515	↓	↓	↓	↓	↓	↓	
23. DG-R11S-3.5-4	↓	1515	↓	↓	↓	↓	↓	↓	
24. DG-R11S-7.5-8	↓	1515	↓	↓	↓	↓	↓	↓	
25. DG-Q9S-0.5-1	↓	1140	↓	↓	↓	↓	↓	↓	
26. DG-Q9S-3.5-4	↓	1140	↓	↓	↓	↓	↓	↓	
27. DG-P11S-0.5-1	↓	1500	↓	↓	↓	↓	↓	↓	
28. DG-N11S-0.5-1	↓	1445	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company: Geosyntec	Date/Time: 12/20/18 1600	Received by	Company: TA PLS	Date/Time: 12/20/18 1600
Relinquished by	Company: TA PLS	Date/Time: 12/20/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/9/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90480

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/18	COC No 187583
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90480 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes.
1 DG-AV7S-0.5-1	12/20/18	0800	G	S	1	N		X	
2 DG-AV7S-3.5-4		0810							
3 DG-AV7S-7.5-8		0820							
4 DG-AS9S-0.5-1		0850							
5 DG-AS9S-3.5-4		0900							
6 DG-AC9S-0.5-1		0940							
7 DG-AC9S-3.5-4		0940							
8 DG-AA9S-0.5-1		0950							
~~9 DG-AA9S-3.5-4~~									
9 DG-W9S-0.5-1		1000							
10 DG-Y9S-3.5-4		1000							
11 DG-W9S-0.5-1		1015							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
1.4, 1.0, 0.5, 3.5 °C
0.8, 1.3, 2.0, 1.1

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C): Obs'd ____ Corr'd ____ Therm ID No ____			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Geosyntec	Geosyntec	12/20/18 1600		TALA	12/20/18 1600
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
TALA	TALA	12/20/18 1910			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/9/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

720-90480

Chain of Custody Record

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/18	COC No 2 of 2 COCs
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
12 DG-WGS-3.5-4 (MD)	12/20/18	1015	G	S	1	N		X	
13 DG-WGS-8.5-9		1015							
14 DG-LGS-0.5-1		1045					X		
15 DG-LGS-3.5-4		1045							
16 DUP-6.2		1045							
17 DG-SGS-0.5-1		1130							
18 DG-SGS-3.5-4		1130							
~~DG-SGS-4.5-5~~		1130							
(MD) ~~DG-SGS-7~~		1340							
19 DG-CGS-0.5-1		1446							
20 DG-CGS-3.5-4		1446							
(MD) ~~DG-NGS-0.5-1~~									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Geosyntec	Geosyntec	12/20/18 1600		TAPLS	12/20/18 1600
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	TAPLS	12/20/18 1940			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	12/20/18 1910

Form No. CA-CWI-002, Rev. 4.18, dated 9/5/2018

1/9/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720 -90480

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/18	COC No 3 of 3 COCs 187589
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
21. DG-N1S-3.5-4	12/20/18	1500 1445	G	S	1	N		X	
22. DG-R1S-0.5-1		1515							
23. DG-R1S-3.5-4		1515							
24. DG-R1S-7.5-8		1515							
25. DG-Q9S-0.5-1		1140							
26. DG-Q9S-3.5-4		1140							
27. DG-P1S-0.5-1		1500							
28. DG-N1S-0.5-1		1445							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd. _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company: Geosyntec	Date/Time: 12/20/18 16:00	Received by	Company: TA PLS	Date/Time: 12/20/18 16:00
Relinquished by	Company: TA PLS	Date/Time: 12/20/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/9/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90480-1

Login Number: 90480
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90481-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 2

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/26/2019 8:06:35 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90481-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90481-1

Comments
See client email in correspondences for discrepancies.
Revision created to fix QC for batch 258081.
Revision created to fix QC linking issues to match up final report with EDD.

Receipt
The samples were received on 12/20/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.5º C, 0.8º C, 1.0º C, 1.1º C, 1.3º C, 1.4º C, 2.0º C and 3.5º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. The Analyses is only marked off on the COC for first sample of all 4 pages, the arrow was not run down the column for all samples. Logged all 37 samples for CAM 17 Metals.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257547 and analytical batch 720-258031 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-258031 were outside of control limits. Cobalt-130%, Chromium-141%, Copper-151%, Molybdenum-128%, Nickel-131%, Lead-149%, Antimony-129%, Selenium-128%, Thallium-130%, Vanadium-140%, Zinc-193%, Silver-137%, Arsenic-129%, Barium-198%, Beryllium-135% and Cadmium-128%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258031 was outside control limits for Barium-26%, Cobalt-46%, Chromium-21%, Nickel-22%, Lead-22%, Vanadium-21% and Zinc-20% (720-90481-A-17-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-W6S-0.5-1 (720-90481-1), DG-W6S-3.5-4 (720-90481-2), DG-X6S-0.5-1 (720-90481-3), DG-X6S-3.5-4 (720-90481-4), DG-Y6S-0.5-1 (720-90481-5), DG-AB6S-0.5-1 (720-90481-12), DG-AD6S-3.5-4 (720-90481-17), DG-AD6S-3.5-4 (720-90481-17[MS]), DG-AD6S-3.5-4 (720-90481-17[MSD]), (720-90481-A-17-C PDS), (720-90481-A-17-C SD), DUP-39 (720-90481-20), DG-AF6S-0.5-1 (720-90481-21), DG-AG6S-0.5-1 (720-90481-23), DG-AI6S-0.5-1 (720-90481-27), DG-AI6S-3.5-4 (720-90481-28), DG-AJ6S-0.5-1 (720-90481-29), DG-AJ6S-3.5-4 (720-90481-30), DG-AK6S-0.5-1 (720-90481-31), DG-AK6S-3.5-4 (720-90481-32), DG-AL6S-0.5-1 (720-90481-33), DG-AL6S-3.5-4 (720-90481-34), DUP-40 (720-90481-35), DG-AM6S-0.5-1 (720-90481-36), DG-AM6S-3.5-4 (720-90481-37), (720-90507-A-18-C), (720-90507-A-18-A MS), (720-90507-A-18-B MSD), (720-90507-A-18-C PDS) and (720-90507-A-18-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-257547 and analytical batch 720-258071 contained Barium, Cadmium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258085 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The method blank for preparation batch 720-257579 and analytical batch 720-258117 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257579 and analytical batch 720-258117 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 720-90481-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-258117 were outside of control limits. Ba-254%, Be-128%, Cr-127%, Cu-146%, Pb-137%, Tl-131%, V-128%, Zn-139%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258117 was outside control limits for Ba-16%, Cd-22%, Co-21%, Cr-19%, Cu-22%, Ni-17%, Pb-18%, V-18%, and Zn-17%: (720-90507-A-18-C SD)

Method 6010B: The method blank for preparation batch 720-257552 and analytical batch 720-258081 contained Arsenic, Cadmium, Cobalt, Chromium and Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257552 and analytical batch 720-258081 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-258081 was outside control limits for Barium-45%, Cobalt-36%, Chromium-45%, Copper-41%, Nickel-35%, Lead-45%, Vanadium-40% and Zinc-33%: (720-90481-A-23-D SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258081 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Client Sample ID: DG-W6S-0.5-1 — Lab Sample ID: 720-90481-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	9.2		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	59	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Cadmium	0.53	B	0.26	0.025	mg/Kg	4		6010B	Total/NA
Chromium	16		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	4.8		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	74		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	83	B	1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.47	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	13		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	0.66	J	2.0	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	110		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W6S-3.5-4 — Lab Sample ID: 720-90481-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	32		3.6	0.61	mg/Kg	10		6010B	Total/NA
Arsenic	18		7.3	0.62	mg/Kg	10		6010B	Total/NA
Barium	910	B	3.6	0.52	mg/Kg	10		6010B	Total/NA
Beryllium	0.43	J	0.73	0.24	mg/Kg	10		6010B	Total/NA
Cadmium	1.5	B	0.91	0.091	mg/Kg	10		6010B	Total/NA
Chromium	27		3.6	0.39	mg/Kg	10		6010B	Total/NA
Cobalt	6.7		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	770		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	4000	B	3.6	0.77	mg/Kg	10		6010B	Total/NA
Molybdenum	0.52	J	3.6	0.47	mg/Kg	10		6010B	Total/NA
Nickel	24		3.6	0.37	mg/Kg	10		6010B	Total/NA
Selenium	1.4	J	7.3	1.1	mg/Kg	10		6010B	Total/NA
Silver	4.1		1.8	0.37	mg/Kg	10		6010B	Total/NA
Vanadium	19		3.6	0.50	mg/Kg	10		6010B	Total/NA
Zinc	1300		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	1.4		0.031	0.0046	mg/Kg	2		7471A	Total/NA

Client Sample ID: DG-X6S-0.5-1 — Lab Sample ID: 720-90481-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	6.3		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	81	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.96	B	0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	26		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	150		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	130	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.86	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	32		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	230		5.0	2.1	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X6S-0.5-1 (Continued) — Lab Sample ID: 720-90481-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.19		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X6S-3.5-4 — Lab Sample ID: 720-90481-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	13		2.6	0.43	mg/Kg	10		6010B	Total/NA
Arsenic	19		5.2	0.44	mg/Kg	10		6010B	Total/NA
Barium	890	B	1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.37		0.21	0.068	mg/Kg	4		6010B	Total/NA
Cadmium	9.0	B	0.65	0.065	mg/Kg	10		6010B	Total/NA
Chromium	69		2.6	0.28	mg/Kg	10		6010B	Total/NA
Cobalt	9.4		1.0	0.10	mg/Kg	10		6010B	Total/NA
Copper	360		7.8	3.7	mg/Kg	10		6010B	Total/NA
Lead	1800	B ^	2.6	0.55	mg/Kg	10		6010B	Total/NA
Molybdenum	0.67	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	160		2.6	0.27	mg/Kg	10		6010B	Total/NA
Selenium	0.98	J	5.2	0.78	mg/Kg	10		6010B	Total/NA
Silver	3.6		1.3	0.26	mg/Kg	10		6010B	Total/NA
Vanadium	19		2.6	0.35	mg/Kg	10		6010B	Total/NA
Zinc	2400		7.8	3.3	mg/Kg	10		6010B	Total/NA
Mercury	0.68		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y6S-0.5-1 — Lab Sample ID: 720-90481-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	8.3		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	150	B	1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.58	B	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	18		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	81		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	500	B	1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.8		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	38		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.69	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Silver	0.64	J	0.87	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	150		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y6S-3.5-4 — Lab Sample ID: 720-90481-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	31		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	2500		1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	1.2		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	3.7		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	140		1.7	0.18	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y6S-3.5-4 (Continued) — Lab Sample ID: 720-90481-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	9.5		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	660		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	6400	^	1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.7		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	83		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Silver	5.0		0.87	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	2500		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.26		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z6S-0.5-1 — Lab Sample ID: 720-90481-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	9.5		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	82		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.63		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	26		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	110		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	190	^	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	29		1.4	0.14	mg/Kg	4		6010B	Total/NA
Thallium	0.82	J	1.4	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	160		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z6S-3.5-4 — Lab Sample ID: 720-90481-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	33		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	1300		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.72		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	4.3		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	39		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	6.7		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	640		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	5800	^	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.66	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	100		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	4.2		0.90	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	3900		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.37		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-38 — Lab Sample ID: 720-90481-9

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-38 (Continued) — Lab Sample ID: 720-90481-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	94		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.73		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	25		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	120		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	130	^	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.69	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	32		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	71		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	170		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.095		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA6S-0.5-1 — Lab Sample ID: 720-90481-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	2.2	J	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	53		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	10		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	110		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	31	^	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.29	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	7.2		1.4	0.14	mg/Kg	4		6010B	Total/NA
Thallium	1.6		1.4	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	78		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.061		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA6S-3.5-4 — Lab Sample ID: 720-90481-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.5		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	4.8		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	410		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.27	0.088	mg/Kg	4		6010B	Total/NA
Cadmium	2.4		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	17		1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	1.5		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	310		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	1100	^	1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	8.2		1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	3.2		0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	6.6		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	1800		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Client Sample ID: DG-AB6S-0.5-1 — Lab Sample ID: 720-90481-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.51	J	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	1.4	J	2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	28		1.1	0.16	mg/Kg	4		6010B	Total/NA
Chromium	16		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	130		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	5.2		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	11		1.1	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.86	J	1.1	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	96		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	55		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.038		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB6S-3.5-4 — Lab Sample ID: 720-90481-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.7		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	8.2		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	360		1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.20	0.066	mg/Kg	4		6010B	Total/NA
Cadmium	0.80		0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	14		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	2.8		0.40	0.040	mg/Kg	4		6010B	Total/NA
Copper	590		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	1100	^	1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.73	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	12		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	0.44	J	2.0	0.30	mg/Kg	4		6010B	Total/NA
Silver	1.7		0.51	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	8.6		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	670		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.34		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC6S-0.5-1 — Lab Sample ID: 720-90481-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.97	J	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	7.1		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	91		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.56		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	23		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	120		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	88	^	1.2	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.64	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	23		1.2	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.41	J	1.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	180		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.084		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Client Sample ID: DG-AC6S-3.5-4 — Lab Sample ID: 720-90481-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	4.4		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	190		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.25	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.33		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	25		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	6.8		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	100		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	370	^	1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	26		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.41	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	280		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.093		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD6S-0.5-1 — Lab Sample ID: 720-90481-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	3.0	J	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	75		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.92		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	24		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	280		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	140	^	1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	17		1.8	0.18	mg/Kg	4		6010B	Total/NA
Thallium	1.2	J	1.8	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	82		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	190		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD6S-3.5-4 — Lab Sample ID: 720-90481-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.3	F1 F2	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	10	F1 F2	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	210	B F2	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J F1	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.86	B	0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	19	F1	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	4.7	F1	0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	63	F1 F2	4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	250	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	21	F1 F2	1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.83	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Silver	0.63	J F1	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	26	F1	1.6	0.22	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD6S-3.5-4 (Continued) — Lab Sample ID: 720-90481-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	240		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.098		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE6S-0.5-1 — Lab Sample ID: 720-90481-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.6		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	4.3		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	92		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	1.4		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	33		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	220		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	180	^	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	3.3		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	32		1.6	0.16	mg/Kg	4		6010B	Total/NA
Thallium	0.70	J	1.6	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	290		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE6S-3.5-4 — Lab Sample ID: 720-90481-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	6.2		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	170		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.23	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	20		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	6.9		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	53		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	270	^	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	22		1.6	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.39	J	0.79	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	430		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.84		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-39 — Lab Sample ID: 720-90481-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.8		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	12		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	210		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.26	0.085	mg/Kg	4		6010B	Total/NA
Cadmium	0.51		0.33	0.032	mg/Kg	4		6010B	Total/NA
Chromium	19		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	6.5		0.52	0.052	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-39 (Continued) — Lab Sample ID: 720-90481-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	80		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	6300		3.3	0.69	mg/Kg	10		6010B	Total/NA
Molybdenum	1.0	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	23		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.79		0.65	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	390		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF6S-0.5-1 — Lab Sample ID: 720-90481-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	1.7	J	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	17		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	20		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	120		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	28		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	11		1.9	0.19	mg/Kg	4		6010B	Total/NA
Thallium	0.68	J	1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	150		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	110		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF6S-3.5-4 — Lab Sample ID: 720-90481-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	25		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	18		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	160		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.83		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	22		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	5.9		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	420		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	810	^	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.51	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	62		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	55		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	340		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG6S-0.5-1 — Lab Sample ID: 720-90481-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	2.1	J	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	17		1.4	0.20	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG6S-0.5-1 (Continued) — Lab Sample ID: 720-90481-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.095	J	0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.56		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	20		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	130		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	48	^	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.58	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	13		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	150		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.083		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG6S-3.5-4 — Lab Sample ID: 720-90481-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	5.2		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	98		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	21		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	6.5		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	38		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	120	^	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	23		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	100		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.087		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH6S-0.5-1 — Lab Sample ID: 720-90481-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.7		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	14		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	140		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	6.0		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	67		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	370		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	450	^	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	5.2		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	68		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.49	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Silver	0.66		0.56	0.11	mg/Kg	4		6010B	Total/NA
Thallium	0.44	J	1.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	1300		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.49		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Client Sample ID: DG-AH6S-3.5-4 — Lab Sample ID: 720-90481-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		0.44	0.073	mg/Kg	1		6010B	Total/NA
Arsenic	4.1		0.88	0.075	mg/Kg	1		6010B	Total/NA
Barium	25		0.44	0.063	mg/Kg	1		6010B	Total/NA
Cadmium	0.26		0.11	0.011	mg/Kg	1		6010B	Total/NA
Chromium	9.0		0.44	0.047	mg/Kg	1		6010B	Total/NA
Cobalt	2.6		0.18	0.018	mg/Kg	1		6010B	Total/NA
Copper	44		1.3	0.63	mg/Kg	1		6010B	Total/NA
Lead	77	^	0.44	0.093	mg/Kg	1		6010B	Total/NA
Molybdenum	0.45		0.44	0.057	mg/Kg	1		6010B	Total/NA
Nickel	8.8		0.44	0.045	mg/Kg	1		6010B	Total/NA
Vanadium	15		0.44	0.060	mg/Kg	1		6010B	Total/NA
Zinc	86		1.3	0.56	mg/Kg	1		6010B	Total/NA
Mercury	0.49		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI6S-0.5-1 — Lab Sample ID: 720-90481-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.86	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Barium	13		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	1.5		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	8.9	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	73		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	11		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.57	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	6.0		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	58		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.051		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI6S-3.5-4 — Lab Sample ID: 720-90481-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.8		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	340		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	1.0		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	3.1		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	31	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	140		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	630		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	3.0		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	28		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.92	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	430		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.42		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Client Sample ID: DG-AJ6S-0.5-1 — Lab Sample ID: 720-90481-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	0.54	J	2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	17		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	1.7		0.27	0.088	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	12	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	800		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	3.0		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.77	J	1.4	0.17	mg/Kg	4		6010B	Total/NA
Nickel	5.7		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	140		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	55		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.063		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ6S-3.5-4 — Lab Sample ID: 720-90481-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	21		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	220		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.72		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	18		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	52	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	190		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	620		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	2.7		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	41		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	1.7		0.80	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	750		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.46		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK6S-0.5-1 — Lab Sample ID: 720-90481-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	0.82	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	5.7		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	1.6		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J	0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	13	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	140		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	3.1		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.79	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	7.7		1.7	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK6S-0.5-1 (Continued) — Lab Sample ID: 720-90481-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.57	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	66		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.055		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK6S-3.5-4 — Lab Sample ID: 720-90481-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	14		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	240		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.37		0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	2.4		0.32	0.031	mg/Kg	4		6010B	Total/NA
Chromium	49	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	190		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	330		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	4.2		1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	50		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	690		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.68		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL6S-0.5-1 — Lab Sample ID: 720-90481-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	1.8	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	27		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	1.6		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.85		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	170		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	80		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	14		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	170		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL6S-3.5-4 — Lab Sample ID: 720-90481-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.2		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	35		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	100		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	1.3		0.38	0.12	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL6S-3.5-4 (Continued) — Lab Sample ID: 720-90481-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	1.2		0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	30	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	150		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	200		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	23		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.62	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	290		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-40 — Lab Sample ID: 720-90481-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	1.2	J	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	25		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	1.5		0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.68		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	16	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	180		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	70		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	11		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.94	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	140		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM6S-0.5-1 — Lab Sample ID: 720-90481-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4		1.4	0.24	mg/Kg	4		6010B	Total/NA
Barium	7.4		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	2.0		0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	16	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	110		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	1.5		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.73	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	8.1		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.63	J	2.8	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	160		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	63		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.084		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM6S-3.5-4 — Lab Sample ID: 720-90481-37

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM6S-3.5-4 (Continued)

Lab Sample ID: 720-90481-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.0		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	68		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	83		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.59		0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	28	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	170		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	270		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	43		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.80	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	230		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W6S-0.5-1

Date Collected: 12/20/18 08:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.0	0.17	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Arsenic	9.2		2.0	0.17	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Barium	59	B	1.0	0.14	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Beryllium	ND		0.20	0.066	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Cadmium	0.53	B	0.26	0.025	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Chromium	16		1.0	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Cobalt	4.8		0.41	0.041	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Copper	74		3.1	1.5	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Lead	83	B	1.0	0.21	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Molybdenum	0.47	J	1.0	0.13	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Nickel	13		1.0	0.10	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Selenium	0.66	J	2.0	0.31	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Silver	ND		0.51	0.10	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Thallium	ND		1.0	0.30	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Vanadium	34		1.0	0.14	mg/Kg		01/03/19 11:10	01/04/19 19:39	4
Zinc	110		3.1	1.3	mg/Kg		01/03/19 11:10	01/04/19 19:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.017	0.0025	mg/Kg		01/07/19 20:35	01/08/19 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-W6S-3.5-4

Date Collected: 12/20/18 08:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	32		3.6	0.61	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Arsenic	18		7.3	0.62	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Barium	910	B	3.6	0.52	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Beryllium	0.43	J	0.73	0.24	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Cadmium	1.5	B	0.91	0.091	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Chromium	27		3.6	0.39	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Cobalt	6.7		1.5	0.15	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Copper	770		11	5.2	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Lead	4000	B	3.6	0.77	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Molybdenum	0.52	J	3.6	0.47	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Nickel	24		3.6	0.37	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Selenium	1.4	J	7.3	1.1	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Silver	4.1		1.8	0.37	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Thallium	ND		3.6	1.1	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Vanadium	19		3.6	0.50	mg/Kg		01/03/19 11:10	01/04/19 19:44	10
Zinc	1300		11	4.6	mg/Kg		01/03/19 11:10	01/04/19 19:44	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.031	0.0046	mg/Kg		01/07/19 20:35	01/08/19 09:39	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.8		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-X6S-0.5-1

Date Collected: 12/20/18 08:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9		1.7	0.28	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Arsenic	6.3		3.4	0.29	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Barium	81	B	1.7	0.24	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Beryllium	ND		0.34	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Cadmium	0.96	B	0.42	0.042	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Chromium	26		1.7	0.18	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Cobalt	7.2		0.67	0.067	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Copper	150		5.0	2.4	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Lead	130	B	1.7	0.35	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Molybdenum	0.86	J	1.7	0.22	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Nickel	32		1.7	0.17	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Selenium	ND		3.4	0.50	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Silver	ND		0.84	0.17	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Thallium	ND		1.7	0.49	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Vanadium	38		1.7	0.23	mg/Kg		01/03/19 11:10	01/04/19 19:48	4
Zinc	230		5.0	2.1	mg/Kg		01/03/19 11:10	01/04/19 19:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.015	0.0023	mg/Kg		01/07/19 20:35	01/08/19 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-X6S-3.5-4

Date Collected: 12/20/18 08:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	13		2.6	0.43	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Arsenic	19		5.2	0.44	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Barium	890	B	1.0	0.15	mg/Kg		01/03/19 11:10	01/07/19 12:50	4
Beryllium	0.37		0.21	0.068	mg/Kg		01/03/19 11:10	01/07/19 12:50	4
Cadmium	9.0	B	0.65	0.065	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Chromium	69		2.6	0.28	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Cobalt	9.4		1.0	0.10	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Copper	360		7.8	3.7	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Lead	1800	B ^	2.6	0.55	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Molybdenum	0.67	J	1.0	0.13	mg/Kg		01/03/19 11:10	01/07/19 12:50	4
Nickel	160		2.6	0.27	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Selenium	0.98	J	5.2	0.78	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Silver	3.6		1.3	0.26	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Thallium	ND		2.6	0.76	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Vanadium	19		2.6	0.35	mg/Kg		01/03/19 11:10	01/07/19 17:11	10
Zinc	2400		7.8	3.3	mg/Kg		01/03/19 11:10	01/07/19 17:11	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.68		0.017	0.0025	mg/Kg		01/07/19 20:35	01/08/19 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.1		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-Y6S-0.5-1

Date Collected: 12/20/18 08:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	1.7	0.29	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Arsenic	8.3		3.5	0.30	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Barium	150	B	1.7	0.25	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Beryllium	ND		0.35	0.11	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Cadmium	0.58	B	0.43	0.043	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Chromium	18		1.7	0.18	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Cobalt	11		0.70	0.070	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Copper	81		5.2	2.5	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Lead	500	B	1.7	0.37	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Molybdenum	1.8		1.7	0.22	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Nickel	38		1.7	0.18	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Selenium	0.69	J	3.5	0.52	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Silver	0.64	J	0.87	0.18	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Thallium	ND		1.7	0.50	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Vanadium	44		1.7	0.24	mg/Kg		01/03/19 11:10	01/04/19 19:58	4
Zinc	150		5.2	2.2	mg/Kg		01/03/19 11:10	01/04/19 19:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.016	0.0023	mg/Kg		01/07/19 20:35	01/08/19 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.2		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-Y6S-3.5-4

Date Collected: 12/20/18 08:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		1.7	0.29	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Arsenic	31		3.5	0.30	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Barium	2500		1.7	0.25	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Beryllium	1.2		0.35	0.11	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Cadmium	3.7		0.43	0.043	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Chromium	140		1.7	0.18	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Cobalt	9.5		0.70	0.070	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Copper	660		5.2	2.5	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Lead	6400	^	1.7	0.37	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Molybdenum	1.7		1.7	0.22	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Nickel	83		1.7	0.18	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Selenium	1.0	J	3.5	0.52	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Silver	5.0		0.87	0.18	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Thallium	ND		1.7	0.50	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Vanadium	32		1.7	0.24	mg/Kg		12/24/18 14:27	01/07/19 13:36	4
Zinc	2500		5.2	2.2	mg/Kg		12/24/18 14:27	01/07/19 13:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.017	0.0025	mg/Kg		01/08/19 10:23	01/08/19 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.8		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-Z6S-0.5-1

Date Collected: 12/20/18 09:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3		1.4	0.24	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Arsenic	9.5		2.8	0.24	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Barium	82		1.4	0.20	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Beryllium	ND		0.28	0.092	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Cadmium	0.63		0.35	0.035	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Chromium	26		1.4	0.15	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Cobalt	11		0.57	0.057	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Copper	110		4.3	2.0	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Lead	190	^	1.4	0.30	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Molybdenum	1.1	J	1.4	0.18	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Nickel	29		1.4	0.14	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Selenium	ND		2.8	0.43	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Silver	ND		0.71	0.14	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Thallium	0.82	J	1.4	0.41	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Vanadium	67		1.4	0.19	mg/Kg		12/24/18 14:27	01/07/19 13:41	4
Zinc	160		4.3	1.8	mg/Kg		12/24/18 14:27	01/07/19 13:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		01/08/19 10:23	01/08/19 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.1		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-Z6S-3.5-4

Date Collected: 12/20/18 09:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	33		1.8	0.30	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Arsenic	16		3.6	0.31	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Barium	1300		1.8	0.26	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Beryllium	0.72		0.36	0.12	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Cadmium	4.3		0.45	0.045	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Chromium	39		1.8	0.19	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Cobalt	6.7		0.72	0.072	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Copper	640		5.4	2.6	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Lead	5800	^	1.8	0.38	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Molybdenum	0.66	J	1.8	0.23	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Nickel	100		1.8	0.18	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Selenium	ND		3.6	0.54	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Silver	4.2		0.90	0.18	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Thallium	ND		1.8	0.52	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Vanadium	27		1.8	0.25	mg/Kg		12/24/18 14:27	01/07/19 13:45	4
Zinc	3900		5.4	2.3	mg/Kg		12/24/18 14:27	01/07/19 13:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.017	0.0025	mg/Kg		01/08/19 10:23	01/08/19 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.8		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DUP-38

Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.6	0.26	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Arsenic	11		3.1	0.27	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Barium	94		1.6	0.22	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Beryllium	ND		0.31	0.10	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Cadmium	0.73		0.39	0.039	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Chromium	25		1.6	0.17	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Cobalt	12		0.63	0.063	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Copper	120		4.7	2.2	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Lead	130	^	1.6	0.33	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Molybdenum	0.69	J	1.6	0.20	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Nickel	32		1.6	0.16	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Selenium	ND		3.1	0.47	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Silver	ND		0.79	0.16	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Thallium	ND		1.6	0.46	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Vanadium	71		1.6	0.21	mg/Kg		12/24/18 14:27	01/07/19 13:50	4
Zinc	170		4.7	2.0	mg/Kg		12/24/18 14:27	01/07/19 13:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.095		0.016	0.0024	mg/Kg		01/08/19 10:23	01/08/19 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.5		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-AA6S-0.5-1

Date Collected: 12/20/18 09:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4		1.4	0.23	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Arsenic	2.2	J	2.8	0.24	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Barium	53		1.4	0.20	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Beryllium	ND		0.28	0.092	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Cadmium	0.19	J	0.35	0.035	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Chromium	10		1.4	0.15	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Cobalt	16		0.56	0.056	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Copper	110		4.2	2.0	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Lead	31	^	1.4	0.30	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Molybdenum	0.29	J	1.4	0.18	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Nickel	7.2		1.4	0.14	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Selenium	ND		2.8	0.42	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Silver	ND		0.70	0.14	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Thallium	1.6		1.4	0.41	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Vanadium	120		1.4	0.19	mg/Kg		12/24/18 14:27	01/07/19 13:54	4
Zinc	78		4.2	1.8	mg/Kg		12/24/18 14:27	01/07/19 13:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-AA6S-3.5-4

Date Collected: 12/20/18 09:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.5		1.4	0.23	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Arsenic	4.8		2.7	0.23	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Barium	410		1.4	0.19	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Beryllium	0.14	J	0.27	0.088	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Cadmium	2.4		0.34	0.034	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Chromium	17		1.4	0.14	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Cobalt	1.5		0.54	0.054	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Copper	310		4.1	1.9	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Lead	1100	^	1.4	0.29	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Molybdenum	ND		1.4	0.17	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Nickel	8.2		1.4	0.14	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Selenium	ND		2.7	0.41	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Silver	3.2		0.68	0.14	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Thallium	ND		1.4	0.39	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Vanadium	6.6		1.4	0.19	mg/Kg		12/24/18 14:27	01/07/19 13:59	4
Zinc	1800		4.1	1.7	mg/Kg		12/24/18 14:27	01/07/19 13:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.016	0.0024	mg/Kg		01/08/19 10:23	01/08/19 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	38.7		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-AB6S-0.5-1

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.1	0.19	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Arsenic	1.4	J	2.3	0.19	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Barium	28		1.1	0.16	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Beryllium	ND		0.23	0.074	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Cadmium	ND		0.28	0.028	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Chromium	16		1.1	0.12	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Cobalt	14		0.45	0.045	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Copper	130		3.4	1.6	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Lead	5.2		1.1	0.24	mg/Kg		12/24/18 14:27	01/08/19 15:33	4
Molybdenum	ND		1.1	0.15	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Nickel	11		1.1	0.12	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Selenium	ND		2.3	0.34	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Silver	ND		0.57	0.11	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Thallium	0.86	J	1.1	0.33	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Vanadium	96		1.1	0.15	mg/Kg		12/24/18 14:27	01/07/19 14:04	4
Zinc	55		3.4	1.4	mg/Kg		12/24/18 14:27	01/07/19 14:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.014	0.0021	mg/Kg		01/08/19 10:23	01/08/19 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-AB6S-3.5-4

Date Collected: 12/20/18 10:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.7		1.0	0.17	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Arsenic	8.2		2.0	0.17	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Barium	360		1.0	0.14	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Beryllium	0.17	J	0.20	0.066	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Cadmium	0.80		0.25	0.025	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Chromium	14		1.0	0.11	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Cobalt	2.8		0.40	0.040	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Copper	590		3.0	1.4	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Lead	1100	^	1.0	0.21	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Molybdenum	0.73	J	1.0	0.13	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Nickel	12		1.0	0.10	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Selenium	0.44	J	2.0	0.30	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Silver	1.7		0.51	0.10	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Thallium	ND		1.0	0.29	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Vanadium	8.6		1.0	0.14	mg/Kg		12/24/18 14:27	01/07/19 14:08	4
Zinc	670		3.0	1.3	mg/Kg		12/24/18 14:27	01/07/19 14:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.016	0.0024	mg/Kg		01/08/19 10:23	01/08/19 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.3		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-AC6S-0.5-1

Date Collected: 12/20/18 10:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.97	J	1.2	0.19	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Arsenic	7.1		2.3	0.20	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Barium	91		1.2	0.17	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Beryllium	ND		0.23	0.076	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Cadmium	0.56		0.29	0.029	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Chromium	23		1.2	0.12	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Cobalt	9.4		0.47	0.047	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Copper	120		3.5	1.7	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Lead	88	^	1.2	0.24	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Molybdenum	0.64	J	1.2	0.15	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Nickel	23		1.2	0.12	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Selenium	ND		2.3	0.35	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Silver	ND		0.58	0.12	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Thallium	0.41	J	1.2	0.34	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Vanadium	69		1.2	0.16	mg/Kg		12/24/18 14:27	01/07/19 14:13	4
Zinc	180		3.5	1.5	mg/Kg		12/24/18 14:27	01/07/19 14:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.084		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		0.1	0.05	%			12/24/18 09:28	1

Client Sample ID: DG-AC6S-3.5-4

Date Collected: 12/20/18 10:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.3	0.21	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Arsenic	4.4		2.5	0.22	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Barium	190		1.3	0.18	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Beryllium	0.22	J	0.25	0.083	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Cadmium	0.33		0.32	0.032	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Chromium	25		1.3	0.14	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Cobalt	6.8		0.51	0.051	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Copper	100		3.8	1.8	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Lead	370	^	1.3	0.27	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Molybdenum	ND		1.3	0.16	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Nickel	26		1.3	0.13	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Selenium	ND		2.5	0.38	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Silver	0.41	J	0.64	0.13	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Thallium	ND		1.3	0.37	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Vanadium	29		1.3	0.17	mg/Kg		12/24/18 14:27	01/07/19 14:27	4
Zinc	280		3.8	1.6	mg/Kg		12/24/18 14:27	01/07/19 14:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.093		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AD6S-0.5-1

Date Collected: 12/20/18 10:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.8	0.29	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Arsenic	3.0	J	3.5	0.30	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Barium	75		1.8	0.25	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Beryllium	ND		0.35	0.11	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Cadmium	0.92		0.44	0.044	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Chromium	24		1.8	0.19	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Cobalt	14		0.70	0.070	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Copper	280		5.3	2.5	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Lead	140	^	1.8	0.37	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Molybdenum	1.2	J	1.8	0.22	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Nickel	17		1.8	0.18	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Selenium	ND		3.5	0.53	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Silver	ND		0.88	0.18	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Thallium	1.2	J	1.8	0.51	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Vanadium	82		1.8	0.24	mg/Kg		12/24/18 14:27	01/07/19 14:31	4
Zinc	190		5.3	2.2	mg/Kg		12/24/18 14:27	01/07/19 14:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.016	0.0023	mg/Kg		01/08/19 10:23	01/08/19 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AD6S-3.5-4

Date Collected: 12/20/18 10:55
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.3	F1 F2	1.6	0.27	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Arsenic	10	F1 F2	3.3	0.28	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Barium	210	B F2	1.6	0.23	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Beryllium	0.19	J F1	0.33	0.11	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Cadmium	0.86	B	0.41	0.040	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Chromium	19	F1	1.6	0.17	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Cobalt	4.7	F1	0.65	0.065	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Copper	63	F1 F2	4.9	2.3	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Lead	250	B	1.6	0.34	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Molybdenum	0.39	J	1.6	0.21	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Nickel	21	F1 F2	1.6	0.17	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Selenium	0.83	J	3.3	0.49	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Silver	0.63	J F1	0.81	0.16	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Thallium	ND		1.6	0.47	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Vanadium	26	F1	1.6	0.22	mg/Kg		01/03/19 11:10	01/04/19 18:12	4
Zinc	240		4.9	2.1	mg/Kg		01/03/19 11:10	01/04/19 18:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.098		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.9		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AE6S-0.5-1

Date Collected: 12/20/18 11:10
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.6		1.6	0.26	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Arsenic	4.3		3.1	0.27	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Barium	92		1.6	0.22	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Beryllium	ND		0.31	0.10	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Cadmium	1.4		0.39	0.039	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Chromium	33		1.6	0.17	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Cobalt	11		0.63	0.063	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Copper	220		4.7	2.2	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Lead	180	^	1.6	0.33	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Molybdenum	3.3		1.6	0.20	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Nickel	32		1.6	0.16	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Selenium	ND		3.1	0.47	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Silver	ND		0.79	0.16	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Thallium	0.70	J	1.6	0.46	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Vanadium	56		1.6	0.21	mg/Kg		12/24/18 14:27	01/07/19 14:36	4
Zinc	290		4.7	2.0	mg/Kg		12/24/18 14:27	01/07/19 14:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AE6S-3.5-4

Date Collected: 12/20/18 11:10
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.6	0.26	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Arsenic	6.2		3.1	0.27	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Barium	170		1.6	0.22	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Beryllium	0.23	J	0.31	0.10	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Cadmium	1.1		0.39	0.039	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Chromium	20		1.6	0.17	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Cobalt	6.9		0.63	0.063	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Copper	53		4.7	2.2	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Lead	270	^	1.6	0.33	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Molybdenum	0.26	J	1.6	0.20	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Nickel	22		1.6	0.16	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Selenium	ND		3.1	0.47	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Silver	0.39	J	0.79	0.16	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Thallium	ND		1.6	0.46	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Vanadium	29		1.6	0.21	mg/Kg		12/24/18 14:27	01/07/19 14:40	4
Zinc	430		4.7	2.0	mg/Kg		12/24/18 14:27	01/07/19 14:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.84		0.017	0.0025	mg/Kg		01/08/19 10:23	01/08/19 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.2		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DUP-39

Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.8		1.3	0.22	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Arsenic	12		2.6	0.22	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Barium	210		1.3	0.19	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Beryllium	0.24	J	0.26	0.085	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Cadmium	0.51		0.33	0.032	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Chromium	19		1.3	0.14	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Cobalt	6.5		0.52	0.052	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Copper	80		3.9	1.9	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Lead	6300		3.3	0.69	mg/Kg		12/24/18 14:27	01/08/19 15:19	10
Molybdenum	1.0	J	1.3	0.17	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Nickel	23		1.3	0.13	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Selenium	ND		2.6	0.39	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Silver	0.79		0.65	0.13	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Thallium	ND		1.3	0.38	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Vanadium	29		1.3	0.18	mg/Kg		12/24/18 14:27	01/07/19 14:45	4
Zinc	390		3.9	1.7	mg/Kg		12/24/18 14:27	01/07/19 14:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.7		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AF6S-0.5-1

Date Collected: 12/20/18 11:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.9	0.31	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Arsenic	1.7	J	3.8	0.32	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Barium	17		1.9	0.27	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Beryllium	ND		0.38	0.12	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Cadmium	0.13	J	0.47	0.047	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Chromium	20		1.9	0.20	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Cobalt	20		0.75	0.075	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Copper	120		5.7	2.7	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Lead	28		1.9	0.40	mg/Kg		12/24/18 14:27	01/08/19 15:23	4
Molybdenum	0.25	J	1.9	0.24	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Nickel	11		1.9	0.19	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Selenium	ND		3.8	0.57	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Silver	ND		0.94	0.19	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Thallium	0.68	J	1.9	0.55	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Vanadium	150		1.9	0.26	mg/Kg		12/24/18 14:27	01/07/19 14:49	4
Zinc	110		5.7	2.4	mg/Kg		12/24/18 14:27	01/07/19 14:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0023	mg/Kg		01/08/19 10:23	01/08/19 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AF6S-3.5-4

Date Collected: 12/20/18 11:40
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	25		1.5	0.25	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Arsenic	18		3.0	0.26	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Barium	160		1.5	0.21	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Beryllium	ND		0.30	0.098	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Cadmium	0.83		0.38	0.037	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Chromium	22		1.5	0.16	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Cobalt	5.9		0.60	0.060	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Copper	420		4.5	2.1	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Lead	810	^	1.5	0.32	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Molybdenum	0.51	J	1.5	0.19	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Nickel	62		1.5	0.15	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Selenium	ND		3.0	0.45	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Silver	ND		0.75	0.15	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Thallium	ND		1.5	0.44	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Vanadium	55		1.5	0.20	mg/Kg		12/24/18 14:27	01/07/19 14:54	4
Zinc	340		4.5	1.9	mg/Kg		12/24/18 14:27	01/07/19 14:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.014	0.0021	mg/Kg		01/08/19 10:23	01/08/19 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.1		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AG6S-0.5-1

Date Collected: 12/20/18 13:10
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.4	0.24	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Arsenic	2.1	J	2.8	0.24	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Barium	17		1.4	0.20	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Beryllium	0.095	J	0.28	0.092	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Cadmium	0.56		0.35	0.035	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Chromium	20		1.4	0.15	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Cobalt	16		0.57	0.057	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Copper	130		4.3	2.0	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Lead	48	^	1.4	0.30	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Molybdenum	0.58	J	1.4	0.18	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Nickel	13		1.4	0.14	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Selenium	ND		2.8	0.43	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Silver	ND		0.71	0.14	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Thallium	ND	L	1.4	0.41	mg/Kg		12/24/18 14:27	01/08/19 15:28	4
Vanadium	100		1.4	0.19	mg/Kg		12/24/18 14:27	01/07/19 13:31	4
Zinc	150		4.3	1.8	mg/Kg		12/24/18 14:27	01/07/19 13:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.083		0.016	0.0023	mg/Kg		01/08/19 09:10	01/08/19 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AG6S-3.5-4

Date Collected: 12/20/18 13:10
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.3	0.22	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Arsenic	5.2		2.6	0.22	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Barium	98		1.3	0.18	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Beryllium	0.11	J	0.26	0.084	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Cadmium	0.18	J	0.32	0.032	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Chromium	21		1.3	0.14	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Cobalt	6.5		0.52	0.052	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Copper	38		3.9	1.8	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Lead	120	^	1.3	0.27	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Molybdenum	0.19	J	1.3	0.17	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Nickel	23		1.3	0.13	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Selenium	ND		2.6	0.39	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Silver	ND		0.65	0.13	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Thallium	ND		1.3	0.38	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Vanadium	35		1.3	0.18	mg/Kg		12/24/18 14:27	01/07/19 14:58	4
Zinc	100		3.9	1.6	mg/Kg		12/24/18 14:27	01/07/19 14:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087		0.017	0.0025	mg/Kg		01/08/19 10:23	01/08/19 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.0		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AH6S-0.5-1

Date Collected: 12/20/18 13:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.7		1.1	0.18	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Arsenic	14		2.2	0.19	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Barium	140		1.1	0.16	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Beryllium	ND		0.22	0.072	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Cadmium	6.0		0.28	0.028	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Chromium	67		1.1	0.12	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Cobalt	13		0.44	0.044	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Copper	370		3.3	1.6	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Lead	450	^	1.1	0.23	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Molybdenum	5.2		1.1	0.14	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Nickel	68		1.1	0.11	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Selenium	0.49	J	2.2	0.33	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Silver	0.66		0.56	0.11	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Thallium	0.44	J	1.1	0.32	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Vanadium	59		1.1	0.15	mg/Kg		12/24/18 14:27	01/07/19 15:03	4
Zinc	1300		3.3	1.4	mg/Kg		12/24/18 14:27	01/07/19 15:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.015	0.0022	mg/Kg		01/08/19 09:10	01/08/19 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.1		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AH6S-3.5-4

Date Collected: 12/20/18 13:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		0.44	0.073	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Arsenic	4.1		0.88	0.075	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Barium	25		0.44	0.063	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Beryllium	ND		0.088	0.029	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Cadmium	0.26		0.11	0.011	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Chromium	9.0		0.44	0.047	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Cobalt	2.6		0.18	0.018	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Copper	44		1.3	0.63	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Lead	77	^	0.44	0.093	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Molybdenum	0.45		0.44	0.057	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Nickel	8.8		0.44	0.045	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Selenium	ND		0.88	0.13	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Silver	ND		0.22	0.045	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Thallium	ND		0.44	0.13	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Vanadium	15		0.44	0.060	mg/Kg		12/24/18 14:27	01/07/19 15:07	1
Zinc	86		1.3	0.56	mg/Kg		12/24/18 14:27	01/07/19 15:07	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.015	0.0022	mg/Kg		01/08/19 09:10	01/08/19 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AI6S-0.5-1

Date Collected: 12/20/18 13:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.86	J	1.6	0.26	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Arsenic	ND		3.1	0.26	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Barium	13		1.6	0.22	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Beryllium	1.5		0.31	0.10	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Cadmium	0.23	J	0.39	0.038	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Chromium	8.9	B	1.6	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Cobalt	15		0.62	0.062	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Copper	73		4.7	2.2	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Lead	11		1.6	0.33	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Molybdenum	0.57	J	1.6	0.20	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Nickel	6.0		1.6	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Selenium	ND		3.1	0.47	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Silver	ND		0.78	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Thallium	ND		1.6	0.45	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Vanadium	120		1.6	0.21	mg/Kg		01/03/19 11:10	01/07/19 18:13	4
Zinc	58		4.7	2.0	mg/Kg		01/03/19 11:10	01/07/19 18:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.015	0.0021	mg/Kg		01/08/19 09:10	01/08/19 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AI6S-3.5-4

Date Collected: 12/20/18 13:50
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.8		1.7	0.28	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Arsenic	13		3.4	0.29	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Barium	340		1.7	0.24	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Beryllium	1.0		0.34	0.11	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Cadmium	3.1		0.42	0.042	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Chromium	31	B	1.7	0.18	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Cobalt	12		0.68	0.068	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Copper	140		5.1	2.4	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Lead	630		1.7	0.36	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Molybdenum	3.0		1.7	0.22	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Nickel	28		1.7	0.17	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Selenium	0.92	J	3.4	0.51	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Silver	ND		0.85	0.17	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Thallium	ND		1.7	0.49	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Vanadium	84		1.7	0.23	mg/Kg		01/03/19 11:10	01/07/19 18:18	4
Zinc	430		5.1	2.2	mg/Kg		01/03/19 11:10	01/07/19 18:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.016	0.0024	mg/Kg		01/08/19 09:10	01/08/19 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.3		0.1	0.05	%			12/24/18 10:31	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Client Sample ID: DG-AJ6S-0.5-1
Date Collected: 12/20/18 14:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-29
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.4	0.23	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Arsenic	0.54	J	2.7	0.23	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Barium	17		1.4	0.19	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Beryllium	1.7		0.27	0.088	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Cadmium	0.14	J	0.34	0.034	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Chromium	12	B	1.4	0.14	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Cobalt	17		0.54	0.054	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Copper	800		4.1	1.9	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Lead	3.0		1.4	0.29	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Molybdenum	0.77	J	1.4	0.17	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Nickel	5.7		1.4	0.14	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Selenium	1.7	J	2.7	0.41	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Silver	ND		0.68	0.14	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Thallium	ND		1.4	0.39	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Vanadium	140		1.4	0.19	mg/Kg		01/03/19 11:10	01/07/19 18:23	4
Zinc	55		4.1	1.7	mg/Kg		01/03/19 11:10	01/07/19 18:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.015	0.0023	mg/Kg		01/08/19 09:10	01/08/19 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AJ6S-3.5-4

Date Collected: 12/20/18 14:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12		1.6	0.27	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Arsenic	21		3.2	0.27	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Barium	220		1.6	0.23	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Beryllium	0.72		0.32	0.10	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Cadmium	18		0.40	0.040	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Chromium	52	B	1.6	0.17	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Cobalt	9.3		0.64	0.064	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Copper	190		4.8	2.3	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Lead	620		1.6	0.34	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Molybdenum	2.7		1.6	0.20	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Nickel	41		1.6	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Selenium	1.1	J	3.2	0.48	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Silver	1.7		0.80	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Thallium	ND		1.6	0.46	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Vanadium	49		1.6	0.22	mg/Kg		01/03/19 11:10	01/07/19 18:37	4
Zinc	750		4.8	2.0	mg/Kg		01/03/19 11:10	01/07/19 18:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46		0.015	0.0021	mg/Kg		01/08/19 09:10	01/08/19 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.7		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AK6S-0.5-1

Date Collected: 12/20/18 14:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.7	0.28	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Arsenic	0.82	J	3.3	0.28	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Barium	5.7		1.7	0.24	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Beryllium	1.6		0.33	0.11	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Cadmium	0.22	J	0.42	0.041	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Chromium	13	B	1.7	0.18	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Cobalt	21		0.67	0.067	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Copper	140		5.0	2.4	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Lead	3.1		1.7	0.35	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Molybdenum	0.79	J	1.7	0.21	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Nickel	7.7		1.7	0.17	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Selenium	0.57	J	3.3	0.50	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Silver	ND		0.83	0.17	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Thallium	ND		1.7	0.48	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Vanadium	130		1.7	0.23	mg/Kg		01/03/19 11:10	01/07/19 18:42	4
Zinc	66		5.0	2.1	mg/Kg		01/03/19 11:10	01/07/19 18:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.015	0.0021	mg/Kg		01/08/19 09:10	01/08/19 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AK6S-3.5-4

Date Collected: 12/20/18 14:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12		1.3	0.21	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Arsenic	14		2.5	0.22	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Barium	240		1.3	0.18	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Beryllium	0.37		0.25	0.082	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Cadmium	2.4		0.32	0.031	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Chromium	49	B	1.3	0.13	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Cobalt	10		0.51	0.051	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Copper	190		3.8	1.8	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Lead	330		1.3	0.27	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Molybdenum	4.2		1.3	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Nickel	50		1.3	0.13	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Selenium	1.4	J	2.5	0.38	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Silver	ND		0.63	0.13	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Thallium	ND		1.3	0.37	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Vanadium	33		1.3	0.17	mg/Kg		01/03/19 11:10	01/07/19 18:47	4
Zinc	690		3.8	1.6	mg/Kg		01/03/19 11:10	01/07/19 18:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.68		0.017	0.0025	mg/Kg		01/08/19 09:10	01/08/19 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AL6S-0.5-1

Date Collected: 12/20/18 14:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.6	0.27	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Arsenic	1.8	J	3.2	0.27	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Barium	27		1.6	0.23	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Beryllium	1.6		0.32	0.10	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Cadmium	0.85		0.40	0.040	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Chromium	21	B	1.6	0.17	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Cobalt	19		0.64	0.064	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Copper	170		4.8	2.3	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Lead	80		1.6	0.34	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Molybdenum	1.5	J	1.6	0.20	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Nickel	14		1.6	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Selenium	1.2	J	3.2	0.48	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Silver	ND		0.80	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Thallium	ND		1.6	0.46	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Vanadium	130		1.6	0.22	mg/Kg		01/03/19 11:10	01/07/19 18:51	4
Zinc	170		4.8	2.0	mg/Kg		01/03/19 11:10	01/07/19 18:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.014	0.0021	mg/Kg		01/08/19 09:10	01/08/19 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.05	%			12/24/18 10:31	1

Client Sample ID: DG-AL6S-3.5-4

Date Collected: 12/20/18 14:30
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2		1.9	0.32	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Arsenic	35		3.8	0.32	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Barium	100		1.9	0.27	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Beryllium	1.3		0.38	0.12	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Cadmium	1.2		0.48	0.047	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Chromium	30	B	1.9	0.20	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Cobalt	14		0.76	0.076	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Copper	150		5.7	2.7	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Lead	200		1.9	0.40	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Molybdenum	1.5	J	1.9	0.24	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Nickel	23		1.9	0.19	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Selenium	0.62	J	3.8	0.57	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Silver	ND		0.95	0.19	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Thallium	ND		1.9	0.55	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Vanadium	100		1.9	0.26	mg/Kg		01/03/19 11:10	01/07/19 18:56	4
Zinc	290		5.7	2.4	mg/Kg		01/03/19 11:10	01/07/19 18:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.016	0.0024	mg/Kg		01/08/19 09:10	01/08/19 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.9		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DUP-40

Date Collected: 12/20/18 00:00
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.9	0.31	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Arsenic	1.2	J	3.8	0.32	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Barium	25		1.9	0.27	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Beryllium	1.5		0.38	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Cadmium	0.68		0.47	0.047	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Chromium	16	B	1.9	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Cobalt	17		0.75	0.075	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Copper	180		5.7	2.7	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Lead	70		1.9	0.40	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Molybdenum	1.3	J	1.9	0.24	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Nickel	11		1.9	0.19	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Selenium	0.94	J	3.8	0.57	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Silver	ND		0.94	0.19	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Thallium	ND		1.9	0.55	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Vanadium	130		1.9	0.26	mg/Kg		01/03/19 11:10	01/07/19 19:01	4
Zinc	140		5.7	2.4	mg/Kg		01/03/19 11:10	01/07/19 19:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.017	0.0025	mg/Kg		01/08/19 09:10	01/08/19 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AM6S-0.5-1

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4		1.4	0.24	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Arsenic	ND		2.8	0.24	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Barium	7.4		1.4	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Beryllium	2.0		0.28	0.092	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Cadmium	0.13	J	0.35	0.035	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Chromium	16	B	1.4	0.15	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Cobalt	21		0.57	0.057	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Copper	110		4.3	2.0	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Lead	1.5		1.4	0.30	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Molybdenum	0.73	J	1.4	0.18	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Nickel	8.1		1.4	0.14	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Selenium	0.63	J	2.8	0.43	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Silver	ND		0.71	0.14	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Thallium	ND		1.4	0.41	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Vanadium	160		1.4	0.19	mg/Kg		01/03/19 11:10	01/07/19 19:05	4
Zinc	63		4.3	1.8	mg/Kg		01/03/19 11:10	01/07/19 19:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.084		0.017	0.0025	mg/Kg		01/08/19 09:10	01/08/19 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.9		0.1	0.05	%			12/24/18 11:00	1

Client Sample ID: DG-AM6S-3.5-4

Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0		1.5	0.25	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Arsenic	68		3.1	0.26	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Barium	83		1.5	0.22	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Beryllium	0.59		0.31	0.099	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Cadmium	1.2		0.38	0.038	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Chromium	28	B	1.5	0.16	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Cobalt	11		0.61	0.061	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Copper	170		4.6	2.2	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Lead	270		1.5	0.32	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Molybdenum	1.6		1.5	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Nickel	43		1.5	0.16	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Selenium	0.80	J	3.1	0.46	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Silver	ND		0.76	0.15	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Thallium	ND		1.5	0.44	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Vanadium	59		1.5	0.21	mg/Kg		01/03/19 11:10	01/07/19 19:10	4
Zinc	230		4.6	1.9	mg/Kg		01/03/19 11:10	01/07/19 19:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.016	0.0024	mg/Kg		01/08/19 09:10	01/08/19 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			12/24/18 11:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257547/1-A
Matrix: Solid
Analysis Batch: 258071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Arsenic	ND		1.0	0.085	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Barium	0.131	J	0.50	0.071	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Beryllium	ND		0.10	0.033	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Cadmium	0.0120	J	0.13	0.012	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Chromium	ND		0.50	0.053	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Cobalt	ND		0.20	0.020	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Copper	ND		1.5	0.71	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Lead	0.153	J	0.50	0.11	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Nickel	ND		0.50	0.051	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Selenium	ND		1.0	0.15	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Silver	ND		0.25	0.051	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Thallium	ND		0.50	0.15	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Vanadium	ND		0.50	0.068	mg/Kg		01/03/19 11:10	01/07/19 12:36	1
Zinc	ND		1.5	0.64	mg/Kg		01/03/19 11:10	01/07/19 12:36	1

Lab Sample ID: LCS 720-257547/2-A
Matrix: Solid
Analysis Batch: 258071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.9		mg/Kg		94	80 - 120
Arsenic	50.0	46.5		mg/Kg		93	80 - 120
Barium	50.0	46.8		mg/Kg		94	80 - 120
Beryllium	50.0	46.8		mg/Kg		94	80 - 120
Cadmium	50.0	49.3		mg/Kg		99	80 - 120
Chromium	50.0	47.7		mg/Kg		95	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	50.0	47.6		mg/Kg		95	80 - 120
Lead	50.0	49.7		mg/Kg		99	80 - 120
Molybdenum	50.0	47.9		mg/Kg		96	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	50.0	47.3		mg/Kg		95	80 - 120
Silver	25.0	23.0		mg/Kg		92	80 - 120
Thallium	50.0	48.6		mg/Kg		97	80 - 120
Vanadium	50.0	47.7		mg/Kg		95	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

Lab Sample ID: 720-90481-17 MS
Matrix: Solid
Analysis Batch: 258031

Client Sample ID: DG-AD6S-3.5-4
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.3	F1 F2	40.7	38.8		mg/Kg		85	75 - 125
Arsenic	10	F1 F2	40.7	116	F1	mg/Kg		261	75 - 125
Barium	210	B F2	40.7	457	4	mg/Kg		603	75 - 125
Beryllium	0.19	J F1	40.7	53.3	F1	mg/Kg		131	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90481-17 MS
Matrix: Solid
Analysis Batch: 258031

Client Sample ID: DG-AD6S-3.5-4
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.86	B	40.7	51.8		mg/Kg		125	75 - 125
Chromium	19	F1	40.7	82.2	F1	mg/Kg		156	75 - 125
Cobalt	4.7	F1	40.7	63.3	F1	mg/Kg		144	75 - 125
Copper	63	F1 F2	40.7	202	F1	mg/Kg		342	75 - 125
Lead	250	B	40.7	570	4	mg/Kg		790	75 - 125
Molybdenum	0.39	J	40.7	48.5		mg/Kg		118	75 - 125
Nickel	21	F1 F2	40.7	90.8	F1	mg/Kg		172	75 - 125
Selenium	0.83	J	40.7	48.2		mg/Kg		116	75 - 125
Silver	0.63	J F1	20.3	26.6	F1	mg/Kg		128	75 - 125
Thallium	ND		40.7	47.5		mg/Kg		117	75 - 125
Vanadium	26	F1	40.7	88.8	F1	mg/Kg		155	75 - 125
Zinc	240		40.7	471	4	mg/Kg		577	75 - 125

Lab Sample ID: 720-90481-17 MSD
Matrix: Solid
Analysis Batch: 258031

Client Sample ID: DG-AD6S-3.5-4
Prep Type: Total/NA
Prep Batch: 257547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.3	F1 F2	40.3	20.1	F1 F2	mg/Kg		39	75 - 125	64	20
Arsenic	10	F1 F2	40.3	60.0	F2	mg/Kg		124	75 - 125	64	20
Barium	210	B F2	40.3	316	4 F2	mg/Kg		258	75 - 125	37	20
Beryllium	0.19	J F1	40.3	47.5		mg/Kg		117	75 - 125	11	20
Cadmium	0.86	B	40.3	47.0		mg/Kg		114	75 - 125	10	20
Chromium	19	F1	40.3	69.9	F1	mg/Kg		127	75 - 125	16	20
Cobalt	4.7	F1	40.3	52.1		mg/Kg		117	75 - 125	19	20
Copper	63	F1 F2	40.3	142	F1 F2	mg/Kg		196	75 - 125	35	20
Lead	250	B	40.3	481	4	mg/Kg		577	75 - 125	17	20
Molybdenum	0.39	J	40.3	44.2		mg/Kg		109	75 - 125	9	20
Nickel	21	F1 F2	40.3	70.4	F2	mg/Kg		123	75 - 125	25	20
Selenium	0.83	J	40.3	44.1		mg/Kg		107	75 - 125	9	20
Silver	0.63	J F1	20.2	24.6		mg/Kg		119	75 - 125	8	20
Thallium	ND		40.3	43.4		mg/Kg		108	75 - 125	9	20
Vanadium	26	F1	40.3	76.7	F1	mg/Kg		126	75 - 125	15	20
Zinc	240		40.3	388	4	mg/Kg		377	75 - 125	19	20

Lab Sample ID: MB 720-257552/1-A
Matrix: Solid
Analysis Batch: 258164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Arsenic	ND		1.0	0.085	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Barium	ND		0.50	0.071	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Beryllium	ND		0.10	0.033	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Cadmium	ND		0.13	0.012	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Chromium	ND		0.50	0.053	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Cobalt	ND		0.20	0.020	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Copper	ND		1.5	0.71	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Lead	ND		0.50	0.11	mg/Kg		12/24/18 14:27	01/08/19 15:14	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257552/1-A
Matrix: Solid
Analysis Batch: 258164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Nickel	ND		0.50	0.051	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Selenium	ND		1.0	0.15	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Silver	ND		0.25	0.051	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Thallium	ND		0.50	0.15	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Vanadium	ND		0.50	0.068	mg/Kg		12/24/18 14:27	01/08/19 15:14	1
Zinc	ND		1.5	0.64	mg/Kg		12/24/18 14:27	01/08/19 15:14	1

Lab Sample ID: LCS 720-257552/2-A
Matrix: Solid
Analysis Batch: 258081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.0		mg/Kg		94	80 - 120
Arsenic	50.0	46.9		mg/Kg		94	80 - 120
Barium	50.0	46.8		mg/Kg		94	80 - 120
Beryllium	50.0	46.5		mg/Kg		93	80 - 120
Cadmium	50.0	49.1		mg/Kg		98	80 - 120
Chromium	50.0	48.1		mg/Kg		96	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	50.0	48.4		mg/Kg		97	80 - 120
Lead	50.0	50.8		mg/Kg		102	80 - 120
Molybdenum	50.0	48.0		mg/Kg		96	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Selenium	50.0	47.1		mg/Kg		94	80 - 120
Silver	25.0	23.1		mg/Kg		92	80 - 120
Thallium	50.0	48.9		mg/Kg		98	80 - 120
Vanadium	50.0	48.3		mg/Kg		97	80 - 120
Zinc	50.0	48.5		mg/Kg		97	80 - 120

Lab Sample ID: 720-90481-23 MS
Matrix: Solid
Analysis Batch: 258081

Client Sample ID: DG-AG6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.4	F1	35.0	10.4	F1	mg/Kg		26	75 - 125
Arsenic	2.2	J	35.0	42.4		mg/Kg		115	75 - 125
Barium	24	F1	35.0	61.1		mg/Kg		107	75 - 125
Beryllium	0.17	J	35.0	40.5		mg/Kg		115	75 - 125
Cadmium	0.71		35.0	43.4		mg/Kg		122	75 - 125
Chromium	27		35.0	53.6		mg/Kg		77	75 - 125
Cobalt	20		35.0	56.8		mg/Kg		106	75 - 125
Copper	180	F1	35.0	160	4	mg/Kg		-56	75 - 125
Lead	60	F2 F1	35.0	134	F1	mg/Kg		209	75 - 125
Molybdenum	1.4		35.0	38.3		mg/Kg		106	75 - 125
Nickel	16		35.0	50.6		mg/Kg		100	75 - 125
Selenium	ND		35.0	41.9		mg/Kg		120	75 - 125
Silver	ND		17.5	20.0		mg/Kg		114	75 - 125
Thallium	ND	L	35.0	43.2		mg/Kg		124	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90481-23 MS
Matrix: Solid
Analysis Batch: 258081

Client Sample ID: DG-AG6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	140		35.0	135	F1	mg/Kg		-5	75 - 125
Zinc	190	F2	35.0	237	4	mg/Kg		146	75 - 125

Lab Sample ID: 720-90481-23 MSD
Matrix: Solid
Analysis Batch: 258081

Client Sample ID: DG-AG6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.4	F1	35.5	9.78	F1	mg/Kg		24	75 - 125	7	20
Arsenic	2.2	J	35.5	41.7		mg/Kg		112	75 - 125	2	20
Barium	24	F1	35.5	63.8		mg/Kg		114	75 - 125	4	20
Beryllium	0.17	J	35.5	39.5		mg/Kg		111	75 - 125	2	20
Cadmium	0.71		35.5	41.0		mg/Kg		114	75 - 125	6	20
Chromium	27		35.5	50.8	F1	mg/Kg		68	75 - 125	5	20
Cobalt	20		35.5	54.4		mg/Kg		98	75 - 125	4	20
Copper	180	F1	35.5	137	4	mg/Kg		-123	75 - 125	16	20
Lead	60	F2 F1	35.5	95.8	F2	mg/Kg		100	75 - 125	33	20
Molybdenum	1.4		35.5	37.9		mg/Kg		103	75 - 125	1	20
Nickel	16		35.5	47.6		mg/Kg		90	75 - 125	6	20
Selenium	ND		35.5	40.0		mg/Kg		113	75 - 125	5	20
Silver	ND		17.7	20.2		mg/Kg		114	75 - 125	1	20
Thallium	ND	L	35.5	41.7		mg/Kg		118	75 - 125	4	20
Vanadium	140		35.5	140	F1	mg/Kg		9	75 - 125	4	20
Zinc	190	F2	35.5	179	4 F2	mg/Kg		-19	75 - 125	28	20

Lab Sample ID: MB 720-257579/1-A
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Arsenic	ND		1.0	0.085	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Barium	ND		0.50	0.071	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Beryllium	ND		0.10	0.033	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Cadmium	ND		0.13	0.012	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Chromium	0.0640	J	0.50	0.053	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Cobalt	ND		0.20	0.020	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Copper	ND		1.5	0.71	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Lead	ND		0.50	0.11	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Nickel	ND		0.50	0.051	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Selenium	ND		1.0	0.15	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Silver	ND		0.25	0.051	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Thallium	ND		0.50	0.15	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Vanadium	ND		0.50	0.068	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Zinc	ND		1.5	0.64	mg/Kg		01/03/19 11:10	01/07/19 17:41	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257579/2-A
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.1		mg/Kg		102	80 - 120
Arsenic	50.0	51.0		mg/Kg		102	80 - 120
Barium	50.0	50.9		mg/Kg		102	80 - 120
Beryllium	50.0	53.1		mg/Kg		106	80 - 120
Cadmium	50.0	51.0		mg/Kg		102	80 - 120
Chromium	50.0	51.7		mg/Kg		103	80 - 120
Cobalt	50.0	51.6		mg/Kg		103	80 - 120
Copper	50.0	51.1		mg/Kg		102	80 - 120
Lead	50.0	51.9		mg/Kg		104	80 - 120
Molybdenum	50.0	52.2		mg/Kg		104	80 - 120
Nickel	50.0	51.7		mg/Kg		103	80 - 120
Selenium	50.0	49.4		mg/Kg		99	80 - 120
Silver	25.0	24.8		mg/Kg		99	80 - 120
Thallium	50.0	51.8		mg/Kg		104	80 - 120
Vanadium	50.0	51.2		mg/Kg		102	80 - 120
Zinc	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: 720-90507-A-18-A MS
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.9	F1	39.4	14.9	F1	mg/Kg		23	75 - 125
Arsenic	12	F1	39.4	59.0		mg/Kg		119	75 - 125
Barium	300		39.4	239	4	mg/Kg		-148	75 - 125
Beryllium	0.39	F1	39.4	51.3	F1	mg/Kg		129	75 - 125
Cadmium	2.3	F1	39.4	49.9		mg/Kg		121	75 - 125
Chromium	47	F2 F1 B	39.4	129	F1	mg/Kg		208	75 - 125
Cobalt	16		39.4	61.3		mg/Kg		115	75 - 125
Copper	190		39.4	252	4	mg/Kg		145	75 - 125
Lead	290		39.4	423	4	mg/Kg		329	75 - 125
Molybdenum	4.3		39.4	50.7		mg/Kg		118	75 - 125
Nickel	55	F2 F1	39.4	137	F1	mg/Kg		208	75 - 125
Selenium	1.1	J	39.4	47.5		mg/Kg		118	75 - 125
Silver	0.30	J F1	19.7	24.5		mg/Kg		123	75 - 125
Thallium	ND	F1	39.4	50.3	F1	mg/Kg		128	75 - 125
Vanadium	40	F1	39.4	95.3	F1	mg/Kg		140	75 - 125
Zinc	360		39.4	454	4	mg/Kg		252	75 - 125

Lab Sample ID: 720-90507-A-18-B MSD
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.9	F1	39.1	16.6	F1	mg/Kg		27	75 - 125	10	20
Arsenic	12	F1	39.1	63.0	F1	mg/Kg		130	75 - 125	6	20
Barium	300		39.1	238	4	mg/Kg		-151	75 - 125	0	20
Beryllium	0.39	F1	39.1	52.3	F1	mg/Kg		133	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90507-A-18-B MSD
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	2.3	F1	39.1	51.6	F1	mg/Kg		126	75 - 125	3	20
Chromium	47	F2 F1 B	39.1	101	F1 F2	mg/Kg		138	75 - 125	24	20
Cobalt	16		39.1	61.6		mg/Kg		117	75 - 125	1	20
Copper	190		39.1	239	4	mg/Kg		114	75 - 125	5	20
Lead	290		39.1	372	4	mg/Kg		202	75 - 125	13	20
Molybdenum	4.3		39.1	52.8		mg/Kg		124	75 - 125	4	20
Nickel	55	F2 F1	39.1	105	F1 F2	mg/Kg		127	75 - 125	27	20
Selenium	1.1	J	39.1	48.8		mg/Kg		122	75 - 125	3	20
Silver	0.30	J F1	19.5	25.2	F1	mg/Kg		127	75 - 125	2	20
Thallium	ND	F1	39.1	50.8	F1	mg/Kg		130	75 - 125	1	20
Vanadium	40	F1	39.1	95.9	F1	mg/Kg		143	75 - 125	1	20
Zinc	360		39.1	441	4	mg/Kg		220	75 - 125	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257544/1-A
Matrix: Solid
Analysis Batch: 258124

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/07/19 20:35	01/08/19 08:31	1

Lab Sample ID: LCS 720-257544/2-A
Matrix: Solid
Analysis Batch: 258124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.840		mg/Kg		101	80 - 120

Lab Sample ID: 720-90480-A-17-A MS
Matrix: Solid
Analysis Batch: 258124

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257544

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.064		0.794	0.886		mg/Kg		104	75 - 125

Lab Sample ID: 720-90480-A-17-B MSD
Matrix: Solid
Analysis Batch: 258124

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257544

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.064		0.806	0.907		mg/Kg		105	75 - 125	2	20

Lab Sample ID: MB 720-257550/1-A
Matrix: Solid
Analysis Batch: 258154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/08/19 10:23	01/08/19 13:47	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-257550/2-A
Matrix: Solid
Analysis Batch: 258154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257550

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.792		mg/Kg		95	80 - 120		

Lab Sample ID: 720-90481-17 MS
Matrix: Solid
Analysis Batch: 258154

Client Sample ID: DG-AD6S-3.5-4
Prep Type: Total/NA
Prep Batch: 257550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.098		0.746	0.884		mg/Kg		105	75 - 125		

Lab Sample ID: 720-90481-17 MSD
Matrix: Solid
Analysis Batch: 258154

Client Sample ID: DG-AD6S-3.5-4
Prep Type: Total/NA
Prep Batch: 257550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.22		0.735	0.886		mg/Kg		90	75 - 125	0	20

Lab Sample ID: MB 720-257553/1-A
Matrix: Solid
Analysis Batch: 258143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/08/19 09:10	01/08/19 12:36	1

Lab Sample ID: LCS 720-257553/2-A
Matrix: Solid
Analysis Batch: 258143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257553

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.835		mg/Kg		100	80 - 120		

Lab Sample ID: 720-90481-23 MS
Matrix: Solid
Analysis Batch: 258143

Client Sample ID: DG-AG6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.083		0.769	0.897		mg/Kg		106	75 - 125		

Lab Sample ID: 720-90481-23 MSD
Matrix: Solid
Analysis Batch: 258143

Client Sample ID: DG-AG6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.083		0.769	0.910		mg/Kg		107	75 - 125	1	20

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90457-A-1 DU
Matrix: Solid
Analysis Batch: 257527

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.4			10.5		%				8	20

Lab Sample ID: 720-90481-15 DU
Matrix: Solid
Analysis Batch: 257532

Client Sample ID: DG-AC6S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.1			14.0		%				0.6	20

Lab Sample ID: 720-90481-34 DU
Matrix: Solid
Analysis Batch: 257537

Client Sample ID: DG-AL6S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	8.9			8.7		%				2	20

Metals

Prep Batch: 257544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-1	DG-W6S-0.5-1	Total/NA	Solid	7471A	
720-90481-2	DG-W6S-3.5-4	Total/NA	Solid	7471A	
720-90481-3	DG-X6S-0.5-1	Total/NA	Solid	7471A	
720-90481-4	DG-X6S-3.5-4	Total/NA	Solid	7471A	
720-90481-5	DG-Y6S-0.5-1	Total/NA	Solid	7471A	
MB 720-257544/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257544/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90480-A-17-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90480-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-1	DG-W6S-0.5-1	Total/NA	Solid	3050B	
720-90481-2	DG-W6S-3.5-4	Total/NA	Solid	3050B	
720-90481-3	DG-X6S-0.5-1	Total/NA	Solid	3050B	
720-90481-4	DG-X6S-3.5-4	Total/NA	Solid	3050B	
720-90481-5	DG-Y6S-0.5-1	Total/NA	Solid	3050B	
720-90481-17	DG-AD6S-3.5-4	Total/NA	Solid	3050B	
MB 720-257547/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257547/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90481-17 MS	DG-AD6S-3.5-4	Total/NA	Solid	3050B	
720-90481-17 MSD	DG-AD6S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-6	DG-Y6S-3.5-4	Total/NA	Solid	7471A	
720-90481-7	DG-Z6S-0.5-1	Total/NA	Solid	7471A	
720-90481-8	DG-Z6S-3.5-4	Total/NA	Solid	7471A	
720-90481-9	DUP-38	Total/NA	Solid	7471A	
720-90481-10	DG-AA6S-0.5-1	Total/NA	Solid	7471A	
720-90481-11	DG-AA6S-3.5-4	Total/NA	Solid	7471A	
720-90481-12	DG-AB6S-0.5-1	Total/NA	Solid	7471A	
720-90481-13	DG-AB6S-3.5-4	Total/NA	Solid	7471A	
720-90481-14	DG-AC6S-0.5-1	Total/NA	Solid	7471A	
720-90481-15	DG-AC6S-3.5-4	Total/NA	Solid	7471A	
720-90481-16	DG-AD6S-0.5-1	Total/NA	Solid	7471A	
720-90481-17	DG-AD6S-3.5-4	Total/NA	Solid	7471A	
720-90481-18	DG-AE6S-0.5-1	Total/NA	Solid	7471A	
720-90481-19	DG-AE6S-3.5-4	Total/NA	Solid	7471A	
720-90481-20	DUP-39	Total/NA	Solid	7471A	
720-90481-21	DG-AF6S-0.5-1	Total/NA	Solid	7471A	
720-90481-22	DG-AF6S-3.5-4	Total/NA	Solid	7471A	
720-90481-24	DG-AG6S-3.5-4	Total/NA	Solid	7471A	
MB 720-257550/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257550/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90481-17 MS	DG-AD6S-3.5-4	Total/NA	Solid	7471A	
720-90481-17 MSD	DG-AD6S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 257552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-6	DG-Y6S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-7	DG-Z6S-0.5-1	Total/NA	Solid	3050B	
720-90481-8	DG-Z6S-3.5-4	Total/NA	Solid	3050B	
720-90481-9	DUP-38	Total/NA	Solid	3050B	
720-90481-10	DG-AA6S-0.5-1	Total/NA	Solid	3050B	
720-90481-11	DG-AA6S-3.5-4	Total/NA	Solid	3050B	
720-90481-12	DG-AB6S-0.5-1	Total/NA	Solid	3050B	
720-90481-13	DG-AB6S-3.5-4	Total/NA	Solid	3050B	
720-90481-14	DG-AC6S-0.5-1	Total/NA	Solid	3050B	
720-90481-15	DG-AC6S-3.5-4	Total/NA	Solid	3050B	
720-90481-16	DG-AD6S-0.5-1	Total/NA	Solid	3050B	
720-90481-18	DG-AE6S-0.5-1	Total/NA	Solid	3050B	
720-90481-19	DG-AE6S-3.5-4	Total/NA	Solid	3050B	
720-90481-20	DUP-39	Total/NA	Solid	3050B	
720-90481-21	DG-AF6S-0.5-1	Total/NA	Solid	3050B	
720-90481-22	DG-AF6S-3.5-4	Total/NA	Solid	3050B	
720-90481-23	DG-AG6S-0.5-1	Total/NA	Solid	3050B	
720-90481-24	DG-AG6S-3.5-4	Total/NA	Solid	3050B	
720-90481-25	DG-AH6S-0.5-1	Total/NA	Solid	3050B	
720-90481-26	DG-AH6S-3.5-4	Total/NA	Solid	3050B	
MB 720-257552/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257552/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90481-23 MS	DG-AG6S-0.5-1	Total/NA	Solid	3050B	
720-90481-23 MSD	DG-AG6S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 257553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-23	DG-AG6S-0.5-1	Total/NA	Solid	7471A	
720-90481-25	DG-AH6S-0.5-1	Total/NA	Solid	7471A	
720-90481-26	DG-AH6S-3.5-4	Total/NA	Solid	7471A	
720-90481-27	DG-AI6S-0.5-1	Total/NA	Solid	7471A	
720-90481-28	DG-AI6S-3.5-4	Total/NA	Solid	7471A	
720-90481-29	DG-AJ6S-0.5-1	Total/NA	Solid	7471A	
720-90481-30	DG-AJ6S-3.5-4	Total/NA	Solid	7471A	
720-90481-31	DG-AK6S-0.5-1	Total/NA	Solid	7471A	
720-90481-32	DG-AK6S-3.5-4	Total/NA	Solid	7471A	
720-90481-33	DG-AL6S-0.5-1	Total/NA	Solid	7471A	
720-90481-34	DG-AL6S-3.5-4	Total/NA	Solid	7471A	
720-90481-35	DUP-40	Total/NA	Solid	7471A	
720-90481-36	DG-AM6S-0.5-1	Total/NA	Solid	7471A	
720-90481-37	DG-AM6S-3.5-4	Total/NA	Solid	7471A	
MB 720-257553/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257553/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90481-23 MS	DG-AG6S-0.5-1	Total/NA	Solid	7471A	
720-90481-23 MSD	DG-AG6S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-27	DG-AI6S-0.5-1	Total/NA	Solid	3050B	
720-90481-28	DG-AI6S-3.5-4	Total/NA	Solid	3050B	
720-90481-29	DG-AJ6S-0.5-1	Total/NA	Solid	3050B	
720-90481-30	DG-AJ6S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257579 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-31	DG-AK6S-0.5-1	Total/NA	Solid	3050B	
720-90481-32	DG-AK6S-3.5-4	Total/NA	Solid	3050B	
720-90481-33	DG-AL6S-0.5-1	Total/NA	Solid	3050B	
720-90481-34	DG-AL6S-3.5-4	Total/NA	Solid	3050B	
720-90481-35	DUP-40	Total/NA	Solid	3050B	
720-90481-36	DG-AM6S-0.5-1	Total/NA	Solid	3050B	
720-90481-37	DG-AM6S-3.5-4	Total/NA	Solid	3050B	
MB 720-257579/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257579/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90507-A-18-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90507-A-18-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 258031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-1	DG-W6S-0.5-1	Total/NA	Solid	6010B	257547
720-90481-2	DG-W6S-3.5-4	Total/NA	Solid	6010B	257547
720-90481-3	DG-X6S-0.5-1	Total/NA	Solid	6010B	257547
720-90481-5	DG-Y6S-0.5-1	Total/NA	Solid	6010B	257547
720-90481-17	DG-AD6S-3.5-4	Total/NA	Solid	6010B	257547
720-90481-17 MS	DG-AD6S-3.5-4	Total/NA	Solid	6010B	257547
720-90481-17 MSD	DG-AD6S-3.5-4	Total/NA	Solid	6010B	257547

Analysis Batch: 258071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-4	DG-X6S-3.5-4	Total/NA	Solid	6010B	257547
MB 720-257547/1-A	Method Blank	Total/NA	Solid	6010B	257547
LCS 720-257547/2-A	Lab Control Sample	Total/NA	Solid	6010B	257547

Analysis Batch: 258081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-6	DG-Y6S-3.5-4	Total/NA	Solid	6010B	257552
720-90481-7	DG-Z6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-8	DG-Z6S-3.5-4	Total/NA	Solid	6010B	257552
720-90481-9	DUP-38	Total/NA	Solid	6010B	257552
720-90481-10	DG-AA6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-11	DG-AA6S-3.5-4	Total/NA	Solid	6010B	257552
720-90481-12	DG-AB6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-13	DG-AB6S-3.5-4	Total/NA	Solid	6010B	257552
720-90481-14	DG-AC6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-15	DG-AC6S-3.5-4	Total/NA	Solid	6010B	257552
720-90481-16	DG-AD6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-18	DG-AE6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-19	DG-AE6S-3.5-4	Total/NA	Solid	6010B	257552
720-90481-20	DUP-39	Total/NA	Solid	6010B	257552
720-90481-21	DG-AF6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-22	DG-AF6S-3.5-4	Total/NA	Solid	6010B	257552
720-90481-23	DG-AG6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-24	DG-AG6S-3.5-4	Total/NA	Solid	6010B	257552
720-90481-25	DG-AH6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-26	DG-AH6S-3.5-4	Total/NA	Solid	6010B	257552
LCS 720-257552/2-A	Lab Control Sample	Total/NA	Solid	6010B	257552

Metals (Continued)

Analysis Batch: 258081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-23 MS	DG-AG6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-23 MSD	DG-AG6S-0.5-1	Total/NA	Solid	6010B	257552

Analysis Batch: 258085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-4	DG-X6S-3.5-4	Total/NA	Solid	6010B	257547

Analysis Batch: 258117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-27	DG-AI6S-0.5-1	Total/NA	Solid	6010B	257579
720-90481-28	DG-AI6S-3.5-4	Total/NA	Solid	6010B	257579
720-90481-29	DG-AJ6S-0.5-1	Total/NA	Solid	6010B	257579
720-90481-30	DG-AJ6S-3.5-4	Total/NA	Solid	6010B	257579
720-90481-31	DG-AK6S-0.5-1	Total/NA	Solid	6010B	257579
720-90481-32	DG-AK6S-3.5-4	Total/NA	Solid	6010B	257579
720-90481-33	DG-AL6S-0.5-1	Total/NA	Solid	6010B	257579
720-90481-34	DG-AL6S-3.5-4	Total/NA	Solid	6010B	257579
720-90481-35	DUP-40	Total/NA	Solid	6010B	257579
720-90481-36	DG-AM6S-0.5-1	Total/NA	Solid	6010B	257579
720-90481-37	DG-AM6S-3.5-4	Total/NA	Solid	6010B	257579
MB 720-257579/1-A	Method Blank	Total/NA	Solid	6010B	257579
LCS 720-257579/2-A	Lab Control Sample	Total/NA	Solid	6010B	257579
720-90507-A-18-A MS	Matrix Spike	Total/NA	Solid	6010B	257579
720-90507-A-18-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257579

Analysis Batch: 258124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-1	DG-W6S-0.5-1	Total/NA	Solid	7471A	257544
720-90481-2	DG-W6S-3.5-4	Total/NA	Solid	7471A	257544
720-90481-3	DG-X6S-0.5-1	Total/NA	Solid	7471A	257544
720-90481-4	DG-X6S-3.5-4	Total/NA	Solid	7471A	257544
720-90481-5	DG-Y6S-0.5-1	Total/NA	Solid	7471A	257544
MB 720-257544/1-A	Method Blank	Total/NA	Solid	7471A	257544
LCS 720-257544/2-A	Lab Control Sample	Total/NA	Solid	7471A	257544
720-90480-A-17-A MS	Matrix Spike	Total/NA	Solid	7471A	257544
720-90480-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257544

Analysis Batch: 258143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-23	DG-AG6S-0.5-1	Total/NA	Solid	7471A	257553
720-90481-25	DG-AH6S-0.5-1	Total/NA	Solid	7471A	257553
720-90481-26	DG-AH6S-3.5-4	Total/NA	Solid	7471A	257553
720-90481-27	DG-AI6S-0.5-1	Total/NA	Solid	7471A	257553
720-90481-28	DG-AI6S-3.5-4	Total/NA	Solid	7471A	257553
720-90481-29	DG-AJ6S-0.5-1	Total/NA	Solid	7471A	257553
720-90481-30	DG-AJ6S-3.5-4	Total/NA	Solid	7471A	257553
720-90481-31	DG-AK6S-0.5-1	Total/NA	Solid	7471A	257553
720-90481-32	DG-AK6S-3.5-4	Total/NA	Solid	7471A	257553
720-90481-33	DG-AL6S-0.5-1	Total/NA	Solid	7471A	257553
720-90481-34	DG-AL6S-3.5-4	Total/NA	Solid	7471A	257553
720-90481-35	DUP-40	Total/NA	Solid	7471A	257553

Metals (Continued)

Analysis Batch: 258143 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-36	DG-AM6S-0.5-1	Total/NA	Solid	7471A	257553
720-90481-37	DG-AM6S-3.5-4	Total/NA	Solid	7471A	257553
MB 720-257553/1-A	Method Blank	Total/NA	Solid	7471A	257553
LCS 720-257553/2-A	Lab Control Sample	Total/NA	Solid	7471A	257553
720-90481-23 MS	DG-AG6S-0.5-1	Total/NA	Solid	7471A	257553
720-90481-23 MSD	DG-AG6S-0.5-1	Total/NA	Solid	7471A	257553

Analysis Batch: 258154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-6	DG-Y6S-3.5-4	Total/NA	Solid	7471A	257550
720-90481-7	DG-Z6S-0.5-1	Total/NA	Solid	7471A	257550
720-90481-8	DG-Z6S-3.5-4	Total/NA	Solid	7471A	257550
720-90481-9	DUP-38	Total/NA	Solid	7471A	257550
720-90481-10	DG-AA6S-0.5-1	Total/NA	Solid	7471A	257550
720-90481-11	DG-AA6S-3.5-4	Total/NA	Solid	7471A	257550
720-90481-12	DG-AB6S-0.5-1	Total/NA	Solid	7471A	257550
720-90481-13	DG-AB6S-3.5-4	Total/NA	Solid	7471A	257550
720-90481-14	DG-AC6S-0.5-1	Total/NA	Solid	7471A	257550
720-90481-15	DG-AC6S-3.5-4	Total/NA	Solid	7471A	257550
720-90481-16	DG-AD6S-0.5-1	Total/NA	Solid	7471A	257550
720-90481-17	DG-AD6S-3.5-4	Total/NA	Solid	7471A	257550
720-90481-18	DG-AE6S-0.5-1	Total/NA	Solid	7471A	257550
720-90481-19	DG-AE6S-3.5-4	Total/NA	Solid	7471A	257550
720-90481-20	DUP-39	Total/NA	Solid	7471A	257550
720-90481-21	DG-AF6S-0.5-1	Total/NA	Solid	7471A	257550
720-90481-22	DG-AF6S-3.5-4	Total/NA	Solid	7471A	257550
720-90481-24	DG-AG6S-3.5-4	Total/NA	Solid	7471A	257550
MB 720-257550/1-A	Method Blank	Total/NA	Solid	7471A	257550
LCS 720-257550/2-A	Lab Control Sample	Total/NA	Solid	7471A	257550
720-90481-17 MS	DG-AD6S-3.5-4	Total/NA	Solid	7471A	257550
720-90481-17 MSD	DG-AD6S-3.5-4	Total/NA	Solid	7471A	257550

Analysis Batch: 258164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-12	DG-AB6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-20	DUP-39	Total/NA	Solid	6010B	257552
720-90481-21	DG-AF6S-0.5-1	Total/NA	Solid	6010B	257552
720-90481-23	DG-AG6S-0.5-1	Total/NA	Solid	6010B	257552
MB 720-257552/1-A	Method Blank	Total/NA	Solid	6010B	257552

General Chemistry

Analysis Batch: 257527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-1	DG-W6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-2	DG-W6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-3	DG-X6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-4	DG-X6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-5	DG-Y6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-6	DG-Y6S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-7	DG-Z6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-8	DG-Z6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-9	DUP-38	Total/NA	Solid	Moisture	
720-90481-10	DG-AA6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-11	DG-AA6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-12	DG-AB6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-13	DG-AB6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-14	DG-AC6S-0.5-1	Total/NA	Solid	Moisture	
720-90457-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-15	DG-AC6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-16	DG-AD6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-17	DG-AD6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-18	DG-AE6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-19	DG-AE6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-20	DUP-39	Total/NA	Solid	Moisture	
720-90481-21	DG-AF6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-22	DG-AF6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-23	DG-AG6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-24	DG-AG6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-25	DG-AH6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-26	DG-AH6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-27	DG-AI6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-28	DG-AI6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-29	DG-AJ6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-30	DG-AJ6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-31	DG-AK6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-32	DG-AK6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-33	DG-AL6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-15 DU	DG-AC6S-3.5-4	Total/NA	Solid	Moisture	

Analysis Batch: 257537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90481-34	DG-AL6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-35	DUP-40	Total/NA	Solid	Moisture	
720-90481-36	DG-AM6S-0.5-1	Total/NA	Solid	Moisture	
720-90481-37	DG-AM6S-3.5-4	Total/NA	Solid	Moisture	
720-90481-34 DU	DG-AL6S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-W6S-0.5-1

Lab Sample ID: 720-90481-1

Date Collected: 12/20/18 08:15

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 19:39	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-W6S-3.5-4

Lab Sample ID: 720-90481-2

Date Collected: 12/20/18 08:15

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		10	258031	01/04/19 19:44	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		2	258124	01/08/19 09:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-X6S-0.5-1

Lab Sample ID: 720-90481-3

Date Collected: 12/20/18 08:50

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 19:48	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-X6S-3.5-4

Lab Sample ID: 720-90481-4

Date Collected: 12/20/18 08:50

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258071	01/07/19 12:50	BKR	TAL PLS
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		10	258085	01/07/19 17:11	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-Y6S-0.5-1

Lab Sample ID: 720-90481-5

Date Collected: 12/20/18 08:55

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 19:58	BKR	TAL PLS
Total/NA	Prep	7471A			257544	01/07/19 20:35	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258124	01/08/19 09:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-Y6S-3.5-4

Lab Sample ID: 720-90481-6

Date Collected: 12/20/18 08:55

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 13:36	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 13:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-Z6S-0.5-1

Lab Sample ID: 720-90481-7

Date Collected: 12/20/18 09:30

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 13:41	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-Z6S-3.5-4

Lab Sample ID: 720-90481-8

Date Collected: 12/20/18 09:30

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 13:45	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DUP-38

Lab Sample ID: 720-90481-9

Date Collected: 12/20/18 00:00

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 13:50	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-AA6S-0.5-1

Lab Sample ID: 720-90481-10

Date Collected: 12/20/18 09:55

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 13:54	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-AA6S-3.5-4

Lab Sample ID: 720-90481-11

Date Collected: 12/20/18 09:55

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 13:59	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-AB6S-0.5-1

Lab Sample ID: 720-90481-12

Date Collected: 12/20/18 10:15

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258164	01/08/19 15:33	BKR	TAL PLS
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:04	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-AB6S-3.5-4

Lab Sample ID: 720-90481-13

Date Collected: 12/20/18 10:15

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:08	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-AC6S-0.5-1

Lab Sample ID: 720-90481-14

Date Collected: 12/20/18 10:40

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:13	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257527	12/24/18 09:28	TNL	TAL PLS

Client Sample ID: DG-AC6S-3.5-4

Lab Sample ID: 720-90481-15

Date Collected: 12/20/18 10:40

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:27	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AD6S-0.5-1

Lab Sample ID: 720-90481-16

Date Collected: 12/20/18 10:55

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:31	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AD6S-3.5-4

Lab Sample ID: 720-90481-17

Date Collected: 12/20/18 10:55

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257547	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258031	01/04/19 18:12	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 13:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AE6S-0.5-1

Lab Sample ID: 720-90481-18

Date Collected: 12/20/18 11:10

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:36	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AE6S-3.5-4

Lab Sample ID: 720-90481-19

Date Collected: 12/20/18 11:10

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:40	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DUP-39

Lab Sample ID: 720-90481-20

Date Collected: 12/20/18 00:00

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258164	01/08/19 15:19	BKR	TAL PLS
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:45	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AF6S-0.5-1

Lab Sample ID: 720-90481-21

Date Collected: 12/20/18 11:40

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258164	01/08/19 15:23	BKR	TAL PLS
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:49	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AF6S-3.5-4

Lab Sample ID: 720-90481-22

Date Collected: 12/20/18 11:40

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:54	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AG6S-0.5-1

Lab Sample ID: 720-90481-23

Date Collected: 12/20/18 13:10

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258164	01/08/19 15:28	BKR	TAL PLS
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 13:31	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 12:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AG6S-3.5-4

Lab Sample ID: 720-90481-24

Date Collected: 12/20/18 13:10

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 14:58	BKR	TAL PLS
Total/NA	Prep	7471A			257550	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258154	01/08/19 14:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AH6S-0.5-1

Lab Sample ID: 720-90481-25

Date Collected: 12/20/18 13:30

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258081	01/07/19 15:03	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 12:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AH6S-3.5-4

Lab Sample ID: 720-90481-26

Date Collected: 12/20/18 13:30

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257552	12/24/18 14:27	SUN	TAL PLS
Total/NA	Analysis	6010B		1	258081	01/07/19 15:07	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 12:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AI6S-0.5-1

Lab Sample ID: 720-90481-27

Date Collected: 12/20/18 13:50

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 18:13	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 12:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AI6S-3.5-4

Lab Sample ID: 720-90481-28

Date Collected: 12/20/18 13:50

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 18:18	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 12:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AJ6S-0.5-1

Lab Sample ID: 720-90481-29

Date Collected: 12/20/18 14:00
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 18:23	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 12:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AJ6S-3.5-4

Lab Sample ID: 720-90481-30

Date Collected: 12/20/18 14:00
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 18:37	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AK6S-0.5-1

Lab Sample ID: 720-90481-31

Date Collected: 12/20/18 14:15
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 18:42	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AK6S-3.5-4

Lab Sample ID: 720-90481-32

Date Collected: 12/20/18 14:15
Matrix: Solid
Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 18:47	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AL6S-0.5-1

Lab Sample ID: 720-90481-33

Date Collected: 12/20/18 14:30

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 18:51	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257532	12/24/18 10:31	TNL	TAL PLS

Client Sample ID: DG-AL6S-3.5-4

Lab Sample ID: 720-90481-34

Date Collected: 12/20/18 14:30

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 18:56	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DUP-40

Lab Sample ID: 720-90481-35

Date Collected: 12/20/18 00:00

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:01	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Client Sample ID: DG-AM6S-0.5-1

Lab Sample ID: 720-90481-36

Date Collected: 12/20/18 15:15

Matrix: Solid

Date Received: 12/20/18 19:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:05	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Client Sample ID: DG-AM6S-3.5-4
Date Collected: 12/20/18 15:15
Date Received: 12/20/18 19:10

Lab Sample ID: 720-90481-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:10	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257537	12/24/18 11:00	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90481-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90481-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90481-1	DG-W6S-0.5-1	Solid	12/20/18 08:15	12/20/18 19:10
720-90481-2	DG-W6S-3.5-4	Solid	12/20/18 08:15	12/20/18 19:10
720-90481-3	DG-X6S-0.5-1	Solid	12/20/18 08:50	12/20/18 19:10
720-90481-4	DG-X6S-3.5-4	Solid	12/20/18 08:50	12/20/18 19:10
720-90481-5	DG-Y6S-0.5-1	Solid	12/20/18 08:55	12/20/18 19:10
720-90481-6	DG-Y6S-3.5-4	Solid	12/20/18 08:55	12/20/18 19:10
720-90481-7	DG-Z6S-0.5-1	Solid	12/20/18 09:30	12/20/18 19:10
720-90481-8	DG-Z6S-3.5-4	Solid	12/20/18 09:30	12/20/18 19:10
720-90481-9	DUP-38	Solid	12/20/18 00:00	12/20/18 19:10
720-90481-10	DG-AA6S-0.5-1	Solid	12/20/18 09:55	12/20/18 19:10
720-90481-11	DG-AA6S-3.5-4	Solid	12/20/18 09:55	12/20/18 19:10
720-90481-12	DG-AB6S-0.5-1	Solid	12/20/18 10:15	12/20/18 19:10
720-90481-13	DG-AB6S-3.5-4	Solid	12/20/18 10:15	12/20/18 19:10
720-90481-14	DG-AC6S-0.5-1	Solid	12/20/18 10:40	12/20/18 19:10
720-90481-15	DG-AC6S-3.5-4	Solid	12/20/18 10:40	12/20/18 19:10
720-90481-16	DG-AD6S-0.5-1	Solid	12/20/18 10:55	12/20/18 19:10
720-90481-17	DG-AD6S-3.5-4	Solid	12/20/18 10:55	12/20/18 19:10
720-90481-18	DG-AE6S-0.5-1	Solid	12/20/18 11:10	12/20/18 19:10
720-90481-19	DG-AE6S-3.5-4	Solid	12/20/18 11:10	12/20/18 19:10
720-90481-20	DUP-39	Solid	12/20/18 00:00	12/20/18 19:10
720-90481-21	DG-AF6S-0.5-1	Solid	12/20/18 11:40	12/20/18 19:10
720-90481-22	DG-AF6S-3.5-4	Solid	12/20/18 11:40	12/20/18 19:10
720-90481-23	DG-AG6S-0.5-1	Solid	12/20/18 13:10	12/20/18 19:10
720-90481-24	DG-AG6S-3.5-4	Solid	12/20/18 13:10	12/20/18 19:10
720-90481-25	DG-AH6S-0.5-1	Solid	12/20/18 13:30	12/20/18 19:10
720-90481-26	DG-AH6S-3.5-4	Solid	12/20/18 13:30	12/20/18 19:10
720-90481-27	DG-AI6S-0.5-1	Solid	12/20/18 13:50	12/20/18 19:10
720-90481-28	DG-AI6S-3.5-4	Solid	12/20/18 13:50	12/20/18 19:10
720-90481-29	DG-AJ6S-0.5-1	Solid	12/20/18 14:00	12/20/18 19:10
720-90481-30	DG-AJ6S-3.5-4	Solid	12/20/18 14:00	12/20/18 19:10
720-90481-31	DG-AK6S-0.5-1	Solid	12/20/18 14:15	12/20/18 19:10
720-90481-32	DG-AK6S-3.5-4	Solid	12/20/18 14:15	12/20/18 19:10
720-90481-33	DG-AL6S-0.5-1	Solid	12/20/18 14:30	12/20/18 19:10
720-90481-34	DG-AL6S-3.5-4	Solid	12/20/18 14:30	12/20/18 19:10
720-90481-35	DUP-40	Solid	12/20/18 00:00	12/20/18 19:10
720-90481-36	DG-AM6S-0.5-1	Solid	12/20/18 15:15	12/20/18 19:10
720-90481-37	DG-AM6S-3.5-4	Solid	12/20/18 15:15	12/20/18 19:10

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90481

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 20 Dec 2018	COC No 16 of 22 COCs
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	Sampler USH Greer
1111 Broadway 6th Floor	**Analysis Turnaround Time**			For Lab Use Only:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90481 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	CAM-17 Metals (6010B, 7471)
1 DG-W65-0.5-1	12-20-18	0815	G	S	1	N		X
2 DG-W65-3.5-4		0815						
3 DG-X65-0.5-1		0820						
4 DG-X65-3.5-4		0850						
5 DG-Y65-0.5-1		0855						
6 DG-Y65-3.5-4		0855						
7 DG-Z65-0.5-1		0930						
8 DG-Z65-3.5-4		0930						
9 DUP-38								
10 DG-AA65-0.5-1		0955						
11 DG-AA65-3.5-4		0955						
12 DG-AB65-0.5-1		1015						

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.4, 1.6, 0.5, 3.5
0.8, 1.3, 2.0, 1.1 °C

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No. | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____

	Company	Date/Time		Company	Date/Time
Relinquished by	Geosyntec	20 Dec 2018/1605	Received by	TAPLS	12/20/18 1605
Relinquished by	TAPLS	12/20/18 1910	Received by		
Relinquished by			Received in Laboratory by	TAPLS	12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/26/2019 (Rev. 2)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90481

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 20 Dec 2018	COC No 189522
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 9 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-ABGS-3.5-4	12/20/18	1015	G	S	1	N		X	
14	DG-ACGS-0.5-1		1040							
15	DG-ACGS-3.5-4		1040							
16	DG-ADGS-0.5-1		1055							
17	DG-ADGS-3.5-4		1055							
18	DG-AEGS-0.5-1		1110							
19	DG-AEGS-3.5-4		1110							
20	DUP-39			CG						
21	DG-AFGS-0.5-1		1140							
22	DG-AFGS-3.5-4		1140							
23	DG-AGGS-0.5-1		1310							
24	DG-AGGS-3.5-4		1310							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd: ____ Therm ID No ____	
Relinquished by	Company Geosyntec	Date/Time 20 Dec 2018 1115	Received by
Relinquished by	Company TAPCS	Date/Time 12/20/18 1910	Received by
Relinquished by	Company	Date/Time	Received in Laboratory by

Company	Date/Time
TAPCS	12/20/18 1600
TAPCS	12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/26/2019 (Rev. 2)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90481

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 20 Dec 2018	COC No. 48737
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Carol Grear
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client.
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25	DG-AH6S-0.5-1	12/20/18	1330	G	S	1	N		X	
26	DG-AH6S-3.5-4		1330							
27	DG-AI6S-0.5-1		1350							
28	DG-AI6S-3.5-4		1350							
29	DG-AJ6S-0.5-1		1400							
30	DG-AJ6S-3.5-4		1400							
31	DG-AK6S-0.5-1		1415							
32	DG-AK6S-3.5-4		1415							
33	DG-AL6S-0.5-1		1430							
34	DG-AL6S-3.5-4		1430							
35	DUP-40									
36	DG-AM6S-0.5-1		1515							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C): Obs'd _____ Corr'd _____ Therm ID No _____	
Relinquished by	Company Geosyntec	Date/Time 20 Dec 2018/1605	Received by	Company	Date/Time
Relinquished by	Company TAPLS	Date/Time 12/20/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/26/2019 (Rev. 2)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

TA-90481

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 20 Dec 2018	COC No. 458742
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
37 DG-AMW5-3.5-4	12/20/18	1515	G	S	1	N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No.: _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by: Casey Green	Geosyntec	20 Dec 2018/1600		TAPCS	12/20/18 1600
Relinquished by:	TAPCS	12/20/18 1910	Received by	Company	Date/Time
Relinquished by:	Company	Date/Time	Received in Laboratory by	Company TA PLS	Date/Time 12/20/18 1910

12/20/18

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90481-1

Login Number: 90481
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Wednesday, December 26, 2018 11:40 AM
To: Patel, Urvashi; Bill Chen; Bondoc, Christian M.
Cc: Krzysztof Jesionek; Anthony Smith
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90481-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Urvashi,

Yes that is okay to run MS/MSD on those samples instead.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Wednesday, December 26, 2018 11:29 AM
To: Bill Chen <BChen@Geosyntec.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Cc: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90481-1 Brisbane OU-2 Data Gap Investigation

Hi Bill
The lab has already batched the QC and have chosen sample #17(DG AD6S-3.5-4) and #23 (DGAG6S-0.5-1)and digestion is in process. Would it be possible to use these samples for MS/MSD rather than the ones you've listed below (sample #8 and 18)?

Thanks,
Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bill Chen [mailto:BChen@Geosyntec.com]
Sent: Monday, December 24, 2018 10:29 AM
To: Patel, Urvashi; Bondoc, Christian M.
Cc: Krzysztof Jesionek; Miranda Kahrilas; Anthony Smith
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90481-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Yes. Sorry for the typo!

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Monday, December 24, 2018 10:24 AM
To: Bill Chen <BChen@Geosyntec.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Cc: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90481-1 Brisbane OU-2 Data Gap Investigation

Hi Bill
I don't see a DG-Z6-3.6-4. Did you mean DGZ6S-3.5.4?

Thanks,
Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bill Chen [mailto:BChen@Geosyntec.com]
Sent: Saturday, December 22, 2018 11:21 AM
To: Bondoc, Christian M.; Patel, Urvashi
Cc: Krzysztof Jesionek; Miranda Kahrilas; Anthony Smith
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90481-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Team,

Apologies for the incomplete COC – we'll remind our field staff to make sure they submit complete COCs.

Yes, please analyze all these samples for Metals. Additionally, please run MS/MSD on DG-Z6-3.6-4 and AE6-0.5-1

Many thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Friday, December 21, 2018 4:41 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90481-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90481-1; Brisbane OU-2 Data Gap Investigation

The Chain-of-Custody (COC) was incomplete as received. The Analyses are only marked off on the COC for first sample of all 4 pages, and the arrow was not run down the column for all samples. Logged all 37 samples for CAM 17 Metals. Please confirm if this is correct.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [490633]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90505-1
TestAmerica Sample Delivery Group: Brisbane OU2
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
1111 Broadway
6th Floor
Oakland, California 94607

Attn: Mr. Tony Smith

Authorized for release by:
2/6/2019 10:33:03 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90505-1
SDG: Brisbane OU2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90505-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90505-1

Comments
TB analyzed for 8260 (water).
Sample (#2) DG-R15S-3.5-4- was able to be analyzed for 8270 and 8015B/DRO.
Revision created to cancel sample-1 as it was analyzed past the 7 day analysis hold time, due to incorrect prep in project.

Receipt
The samples were received on 12/21/2018 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.3º C and 2.5º C.

Receipt Exceptions

TB-12218 is two water TripBlanks, COC lists soil.

Sample (#2) DG-R15S-3.5-4 is a 4oz jar filled 1/2 full for Moisture, DRO/MO and PNA-SIM.

GC/MS VOA
Method 8260B: The matrix spike and matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 440-520445 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-520445 recovered outside control limits for the following analyte: 1,2-Dichloropropane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The method blank for preparation batch 720-257713 and analytical batch 720-257793 contained Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene and Dibenz(a,h)anthracene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-U13S-7.5-8 (720-90505-1). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-R15S-3.5-4 (720-90505-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-U13S-7.5-8 (720-90505-1) and DG-R15S-3.5-4 (720-90505-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: 8270C SIM 3546. Due to the matrix, the following sample could not be concentrated to the final method required volume1mL: DG-R15S-3.5-4 (720-90505-2). The reporting limits (RLs) are elevated proportionately. The sample final volume was 5mL.

Job ID: 720-90505-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90505-1
SDG: Brisbane OU2

Client Sample ID: DG-U13S-7.5-8 — Lab Sample ID: 720-90505-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	44	J	98	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	45	J	98	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	86	J B	98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	92	J B	98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	200		98	28	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	29	J	98	28	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	37	J	98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	280		98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1100		20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2700		490	98	mg/Kg	10		8015B	Total/NA

Client Sample ID: DG-R15S-3.5-4 — Lab Sample ID: 720-90505-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	1300000		32000	23000	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	11000		320	160	ug/Kg	100		8260B	Total/NA
1,3,5-Trimethylbenzene	6000		320	160	ug/Kg	100		8260B	Total/NA
4-Isopropyltoluene	2000		320	160	ug/Kg	100		8260B	Total/NA
Isopropylbenzene	970		320	160	ug/Kg	100		8260B	Total/NA
Naphthalene	2900		810	320	ug/Kg	100		8260B	Total/NA
n-Butylbenzene	1700		810	320	ug/Kg	100		8260B	Total/NA
N-Propylbenzene	1600		320	160	ug/Kg	100		8260B	Total/NA
sec-Butylbenzene	1600		810	160	ug/Kg	100		8260B	Total/NA
Xylenes, Total	2200		650	320	ug/Kg	100		8260B	Total/NA
Anthracene	710		490	200	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	320	J	490	150	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	480	J B	490	190	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	700	B	490	210	ug/Kg	20		8270C SIM	Total/NA
Chrysene	1100		490	140	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	190	J	490	140	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	1000		490	340	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	1000		490	180	ug/Kg	20		8270C SIM	Total/NA
Pyrene	940		490	170	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	10000		200	74	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	29000		5000	990	mg/Kg	100		8015B	Total/NA

Client Sample ID: TB-12.21.18 — Lab Sample ID: 720-90505-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Client Sample ID: DG-R15S-3.5-4
Date Collected: 12/21/18 11:50
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**1300000**		32000	23000	ug/Kg		12/26/18 13:22	01/03/19 11:35	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*55 - 140*	*12/26/18 13:22*	*01/03/19 11:35*	*100*
4-Bromofluorobenzene (Surr)	*102*		*65 - 140*	*12/26/18 13:22*	*01/03/19 11:35*	*100*
Toluene-d8 (Surr)	*115*		*60 - 140*	*12/26/18 13:22*	*01/03/19 11:35*	*100*

Client Sample ID: TB-12.21.18
Date Collected: 12/21/18 00:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/03/19 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*01/03/19 02:54*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*01/03/19 02:54*	*1*
Toluene-d8 (Surr)	*92*		*80 - 128*		*01/03/19 02:54*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90505-1
SDG: Brisbane OU2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: DG-R15S-3.5-4
Date Collected: 12/21/18 11:50
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1600	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,1,1,2-Tetrachloroethane	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,1,1-Trichloroethane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,1,2,2-Tetrachloroethane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,1,2-Trichloroethane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,1-Dichloroethane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,1-Dichloroethene	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,1-Dichloropropene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,2,3-Trichlorobenzene	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,2,4-Trichlorobenzene	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,2,4-Trimethylbenzene	**11000**		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,2-Dibromo-3-Chloropropane	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,2-Dichlorobenzene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,2-Dichloroethane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,2-Dichloropropane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,3,5-Trimethylbenzene	**6000**		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,3-Dichlorobenzene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,3-Dichloropropane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,4-Dichlorobenzene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
2,2-Dichloropropane	ND		650	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
2-Chlorotoluene	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
2-Hexanone	ND		4100	1600	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
4-Chlorotoluene	ND		810	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
4-Isopropyltoluene	**2000**		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Benzene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Bromobenzene	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Bromoform	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Bromomethane	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Carbon disulfide	ND		810	410	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Carbon tetrachloride	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Chlorobenzene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Chlorobromomethane	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Chloroethane	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Chloroform	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Chloromethane	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
cis-1,2-Dichloroethene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
cis-1,3-Dichloropropene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Chlorodibromomethane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Dibromomethane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Dichlorobromomethane	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Dichlorodifluoromethane	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Ethylbenzene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Hexachlorobutadiene	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Isopropylbenzene	**970**		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Methylene Chloride	ND		3200	1600	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Methyl tert-butyl ether	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Naphthalene	**2900**		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
n-Butylbenzene	**1700**		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
N-Propylbenzene	**1600**		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: DG-R15S-3.5-4
Date Collected: 12/21/18 11:50
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**1600**		810	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Styrene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
tert-Butylbenzene	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Tetrachloroethene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Toluene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
trans-1,2-Dichloroethene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
trans-1,3-Dichloropropene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Trichloroethene	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Trichlorofluoromethane	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1600	650	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Vinyl acetate	ND		1600	810	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Vinyl chloride	ND		810	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Xylenes, Total	**2200**		650	320	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
Ethylene Dibromide	ND		320	160	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
2-Butanone (MEK)	ND		3200	1600	ug/Kg		12/26/18 13:22	01/03/19 11:35	100
4-Methyl-2-pentanone (MIBK)	ND		1600	650	ug/Kg		12/26/18 13:22	01/03/19 11:35	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*115*		*60 - 140*	*12/26/18 13:22*	*01/03/19 11:35*	*100*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 140*	*12/26/18 13:22*	*01/03/19 11:35*	*100*

Client Sample ID: TB-12.21.18
Date Collected: 12/21/18 00:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Acetone	ND		20	10	ug/L			01/03/19 02:54	1
Benzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Bromobenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Bromoform	ND		1.0	0.40	ug/L			01/03/19 02:54	1
Bromomethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/03/19 02:54	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/03/19 02:54	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/03/19 02:54	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Chloroethane	ND		1.0	0.40	ug/L			01/03/19 02:54	1
Chloroform	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Chloromethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/03/19 02:54	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-12.21.18
Date Collected: 12/21/18 00:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/03/19 02:54	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Dibromomethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/03/19 02:54	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,2-Dichloropropane	ND	*	0.50	0.25	ug/L			01/03/19 02:54	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
2-Hexanone	ND		5.0	2.5	ug/L			01/03/19 02:54	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/03/19 02:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/03/19 02:54	1
Naphthalene	ND		1.0	0.40	ug/L			01/03/19 02:54	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Styrene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Toluene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/03/19 02:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/03/19 02:54	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Trichloroethene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/03/19 02:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/03/19 02:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/03/19 02:54	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/03/19 02:54	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/03/19 02:54	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/03/19 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*01/03/19 02:54*	*1*
Toluene-d8 (Surr)	*92*		*80 - 128*		*01/03/19 02:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: DG-U13S-7.5-8
Date Collected: 12/21/18 09:20
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	98	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Acenaphthene	ND		98	55	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Acenaphthylene	ND		98	47	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Anthracene	**44**	**J**	98	39	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Benzo[a]anthracene	**45**	**J**	98	29	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Benzo[a]pyrene	**86**	**J B**	98	37	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Benzo[b]fluoranthene	**92**	**J B**	98	41	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Benzo[g,h,i]perylene	ND		98	84	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Benzo[k]fluoranthene	ND		98	41	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Chrysene	**200**		98	28	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Dibenz(a,h)anthracene	ND		98	69	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Fluoranthene	**29**	**J**	98	28	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Fluorene	ND		98	43	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Indeno[1,2,3-cd]pyrene	ND		98	83	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Naphthalene	ND		98	69	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Phenanthrene	**37**	**J**	98	35	ug/Kg		12/28/18 09:07	12/31/18 17:50	20
Pyrene	**280**		98	33	ug/Kg		12/28/18 09:07	12/31/18 17:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*33 - 120*	*12/28/18 09:07*	*12/31/18 17:50*	*20*
Terphenyl-d14	*77*		*35 - 146*	*12/28/18 09:07*	*12/31/18 17:50*	*20*

Client Sample ID: DG-R15S-3.5-4
Date Collected: 12/21/18 11:50
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		980	490	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Acenaphthene	ND		490	280	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Acenaphthylene	ND		490	240	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Anthracene	**710**		490	200	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Benzo[a]anthracene	**320**	**J**	490	150	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Benzo[a]pyrene	**480**	**J B**	490	190	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Benzo[b]fluoranthene	**700**	**B**	490	210	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Benzo[g,h,i]perylene	ND		490	420	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Benzo[k]fluoranthene	ND		490	210	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Chrysene	**1100**		490	140	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Dibenz(a,h)anthracene	ND		490	340	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Fluoranthene	**190**	**J**	490	140	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Fluorene	ND		490	220	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Indeno[1,2,3-cd]pyrene	ND		490	410	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Naphthalene	**1000**		490	340	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Phenanthrene	**1000**		490	180	ug/Kg		12/28/18 09:07	01/02/19 12:06	20
Pyrene	**940**		490	170	ug/Kg		12/28/18 09:07	01/02/19 12:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*33 - 120*	*12/28/18 09:07*	*01/02/19 12:06*	*20*
Terphenyl-d14	*84*		*35 - 146*	*12/28/18 09:07*	*01/02/19 12:06*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: DG-U13S-7.5-8
Date Collected: 12/21/18 09:20
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1100		20	7.4	mg/Kg		12/27/18 10:55	12/28/18 21:47	10
Motor Oil Range Organics [C24-C36]	2700		490	98	mg/Kg		12/27/18 10:55	12/28/18 21:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/27/18 10:55*	*12/28/18 21:47*	*10*

Client Sample ID: DG-R15S-3.5-4
Date Collected: 12/21/18 11:50
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90505-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10000		200	74	mg/Kg		12/27/18 10:55	12/28/18 20:59	100
Motor Oil Range Organics [C24-C36]	29000		5000	990	mg/Kg		12/27/18 10:55	12/28/18 20:59	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*12/27/18 10:55*	*12/28/18 20:59*	*100*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90505-1
SDG: Brisbane OU2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)
720-90505-2	DG-R15S-3.5-4	115	87
LCS 440-520487/5	Lab Control Sample	110	82
LCSD 440-520487/6	Lab Control Sample Dup	108	84
MB 440-520487/4	Method Blank	111	90

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-228523-C-6 MS	Matrix Spike	126	88
440-228523-C-6 MSD	Matrix Spike Duplicate	101	87
720-90505-3	TB-12.21.18	114	92
LCS 440-520445/6	Lab Control Sample	107	88
MB 440-520445/5	Method Blank	101	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
720-90505-2	DG-R15S-3.5-4	96	102	115
LCS 440-520488/7	Lab Control Sample	98	98	112
LCSD 440-520488/8	Lab Control Sample Dup	98	104	110
MB 440-520488/4	Method Blank	97	101	111

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-228523-C-6 MS	Matrix Spike	104	94	88
440-228523-C-6 MSD	Matrix Spike Duplicate	100	105	87
720-90505-3	TB-12.21.18	94	107	92

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
LCS 440-520446/7	Lab Control Sample	98	112	93
MB 440-520446/5	Method Blank	98	109	92

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-90505-1	DG-U13S-7.5-8	55	77
720-90505-2	DG-R15S-3.5-4	50	84
720-90529-A-1-D MS	Matrix Spike	57	82
720-90529-A-1-E MSD	Matrix Spike Duplicate	56	83
LCS 720-257713/2-A	Lab Control Sample	60	88
MB 720-257713/1-A	Method Blank	63	89

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPH1
Lab Sample ID	Client Sample ID	(40-130)
720-90505-1	DG-U13S-7.5-8	0 X D
720-90505-2	DG-R15S-3.5-4	0 X D
720-90512-A-1-O MS	Matrix Spike	93
720-90512-A-1-P MSD	Matrix Spike Duplicate	113
LCS 720-257665/2-A	Lab Control Sample	103
MB 720-257665/1-A	Method Blank	101

Surrogate Legend

TPH = p-Terphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-520445/5
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			01/02/19 20:27	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Benzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Bromobenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/02/19 20:27	1
Bromoform	ND		1.0	0.40	ug/L			01/02/19 20:27	1
Bromomethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/02/19 20:27	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Chloroethane	ND		1.0	0.40	ug/L			01/02/19 20:27	1
Chloroform	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Chloromethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Dibromomethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
2-Hexanone	ND		5.0	2.5	ug/L			01/02/19 20:27	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/02/19 20:27	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/02/19 20:27	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Naphthalene	ND		1.0	0.40	ug/L			01/02/19 20:27	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/02/19 20:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/02/19 20:27	1
Styrene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/02/19 20:27	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-520445/5
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Toluene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/02/19 20:27	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Trichloroethene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/02/19 20:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/02/19 20:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/02/19 20:27	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/02/19 20:27	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/02/19 20:27	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/02/19 20:27	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/02/19 20:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/02/19 20:27	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/02/19 20:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*01/02/19 20:27*	*1*
Toluene-d8 (Surr)	*92*		*80 - 128*		*01/02/19 20:27*	*1*

Lab Sample ID: LCS 440-520445/6
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	32.1		ug/L		128	10 - 150
2-Chlorotoluene	25.0	24.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	25.0	24.6		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	22.7		ug/L		91	70 - 130
Benzene	25.0	26.3		ug/L		105	68 - 130
1,1-Dichloropropene	25.0	27.0		ug/L		108	70 - 130
Bromobenzene	25.0	26.8		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.1		ug/L		92	52 - 140
Bromoform	25.0	24.0		ug/L		96	60 - 148
Bromomethane	25.0	22.8		ug/L		91	64 - 139
Carbon disulfide	25.0	24.7		ug/L		99	52 - 136
Carbon tetrachloride	25.0	28.1		ug/L		113	60 - 150
1,1-Dichloroethane	25.0	29.0		ug/L		116	64 - 130
Chlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	33.2		ug/L		133	57 - 138
Chlorobromomethane	25.0	22.3		ug/L		89	70 - 130
1,1-Dichloroethene	25.0	25.1		ug/L		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-520445/6
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	25.0	28.9		ug/L		115	64 - 135
Chloroform	25.0	24.3		ug/L		97	70 - 130
Chloromethane	25.0	24.9		ug/L		99	47 - 140
1,2-Dichloropropane	25.0	32.8	*	ug/L		131	67 - 130
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 133
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 133
Chlorodibromomethane	25.0	22.6		ug/L		90	69 - 145
Dibromomethane	25.0	28.6		ug/L		115	70 - 130
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 132
2-Hexanone	25.0	21.5		ug/L		86	10 - 150
Dichlorodifluoromethane	25.0	26.2		ug/L		105	29 - 150
Ethylbenzene	25.0	23.0		ug/L		92	70 - 130
4-Isopropyltoluene	25.0	26.4		ug/L		106	70 - 132
Hexachlorobutadiene	25.0	24.4		ug/L		98	10 - 150
Isopropylbenzene	25.0	24.1		ug/L		96	70 - 136
Methylene Chloride	25.0	24.4		ug/L		97	52 - 130
Methyl tert-butyl ether	25.0	25.5		ug/L		102	63 - 131
Naphthalene	25.0	25.3		ug/L		101	60 - 140
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	60 - 141
n-Butylbenzene	25.0	24.8		ug/L		99	65 - 150
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	63 - 130
N-Propylbenzene	25.0	25.7		ug/L		103	67 - 139
sec-Butylbenzene	25.0	26.0		ug/L		104	70 - 138
1,2,3-Trichlorobenzene	25.0	26.8		ug/L		107	60 - 140
Styrene	25.0	22.6		ug/L		90	70 - 134
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	60 - 140
tert-Butylbenzene	25.0	26.0		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
Tetrachloroethene	25.0	22.9		ug/L		92	70 - 130
1,1,2-Trichloroethane	25.0	22.5		ug/L		90	70 - 130
Toluene	25.0	23.9		ug/L		96	70 - 130
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	63 - 130
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 132
Trichloroethene	25.0	31.3		ug/L		125	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 135
Trichlorofluoromethane	25.0	26.1		ug/L		104	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.9		ug/L		108	60 - 140
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 136
Vinyl acetate	25.0	34.6		ug/L		139	48 - 140
Vinyl chloride	25.0	28.7		ug/L		115	59 - 133
m-Xylene & p-Xylene	25.0	23.9		ug/L		96	70 - 130
Ethylene Dibromide	25.0	22.9		ug/L		92	70 - 130
o-Xylene	25.0	23.7		ug/L		95	70 - 130
2-Butanone (MEK)	25.0	27.3		ug/L		109	44 - 150
4-Methyl-2-pentanone (MIBK)	25.0	21.5		ug/L		86	59 - 149
2,2-Dichloropropane	25.0	25.5		ug/L		102	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-520445/6
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*88*		*80 - 128*

Lab Sample ID: 440-228523-C-6 MS
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	35.8		ug/L		143	10 - 150
2-Chlorotoluene	ND		25.0	24.3		ug/L		97	70 - 130
1,2-Dichlorobenzene	ND		25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	ND		25.0	24.6		ug/L		98	70 - 130
4-Chlorotoluene	ND		25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.9		ug/L		99	70 - 130
1,3-Dichloropropane	ND		25.0	24.4		ug/L		97	70 - 130
Benzene	ND		25.0	28.7		ug/L		115	66 - 130
1,1-Dichloropropene	ND		25.0	29.6		ug/L		118	64 - 130
Bromobenzene	ND		25.0	26.3		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	22.2		ug/L		89	48 - 140
Bromoform	ND		25.0	24.4		ug/L		97	59 - 150
Bromomethane	ND		25.0	28.3		ug/L		113	62 - 131
Carbon disulfide	ND		25.0	29.8		ug/L		119	49 - 140
Carbon tetrachloride	ND		25.0	30.1		ug/L		120	60 - 150
1,1-Dichloroethane	ND	F1	25.0	33.0	F1	ug/L		132	65 - 130
Chlorobenzene	ND		25.0	23.9		ug/L		96	70 - 130
1,2-Dichloroethane	ND	F2 F1	25.0	36.7	F1	ug/L		147	56 - 146
Chlorobromomethane	ND		25.0	27.2		ug/L		109	70 - 130
1,1-Dichloroethene	ND		25.0	29.4		ug/L		117	70 - 130
Chloroethane	ND	F1	25.0	32.7	F1	ug/L		131	68 - 130
Chloroform	ND		25.0	28.4		ug/L		113	70 - 130
Chloromethane	ND		25.0	29.2		ug/L		117	39 - 144
1,2-Dichloropropane	ND	F1 *	25.0	37.3	F1	ug/L		149	69 - 130
cis-1,2-Dichloroethene	ND		25.0	30.5		ug/L		122	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.6		ug/L		111	70 - 133
Chlorodibromomethane	ND		25.0	24.2		ug/L		97	70 - 148
Dibromomethane	ND		25.0	29.4		ug/L		117	70 - 130
Dichlorobromomethane	ND		25.0	27.4		ug/L		110	70 - 138
2-Hexanone	ND	F2	25.0	36.6		ug/L		146	10 - 150
Dichlorodifluoromethane	ND		25.0	29.3		ug/L		117	25 - 142
Ethylbenzene	ND		25.0	24.3		ug/L		97	70 - 130
4-Isopropyltoluene	ND		25.0	25.5		ug/L		102	70 - 130
Hexachlorobutadiene	ND		25.0	24.1		ug/L		97	10 - 150
Isopropylbenzene	ND		25.0	27.1		ug/L		108	70 - 132
Methylene Chloride	ND		25.0	26.5		ug/L		106	52 - 130
Methyl tert-butyl ether	1.3		25.0	31.5		ug/L		121	70 - 130
Naphthalene	ND		25.0	25.2		ug/L		101	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	25.6		ug/L		102	60 - 149
n-Butylbenzene	ND		25.0	24.2		ug/L		97	61 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228523-C-6 MS
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	ND		25.0	20.0		ug/L		80	63 - 130
N-Propylbenzene	ND		25.0	24.7		ug/L		99	66 - 135
sec-Butylbenzene	ND		25.0	25.2		ug/L		101	67 - 134
1,2,3-Trichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140
Styrene	ND		25.0	22.7		ug/L		91	29 - 150
1,2,4-Trichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140
tert-Butylbenzene	ND		25.0	25.1		ug/L		100	70 - 130
1,1,1-Trichloroethane	ND		25.0	29.3		ug/L		117	70 - 130
Tetrachloroethene	ND		25.0	22.2		ug/L		89	70 - 137
1,1,2-Trichloroethane	ND		25.0	24.2		ug/L		97	70 - 130
Toluene	ND		25.0	24.1		ug/L		96	70 - 130
trans-1,2-Dichloroethene	ND		25.0	30.8		ug/L		123	70 - 130
1,2,3-Trichloropropane	ND		25.0	23.7		ug/L		95	60 - 130
trans-1,3-Dichloropropene	ND		25.0	26.9		ug/L		108	70 - 138
Trichloroethene	ND		25.0	26.7		ug/L		107	70 - 130
1,2,4-Trimethylbenzene	ND		25.0	24.0		ug/L		96	70 - 130
Trichlorofluoromethane	ND		25.0	29.5		ug/L		118	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	30.8		ug/L		123	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	24.8		ug/L		99	70 - 130
Vinyl acetate	ND	F2 F1	25.0	40.2	F1	ug/L		161	23 - 150
Vinyl chloride	ND		25.0	32.8		ug/L		131	50 - 137
m-Xylene & p-Xylene	ND		25.0	24.2		ug/L		97	70 - 133
Ethylene Dibromide	ND		25.0	24.7		ug/L		99	70 - 131
o-Xylene	ND		25.0	24.3		ug/L		97	70 - 133
2-Butanone (MEK)	ND		25.0	30.0		ug/L		120	48 - 140
4-Methyl-2-pentanone (MIBK)	ND	F2	25.0	35.8		ug/L		143	52 - 150
2,2-Dichloropropane	ND		25.0	29.3		ug/L		117	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*
Toluene-d8 (Surr)	*88*		*80 - 128*

Lab Sample ID: 440-228523-C-6 MSD
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	27.5		ug/L		110	10 - 150	26	35
2-Chlorotoluene	ND		25.0	24.3		ug/L		97	70 - 130	0	20
1,2-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	25.1		ug/L		100	70 - 130	2	20
4-Chlorotoluene	ND		25.0	24.7		ug/L		99	70 - 130	4	20
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	21.4		ug/L		86	70 - 130	13	25
Benzene	ND		25.0	28.0		ug/L		112	66 - 130	3	20
1,1-Dichloropropene	ND		25.0	29.0		ug/L		116	64 - 130	2	20
Bromobenzene	ND		25.0	26.8		ug/L		107	70 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228523-C-6 MSD
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		25.0	23.4		ug/L		94	48 - 140	5	30
Bromoform	ND		25.0	23.3		ug/L		93	59 - 150	4	25
Bromomethane	ND		25.0	24.3		ug/L		97	62 - 131	15	25
Carbon disulfide	ND		25.0	29.0		ug/L		116	49 - 140	3	20
Carbon tetrachloride	ND		25.0	28.6		ug/L		115	60 - 150	5	25
1,1-Dichloroethane	ND	F1	25.0	28.0		ug/L		112	65 - 130	16	20
Chlorobenzene	ND		25.0	23.3		ug/L		93	70 - 130	3	20
1,2-Dichloroethane	ND	F2 F1	25.0	27.8	F2	ug/L		111	56 - 146	28	20
Chlorobromomethane	ND		25.0	28.0		ug/L		112	70 - 130	3	25
1,1-Dichloroethene	ND		25.0	30.3		ug/L		121	70 - 130	3	20
Chloroethane	ND	F1	25.0	27.2		ug/L		109	68 - 130	18	25
Chloroform	ND		25.0	26.1		ug/L		104	70 - 130	8	20
Chloromethane	ND		25.0	24.2		ug/L		97	39 - 144	19	25
1,2-Dichloropropane	ND	F1 *	25.0	31.4		ug/L		126	69 - 130	17	20
cis-1,2-Dichloroethene	ND		25.0	29.6		ug/L		118	70 - 130	3	20
cis-1,3-Dichloropropene	ND		25.0	25.2		ug/L		101	70 - 133	9	20
Chlorodibromomethane	ND		25.0	23.0		ug/L		92	70 - 148	5	25
Dibromomethane	ND		25.0	27.5		ug/L		110	70 - 130	7	25
Dichlorobromomethane	ND		25.0	25.4		ug/L		101	70 - 138	8	20
2-Hexanone	ND	F2	25.0	22.4	F2	ug/L		90	10 - 150	48	35
Dichlorodifluoromethane	ND		25.0	24.3		ug/L		97	25 - 142	19	30
Ethylbenzene	ND		25.0	22.8		ug/L		91	70 - 130	6	20
4-Isopropyltoluene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
Hexachlorobutadiene	ND		25.0	24.5		ug/L		98	10 - 150	2	20
Isopropylbenzene	ND		25.0	24.1		ug/L		96	70 - 132	12	20
Methylene Chloride	ND		25.0	26.7		ug/L		107	52 - 130	1	20
Methyl tert-butyl ether	1.3		25.0	29.6		ug/L		113	70 - 130	6	25
Naphthalene	ND		25.0	25.0		ug/L		100	60 - 140	1	30
1,1,1,2-Tetrachloroethane	ND		25.0	24.5		ug/L		98	60 - 149	4	20
n-Butylbenzene	ND		25.0	24.8		ug/L		99	61 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.4		ug/L		98	63 - 130	20	30
N-Propylbenzene	ND		25.0	25.4		ug/L		102	66 - 135	3	20
sec-Butylbenzene	ND		25.0	25.5		ug/L		102	67 - 134	1	20
1,2,3-Trichlorobenzene	ND		25.0	27.5		ug/L		110	60 - 140	5	20
Styrene	ND		25.0	21.4		ug/L		86	29 - 150	6	35
1,2,4-Trichlorobenzene	ND		25.0	26.0		ug/L		104	60 - 140	1	20
tert-Butylbenzene	ND		25.0	25.5		ug/L		102	70 - 130	2	20
1,1,1-Trichloroethane	ND		25.0	27.9		ug/L		112	70 - 130	5	20
Tetrachloroethene	ND		25.0	24.0		ug/L		96	70 - 137	8	20
1,1,2-Trichloroethane	ND		25.0	23.0		ug/L		92	70 - 130	5	25
Toluene	ND		25.0	23.8		ug/L		95	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	32.4		ug/L		130	70 - 130	5	20
1,2,3-Trichloropropane	ND		25.0	27.3		ug/L		109	60 - 130	14	30
trans-1,3-Dichloropropene	ND		25.0	23.6		ug/L		94	70 - 138	13	25
Trichloroethene	ND		25.0	28.0		ug/L		112	70 - 130	5	20
1,2,4-Trimethylbenzene	ND		25.0	23.8		ug/L		95	70 - 130	1	25
Trichlorofluoromethane	ND		25.0	24.7		ug/L		99	60 - 150	18	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-228523-C-6 MSD
Matrix: Water
Analysis Batch: 520445

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	30.9		ug/L		124	60 - 140	1	20
1,3,5-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130	0	20
Vinyl acetate	ND	F2 F1	25.0	25.2	F2	ug/L		101	23 - 150	46	30
Vinyl chloride	ND		25.0	26.4		ug/L		106	50 - 137	22	30
m-Xylene & p-Xylene	ND		25.0	23.9		ug/L		95	70 - 133	1	25
Ethylene Dibromide	ND		25.0	23.0		ug/L		92	70 - 131	7	25
o-Xylene	ND		25.0	23.9		ug/L		96	70 - 133	2	20
2-Butanone (MEK)	ND		25.0	31.8		ug/L		127	48 - 140	6	40
4-Methyl-2-pentanone (MIBK)	ND	F2	25.0	21.5	F2	ug/L		86	52 - 150	50	35
2,2-Dichloropropane	ND		25.0	26.5		ug/L		106	69 - 138	10	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*87*		*80 - 128*

Lab Sample ID: MB 440-520487/4
Matrix: Solid
Analysis Batch: 520487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		250	100	ug/Kg			01/03/19 08:45	100
1,2-Dichlorobenzene	ND		100	50	ug/Kg			01/03/19 08:45	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			01/03/19 08:45	100
4-Chlorotoluene	ND		250	50	ug/Kg			01/03/19 08:45	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			01/03/19 08:45	100
1,3-Dichloropropane	ND		100	50	ug/Kg			01/03/19 08:45	100
Benzene	ND		100	50	ug/Kg			01/03/19 08:45	100
1,1-Dichloropropene	ND		100	50	ug/Kg			01/03/19 08:45	100
Bromobenzene	ND		250	100	ug/Kg			01/03/19 08:45	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			01/03/19 08:45	100
Bromoform	ND		250	100	ug/Kg			01/03/19 08:45	100
Bromomethane	ND		250	100	ug/Kg			01/03/19 08:45	100
Carbon disulfide	ND		250	130	ug/Kg			01/03/19 08:45	100
Carbon tetrachloride	ND		250	100	ug/Kg			01/03/19 08:45	100
1,1-Dichloroethane	ND		100	50	ug/Kg			01/03/19 08:45	100
Chlorobenzene	ND		100	50	ug/Kg			01/03/19 08:45	100
1,2-Dichloroethane	ND		100	50	ug/Kg			01/03/19 08:45	100
Chlorobromomethane	ND		250	100	ug/Kg			01/03/19 08:45	100
1,1-Dichloroethene	ND		250	100	ug/Kg			01/03/19 08:45	100
Chloroethane	ND		250	100	ug/Kg			01/03/19 08:45	100
Chloroform	ND		100	50	ug/Kg			01/03/19 08:45	100
Chloromethane	ND		250	100	ug/Kg			01/03/19 08:45	100
1,2-Dichloropropane	ND		100	50	ug/Kg			01/03/19 08:45	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			01/03/19 08:45	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			01/03/19 08:45	100
Chlorodibromomethane	ND		100	50	ug/Kg			01/03/19 08:45	100
Dibromomethane	ND		100	50	ug/Kg			01/03/19 08:45	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-520487/4
Matrix: Solid
Analysis Batch: 520487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		100	50	ug/Kg			01/03/19 08:45	100
2-Hexanone	ND		1300	500	ug/Kg			01/03/19 08:45	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			01/03/19 08:45	100
Ethylbenzene	ND		100	50	ug/Kg			01/03/19 08:45	100
4-Isopropyltoluene	ND		100	50	ug/Kg			01/03/19 08:45	100
Hexachlorobutadiene	ND		250	100	ug/Kg			01/03/19 08:45	100
Isopropylbenzene	ND		100	50	ug/Kg			01/03/19 08:45	100
Methylene Chloride	ND		1000	500	ug/Kg			01/03/19 08:45	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			01/03/19 08:45	100
Naphthalene	ND		250	100	ug/Kg			01/03/19 08:45	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			01/03/19 08:45	100
n-Butylbenzene	ND		250	100	ug/Kg			01/03/19 08:45	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			01/03/19 08:45	100
N-Propylbenzene	ND		100	50	ug/Kg			01/03/19 08:45	100
sec-Butylbenzene	ND		250	50	ug/Kg			01/03/19 08:45	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			01/03/19 08:45	100
Styrene	ND		100	50	ug/Kg			01/03/19 08:45	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			01/03/19 08:45	100
tert-Butylbenzene	ND		250	100	ug/Kg			01/03/19 08:45	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			01/03/19 08:45	100
Tetrachloroethene	ND		100	50	ug/Kg			01/03/19 08:45	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			01/03/19 08:45	100
Toluene	ND		100	50	ug/Kg			01/03/19 08:45	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			01/03/19 08:45	100
1,2,3-Trichloropropane	ND		500	100	ug/Kg			01/03/19 08:45	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			01/03/19 08:45	100
Trichloroethene	ND		100	50	ug/Kg			01/03/19 08:45	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			01/03/19 08:45	100
Trichlorofluoromethane	ND		250	100	ug/Kg			01/03/19 08:45	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			01/03/19 08:45	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			01/03/19 08:45	100
Vinyl acetate	ND		500	250	ug/Kg			01/03/19 08:45	100
Vinyl chloride	ND		250	100	ug/Kg			01/03/19 08:45	100
Ethylene Dibromide	ND		100	50	ug/Kg			01/03/19 08:45	100
2-Butanone (MEK)	ND		1000	500	ug/Kg			01/03/19 08:45	100
Xylenes, Total	ND		200	100	ug/Kg			01/03/19 08:45	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			01/03/19 08:45	100
2,2-Dichloropropane	ND		200	100	ug/Kg			01/03/19 08:45	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*		*01/03/19 08:45*	*100*
Toluene-d8 (Surr)	*111*		*60 - 140*		*01/03/19 08:45*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-520487/5
Matrix: Solid
Analysis Batch: 520487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	2500	2290		ug/Kg		91	70 - 125
1,2-Dichlorobenzene	2500	2470		ug/Kg		99	70 - 120
1,3-Dichlorobenzene	2500	2420		ug/Kg		97	70 - 125
4-Chlorotoluene	2500	2410		ug/Kg		96	70 - 125
1,4-Dichlorobenzene	2500	2510		ug/Kg		100	70 - 125
1,3-Dichloropropane	2500	2450		ug/Kg		98	65 - 130
Benzene	2500	2430		ug/Kg		97	65 - 120
1,1-Dichloropropene	2500	2550		ug/Kg		102	70 - 130
Bromobenzene	2500	2600		ug/Kg		104	70 - 120
1,2-Dibromo-3-Chloropropane	2500	1890		ug/Kg		76	45 - 135
Bromoform	2500	2360		ug/Kg		94	50 - 130
Bromomethane	2500	1260		ug/Kg		50	30 - 140
Carbon disulfide	2500	2250		ug/Kg		90	50 - 130
Carbon tetrachloride	2500	2270		ug/Kg		91	65 - 145
1,1-Dichloroethane	2500	2260		ug/Kg		90	65 - 130
Chlorobenzene	2500	2490		ug/Kg		99	70 - 125
1,2-Dichloroethane	2500	2060		ug/Kg		82	60 - 145
Chlorobromomethane	2500	2390		ug/Kg		95	65 - 125
1,1-Dichloroethene	2500	2470		ug/Kg		99	75 - 140
Chloroethane	2500	1300		ug/Kg		52	40 - 140
Chloroform	2500	2220		ug/Kg		89	75 - 130
Chloromethane	2500	911		ug/Kg		36	30 - 140
1,2-Dichloropropane	2500	2450		ug/Kg		98	75 - 125
cis-1,2-Dichloroethene	2500	2420		ug/Kg		97	65 - 130
cis-1,3-Dichloropropene	2500	2690		ug/Kg		108	70 - 130
Chlorodibromomethane	2500	2400		ug/Kg		96	65 - 140
Dibromomethane	2500	2260		ug/Kg		91	65 - 130
Dichlorobromomethane	2500	2230		ug/Kg		89	65 - 135
2-Hexanone	2500	1760		ug/Kg		70	35 - 140
Dichlorodifluoromethane	2500	356		ug/Kg		14	10 - 155
Ethylbenzene	2500	2480		ug/Kg		99	80 - 120
4-Isopropyltoluene	2500	2470		ug/Kg		99	70 - 125
Hexachlorobutadiene	2500	2230		ug/Kg		89	60 - 135
Isopropylbenzene	2500	2540		ug/Kg		101	70 - 125
Methylene Chloride	2500	2330		ug/Kg		93	60 - 140
Methyl tert-butyl ether	2500	2120		ug/Kg		85	55 - 145
Naphthalene	2500	2120		ug/Kg		85	50 - 140
1,1,1,2-Tetrachloroethane	2500	2480		ug/Kg		99	70 - 140
n-Butylbenzene	2500	2470		ug/Kg		99	70 - 130
1,1,2,2-Tetrachloroethane	2500	2260		ug/Kg		91	55 - 135
N-Propylbenzene	2500	2570		ug/Kg		103	70 - 130
sec-Butylbenzene	2500	2400		ug/Kg		96	70 - 125
1,2,3-Trichlorobenzene	2500	2270		ug/Kg		91	60 - 135
Styrene	2500	2380		ug/Kg		95	70 - 135
1,2,4-Trichlorobenzene	2500	2270		ug/Kg		91	65 - 135
tert-Butylbenzene	2500	2370		ug/Kg		95	70 - 125
1,1,1-Trichloroethane	2500	2230		ug/Kg		89	65 - 140
Tetrachloroethene	2500	2910		ug/Kg		116	65 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-520487/5
Matrix: Solid
Analysis Batch: 520487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	2500	2620		ug/Kg		105	65 - 130
Toluene	2500	2600		ug/Kg		104	80 - 120
trans-1,2-Dichloroethene	2500	2470		ug/Kg		99	65 - 130
1,2,3-Trichloropropane	2500	2150		ug/Kg		86	55 - 130
trans-1,3-Dichloropropene	2500	2440		ug/Kg		97	65 - 135
Trichloroethene	2500	2560		ug/Kg		102	70 - 130
1,2,4-Trimethylbenzene	2500	2380		ug/Kg		95	70 - 125
Trichlorofluoromethane	2500	1660		ug/Kg		67	50 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2280		ug/Kg		91	60 - 140
1,3,5-Trimethylbenzene	2500	2380		ug/Kg		95	70 - 125
Vinyl acetate	2500	1850		ug/Kg		74	25 - 145
Vinyl chloride	2500	993		ug/Kg		40	10 - 120
m-Xylene & p-Xylene	2500	2630		ug/Kg		105	70 - 125
Ethylene Dibromide	2500	2480		ug/Kg		99	70 - 130
o-Xylene	2500	2530		ug/Kg		101	70 - 125
2-Butanone (MEK)	2500	1980		ug/Kg		79	40 - 145
4-Methyl-2-pentanone (MIBK)	2500	2100		ug/Kg		84	40 - 145
2,2-Dichloropropane	2500	2240		ug/Kg		90	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 140*
Toluene-d8 (Surr)	*110*		*60 - 140*

Lab Sample ID: LCSD 440-520487/6
Matrix: Solid
Analysis Batch: 520487

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	2500	2360		ug/Kg		94	70 - 125	3	20
1,2-Dichlorobenzene	2500	2570		ug/Kg		103	70 - 120	4	20
1,3-Dichlorobenzene	2500	2510		ug/Kg		101	70 - 125	4	20
4-Chlorotoluene	2500	2460		ug/Kg		98	70 - 125	2	20
1,4-Dichlorobenzene	2500	2630		ug/Kg		105	70 - 125	5	20
1,3-Dichloropropane	2500	2450		ug/Kg		98	65 - 130	0	20
Benzene	2500	2520		ug/Kg		101	65 - 120	4	20
1,1-Dichloropropene	2500	2580		ug/Kg		103	70 - 130	1	20
Bromobenzene	2500	2720		ug/Kg		109	70 - 120	5	20
1,2-Dibromo-3-Chloropropane	2500	2010		ug/Kg		81	45 - 135	6	25
Bromoform	2500	2370		ug/Kg		95	50 - 130	1	25
Bromomethane	2500	1320		ug/Kg		53	30 - 140	5	30
Carbon disulfide	2500	2200		ug/Kg		88	50 - 130	2	20
Carbon tetrachloride	2500	2290		ug/Kg		91	65 - 145	1	20
1,1-Dichloroethane	2500	2330		ug/Kg		93	65 - 130	3	20
Chlorobenzene	2500	2500		ug/Kg		100	70 - 125	0	20
1,2-Dichloroethane	2500	2150		ug/Kg		86	60 - 145	4	20
Chlorobromomethane	2500	2440		ug/Kg		98	65 - 125	2	20
1,1-Dichloroethene	2500	2470		ug/Kg		99	75 - 140	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-520487/6
Matrix: Solid
Analysis Batch: 520487

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	2500	1330		ug/Kg		53	40 - 140	2	25
Chloroform	2500	2240		ug/Kg		89	75 - 130	1	20
Chloromethane	2500	926		ug/Kg		37	30 - 140	2	25
1,2-Dichloropropane	2500	2550		ug/Kg		102	75 - 125	4	20
cis-1,2-Dichloroethene	2500	2600		ug/Kg		104	65 - 130	7	20
cis-1,3-Dichloropropene	2500	2710		ug/Kg		109	70 - 130	1	20
Chlorodibromomethane	2500	2460		ug/Kg		98	65 - 140	2	20
Dibromomethane	2500	2390		ug/Kg		96	65 - 130	5	20
Dichlorobromomethane	2500	2310		ug/Kg		92	65 - 135	3	20
2-Hexanone	2500	1930		ug/Kg		77	35 - 140	9	30
Dichlorodifluoromethane	2500	302		ug/Kg		12	10 - 155	16	30
Ethylbenzene	2500	2530		ug/Kg		101	80 - 120	2	20
4-Isopropyltoluene	2500	2450		ug/Kg		98	70 - 125	1	20
Hexachlorobutadiene	2500	2260		ug/Kg		91	60 - 135	1	20
Isopropylbenzene	2500	2530		ug/Kg		101	70 - 125	0	20
Methylene Chloride	2500	2370		ug/Kg		95	60 - 140	2	20
Methyl tert-butyl ether	2500	2220		ug/Kg		89	55 - 145	5	25
Naphthalene	2500	2180		ug/Kg		87	50 - 140	3	25
1,1,1,2-Tetrachloroethane	2500	2470		ug/Kg		99	70 - 140	0	20
n-Butylbenzene	2500	2490		ug/Kg		100	70 - 130	1	20
1,1,2,2-Tetrachloroethane	2500	2320		ug/Kg		93	55 - 135	2	25
N-Propylbenzene	2500	2610		ug/Kg		104	70 - 130	1	20
sec-Butylbenzene	2500	2440		ug/Kg		98	70 - 125	2	20
1,2,3-Trichlorobenzene	2500	2290		ug/Kg		92	60 - 135	1	20
Styrene	2500	2400		ug/Kg		96	70 - 135	1	20
1,2,4-Trichlorobenzene	2500	2350		ug/Kg		94	65 - 135	3	20
tert-Butylbenzene	2500	2410		ug/Kg		97	70 - 125	2	20
1,1,1-Trichloroethane	2500	2250		ug/Kg		90	65 - 140	1	20
Tetrachloroethene	2500	2850		ug/Kg		114	65 - 125	2	20
1,1,2-Trichloroethane	2500	2680		ug/Kg		107	65 - 130	2	20
Toluene	2500	2560		ug/Kg		103	80 - 120	2	20
trans-1,2-Dichloroethene	2500	2610		ug/Kg		104	65 - 130	5	20
1,2,3-Trichloropropane	2500	2350		ug/Kg		94	55 - 130	9	25
trans-1,3-Dichloropropene	2500	2480		ug/Kg		99	65 - 135	2	20
Trichloroethene	2500	2600		ug/Kg		104	70 - 130	2	20
1,2,4-Trimethylbenzene	2500	2470		ug/Kg		99	70 - 125	4	20
Trichlorofluoromethane	2500	1640		ug/Kg		66	50 - 145	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2220		ug/Kg		89	60 - 140	2	40
1,3,5-Trimethylbenzene	2500	2460		ug/Kg		98	70 - 125	3	20
Vinyl acetate	2500	1890		ug/Kg		76	25 - 145	3	25
Vinyl chloride	2500	1060		ug/Kg		42	10 - 120	6	30
m-Xylene & p-Xylene	2500	2660		ug/Kg		106	70 - 125	1	20
Ethylene Dibromide	2500	2470		ug/Kg		99	70 - 130	0	20
o-Xylene	2500	2560		ug/Kg		102	70 - 125	1	20
2-Butanone (MEK)	2500	2110		ug/Kg		84	40 - 145	6	30
4-Methyl-2-pentanone (MIBK)	2500	1950		ug/Kg		78	40 - 145	7	30
2,2-Dichloropropane	2500	2320		ug/Kg		93	60 - 145	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-520487/6
Matrix: Solid
Analysis Batch: 520487

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 140*
Toluene-d8 (Surr)	*108*		*60 - 140*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-520446/5
Matrix: Water
Analysis Batch: 520446

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/02/19 20:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*01/02/19 20:27*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*01/02/19 20:27*	*1*
Toluene-d8 (Surr)	*92*		*80 - 128*		*01/02/19 20:27*	*1*

Lab Sample ID: LCS 440-520446/7
Matrix: Water
Analysis Batch: 520446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	633		ug/L		127	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*76 - 132*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 128*

Lab Sample ID: 440-228523-C-6 MS
Matrix: Water
Analysis Batch: 520446

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	2010		ug/L		117	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*88*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-228523-C-6 MSD
Matrix: Water
Analysis Batch: 520446

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1720		ug/L		100	50 - 145	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*87*		*80 - 128*

Lab Sample ID: MB 440-520488/4
Matrix: Solid
Analysis Batch: 520488

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			01/03/19 08:45	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*55 - 140*		*01/03/19 08:45*	*100*
4-Bromofluorobenzene (Surr)	*101*		*65 - 140*		*01/03/19 08:45*	*100*
Toluene-d8 (Surr)	*111*		*60 - 140*		*01/03/19 08:45*	*100*

Lab Sample ID: LCS 440-520488/7
Matrix: Solid
Analysis Batch: 520488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			50000	58500		ug/Kg		117	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*55 - 140*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*
Toluene-d8 (Surr)	*112*		*60 - 140*

Lab Sample ID: LCSD 440-520488/8
Matrix: Solid
Analysis Batch: 520488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			50000	57700		ug/Kg		115	60 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*55 - 140*
4-Bromofluorobenzene (Surr)	*104*		*65 - 140*
Toluene-d8 (Surr)	*110*		*60 - 140*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-257713/1-A
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Acenaphthene	ND		5.0	2.8	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Anthracene	ND		5.0	2.0	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Benzo[a]pyrene	3.12	J	5.0	1.9	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Benzo[b]fluoranthene	3.26	J	5.0	2.1	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Benzo[k]fluoranthene	2.67	J	5.0	2.1	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Chrysene	ND		5.0	1.4	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Dibenz(a,h)anthracene	3.84	J	5.0	3.5	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Fluoranthene	ND		5.0	1.4	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Fluorene	ND		5.0	2.2	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Naphthalene	ND		5.0	3.5	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Phenanthrene	ND		5.0	1.8	ug/Kg		12/28/18 09:07	12/31/18 13:33	1
Pyrene	ND		5.0	1.7	ug/Kg		12/28/18 09:07	12/31/18 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*12/28/18 09:07*	*12/31/18 13:33*	*1*
Terphenyl-d14	*89*		*35 - 146*	*12/28/18 09:07*	*12/31/18 13:33*	*1*

Lab Sample ID: LCS 720-257713/2-A
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	409		ug/Kg		61	46 - 110
Acenaphthene	667	411		ug/Kg		62	46 - 106
Acenaphthylene	667	456		ug/Kg		68	46 - 108
Anthracene	667	451		ug/Kg		68	55 - 103
Benzo[a]anthracene	667	507		ug/Kg		76	54 - 110
Benzo[a]pyrene	667	509		ug/Kg		76	62 - 111
Benzo[b]fluoranthene	667	493		ug/Kg		74	60 - 109
Benzo[g,h,i]perylene	667	416		ug/Kg		62	52 - 114
Benzo[k]fluoranthene	667	479		ug/Kg		72	58 - 109
Chrysene	667	459		ug/Kg		69	54 - 108
Dibenz(a,h)anthracene	667	464		ug/Kg		70	58 - 112
Fluoranthene	667	499		ug/Kg		75	59 - 109
Fluorene	667	443		ug/Kg		66	52 - 106
Indeno[1,2,3-cd]pyrene	667	476		ug/Kg		71	55 - 120
Naphthalene	667	401		ug/Kg		60	49 - 110
Phenanthrene	667	426		ug/Kg		64	57 - 110
Pyrene	667	520		ug/Kg		78	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*33 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-257713/2-A
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257713

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	*88*		*35 - 146*

Lab Sample ID: 720-90529-A-1-D MS
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		660	386		ug/Kg		58	46 - 110
Acenaphthene	ND		660	396		ug/Kg		60	46 - 106
Acenaphthylene	ND		660	435		ug/Kg		66	46 - 108
Anthracene	ND		660	409		ug/Kg		62	55 - 103
Benzo[a]anthracene	ND		660	475		ug/Kg		72	54 - 110
Benzo[a]pyrene	3.3	J B	660	465		ug/Kg		70	62 - 111
Benzo[b]fluoranthene	4.2	J B	660	467		ug/Kg		70	60 - 109
Benzo[g,h,i]perylene	ND		660	381		ug/Kg		58	52 - 114
Benzo[k]fluoranthene	2.5	J B	660	465		ug/Kg		70	58 - 109
Chrysene	1.8	J	660	431		ug/Kg		65	54 - 108
Dibenz(a,h)anthracene	3.9	J B	660	416		ug/Kg		62	58 - 112
Fluoranthene	1.9	J	660	460		ug/Kg		69	59 - 109
Fluorene	ND		660	429		ug/Kg		65	52 - 106
Indeno[1,2,3-cd]pyrene	ND		660	432		ug/Kg		65	55 - 120
Naphthalene	ND		660	377		ug/Kg		57	49 - 110
Phenanthrene	3.9	J	660	405		ug/Kg		61	57 - 110
Pyrene	2.8	J	660	508		ug/Kg		77	50 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*57*		*33 - 120*
Terphenyl-d14	*82*		*35 - 146*

Lab Sample ID: 720-90529-A-1-E MSD
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		661	377		ug/Kg		57	46 - 110	2	35
Acenaphthene	ND		661	387		ug/Kg		59	46 - 106	2	35
Acenaphthylene	ND		661	425		ug/Kg		64	46 - 108	2	35
Anthracene	ND		661	412		ug/Kg		62	55 - 103	1	35
Benzo[a]anthracene	ND		661	479		ug/Kg		72	54 - 110	1	35
Benzo[a]pyrene	3.3	J B	661	474		ug/Kg		71	62 - 111	2	35
Benzo[b]fluoranthene	4.2	J B	661	504		ug/Kg		76	60 - 109	8	35
Benzo[g,h,i]perylene	ND		661	375		ug/Kg		57	52 - 114	2	35
Benzo[k]fluoranthene	2.5	J B	661	445		ug/Kg		67	58 - 109	4	35
Chrysene	1.8	J	661	439		ug/Kg		66	54 - 108	2	35
Dibenz(a,h)anthracene	3.9	J B	661	413		ug/Kg		62	58 - 112	1	35
Fluoranthene	1.9	J	661	466		ug/Kg		70	59 - 109	1	35
Fluorene	ND		661	424		ug/Kg		64	52 - 106	1	35
Indeno[1,2,3-cd]pyrene	ND		661	426		ug/Kg		65	55 - 120	1	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90529-A-1-E MSD
Matrix: Solid
Analysis Batch: 257793

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		661	368		ug/Kg		56	49 - 110	3	35
Phenanthrene	3.9	J	661	408		ug/Kg		61	57 - 110	1	35
Pyrene	2.8	J	661	513		ug/Kg		77	50 - 120	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*56*		*33 - 120*
Terphenyl-d14	*83*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-257665/1-A
Matrix: Solid
Analysis Batch: 257719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		12/27/18 10:55	12/28/18 18:57	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		12/27/18 10:55	12/28/18 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*12/27/18 10:55*	*12/28/18 18:57*	*1*

Lab Sample ID: LCS 720-257665/2-A
Matrix: Solid
Analysis Batch: 257719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	139		mg/Kg		83	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*103*		*40 - 130*

Lab Sample ID: 720-90512-A-1-O MS
Matrix: Solid
Analysis Batch: 257719

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	9.2		164	120		mg/Kg		68	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*93*		*40 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90512-A-1-P MSD
Matrix: Solid
Analysis Batch: 257719

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	9.2		164	130		mg/Kg		74	50 - 150	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*113*		*40 - 130*

GC/MS VOA

Prep Batch: 519350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-2	DG-R15S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 520445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-3	TB-12.21.18	Total/NA	Water	8260B	
MB 440-520445/5	Method Blank	Total/NA	Water	8260B	
LCS 440-520445/6	Lab Control Sample	Total/NA	Water	8260B	
440-228523-C-6 MS	Matrix Spike	Total/NA	Water	8260B	
440-228523-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 520446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-3	TB-12.21.18	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-520446/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-520446/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-228523-C-6 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-228523-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 520487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-2	DG-R15S-3.5-4	Total/NA	Solid	8260B	519350
MB 440-520487/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-520487/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-520487/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 520488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-2	DG-R15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	519350
MB 440-520488/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-520488/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-520488/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 257713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-1	DG-U13S-7.5-8	Total/NA	Solid	3546	
720-90505-2	DG-R15S-3.5-4	Total/NA	Solid	3546	
MB 720-257713/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257713/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90529-A-1-D MS	Matrix Spike	Total/NA	Solid	3546	
720-90529-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Analysis Batch: 257793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-1	DG-U13S-7.5-8	Total/NA	Solid	8270C SIM	257713
MB 720-257713/1-A	Method Blank	Total/NA	Solid	8270C SIM	257713
LCS 720-257713/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	257713
720-90529-A-1-D MS	Matrix Spike	Total/NA	Solid	8270C SIM	257713
720-90529-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	257713

Analysis Batch: 257858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-2	DG-R15S-3.5-4	Total/NA	Solid	8270C SIM	257713

GC Semi VOA

Prep Batch: 257665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-1	DG-U13S-7.5-8	Total/NA	Solid	3546	
720-90505-2	DG-R15S-3.5-4	Total/NA	Solid	3546	
MB 720-257665/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-257665/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90512-A-1-O MS	Matrix Spike	Total/NA	Solid	3546	
720-90512-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 257719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-1	DG-U13S-7.5-8	Total/NA	Solid	8015B	257665
720-90505-2	DG-R15S-3.5-4	Total/NA	Solid	8015B	257665
MB 720-257665/1-A	Method Blank	Total/NA	Solid	8015B	257665
LCS 720-257665/2-A	Lab Control Sample	Total/NA	Solid	8015B	257665
720-90512-A-1-O MS	Matrix Spike	Total/NA	Solid	8015B	257665
720-90512-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	257665

General Chemistry

Analysis Batch: 257592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90505-1	DG-U13S-7.5-8	Total/NA	Solid	Moisture	
720-90505-2	DG-R15S-3.5-4	Total/NA	Solid	Moisture	
720-90505-1 DU	DG-U13S-7.5-8	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90505-1
SDG: Brisbane OU2

Client Sample ID: DG-U13S-7.5-8

Lab Sample ID: 720-90505-1

Date Collected: 12/21/18 09:20

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			257713	12/28/18 09:07	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	257793	12/31/18 17:50	LPL	TAL PLS
Total/NA	Prep	3546			257665	12/27/18 10:55	RAR	TAL PLS
Total/NA	Analysis	8015B		10	257719	12/28/18 21:47	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-R15S-3.5-4

Lab Sample ID: 720-90505-2

Date Collected: 12/21/18 11:50

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			519350	12/26/18 13:22	DCI	TAL IRV
Total/NA	Analysis	8260B		100	520487	01/03/19 11:35	AYL	TAL IRV
Total/NA	Prep	5035			519350	12/26/18 13:22	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	520488	01/03/19 11:35	AYL	TAL IRV
Total/NA	Prep	3546			257713	12/28/18 09:07	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	257858	01/02/19 12:06	LPL	TAL PLS
Total/NA	Prep	3546			257665	12/27/18 10:55	RAR	TAL PLS
Total/NA	Analysis	8015B		100	257719	12/28/18 20:59	DCH	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: TB-12.21.18

Lab Sample ID: 720-90505-3

Date Collected: 12/21/18 00:00

Matrix: Water

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	520445	01/03/19 02:54	GK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	520446	01/03/19 02:54	GK	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90505-1
SDG: Brisbane OU2

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90505-1
SDG: Brisbane OU2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90505-1
SDG: Brisbane OU2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90505-1	DG-U13S-7.5-8	Solid	12/21/18 09:20	12/21/18 15:35
720-90505-2	DG-R15S-3.5-4	Solid	12/21/18 11:50	12/21/18 15:35
720-90505-3	TB-12.21.18	Water	12/21/18 00:00	12/21/18 15:35

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

720-90505

187547

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/21/18	COC No. 1
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler M. Mahnias
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnias@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			720-90505 Chain of Custody
Project Name Brisbane OU2 Investigation				
Site Brisbane OU2				
P O # WG2619/ TA project # 72013947				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	VOCs (8260B)	SVOCs - PAHs (8270C-SIM)	Dissolved M.D. organics (8015B)	Sample Specific Notes
DG - WI3S - 7.5 - 8	12/21/18	0920	G	S	4	N		X	X	X	X	
DG - RI5S - 3.5 - 4	12/21/18	1150	G	S	4			X	X	X	X	
TB - 122118	12/21/18	—	G	S	2			X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No.: _____		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Mariel Kahnias	Geosyntec	12/21/18 1240		Geosyntec	12/21/18 1240
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	GEOSYNTEC	12/21 1308		TAPLS	12/21/18 1308
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
	TAPLS	12/21/18 1535		TA-PLS	12/21/18 1535

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2.5 | 3C

2/6/2019 (Rev. 1)

T20-90505
FRIDAY TERRA CORES

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC01

FedEx Express Package(s) - Dropped Off
478645740161

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Dec 21, 2018 1:37:41 PM

720-90505
FRIDAY TERRA COATS

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC01

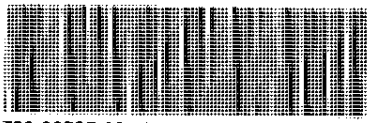
FedEx Express Package(s) - Dropped Off
478645740161

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Dec 21, 2018 1:37:41 PM



720-90505-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

720-90505

187547

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/21/18	COC No: 1
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: M. Downing
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkishiias@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90505 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	VOCs + GRO (8260B)	SVOCs - PAHs (8270D-SIM)	Diesel + M.O. (organics) (8015B)	Sample Specific Notes:
1 DG-U135-7.5-8	12/21/18	0920	G	S	4	N		X	X	X	X	
2 DG-R155-3.5-4	12/21/18	1150	G	S	4				X	X	X	
3 TB-122118	12/21/18		G	S	2				X			

720-90505 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____
Relinquished by: Madeline Downing	Company: Geosyntec	Date/Time: 12/21/18 1240	Received by:	Company: Geosyntec	Date/Time: 12/21/18 1240
Relinquished by:	Company: Geosyntec	Date/Time: 12/21/18 1318	Received by:	Company: TAPES	Date/Time: 12/21/18 1318
Relinquished by:	Company: TAPES	Date/Time: 12/21/18 1535	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12/21/18 1535

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2.5 | 3C

T20-90505
FRIDAY TERRA CORES

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC01

FedEx Express Package(s) - Dropped Off
478645740161

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Dec 21, 2018 1:37:41 PM

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0301	COC No. 720-40629.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90505-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/4/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	HOLD	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-U13S-7.5-8 (720-90505-1)	12/21/18	09:20 Pacific		Solid			X	X			X	3	
DG-R15S-3.5-4 (720-90505-2)	12/21/18	11:50 Pacific		Solid			X	X				3	
TB-122118 (720-90505-3)	12/21/18	Pacific		Water					X	X		2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment	
Relinquished by	Date/Time: 12/26/18 1306	Company: TAPL	Received by	Date/Time: 12/27/18 10:00	Company: TA/PL	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company	
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	4.3/3.8 IR-93		

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90505-1
SDG Number: Brisbane OU2

Login Number: 90505
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90505-1
SDG Number: Brisbane OU2

Login Number: 90505
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/22/18 03:45 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90505-1
SDG Number: Brisbane OU2

Login Number: 90505
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 12/27/18 01:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Bill Chen <BChen@Geosyntec.com>
Sent: Monday, December 24, 2018 4:24 PM
To: Patel, Urvashi; Miranda Kahrilas; Mouton, Alain
Cc: Anthony Smith; Krzysztof Jesionek
Subject: FW: TestAmerica Sample Login Confirmation files from 720-90505 Brisbane OU-2 Data Gap Investigation
Attachments: COC 720-90505 (201812212024).pdf; Std_Tal_Login_Ack for 720-90505-1.pdf; COC 720-90505[02] (201812212200).pdf; Std_Tal_Login_Limits for 720-90505-1.pdf

-External Email-

Urvashi,

Please have sample #3 renamed from "TB-122118" to "TB-12.21.18". We'll remind our samplers of our naming convention, and to have the trip blank media indicated appropriately.

Is the reason sample #2 was placed on hold that there's insufficient sample to run all the requested analyses? Would you be able to run any analyses?

Please advise.

Thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Monday, December 24, 2018 3:34 PM
To: Bill Chen <BChen@Geosyntec.com>; Mouton, Alain <Alain.Mouton@testamericainc.com>
Cc: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: TestAmerica Sample Login Confirmation files from 720-90505 Brisbane OU-2 Data Gap Investigation

Last one.

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bill Chen [mailto:BChen@Geosyntec.com]
Sent: Monday, December 24, 2018 3:25 PM
To: Patel, Urvashi; Mouton, Alain
Cc: Krzysztof Jesionek; Miranda Kahrilas; Anthony Smith
Subject: RE: TestAmerica Sample Login Confirmation files from 720-90505 Brisbane OU-2 Data Gap Investigation

-External Email-

Urvashi,

Same comment: can you please also reattach the COC, login summary acknowledgement, and limits sheets?

Many thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Monday, December 24, 2018 2:52 PM
To: Mouton, Alain <Alain.Mouton@testamericainc.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Cc: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>
Subject: RE: TestAmerica Sample Login Confirmation files from 720-90505 Brisbane OU-2 Data Gap Investigation

Added Bill and Krzysztof to the email thread.

Thanks,

Urvashi

URVASHI PATEL

Manager of Project Management

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www.testamericainc.com

From: Mouton, Alain
Sent: Monday, December 24, 2018 2:21 PM
To: Miranda Kahrilas; Tony Smith
Cc: Patel, Urvashi
Subject: TestAmerica Sample Login Confirmation files from 720-90505 Brisbane OU-2 Data Gap Investigation

Hello,

Attached, please find the Sample Confirmation files for job 720-90505; Brisbane OU-2 Data Gap Investigation.

TB-12218 is a water Trip Blank sample, the COC lists the sample as soil.

Sample (#2) DG-R15S-3.5-4 is a 4oz soil filled 1/2 full, for Moisture, DRO/MO and PNA-SIM.

Sample DG-U13S-7.5-8 (720-90505-1) was logged in on Hold. Please let us know if you want that sample analyzed. Thank you.

Please feel free to contact me or your PM, Urvashi Patel, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

ALAIN MOUTON
Project Manager Assistant

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [294522]
Attachments: 4

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90506-1
TestAmerica Sample Delivery Group: Brisbane OU2
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
1111 Broadway
6th Floor
Oakland, California 94607

Attn: Mr. Tony Smith

Authorized for release by:
1/15/2019 6:54:39 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90506-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90506-1

Comments
See client email in correspondences for sample receipt discrepancies. Sample #19 and #20 were taken off hold.

Receipt
The samples were received on 12/21/2018 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.3º C and 2.5º C.

Receipt Exceptions

The following samples were as submitted for analysis; however, it was not listed on the Chain-of-Custody (COC):
(#19) DG-P15S-0.5-1 collected 12/21/18 @ 10:45 and (#20) DG-P15S-3.5-4 collected 12/21/18 @ 10:45.

The Chain-of-Custody (COC) was partially completed in blue ink which does not scan well even at the darkest setting; filling out with black ink is recommended.

Metals
Method 6010B: The method blank for preparation batch 720-257579 and analytical batch 720-258117 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257579 and analytical batch 720-258117 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-258117 were outside of control limits. Ba-254%, Be-128%, Cr-127%, Cu-146%, Pb-137%, Tl-131%, V-128%, Zn-139%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258117 was outside control limits for Ba-16%, Cd-22%, Co-21%, Cr-19%, Cu-22%, Ni-17%, Pb-18%, V-18%, and Zn-17%: (720-90507-A-18-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-T11S-0.5-1 (720-90506-1), DG-T11S-3.5-4 (720-90506-2), DG-V11S-0.5-1 (720-90506-3), DG-V11S-3.5-4 (720-90506-4), DG-U13S-0.5-1 (720-90506-5), DG-U13S-3.5-4 (720-90506-6), DG-S13S-0.5-1 (720-90506-7), DG-S13S-3.5-4 (720-90506-8), DG-Q13S-0.5-1 (720-90506-9), DG-Q13S-3.5-4 (720-90506-10), DG-O13S-0.5-1 (720-90506-11), DG-O13S-3.5-4 (720-90506-12), DG-N15S-0.5-1 (720-90506-13), DG-N15S-3.5-4 (720-90506-14), DG-R15S-0.5-1 (720-90506-15), DG-R15S-3.5-4 (720-90506-16), DG-T15S-0.5-1 (720-90506-17), DG-T15S-3.5-4 (720-90506-18), DG-P15S-0.5-1 (720-90506-19), DG-P15S-3.5-4 (720-90506-20), (720-90507-A-22-C ^4), (720-90507-A-18-C), (720-90507-A-18-A MS), (720-90507-A-18-B MSD), (720-90507-A-18-C PDS) and (720-90507-A-18-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257585 and analytical batch 720-258121 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258121 was outside control limits for Barium-44%, Nickel-44%, Lead-42%, Chromium-54%, Cobalt-44%, Vanadium-47% and Zinc-41%: (720-90507-A-22-C SD ^20)

Method 6010B: The method blank for preparation batch 720-257585 and analytical batch 720-258121 contained Arsenic, Barium, Lead and Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 720-90506-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Q13S-0.5-1 (720-90506-9), DG-Q13S-3.5-4 (720-90506-10), DG-O13S-0.5-1 (720-90506-11), DG-O13S-3.5-4 (720-90506-12), DG-N15S-0.5-1 (720-90506-13), DG-N15S-3.5-4 (720-90506-14), DG-R15S-0.5-1 (720-90506-15), DG-R15S-3.5-4 (720-90506-16), DG-T15S-0.5-1 (720-90506-17), DG-T15S-3.5-4 (720-90506-18), DG-P15S-0.5-1 (720-90506-19), DG-P15S-3.5-4 (720-90506-20) and (720-90507-A-22-C ^4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90506-1
SDG: Brisbane OU2

Client Sample ID: DG-T11S-0.5-1 — Lab Sample ID: 720-90506-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	4.8		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	49		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.33	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.88		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	25	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.1		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	150		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	4600		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.86	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	17		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	270		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.30		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T11S-3.5-4 — Lab Sample ID: 720-90506-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.1		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	4.3		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	43		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.65		0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	0.55		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	36	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	1000		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	550		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.64	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	24		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	55		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	130		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.37		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V11S-0.5-1 — Lab Sample ID: 720-90506-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	29		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	70		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	1.1		0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.31		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	16	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	120		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	180		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.42	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	11		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	85		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	94		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90506-1
SDG: Brisbane OU2

Client Sample ID: DG-V11S-3.5-4 — Lab Sample ID: 720-90506-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	10		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	15		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	570		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	1.1		0.24	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	1.3		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	54	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	210		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	1800		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2		1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	37		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	2.2		0.59	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	780		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.056		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U13S-0.5-1 — Lab Sample ID: 720-90506-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.87	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	2.8		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	140		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.62		0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	120	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	35		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	22		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	63		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.38	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	240		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.71	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	62		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U13S-3.5-4 — Lab Sample ID: 720-90506-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4		1.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	39		1.2	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.72		0.23	0.075	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	1200	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	98		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	22		3.5	1.6	mg/Kg	4		6010B	Total/NA
Lead	3.4		1.2	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.80	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	1700		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	2.2	J	2.3	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.2	0.16	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U13S-3.5-4 (Continued) — Lab Sample ID: 720-90506-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	31		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.056		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S13S-0.5-1 — Lab Sample ID: 720-90506-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	65		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.29	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	66	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	35		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	58		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.62	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	62		1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	58		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.066		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S13S-3.5-4 — Lab Sample ID: 720-90506-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	2.7	J	2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	62		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Cadmium	0.37		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	96	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	23		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	44		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	8.3		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.76	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	80		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	98		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	83		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.097		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q13S-0.5-1 — Lab Sample ID: 720-90506-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	B	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	1.1	J B	2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	26	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	1.3		0.23	0.075	mg/Kg	4		6010B	Total/NA
Cadmium	0.32		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	22		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	150		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	170	B	1.1	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q13S-0.5-1 (Continued) — Lab Sample ID: 720-90506-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	1.2		1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	10		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	76		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.056		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q13S-3.5-4 — Lab Sample ID: 720-90506-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3	B	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	1.7	J B	2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	330	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	1.8		0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	0.32	J	0.34	0.033	mg/Kg	4		6010B	Total/NA
Chromium	67		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	34		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	82		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	19	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.91	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	48		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	2.7	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	140		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	52		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O13S-0.5-1 — Lab Sample ID: 720-90506-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	880	B	5.2	0.87	mg/Kg	20		6010B	Total/NA
Arsenic	140	B	10	0.89	mg/Kg	20		6010B	Total/NA
Barium	510	B	5.2	0.74	mg/Kg	20		6010B	Total/NA
Beryllium	0.42	J	1.0	0.34	mg/Kg	20		6010B	Total/NA
Cadmium	2.8		1.3	0.13	mg/Kg	20		6010B	Total/NA
Chromium	78		5.2	0.55	mg/Kg	20		6010B	Total/NA
Cobalt	26		2.1	0.21	mg/Kg	20		6010B	Total/NA
Copper	5900		16	7.5	mg/Kg	20		6010B	Total/NA
Lead	19000	B	5.2	1.1	mg/Kg	20		6010B	Total/NA
Molybdenum	5.1	J	5.2	0.67	mg/Kg	20		6010B	Total/NA
Nickel	270		5.2	0.53	mg/Kg	20		6010B	Total/NA
Silver	4.2		2.6	0.53	mg/Kg	20		6010B	Total/NA
Vanadium	49		5.2	0.71	mg/Kg	20		6010B	Total/NA
Zinc	990		16	6.6	mg/Kg	20		6010B	Total/NA
Mercury	0.11		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O13S-3.5-4 — Lab Sample ID: 720-90506-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	15	B	3.7	0.32	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O13S-3.5-4 (Continued) — Lab Sample ID: 720-90506-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	110	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.89		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	42		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	250		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	910	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	2.0		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	37		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	350		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N15S-0.5-1 — Lab Sample ID: 720-90506-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9	B	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	110	B	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	95	B	1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.78		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.40	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	150		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	62		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	60	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.79	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	180		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	87		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	22		0.63	0.092	mg/Kg	40		7471A	Total/NA

Client Sample ID: DG-N15S-3.5-4 — Lab Sample ID: 720-90506-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5	B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	39	B	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.79		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	210		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	28		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	32		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	9.5	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.75	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	380		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	75		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	56		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	9.0		0.17	0.025	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90506-1
SDG: Brisbane OU2

Client Sample ID: DG-R15S-0.5-1 — Lab Sample ID: 720-90506-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.9	B	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	4.1	B	3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	240	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	2.9		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	19		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	3.1		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	1300		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	960	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.60	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	18		1.5	0.15	mg/Kg	4		6010B	Total/NA
Silver	0.49	J	0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	10		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	480		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R15S-3.5-4 — Lab Sample ID: 720-90506-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7	J B	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	2.6	J B	4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	160	B	2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	14		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	2.7		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	90		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	610	B	2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	9.5		2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	8.7		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	310		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T15S-0.5-1 — Lab Sample ID: 720-90506-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6	B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	0.36	J B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	45	B	1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.38		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	380		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	33		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	25		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	61	B	1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.42	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	530		1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	48		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	2.4		0.066	0.0097	mg/Kg	4		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90506-1
SDG: Brisbane OU2

Client Sample ID: DG-T15S-3.5-4 — Lab Sample ID: 720-90506-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7	B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Barium	49	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	490		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	53		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	30		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	5.6	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	880		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.75	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	52		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.054		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P15S-0.5-1 — Lab Sample ID: 720-90506-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4	B	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	12	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	71	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.84		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.68		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	32		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	220		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	250	B	1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.77	J	1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	40		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	88		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	160		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.35		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P15S-3.5-4 — Lab Sample ID: 720-90506-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	J B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	3.7	B	3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	48	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	1.2		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.31	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	440		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	39		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	62		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	13	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	480		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.80	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	95		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	84		5.6	2.4	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P15S-3.5-4 (Continued)

Lab Sample ID: 720-90506-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.10		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 6010B - Metals (ICP)

Client Sample ID: DG-T11S-0.5-1
Date Collected: 12/21/18 08:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.9	0.31	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Arsenic	4.8		3.8	0.32	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Barium	49		1.9	0.27	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Beryllium	0.33	J	0.38	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Cadmium	0.88		0.47	0.047	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Chromium	25	B	1.9	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Cobalt	5.1		0.75	0.075	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Copper	150		5.7	2.7	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Lead	4600		1.9	0.40	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Molybdenum	0.86	J	1.9	0.24	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Nickel	17		1.9	0.19	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Selenium	ND		3.8	0.57	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Silver	ND		0.94	0.19	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Thallium	ND		1.9	0.55	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Vanadium	28		1.9	0.26	mg/Kg		01/03/19 11:10	01/07/19 19:14	4
Zinc	270		5.7	2.4	mg/Kg		01/03/19 11:10	01/07/19 19:14	4

Client Sample ID: DG-T11S-3.5-4
Date Collected: 12/21/18 08:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.1		1.2	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Arsenic	4.3		2.4	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Barium	43		1.2	0.17	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Beryllium	0.65		0.24	0.078	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Cadmium	0.55		0.30	0.030	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Chromium	36	B	1.2	0.13	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Cobalt	7.7		0.48	0.048	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Copper	1000		3.6	1.7	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Lead	550		1.2	0.25	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Molybdenum	0.64	J	1.2	0.15	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Nickel	24		1.2	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Selenium	ND		2.4	0.36	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Silver	ND		0.60	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Thallium	ND		1.2	0.35	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Vanadium	55		1.2	0.16	mg/Kg		01/03/19 11:10	01/07/19 19:19	4
Zinc	130		3.6	1.5	mg/Kg		01/03/19 11:10	01/07/19 19:19	4

Client Sample ID: DG-V11S-0.5-1
Date Collected: 12/21/18 08:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.1	0.19	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Arsenic	29		2.2	0.19	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Barium	70		1.1	0.16	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Beryllium	1.1		0.22	0.073	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Cadmium	0.31		0.28	0.028	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Chromium	16	B	1.1	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Cobalt	8.9		0.45	0.045	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Copper	120		3.4	1.6	mg/Kg		01/03/19 11:10	01/07/19 19:33	4

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: DG-V11S-0.5-1
Date Collected: 12/21/18 08:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	180		1.1	0.24	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Molybdenum	0.42	J	1.1	0.14	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Nickel	11		1.1	0.11	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Selenium	ND		2.2	0.34	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Silver	ND		0.56	0.11	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Thallium	ND		1.1	0.33	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Vanadium	85		1.1	0.15	mg/Kg		01/03/19 11:10	01/07/19 19:33	4
Zinc	94		3.4	1.4	mg/Kg		01/03/19 11:10	01/07/19 19:33	4

Client Sample ID: DG-V11S-3.5-4
Date Collected: 12/21/18 08:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	10		1.2	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Arsenic	15		2.4	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Barium	570		1.2	0.17	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Beryllium	1.1		0.24	0.076	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Cadmium	1.3		0.29	0.029	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Chromium	54	B	1.2	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Cobalt	8.9		0.47	0.047	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Copper	210		3.5	1.7	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Lead	1800		1.2	0.25	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Molybdenum	1.2		1.2	0.15	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Nickel	37		1.2	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Selenium	ND		2.4	0.35	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Silver	2.2		0.59	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Thallium	ND		1.2	0.34	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Vanadium	48		1.2	0.16	mg/Kg		01/03/19 11:10	01/07/19 19:38	4
Zinc	780		3.5	1.5	mg/Kg		01/03/19 11:10	01/07/19 19:38	4

Client Sample ID: DG-U13S-0.5-1
Date Collected: 12/21/18 08:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.87	J	1.3	0.21	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Arsenic	2.8		2.6	0.22	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Barium	140		1.3	0.18	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Beryllium	0.62		0.26	0.084	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Cadmium	0.27	J	0.32	0.032	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Chromium	120	B	1.3	0.14	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Cobalt	35		0.52	0.052	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Copper	22		3.9	1.8	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Lead	63		1.3	0.27	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Molybdenum	0.38	J	1.3	0.17	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Nickel	240		1.3	0.13	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Selenium	0.71	J	2.6	0.39	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Silver	ND		0.65	0.13	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Thallium	ND		1.3	0.37	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Vanadium	41		1.3	0.18	mg/Kg		01/03/19 11:10	01/07/19 19:43	4
Zinc	62		3.9	1.6	mg/Kg		01/03/19 11:10	01/07/19 19:43	4

Client Sample ID: DG-U13S-3.5-4
Date Collected: 12/21/18 08:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.4**		1.2	0.19	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Arsenic	ND		2.3	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Barium	**39**		1.2	0.16	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Beryllium	**0.72**		0.23	0.075	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Cadmium	**0.14**	**J**	0.29	0.029	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Chromium	**1200**	**B**	1.2	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Cobalt	**98**		0.46	0.046	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Copper	**22**		3.5	1.6	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Lead	**3.4**		1.2	0.24	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Molybdenum	**0.80**	**J**	1.2	0.15	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Nickel	**1700**		1.2	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Selenium	**2.2**	**J**	2.3	0.35	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Silver	ND		0.58	0.12	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Thallium	ND		1.2	0.34	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Vanadium	**45**		1.2	0.16	mg/Kg		01/03/19 11:10	01/07/19 19:47	4
Zinc	**31**		3.5	1.5	mg/Kg		01/03/19 11:10	01/07/19 19:47	4

Client Sample ID: DG-S13S-0.5-1
Date Collected: 12/21/18 09:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.27	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Arsenic	**3.6**		3.3	0.28	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Barium	**65**		1.6	0.23	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Beryllium	**0.29**	**J**	0.33	0.11	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Cadmium	**0.29**	**J**	0.41	0.040	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Chromium	**66**	**B**	1.6	0.17	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Cobalt	**17**		0.65	0.065	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Copper	**35**		4.9	2.3	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Lead	**58**		1.6	0.34	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Molybdenum	**0.62**	**J**	1.6	0.21	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Nickel	**62**		1.6	0.17	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Selenium	ND		3.3	0.49	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Silver	ND		0.81	0.16	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Thallium	ND		1.6	0.47	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Vanadium	**64**		1.6	0.22	mg/Kg		01/03/19 11:10	01/07/19 19:52	4
Zinc	**58**		4.9	2.1	mg/Kg		01/03/19 11:10	01/07/19 19:52	4

Client Sample ID: DG-S13S-3.5-4
Date Collected: 12/21/18 09:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.57**	**J**	1.4	0.23	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Arsenic	**2.7**	**J**	2.8	0.23	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Barium	**62**		1.4	0.20	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Beryllium	**0.24**	**J**	0.28	0.090	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Cadmium	**0.37**		0.34	0.034	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Chromium	**96**	**B**	1.4	0.15	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Cobalt	**23**		0.55	0.055	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Copper	**44**		4.1	2.0	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Lead	**8.3**		1.4	0.29	mg/Kg		01/03/19 11:10	01/07/19 19:57	4

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: DG-S13S-3.5-4
Date Collected: 12/21/18 09:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.76	J	1.4	0.18	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Nickel	80		1.4	0.14	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Selenium	ND		2.8	0.41	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Silver	ND		0.69	0.14	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Thallium	ND		1.4	0.40	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Vanadium	98		1.4	0.19	mg/Kg		01/03/19 11:10	01/07/19 19:57	4
Zinc	83		4.1	1.8	mg/Kg		01/03/19 11:10	01/07/19 19:57	4

Client Sample ID: DG-Q13S-0.5-1
Date Collected: 12/21/18 10:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	B	1.1	0.19	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Arsenic	1.1	J B	2.3	0.20	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Barium	26	B	1.1	0.16	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Beryllium	1.3		0.23	0.075	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Cadmium	0.32		0.29	0.029	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Chromium	22		1.1	0.12	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Cobalt	14		0.46	0.046	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Copper	150		3.4	1.6	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Lead	170	B	1.1	0.24	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Molybdenum	1.2		1.1	0.15	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Nickel	10		1.1	0.12	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Selenium	1.1	J	2.3	0.34	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Silver	ND		0.57	0.12	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Thallium	ND		1.1	0.33	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Vanadium	100		1.1	0.16	mg/Kg		01/04/19 14:17	01/07/19 23:59	4
Zinc	76		3.4	1.5	mg/Kg		01/04/19 14:17	01/07/19 23:59	4

Client Sample ID: DG-Q13S-3.5-4
Date Collected: 12/21/18 10:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	B	1.3	0.22	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Arsenic	1.7	J B	2.7	0.23	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Barium	330	B	1.3	0.19	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Beryllium	1.8		0.27	0.087	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Cadmium	0.32	J	0.34	0.033	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Chromium	67		1.3	0.14	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Cobalt	34		0.54	0.054	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Copper	82		4.0	1.9	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Lead	19	B	1.3	0.28	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Molybdenum	0.91	J	1.3	0.17	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Nickel	48		1.3	0.14	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Selenium	2.3	J	2.7	0.40	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Silver	ND		0.67	0.14	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Thallium	ND		1.3	0.39	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Vanadium	140		1.3	0.18	mg/Kg		01/04/19 14:17	01/08/19 00:03	4
Zinc	52		4.0	1.7	mg/Kg		01/04/19 14:17	01/08/19 00:03	4

Method: 6010B - Metals (ICP)

Client Sample ID: DG-O13S-0.5-1
Date Collected: 12/21/18 10:20
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**880**	**B**	5.2	0.87	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Arsenic	**140**	**B**	10	0.89	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Barium	**510**	**B**	5.2	0.74	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Beryllium	**0.42**	**J**	1.0	0.34	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Cadmium	**2.8**		1.3	0.13	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Chromium	**78**		5.2	0.55	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Cobalt	**26**		2.1	0.21	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Copper	**5900**		16	7.5	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Lead	**19000**	**B**	5.2	1.1	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Molybdenum	**5.1**	**J**	5.2	0.67	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Nickel	**270**		5.2	0.53	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Selenium	ND		10	1.6	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Silver	**4.2**		2.6	0.53	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Thallium	ND		5.2	1.5	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Vanadium	**49**		5.2	0.71	mg/Kg		01/04/19 14:17	01/08/19 13:29	20
Zinc	**990**		16	6.6	mg/Kg		01/04/19 14:17	01/08/19 13:29	20

Client Sample ID: DG-O13S-3.5-4
Date Collected: 12/21/18 10:20
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**12**	**B**	1.9	0.31	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Arsenic	**15**	**B**	3.7	0.32	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Barium	**110**	**B**	1.9	0.27	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Beryllium	**0.89**		0.37	0.12	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Cadmium	**1.6**		0.47	0.046	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Chromium	**42**		1.9	0.20	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Cobalt	**11**		0.75	0.075	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Copper	**250**		5.6	2.7	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Lead	**910**	**B**	1.9	0.39	mg/Kg		01/04/19 14:17	01/08/19 13:38	4
Molybdenum	**2.0**		1.9	0.24	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Nickel	**37**		1.9	0.19	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Selenium	ND		3.7	0.56	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Silver	ND		0.93	0.19	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Thallium	ND		1.9	0.54	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Vanadium	**69**		1.9	0.25	mg/Kg		01/04/19 14:17	01/08/19 00:22	4
Zinc	**350**		5.6	2.4	mg/Kg		01/04/19 14:17	01/08/19 00:22	4

Client Sample ID: DG-N15S-0.5-1
Date Collected: 12/21/18 10:40
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.9**	**B**	1.7	0.27	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Arsenic	**110**	**B**	3.3	0.28	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Barium	**95**	**B**	1.7	0.23	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Beryllium	**0.78**		0.33	0.11	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Cadmium	**0.40**	**J**	0.41	0.041	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Chromium	**150**		1.7	0.18	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Cobalt	**21**		0.66	0.066	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Copper	**62**		5.0	2.4	mg/Kg		01/04/19 14:17	01/08/19 00:27	4

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: DG-N15S-0.5-1
Date Collected: 12/21/18 10:40
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	60	B	1.7	0.35	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Molybdenum	0.79	J	1.7	0.21	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Nickel	180		1.7	0.17	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Selenium	ND		3.3	0.50	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Silver	ND		0.83	0.17	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Thallium	ND		1.7	0.48	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Vanadium	59		1.7	0.22	mg/Kg		01/04/19 14:17	01/08/19 00:27	4
Zinc	87		5.0	2.1	mg/Kg		01/04/19 14:17	01/08/19 00:27	4

Client Sample ID: DG-N15S-3.5-4
Date Collected: 12/21/18 10:40
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5	B	1.1	0.18	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Arsenic	39	B	2.2	0.19	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Barium	110	B	1.1	0.16	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Beryllium	0.79		0.22	0.071	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Cadmium	0.26	J	0.27	0.027	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Chromium	210		1.1	0.12	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Cobalt	28		0.44	0.044	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Copper	32		3.3	1.6	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Lead	9.5	B	1.1	0.23	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Molybdenum	0.75	J	1.1	0.14	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Nickel	380		1.1	0.11	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Selenium	1.5	J	2.2	0.33	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Silver	ND		0.55	0.11	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Thallium	ND		1.1	0.32	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Vanadium	75		1.1	0.15	mg/Kg		01/04/19 14:17	01/08/19 00:32	4
Zinc	56		3.3	1.4	mg/Kg		01/04/19 14:17	01/08/19 00:32	4

Client Sample ID: DG-R15S-0.5-1
Date Collected: 12/21/18 11:15
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.9	B	1.5	0.25	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Arsenic	4.1	B	3.0	0.26	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Barium	240	B	1.5	0.21	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Beryllium	ND		0.30	0.098	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Cadmium	2.9		0.38	0.037	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Chromium	19		1.5	0.16	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Cobalt	3.1		0.60	0.060	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Copper	1300		4.5	2.1	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Lead	960	B	1.5	0.32	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Molybdenum	0.60	J	1.5	0.19	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Nickel	18		1.5	0.15	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Selenium	ND		3.0	0.45	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Silver	0.49	J	0.75	0.15	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Thallium	ND		1.5	0.44	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Vanadium	10		1.5	0.20	mg/Kg		01/04/19 14:17	01/08/19 00:37	4
Zinc	480		4.5	1.9	mg/Kg		01/04/19 14:17	01/08/19 00:37	4

Client Sample ID: DG-R15S-3.5-4
Date Collected: 12/21/18 11:15
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-16
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	J B	2.0	0.33	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Arsenic	2.6	J B	4.0	0.34	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Barium	160	B	2.0	0.28	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Beryllium	ND		0.40	0.13	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Cadmium	1.2		0.50	0.049	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Chromium	14		2.0	0.21	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Cobalt	2.7		0.79	0.079	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Copper	90		5.9	2.8	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Lead	610	B	2.0	0.42	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Molybdenum	0.40	J	2.0	0.25	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Nickel	9.5		2.0	0.20	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Selenium	ND		4.0	0.59	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Silver	ND		0.99	0.20	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Thallium	ND		2.0	0.57	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Vanadium	8.7		2.0	0.27	mg/Kg		01/04/19 14:17	01/08/19 00:41	4
Zinc	310		5.9	2.5	mg/Kg		01/04/19 14:17	01/08/19 00:41	4

Client Sample ID: DG-T15S-0.5-1
Date Collected: 12/21/18 12:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6	B	1.7	0.29	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Arsenic	0.36	J B	3.5	0.30	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Barium	45	B	1.7	0.25	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Beryllium	0.38		0.35	0.11	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Cadmium	0.29	J	0.43	0.043	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Chromium	380		1.7	0.18	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Cobalt	33		0.70	0.070	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Copper	25		5.2	2.5	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Lead	61	B	1.7	0.37	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Molybdenum	0.42	J	1.7	0.22	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Nickel	530		1.7	0.18	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Selenium	ND		3.5	0.52	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Silver	ND		0.87	0.18	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Thallium	ND		1.7	0.50	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Vanadium	38		1.7	0.24	mg/Kg		01/04/19 14:17	01/08/19 00:46	4
Zinc	48		5.2	2.2	mg/Kg		01/04/19 14:17	01/08/19 00:46	4

Client Sample ID: DG-T15S-3.5-4
Date Collected: 12/21/18 12:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	B	1.6	0.27	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Arsenic	ND		3.3	0.28	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Barium	49	B	1.6	0.23	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Beryllium	0.50		0.33	0.11	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Cadmium	0.20	J	0.41	0.041	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Chromium	490		1.6	0.17	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Cobalt	53		0.66	0.066	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Copper	30		4.9	2.3	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Lead	5.6	B	1.6	0.34	mg/Kg		01/04/19 14:17	01/08/19 00:51	4

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: DG-T15S-3.5-4
Date Collected: 12/21/18 12:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.53	J	1.6	0.21	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Nickel	880		1.6	0.17	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Selenium	0.75	J	3.3	0.49	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Silver	ND		0.82	0.17	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Thallium	ND		1.6	0.48	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Vanadium	54		1.6	0.22	mg/Kg		01/04/19 14:17	01/08/19 00:51	4
Zinc	52		4.9	2.1	mg/Kg		01/04/19 14:17	01/08/19 00:51	4

Client Sample ID: DG-P15S-0.5-1
Date Collected: 12/21/18 10:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4	B	1.8	0.29	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Arsenic	12	B	3.5	0.30	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Barium	71	B	1.8	0.25	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Beryllium	0.84		0.35	0.11	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Cadmium	0.68		0.44	0.044	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Chromium	32		1.8	0.19	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Cobalt	15		0.70	0.070	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Copper	220		5.3	2.5	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Lead	250	B	1.8	0.37	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Molybdenum	0.77	J	1.8	0.22	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Nickel	40		1.8	0.18	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Selenium	ND		3.5	0.53	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Silver	ND		0.88	0.18	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Thallium	ND		1.8	0.51	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Vanadium	88		1.8	0.24	mg/Kg		01/04/19 14:17	01/08/19 00:55	4
Zinc	160		5.3	2.2	mg/Kg		01/04/19 14:17	01/08/19 00:55	4

Client Sample ID: DG-P15S-3.5-4
Date Collected: 12/21/18 10:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-20
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J B	1.9	0.31	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Arsenic	3.7	B	3.7	0.32	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Barium	48	B	1.9	0.27	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Beryllium	1.2		0.37	0.12	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Cadmium	0.31	J	0.47	0.046	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Chromium	440		1.9	0.20	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Cobalt	39		0.75	0.075	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Copper	62		5.6	2.7	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Lead	13	B	1.9	0.39	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Molybdenum	1.1	J	1.9	0.24	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Nickel	480		1.9	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Selenium	0.80	J	3.7	0.56	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Silver	ND		0.93	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Thallium	ND		1.9	0.54	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Vanadium	95		1.9	0.25	mg/Kg		01/04/19 14:17	01/08/19 01:00	4
Zinc	84		5.6	2.4	mg/Kg		01/04/19 14:17	01/08/19 01:00	4

Method: 7471A - Mercury (CVAA)

Client Sample ID: DG-T11S-0.5-1
Date Collected: 12/21/18 08:00
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.016	0.0023	mg/Kg		01/08/19 09:10	01/08/19 13:22	1

Client Sample ID: DG-T11S-3.5-4
Date Collected: 12/21/18 08:00
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.015	0.0022	mg/Kg		01/08/19 09:10	01/08/19 13:25	1

Client Sample ID: DG-V11S-0.5-1
Date Collected: 12/21/18 08:30
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		01/08/19 09:10	01/08/19 13:32	1

Client Sample ID: DG-V11S-3.5-4
Date Collected: 12/21/18 08:30
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.014	0.0021	mg/Kg		01/08/19 09:10	01/08/19 13:34	1

Client Sample ID: DG-U13S-0.5-1
Date Collected: 12/21/18 08:45
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.015	0.0022	mg/Kg		01/08/19 09:10	01/08/19 13:36	1

Client Sample ID: DG-U13S-3.5-4
Date Collected: 12/21/18 08:45
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.014	0.0021	mg/Kg		01/08/19 09:10	01/08/19 13:38	1

Client Sample ID: DG-S13S-0.5-1
Date Collected: 12/21/18 09:00
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 16:38	1

Client Sample ID: DG-S13S-3.5-4
Date Collected: 12/21/18 09:00
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.097		0.015	0.0021	mg/Kg		01/08/19 14:00	01/08/19 16:40	1

Client Sample ID: DG-Q13S-0.5-1
Date Collected: 12/21/18 10:00
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 16:42	1

Method: 7471A - Mercury (CVAA)

Client Sample ID: DG-Q13S-3.5-4
Date Collected: 12/21/18 10:00
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 16:45	1

Client Sample ID: DG-O13S-0.5-1
Date Collected: 12/21/18 10:20
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0023	mg/Kg		01/08/19 14:00	01/08/19 16:47	1

Client Sample ID: DG-O13S-3.5-4
Date Collected: 12/21/18 10:20
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.015	0.0023	mg/Kg		01/08/19 14:00	01/08/19 16:49	1

Client Sample ID: DG-N15S-0.5-1
Date Collected: 12/21/18 10:40
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	22		0.63	0.092	mg/Kg		01/08/19 14:00	01/08/19 17:41	40

Client Sample ID: DG-N15S-3.5-4
Date Collected: 12/21/18 10:40
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.0		0.17	0.025	mg/Kg		01/08/19 14:00	01/08/19 17:34	10

Client Sample ID: DG-R15S-0.5-1
Date Collected: 12/21/18 11:15
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.016	0.0024	mg/Kg		01/08/19 14:00	01/08/19 17:36	1

Client Sample ID: DG-R15S-3.5-4
Date Collected: 12/21/18 11:15
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-16
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 16:59	1

Client Sample ID: DG-T15S-0.5-1
Date Collected: 12/21/18 12:30
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.4		0.066	0.0097	mg/Kg		01/08/19 14:00	01/08/19 17:39	4

Client Sample ID: DG-T15S-3.5-4
Date Collected: 12/21/18 12:30
Date Received: 12/21/18 15:35
Lab Sample ID: 720-90506-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.017	0.0025	mg/Kg		01/08/19 14:00	01/08/19 17:08	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90506-1
SDG: Brisbane OU2

Method: 7471A - Mercury (CVAA)

Client Sample ID: DG-P15S-0.5-1
Date Collected: 12/21/18 10:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.014	0.0021	mg/Kg		01/08/19 14:00	01/08/19 17:11	1

Client Sample ID: DG-P15S-3.5-4
Date Collected: 12/21/18 10:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-20
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 17:13	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257579/1-A
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Arsenic	ND		1.0	0.085	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Barium	ND		0.50	0.071	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Beryllium	ND		0.10	0.033	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Cadmium	ND		0.13	0.012	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Chromium	0.0640	J	0.50	0.053	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Cobalt	ND		0.20	0.020	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Copper	ND		1.5	0.71	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Lead	ND		0.50	0.11	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Nickel	ND		0.50	0.051	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Selenium	ND		1.0	0.15	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Silver	ND		0.25	0.051	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Thallium	ND		0.50	0.15	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Vanadium	ND		0.50	0.068	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Zinc	ND		1.5	0.64	mg/Kg		01/03/19 11:10	01/07/19 17:41	1

Lab Sample ID: LCS 720-257579/2-A
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.1		mg/Kg		102	80 - 120
Arsenic	50.0	51.0		mg/Kg		102	80 - 120
Barium	50.0	50.9		mg/Kg		102	80 - 120
Beryllium	50.0	53.1		mg/Kg		106	80 - 120
Cadmium	50.0	51.0		mg/Kg		102	80 - 120
Chromium	50.0	51.7		mg/Kg		103	80 - 120
Cobalt	50.0	51.6		mg/Kg		103	80 - 120
Copper	50.0	51.1		mg/Kg		102	80 - 120
Lead	50.0	51.9		mg/Kg		104	80 - 120
Molybdenum	50.0	52.2		mg/Kg		104	80 - 120
Nickel	50.0	51.7		mg/Kg		103	80 - 120
Selenium	50.0	49.4		mg/Kg		99	80 - 120
Silver	25.0	24.8		mg/Kg		99	80 - 120
Thallium	50.0	51.8		mg/Kg		104	80 - 120
Vanadium	50.0	51.2		mg/Kg		102	80 - 120
Zinc	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: 720-90507-A-18-A MS
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.9	F1	39.4	14.9	F1	mg/Kg		23	75 - 125
Arsenic	12	F1	39.4	59.0		mg/Kg		119	75 - 125
Barium	300		39.4	239	4	mg/Kg		-148	75 - 125
Beryllium	0.39	F1	39.4	51.3	F1	mg/Kg		129	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90507-A-18-A MS
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	2.3	F1	39.4	49.9		mg/Kg		121	75 - 125
Chromium	47	F2 F1 B	39.4	129	F1	mg/Kg		208	75 - 125
Cobalt	16		39.4	61.3		mg/Kg		115	75 - 125
Copper	190		39.4	252	4	mg/Kg		145	75 - 125
Lead	290		39.4	423	4	mg/Kg		329	75 - 125
Molybdenum	4.3		39.4	50.7		mg/Kg		118	75 - 125
Nickel	55	F2 F1	39.4	137	F1	mg/Kg		208	75 - 125
Selenium	1.1	J	39.4	47.5		mg/Kg		118	75 - 125
Silver	0.30	J F1	19.7	24.5		mg/Kg		123	75 - 125
Thallium	ND	F1	39.4	50.3	F1	mg/Kg		128	75 - 125
Vanadium	40	F1	39.4	95.3	F1	mg/Kg		140	75 - 125
Zinc	360		39.4	454	4	mg/Kg		252	75 - 125

Lab Sample ID: 720-90507-A-18-B MSD
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.9	F1	39.1	16.6	F1	mg/Kg		27	75 - 125	10	20
Arsenic	12	F1	39.1	63.0	F1	mg/Kg		130	75 - 125	6	20
Barium	300		39.1	238	4	mg/Kg		-151	75 - 125	0	20
Beryllium	0.39	F1	39.1	52.3	F1	mg/Kg		133	75 - 125	2	20
Cadmium	2.3	F1	39.1	51.6	F1	mg/Kg		126	75 - 125	3	20
Chromium	47	F2 F1 B	39.1	101	F1 F2	mg/Kg		138	75 - 125	24	20
Cobalt	16		39.1	61.6		mg/Kg		117	75 - 125	1	20
Copper	190		39.1	239	4	mg/Kg		114	75 - 125	5	20
Lead	290		39.1	372	4	mg/Kg		202	75 - 125	13	20
Molybdenum	4.3		39.1	52.8		mg/Kg		124	75 - 125	4	20
Nickel	55	F2 F1	39.1	105	F1 F2	mg/Kg		127	75 - 125	27	20
Selenium	1.1	J	39.1	48.8		mg/Kg		122	75 - 125	3	20
Silver	0.30	J F1	19.5	25.2	F1	mg/Kg		127	75 - 125	2	20
Thallium	ND	F1	39.1	50.8	F1	mg/Kg		130	75 - 125	1	20
Vanadium	40	F1	39.1	95.9	F1	mg/Kg		143	75 - 125	1	20
Zinc	360		39.1	441	4	mg/Kg		220	75 - 125	3	20

Lab Sample ID: MB 720-257585/1-A
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.146	J	0.50	0.083	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Arsenic	0.103	J	1.0	0.085	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Barium	0.175	J	0.50	0.071	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Beryllium	ND		0.10	0.033	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Cadmium	ND		0.13	0.012	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Chromium	ND		0.50	0.053	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Cobalt	ND		0.20	0.020	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Copper	ND		1.5	0.71	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Lead	0.290	J	0.50	0.11	mg/Kg		01/04/19 14:17	01/07/19 23:26	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257585/1-A
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Nickel	ND		0.50	0.051	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Selenium	ND		1.0	0.15	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Silver	ND		0.25	0.051	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Thallium	ND		0.50	0.15	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Vanadium	ND		0.50	0.068	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Zinc	ND		1.5	0.64	mg/Kg		01/04/19 14:17	01/07/19 23:26	1

Lab Sample ID: LCS 720-257585/2-A
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.6		mg/Kg		101	80 - 120
Arsenic	50.0	50.4		mg/Kg		101	80 - 120
Barium	50.0	51.5		mg/Kg		103	80 - 120
Beryllium	50.0	50.8		mg/Kg		102	80 - 120
Cadmium	50.0	50.8		mg/Kg		102	80 - 120
Chromium	50.0	51.9		mg/Kg		104	80 - 120
Cobalt	50.0	51.9		mg/Kg		104	80 - 120
Copper	50.0	52.1		mg/Kg		104	80 - 120
Lead	50.0	51.9		mg/Kg		104	80 - 120
Molybdenum	50.0	51.8		mg/Kg		104	80 - 120
Nickel	50.0	51.6		mg/Kg		103	80 - 120
Selenium	50.0	48.9		mg/Kg		98	80 - 120
Silver	25.0	25.0		mg/Kg		100	80 - 120
Thallium	50.0	57.8		mg/Kg		116	80 - 120
Vanadium	50.0	51.6		mg/Kg		103	80 - 120
Zinc	50.0	50.7		mg/Kg		101	80 - 120

Lab Sample ID: 720-90507-A-22-A MS ^4
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.0	F1 B	35.0	11.5	F1	mg/Kg		27	75 - 125
Arsenic	4.7	B F1	35.0	44.3		mg/Kg		113	75 - 125
Barium	98	F1 B	35.0	180	F1	mg/Kg		234	75 - 125
Beryllium	0.57		35.0	41.0		mg/Kg		116	75 - 125
Cadmium	0.73		35.0	40.4		mg/Kg		113	75 - 125
Chromium	27	F1	35.0	73.0	F1	mg/Kg		132	75 - 125
Cobalt	7.7		35.0	49.8		mg/Kg		120	75 - 125
Copper	77	F1	35.0	143	F1	mg/Kg		190	75 - 125
Lead	140	F1 B	35.0	231	F1	mg/Kg		265	75 - 125
Molybdenum	1.2	J	35.0	40.1		mg/Kg		111	75 - 125
Nickel	30	F1	35.0	75.5	F1	mg/Kg		130	75 - 125
Selenium	0.47	J	35.0	39.9		mg/Kg		113	75 - 125
Silver	ND		17.5	20.0		mg/Kg		115	75 - 125
Thallium	ND		35.0	42.1		mg/Kg		120	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90507-A-22-A MS ^4
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	34	F1	35.0	88.1	F1	mg/Kg		154	75 - 125
Zinc	220	F2	35.0	287	4	mg/Kg		195	75 - 125

Lab Sample ID: 720-90507-A-22-B MSD ^4
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.0	F1 B	34.7	10.8	F1	mg/Kg		25	75 - 125	6	20
Arsenic	4.7	B F1	34.7	48.5	F1	mg/Kg		126	75 - 125	9	20
Barium	98	F1 B	34.7	188	F1	mg/Kg		258	75 - 125	4	20
Beryllium	0.57		34.7	44.0		mg/Kg		125	75 - 125	7	20
Cadmium	0.73		34.7	41.3		mg/Kg		117	75 - 125	2	20
Chromium	27	F1	34.7	80.4	F1	mg/Kg		154	75 - 125	10	20
Cobalt	7.7		34.7	50.9		mg/Kg		124	75 - 125	2	20
Copper	77	F1	34.7	162	F1	mg/Kg		244	75 - 125	12	20
Lead	140	F1 B	34.7	268	F1	mg/Kg		372	75 - 125	15	20
Molybdenum	1.2	J	34.7	41.4		mg/Kg		116	75 - 125	3	20
Nickel	30	F1	34.7	90.4	F1	mg/Kg		174	75 - 125	18	20
Selenium	0.47	J	34.7	39.7		mg/Kg		113	75 - 125	1	20
Silver	ND		17.4	21.1		mg/Kg		121	75 - 125	5	20
Thallium	ND		34.7	39.4		mg/Kg		113	75 - 125	7	20
Vanadium	34	F1	34.7	91.4	F1	mg/Kg		165	75 - 125	4	20
Zinc	220	F2	34.7	378	4 F2	mg/Kg		459	75 - 125	27	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257553/1-A
Matrix: Solid
Analysis Batch: 258143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/08/19 09:10	01/08/19 12:36	1

Lab Sample ID: LCS 720-257553/2-A
Matrix: Solid
Analysis Batch: 258143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.835		mg/Kg		100	80 - 120

Lab Sample ID: 720-90481-A-23-E MS
Matrix: Solid
Analysis Batch: 258143

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.083		0.769	0.897		mg/Kg		106	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90481-A-23-F MSD
Matrix: Solid
Analysis Batch: 258143

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.083		0.769	0.910		mg/Kg		107	75 - 125	1	20

Lab Sample ID: MB 720-257612/1-A
Matrix: Solid
Analysis Batch: 258166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/08/19 14:00	01/08/19 16:10	1

Lab Sample ID: LCS 720-257612/2-A
Matrix: Solid
Analysis Batch: 258166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.840		mg/Kg		101	80 - 120

Lab Sample ID: 720-90507-A-18-G MS
Matrix: Solid
Analysis Batch: 258166

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.36		0.769	1.09		mg/Kg		94	75 - 125

Lab Sample ID: 720-90507-A-18-I MSD
Matrix: Solid
Analysis Batch: 258166

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.36		0.769	1.15		mg/Kg		103	75 - 125	6	20

Metals

Prep Batch: 257553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-1	DG-T11S-0.5-1	Total/NA	Solid	7471A	
720-90506-2	DG-T11S-3.5-4	Total/NA	Solid	7471A	
720-90506-3	DG-V11S-0.5-1	Total/NA	Solid	7471A	
720-90506-4	DG-V11S-3.5-4	Total/NA	Solid	7471A	
720-90506-5	DG-U13S-0.5-1	Total/NA	Solid	7471A	
720-90506-6	DG-U13S-3.5-4	Total/NA	Solid	7471A	
MB 720-257553/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257553/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90481-A-23-E MS	Matrix Spike	Total/NA	Solid	7471A	
720-90481-A-23-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 257579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-1	DG-T11S-0.5-1	Total/NA	Solid	3050B	
720-90506-2	DG-T11S-3.5-4	Total/NA	Solid	3050B	
720-90506-3	DG-V11S-0.5-1	Total/NA	Solid	3050B	
720-90506-4	DG-V11S-3.5-4	Total/NA	Solid	3050B	
720-90506-5	DG-U13S-0.5-1	Total/NA	Solid	3050B	
720-90506-6	DG-U13S-3.5-4	Total/NA	Solid	3050B	
720-90506-7	DG-S13S-0.5-1	Total/NA	Solid	3050B	
720-90506-8	DG-S13S-3.5-4	Total/NA	Solid	3050B	
MB 720-257579/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257579/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90507-A-18-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90507-A-18-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-9	DG-Q13S-0.5-1	Total/NA	Solid	3050B	
720-90506-10	DG-Q13S-3.5-4	Total/NA	Solid	3050B	
720-90506-11	DG-O13S-0.5-1	Total/NA	Solid	3050B	
720-90506-12	DG-O13S-3.5-4	Total/NA	Solid	3050B	
720-90506-13	DG-N15S-0.5-1	Total/NA	Solid	3050B	
720-90506-14	DG-N15S-3.5-4	Total/NA	Solid	3050B	
720-90506-15	DG-R15S-0.5-1	Total/NA	Solid	3050B	
720-90506-16	DG-R15S-3.5-4	Total/NA	Solid	3050B	
720-90506-17	DG-T15S-0.5-1	Total/NA	Solid	3050B	
720-90506-18	DG-T15S-3.5-4	Total/NA	Solid	3050B	
720-90506-19	DG-P15S-0.5-1	Total/NA	Solid	3050B	
720-90506-20	DG-P15S-3.5-4	Total/NA	Solid	3050B	
MB 720-257585/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257585/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90507-A-22-A MS ^4	Matrix Spike	Total/NA	Solid	3050B	
720-90507-A-22-B MSD ^4	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 257612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-7	DG-S13S-0.5-1	Total/NA	Solid	7471A	
720-90506-8	DG-S13S-3.5-4	Total/NA	Solid	7471A	
720-90506-9	DG-Q13S-0.5-1	Total/NA	Solid	7471A	
720-90506-10	DG-Q13S-3.5-4	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-11	DG-O13S-0.5-1	Total/NA	Solid	7471A	
720-90506-12	DG-O13S-3.5-4	Total/NA	Solid	7471A	
720-90506-13	DG-N15S-0.5-1	Total/NA	Solid	7471A	
720-90506-14	DG-N15S-3.5-4	Total/NA	Solid	7471A	
720-90506-15	DG-R15S-0.5-1	Total/NA	Solid	7471A	
720-90506-16	DG-R15S-3.5-4	Total/NA	Solid	7471A	
720-90506-17	DG-T15S-0.5-1	Total/NA	Solid	7471A	
720-90506-18	DG-T15S-3.5-4	Total/NA	Solid	7471A	
720-90506-19	DG-P15S-0.5-1	Total/NA	Solid	7471A	
720-90506-20	DG-P15S-3.5-4	Total/NA	Solid	7471A	
MB 720-257612/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257612/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90507-A-18-G MS	Matrix Spike	Total/NA	Solid	7471A	
720-90507-A-18-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 258117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-1	DG-T11S-0.5-1	Total/NA	Solid	6010B	257579
720-90506-2	DG-T11S-3.5-4	Total/NA	Solid	6010B	257579
720-90506-3	DG-V11S-0.5-1	Total/NA	Solid	6010B	257579
720-90506-4	DG-V11S-3.5-4	Total/NA	Solid	6010B	257579
720-90506-5	DG-U13S-0.5-1	Total/NA	Solid	6010B	257579
720-90506-6	DG-U13S-3.5-4	Total/NA	Solid	6010B	257579
720-90506-7	DG-S13S-0.5-1	Total/NA	Solid	6010B	257579
720-90506-8	DG-S13S-3.5-4	Total/NA	Solid	6010B	257579
MB 720-257579/1-A	Method Blank	Total/NA	Solid	6010B	257579
LCS 720-257579/2-A	Lab Control Sample	Total/NA	Solid	6010B	257579
720-90507-A-18-A MS	Matrix Spike	Total/NA	Solid	6010B	257579
720-90507-A-18-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	257579

Analysis Batch: 258121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-9	DG-Q13S-0.5-1	Total/NA	Solid	6010B	257585
720-90506-10	DG-Q13S-3.5-4	Total/NA	Solid	6010B	257585
720-90506-12	DG-O13S-3.5-4	Total/NA	Solid	6010B	257585
720-90506-13	DG-N15S-0.5-1	Total/NA	Solid	6010B	257585
720-90506-14	DG-N15S-3.5-4	Total/NA	Solid	6010B	257585
720-90506-15	DG-R15S-0.5-1	Total/NA	Solid	6010B	257585
720-90506-16	DG-R15S-3.5-4	Total/NA	Solid	6010B	257585
720-90506-17	DG-T15S-0.5-1	Total/NA	Solid	6010B	257585
720-90506-18	DG-T15S-3.5-4	Total/NA	Solid	6010B	257585
720-90506-19	DG-P15S-0.5-1	Total/NA	Solid	6010B	257585
720-90506-20	DG-P15S-3.5-4	Total/NA	Solid	6010B	257585
MB 720-257585/1-A	Method Blank	Total/NA	Solid	6010B	257585
LCS 720-257585/2-A	Lab Control Sample	Total/NA	Solid	6010B	257585
720-90507-A-22-A MS ^4	Matrix Spike	Total/NA	Solid	6010B	257585
720-90507-A-22-B MSD ^4	Matrix Spike Duplicate	Total/NA	Solid	6010B	257585

Analysis Batch: 258143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-1	DG-T11S-0.5-1	Total/NA	Solid	7471A	257553

Metals (Continued)

Analysis Batch: 258143 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-2	DG-T11S-3.5-4	Total/NA	Solid	7471A	257553
720-90506-3	DG-V11S-0.5-1	Total/NA	Solid	7471A	257553
720-90506-4	DG-V11S-3.5-4	Total/NA	Solid	7471A	257553
720-90506-5	DG-U13S-0.5-1	Total/NA	Solid	7471A	257553
720-90506-6	DG-U13S-3.5-4	Total/NA	Solid	7471A	257553
MB 720-257553/1-A	Method Blank	Total/NA	Solid	7471A	257553
LCS 720-257553/2-A	Lab Control Sample	Total/NA	Solid	7471A	257553
720-90481-A-23-E MS	Matrix Spike	Total/NA	Solid	7471A	257553
720-90481-A-23-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257553

Analysis Batch: 258163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-11	DG-O13S-0.5-1	Total/NA	Solid	6010B	257585
720-90506-12	DG-O13S-3.5-4	Total/NA	Solid	6010B	257585

Analysis Batch: 258166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-7	DG-S13S-0.5-1	Total/NA	Solid	7471A	257612
720-90506-8	DG-S13S-3.5-4	Total/NA	Solid	7471A	257612
720-90506-9	DG-Q13S-0.5-1	Total/NA	Solid	7471A	257612
720-90506-10	DG-Q13S-3.5-4	Total/NA	Solid	7471A	257612
720-90506-11	DG-O13S-0.5-1	Total/NA	Solid	7471A	257612
720-90506-12	DG-O13S-3.5-4	Total/NA	Solid	7471A	257612
720-90506-13	DG-N15S-0.5-1	Total/NA	Solid	7471A	257612
720-90506-14	DG-N15S-3.5-4	Total/NA	Solid	7471A	257612
720-90506-15	DG-R15S-0.5-1	Total/NA	Solid	7471A	257612
720-90506-16	DG-R15S-3.5-4	Total/NA	Solid	7471A	257612
720-90506-17	DG-T15S-0.5-1	Total/NA	Solid	7471A	257612
720-90506-18	DG-T15S-3.5-4	Total/NA	Solid	7471A	257612
720-90506-19	DG-P15S-0.5-1	Total/NA	Solid	7471A	257612
720-90506-20	DG-P15S-3.5-4	Total/NA	Solid	7471A	257612
MB 720-257612/1-A	Method Blank	Total/NA	Solid	7471A	257612
LCS 720-257612/2-A	Lab Control Sample	Total/NA	Solid	7471A	257612
720-90507-A-18-G MS	Matrix Spike	Total/NA	Solid	7471A	257612
720-90507-A-18-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	257612

General Chemistry

Analysis Batch: 257592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-1	DG-T11S-0.5-1	Total/NA	Solid	Moisture	
720-90506-2	DG-T11S-3.5-4	Total/NA	Solid	Moisture	
720-90506-3	DG-V11S-0.5-1	Total/NA	Solid	Moisture	
720-90506-4	DG-V11S-3.5-4	Total/NA	Solid	Moisture	
720-90506-5	DG-U13S-0.5-1	Total/NA	Solid	Moisture	
720-90506-6	DG-U13S-3.5-4	Total/NA	Solid	Moisture	
720-90506-7	DG-S13S-0.5-1	Total/NA	Solid	Moisture	
720-90506-8	DG-S13S-3.5-4	Total/NA	Solid	Moisture	
720-90506-9	DG-Q13S-0.5-1	Total/NA	Solid	Moisture	
720-90506-10	DG-Q13S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 257592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-11	DG-O13S-0.5-1	Total/NA	Solid	Moisture	
720-90506-12	DG-O13S-3.5-4	Total/NA	Solid	Moisture	
720-90506-13	DG-N15S-0.5-1	Total/NA	Solid	Moisture	
720-90506-14	DG-N15S-3.5-4	Total/NA	Solid	Moisture	
720-90506-15	DG-R15S-0.5-1	Total/NA	Solid	Moisture	
720-90506-16	DG-R15S-3.5-4	Total/NA	Solid	Moisture	
720-90506-17	DG-T15S-0.5-1	Total/NA	Solid	Moisture	
720-90505-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90506-18	DG-T15S-3.5-4	Total/NA	Solid	Moisture	
720-90506-19	DG-P15S-0.5-1	Total/NA	Solid	Moisture	
720-90506-20	DG-P15S-3.5-4	Total/NA	Solid	Moisture	
720-90506-18 DU	DG-T15S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-T11S-0.5-1

Lab Sample ID: 720-90506-1

Date Collected: 12/21/18 08:00

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:14	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-T11S-3.5-4

Lab Sample ID: 720-90506-2

Date Collected: 12/21/18 08:00

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:19	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-V11S-0.5-1

Lab Sample ID: 720-90506-3

Date Collected: 12/21/18 08:30

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:33	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-V11S-3.5-4

Lab Sample ID: 720-90506-4

Date Collected: 12/21/18 08:30

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:38	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-U13S-0.5-1

Lab Sample ID: 720-90506-5

Date Collected: 12/21/18 08:45
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:43	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-U13S-3.5-4

Lab Sample ID: 720-90506-6

Date Collected: 12/21/18 08:45
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:47	BKR	TAL PLS
Total/NA	Prep	7471A			257553	01/08/19 09:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258143	01/08/19 13:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-S13S-0.5-1

Lab Sample ID: 720-90506-7

Date Collected: 12/21/18 09:00
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:52	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-S13S-3.5-4

Lab Sample ID: 720-90506-8

Date Collected: 12/21/18 09:00
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 19:57	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-Q13S-0.5-1

Lab Sample ID: 720-90506-9

Date Collected: 12/21/18 10:00
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/07/19 23:59	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-Q13S-3.5-4

Lab Sample ID: 720-90506-10

Date Collected: 12/21/18 10:00
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 00:03	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-O13S-0.5-1

Lab Sample ID: 720-90506-11

Date Collected: 12/21/18 10:20
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		20	258163	01/08/19 13:29	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-O13S-3.5-4

Lab Sample ID: 720-90506-12

Date Collected: 12/21/18 10:20
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 00:22	BKR	TAL PLS
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258163	01/08/19 13:38	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90506-1
SDG: Brisbane OU2

Client Sample ID: DG-N15S-0.5-1

Lab Sample ID: 720-90506-13

Date Collected: 12/21/18 10:40
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 00:27	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		40	258166	01/08/19 17:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-N15S-3.5-4

Lab Sample ID: 720-90506-14

Date Collected: 12/21/18 10:40
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 00:32	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		10	258166	01/08/19 17:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-R15S-0.5-1

Lab Sample ID: 720-90506-15

Date Collected: 12/21/18 11:15
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 00:37	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 17:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-R15S-3.5-4

Lab Sample ID: 720-90506-16

Date Collected: 12/21/18 11:15
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 00:41	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90506-1
SDG: Brisbane OU2

Client Sample ID: DG-T15S-0.5-1
Date Collected: 12/21/18 12:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 00:46	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		4	258166	01/08/19 17:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257592	12/26/18 10:31	TNL	TAL PLS

Client Sample ID: DG-T15S-3.5-4
Date Collected: 12/21/18 12:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 00:51	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 17:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-P15S-0.5-1
Date Collected: 12/21/18 10:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 00:55	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 17:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-P15S-3.5-4
Date Collected: 12/21/18 10:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90506-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 01:00	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 17:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90506-1
Project/Site: Brisbane OU-2 Data Gap Investigation SDG: Brisbane OU2

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90506-1
SDG: Brisbane OU2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90506-1
SDG: Brisbane OU2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90506-1	DG-T11S-0.5-1	Solid	12/21/18 08:00	12/21/18 15:35
720-90506-2	DG-T11S-3.5-4	Solid	12/21/18 08:00	12/21/18 15:35
720-90506-3	DG-V11S-0.5-1	Solid	12/21/18 08:30	12/21/18 15:35
720-90506-4	DG-V11S-3.5-4	Solid	12/21/18 08:30	12/21/18 15:35
720-90506-5	DG-U13S-0.5-1	Solid	12/21/18 08:45	12/21/18 15:35
720-90506-6	DG-U13S-3.5-4	Solid	12/21/18 08:45	12/21/18 15:35
720-90506-7	DG-S13S-0.5-1	Solid	12/21/18 09:00	12/21/18 15:35
720-90506-8	DG-S13S-3.5-4	Solid	12/21/18 09:00	12/21/18 15:35
720-90506-9	DG-Q13S-0.5-1	Solid	12/21/18 10:00	12/21/18 15:35
720-90506-10	DG-Q13S-3.5-4	Solid	12/21/18 10:00	12/21/18 15:35
720-90506-11	DG-O13S-0.5-1	Solid	12/21/18 10:20	12/21/18 15:35
720-90506-12	DG-O13S-3.5-4	Solid	12/21/18 10:20	12/21/18 15:35
720-90506-13	DG-N15S-0.5-1	Solid	12/21/18 10:40	12/21/18 15:35
720-90506-14	DG-N15S-3.5-4	Solid	12/21/18 10:40	12/21/18 15:35
720-90506-15	DG-R15S-0.5-1	Solid	12/21/18 11:15	12/21/18 15:35
720-90506-16	DG-R15S-3.5-4	Solid	12/21/18 11:15	12/21/18 15:35
720-90506-17	DG-T15S-0.5-1	Solid	12/21/18 12:30	12/21/18 15:35
720-90506-18	DG-T15S-3.5-4	Solid	12/21/18 12:30	12/21/18 15:35
720-90506-19	DG-P15S-0.5-1	Solid	12/21/18 10:45	12/21/18 15:35
720-90506-20	DG-P15S-3.5-4	Solid	12/21/18 10:45	12/21/18 15:35

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720 ~~90387~~ 90506 TB 12/21/18

Chain of Custody Record

187548 TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/18	COC No. 1
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			720-90506 Chain of Custody
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)
1	DG-T11S-0.5-1	12/21/18	0800	G	S	1	N		X
2	DG-T11S-3.5-4		0800						
3	DG-V11S-0.5-1		0830						
4	DG-V11S-3.5-4		0830						
5	DG-U13S-0.5-1		0845						
6	DG-U12S-3.5-4		0845						
7	DG-S13S-0.5-1		0900						
8	DG-S13S-3.5-4		0900						
(MS)	~~DG-U13S-7.5-8~~		~~0915~~						(RTD)
9	DG-Q13S-0.5-1		1000						
10	DG-Q13S-3.5-4		1000						
11	DG-O13S-0.5-1		1020						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by	Geosyntec	12/21/18 1240	Received by George Hichborn	GEOSYNTEC	12/21/18 1440
Relinquished by	GEOSYNTEC	12/21/18 1505	Received by	TAPLS	12/21/18 1705
Relinquished by	TAPLS	12/21/18 1535	Received in Laboratory by	TA PLS	12/21/18 1535

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

25/30

1/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90506-90507 TB 12/21/18

Chain of Custody Record

187 548

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/21/18	COC No 2
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
12 DG-L155-3.5-4	12/21/18	1020	G	S	1	N		X	
13 DG-N155-0.5-1		1140							
14 DG-N155-3.5-4		1140							
15 DG-R155-0.5-1		1115							
16 DG-R155-3.5-4		1115							
17 DG-T155-0.5-1		1230							
18 DG-T155-3.5-4		1230							
~~MP+ DG-R155-3.5-4~~		1150							(MD)

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____	Therm ID No. _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by: Maria Ting	Geosyntec	12/21/18 1240	George Hichborn	Geosyntec	12/21/18 1240
Relinquished by: George A Hichborn	Geosyntec	12/21/1308		TAPLS	12/21/18 1308
Relinquished by:	TAPLS	12/21/18 1535	Received in Laboratory by:	TA PLS	12/21/18 1535

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2.5/3C

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1/15/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90506-1
SDG Number: Brisbane OU2

Login Number: 90506
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Bill Chen <BChen@Geosyntec.com>
Sent: Monday, December 24, 2018 3:22 PM
To: Patel, Urvashi; Bondoc, Christian M.; Miranda Kahrilas
Cc: Anthony Smith; Krzysztof Jesionek
Subject: FW: TestAmerica Sample Login Confirmation files from 720-90506 Brisbane OU-2 Data Gap Investigation
Attachments: COC 720-90506 (201812212341).pdf; Std_Tal_Login_Limits for 720-90506-1.pdf; Std_Tal_Login_Ack for 720-90506-1.pdf

-External Email-

Urvashi,

Please have samples #19 and #20 analyzed for CAM 17 Metals (6010/7471).

We will inform our team to make sure to include all the samples submitted on the COC, and to use black pens.

Many thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

From: Mouton, Alain <alain.mouton@testamericainc.com>
Sent: Monday, December 24, 2018 11:16 AM
To: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Cc: Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: TestAmerica Sample Login Confirmation files from 720-90506 Brisbane OU-2 Data Gap Investigation

Hello,

Attached, please find the Sample Confirmation files for job 720-90506; Brisbane OU-2 Data Gap Investigation.

The following samples were submitted for analysis; however, they were not listed on the Chain-of-Custody (COC): (#19) DC-P15S-0.5-1 collected 9/21/18 @ 10:45 and (#20) DC-P15S-3.5-4 collected 9/21/18 @ 10:45. These two samples were logged in on hold. Please let us know if you want us to analyze these two extra samples. Thank you.

The Chain-of-Custody (COC) was improperly completed. COC is partially completed in blue ink which does not scan dark enough even when it is set at the highest dark setting. Could you please use BLACK INK or DARK BLUE ink to complete the COCs? Thank you.

Please feel free to contact me or your PM, Urvashi Patel, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

ALAIN MOUTON
Project Manager Assistant

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [294513]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90507-1
TestAmerica Sample Delivery Group: Brisbane OU2
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
1111 Broadway
6th Floor
Oakland, California 94607

Attn: Mr. Tony Smith

Authorized for release by:
1/17/2019 5:52:00 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90507-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90507-1

Comments
See client email in correspondences for receipt discrepancies.

Receipt
The samples were received on 12/21/2018 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.3º C and 2.5º C.

Receipt Exceptions

The Chain-of-Custody (COC) was improperly completed. Page 1 of 2 is actually page 1 of 4, page 2 of 3 is actually page 2 of 4, page 3 and page 4 are listed correctly as 3 of 4 and 4 of 4.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
DG-AS6S-0.5-1 and DG-AS6S-3.5-4

(#12) DG-AS6S-0.5-1. The container labels list sample time: 0912, while the COC lists sample time 09:10.
(#13) DG-AS6S-3.5-4. The container labels list sample time: 0910, while the COC lists sample time 09:12.
(#34) DUP 58 The container labels list sample ID: DUP 58 0.5-1, while the COC lists sample ID: DUP-58
Logged by Sample label.

Metals
Method 6010B: The method blank for preparation batch 720-257613 and analytical batch 720-257834 contained Barium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257613 and analytical batch 720-257834 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-257834 were outside of control limits. Barium-160%, Copper-156%, Lead-146% Zinc-149%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257834 was outside control limits for Arsenic-18%, Barium-24%, Cobalt-26%, Chromium-26%, Copper-21%, Nickel-21%, Lead-20%, Vanadium-23%, Zinc-22%: (720-90507-A-32-C SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-257834 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-257959 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257959 was outside of control limits. Arsenic-46%, Barium-50%, Chromium-74%, Copper-26%, Nickel-60%, Lead--55%, Vanadium-74% and Zinc-18%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257959 was outside control limits for Copper-24%, Barium-26%, Arsenic-21%, Nickel-23%, Lead-21%, Zinc-21%, Vanadium-24%, Cobalt-18% and Chromium-20%: (720-90507-A-32-C SD)

Job ID: 720-90507-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The method blank for preparation batch 720-257579 and analytical batch 720-258117 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257579 and analytical batch 720-258117 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-258117 were outside of control limits. Ba-254%, Be-128%, Cr-127%, Cu-146%, Pb-137%, Tl-131%, V-128%, Zn-139%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258117 was outside control limits for Ba-16%, Cd-22%, Co-21%, Cr-19%, Cu-22%, Ni-17%, Pb-18%, V-18%, and Zn-17%: (720-90507-A-18-C SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257591 and analytical batch 720-258120 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for the following analytes associated with batch 720-258120 were outside of control limits. Copper-222%, Barium-196%, Thallium-142%, Chromium-131%, Antimony130%, Vanadium-133%, Arsenic-133%, Nickel-127%, Beryllium-134%, Molybdenum-129%, Selenium-129%, Cobalt-126%, Cadmium-126% and Silver-130%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258120 was outside control limits for Barium-11%, Chromium-15%, Copper-15%, Nickel-13%, Lead-15%, Antimony-26% and Zinc-15%: (720-90507-A-26-C SD ^50)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AN6S-0.5-1 (720-90507-1), DG-AN6S-3.5-4 (720-90507-2), DG-AO6S-0.5-1 (720-90507-3), DG-AO6S-3.5-4 (720-90507-4), DG-AP6S-0.5-1 (720-90507-5), DG-AP6S-3.5-4 (720-90507-6), DG-AQ6S-0.5-1 (720-90507-7), DG-AQ6S-3.5-4 (720-90507-8), DG-AQ6S-11-11.5 (720-90507-9), DG-AR6S-0.5-1 (720-90507-10), DG-AR6S-3.5-4 (720-90507-11), DG-AS6S-0.5-1 (720-90507-12), DG-AS6S-3.5-4 (720-90507-13), DG-AT6S-0.5-1 (720-90507-14), DG-AT6S-3.5-4 (720-90507-15), DG-AU6S-0.5-1 (720-90507-16), DG-AU6S-3.5-4 (720-90507-17), DG-AV6S-0.5-1 (720-90507-18), DG-AV6S-0.5-1 (720-90507-18[MS]), DG-AV6S-0.5-1 (720-90507-18[MSD]), DG-AV6S-3.5-4 (720-90507-19), DUP-41 (720-90507-20), DG-AV6S-7-7.5 (720-90507-21), DG-AW6S-0.5-1 (720-90507-22), DG-AW6S-3.5-4 (720-90507-23), DUP-43 (720-90507-24), DG-AV8S-0.5-1 (720-90507-25), DG-AV8S-3.5-4 (720-90507-26), DUP-42 (720-90507-27), DG-AU8S-0.5-1 (720-90507-28), DG-AU8S-3.5-4 (720-90507-29), DG-AT8S-0.5-1 (720-90507-30), DG-AT8S-3.5-4 (720-90507-31), DG-AS8S-0.5-1 (720-90507-32), DG-AS8S-3.5-4 (720-90507-33), DUP-58 (720-90507-34), DG-AR8S-0.5-1 (720-90507-35), DG-AR8S-3.5-4 (720-90507-36), DG-AQ8S-0.5-1 (720-90507-37), DG-AQ8S-3.5-4 (720-90507-38), DG-AQ8S-8-8.5 (720-90507-39), DG-AP8S-0.5-1 (720-90507-40) and DG-AP8S-3.5-4 (720-90507-41). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-257591 and analytical batch 720-258120 contained Chromium and Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257585 and analytical batch 720-258121 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258121 was outside control limits for Barium-44%, Nickel-44%, Lead-42%, Chromium-54%, Cobalt-44%, Vanadium-47% and Zinc-41%: (720-90507-A-22-C SD ^20)

Method 6010B: The method blank for preparation batch 720-257585 and analytical batch 720-258121 contained Arsenic, Barium, Lead and Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7471A: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 720-257615 and analytical batch 720-258211 was outside the 10% difference. As the relative percent difference (RPD) calculation

Job ID: 720-90507-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90507-1
SDG: Brisbane OU2

Client Sample ID: DG-AN6S-0.5-1 — Lab Sample ID: 720-90507-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	B	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	1.3	J B	2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	18	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	1.7		0.23	0.074	mg/Kg	4		6010B	Total/NA
Cadmium	0.38		0.29	0.028	mg/Kg	4		6010B	Total/NA
Chromium	9.9		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	110		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	15	B	1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.89	J	1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	6.6		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.36	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	140		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	77		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.063		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN6S-3.5-4 — Lab Sample ID: 720-90507-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12	B	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	71	B	3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	200	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.87		0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	3.5		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	55		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	270		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	740	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	5.2		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	52		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	2.9	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	0.64	J	0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	590		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.35		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO6S-0.5-1 — Lab Sample ID: 720-90507-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.7	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	13	B	3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	94	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	1.5		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	4.8		0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	56		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	290		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	560	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	7.2		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	47		1.9	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AO6S-0.5-1 (Continued) — Lab Sample ID: 720-90507-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	2.3	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	530		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.64		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO6S-3.5-4 — Lab Sample ID: 720-90507-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.7	B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	35	B	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	190	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.74		0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	2.4		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	35		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	230		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	670	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	2.7		1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	38		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	390		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.30		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP6S-0.5-1 — Lab Sample ID: 720-90507-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.5	B	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	22	B	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	170	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.71		0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	5.8		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	73		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	420		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	530	B	1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	8.3		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	68		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Silver	0.82		0.56	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	920		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.80		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP6S-3.5-4 — Lab Sample ID: 720-90507-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.1	B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	64	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	460	B	1.7	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP6S-3.5-4 (Continued) — Lab Sample ID: 720-90507-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.42		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	2.1		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	36		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	130		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	460	B	1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	33		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.99	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Silver	1.0		0.87	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	670		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ6S-0.5-1 — Lab Sample ID: 720-90507-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	9.1	B	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	210	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.66		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	37		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	150		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	320	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	1.9		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	39		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	280		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.38		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ6S-3.5-4 — Lab Sample ID: 720-90507-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	B	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	66		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.42		0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	0.17	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	17	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	5.4		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	17		4.5	2.2	mg/Kg	4		6010B	Total/NA
Lead	25		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.33	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	20		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	40		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.042		0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90507-1
SDG: Brisbane OU2

Client Sample ID: DG-AQ6S-11-11.5 — Lab Sample ID: 720-90507-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9	B	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	19		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	63		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	1.0		0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.65		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	27	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	32		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	65		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.74	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	29		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	170		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.059		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR6S-0.5-1 — Lab Sample ID: 720-90507-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.4	B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	260		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.28	0.090	mg/Kg	4		6010B	Total/NA
Cadmium	3.0		0.35	0.034	mg/Kg	4		6010B	Total/NA
Chromium	47	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	220		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	570		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	5.0		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	48		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.44	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	0.33	J	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	530		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.26		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR6S-3.5-4 — Lab Sample ID: 720-90507-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7	J B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	34		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	26	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	3.5		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	26		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	75		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.29	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	29		1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	12		1.8	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR6S-3.5-4 (Continued) — Lab Sample ID: 720-90507-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	44		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.015		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS6S-0.5-1 — Lab Sample ID: 720-90507-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.3	B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	17		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	150		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.45		0.28	0.091	mg/Kg	4		6010B	Total/NA
Cadmium	1.9		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	47	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	160		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	360		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	3.2		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	56		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.87	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	330		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.45		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS6S-3.5-4 — Lab Sample ID: 720-90507-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.79	J B	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	17		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	89		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	8.0	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	4.4		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	16		4.5	2.2	mg/Kg	4		6010B	Total/NA
Lead	35		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.23	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	7.6		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	23		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	60		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.023		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT6S-0.5-1 — Lab Sample ID: 720-90507-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.1	B	2.7	0.45	mg/Kg	10		6010B	Total/NA
Arsenic	12		5.5	0.46	mg/Kg	10		6010B	Total/NA
Barium	190		2.7	0.39	mg/Kg	10		6010B	Total/NA
Cadmium	4.6		0.68	0.068	mg/Kg	10		6010B	Total/NA
Chromium	86	B	2.7	0.29	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	530		8.2	3.9	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT6S-0.5-1 (Continued) — Lab Sample ID: 720-90507-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	860		2.7	0.57	mg/Kg	10		6010B	Total/NA
Molybdenum	9.7		2.7	0.35	mg/Kg	10		6010B	Total/NA
Nickel	78		2.7	0.28	mg/Kg	10		6010B	Total/NA
Silver	0.60	J	1.4	0.28	mg/Kg	10		6010B	Total/NA
Vanadium	50		2.7	0.37	mg/Kg	10		6010B	Total/NA
Zinc	900		8.2	3.5	mg/Kg	10		6010B	Total/NA
Mercury	0.60		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT6S-3.5-4 — Lab Sample ID: 720-90507-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.89	J B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	6.0		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	73		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.57		0.28	0.090	mg/Kg	4		6010B	Total/NA
Cadmium	0.16	J	0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	13	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	6.8		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	16		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	12		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.49	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	16		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	38		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.017		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU6S-0.5-1 — Lab Sample ID: 720-90507-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.8	B	2.8	0.47	mg/Kg	10		6010B	Total/NA
Arsenic	15		5.6	0.48	mg/Kg	10		6010B	Total/NA
Barium	200		2.8	0.40	mg/Kg	10		6010B	Total/NA
Cadmium	5.4		0.71	0.070	mg/Kg	10		6010B	Total/NA
Chromium	84	B	2.8	0.30	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	510		8.5	4.0	mg/Kg	10		6010B	Total/NA
Lead	600		2.8	0.59	mg/Kg	10		6010B	Total/NA
Molybdenum	9.3		2.8	0.36	mg/Kg	10		6010B	Total/NA
Nickel	80		2.8	0.29	mg/Kg	10		6010B	Total/NA
Silver	0.81	J	1.4	0.29	mg/Kg	10		6010B	Total/NA
Vanadium	32		2.8	0.38	mg/Kg	10		6010B	Total/NA
Zinc	750		8.5	3.6	mg/Kg	10		6010B	Total/NA
Mercury	0.57		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU6S-3.5-4 — Lab Sample ID: 720-90507-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.7	B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	110		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	79		1.1	0.16	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AU6S-3.5-4 (Continued) — Lab Sample ID: 720-90507-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.74		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	0.50		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	18	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	140		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	320		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	27		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	110		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.55		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV6S-0.5-1 — Lab Sample ID: 720-90507-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.9	F1	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	12	F1	3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	300		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.39	F1	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	2.3	F1	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	47	F2 F1 B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	190		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	290		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	4.3		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	55	F2 F1	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Silver	0.30	J F1	0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	40	F1	1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	360		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.36		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV6S-3.5-4 — Lab Sample ID: 720-90507-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	51	B	3.0	0.49	mg/Kg	10		6010B	Total/NA
Arsenic	32		5.9	0.50	mg/Kg	10		6010B	Total/NA
Barium	1600		3.0	0.42	mg/Kg	10		6010B	Total/NA
Beryllium	0.94		0.59	0.19	mg/Kg	10		6010B	Total/NA
Cadmium	6.3		0.74	0.073	mg/Kg	10		6010B	Total/NA
Chromium	56	B	3.0	0.31	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	1200		8.9	4.2	mg/Kg	10		6010B	Total/NA
Lead	5400		3.0	0.62	mg/Kg	10		6010B	Total/NA
Molybdenum	4.2		3.0	0.38	mg/Kg	10		6010B	Total/NA
Nickel	50		3.0	0.30	mg/Kg	10		6010B	Total/NA
Selenium	3.4	J	5.9	0.89	mg/Kg	10		6010B	Total/NA
Silver	9.1		1.5	0.30	mg/Kg	10		6010B	Total/NA
Vanadium	27		3.0	0.40	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV6S-3.5-4 (Continued) — Lab Sample ID: 720-90507-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	4200		8.9	3.8	mg/Kg	10		6010B	Total/NA
Mercury	1.0		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-41 — Lab Sample ID: 720-90507-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	190	B	3.5	0.58	mg/Kg	10		6010B	Total/NA
Arsenic	34		7.0	0.59	mg/Kg	10		6010B	Total/NA
Barium	1800		3.5	0.50	mg/Kg	10		6010B	Total/NA
Beryllium	1.0		0.70	0.23	mg/Kg	10		6010B	Total/NA
Cadmium	6.0		0.87	0.087	mg/Kg	10		6010B	Total/NA
Chromium	71	B	3.5	0.37	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	1300		10	5.0	mg/Kg	10		6010B	Total/NA
Lead	10000		3.5	0.73	mg/Kg	10		6010B	Total/NA
Molybdenum	3.1	J	3.5	0.45	mg/Kg	10		6010B	Total/NA
Nickel	60		3.5	0.36	mg/Kg	10		6010B	Total/NA
Selenium	3.9	J	7.0	1.0	mg/Kg	10		6010B	Total/NA
Silver	7.6		1.7	0.35	mg/Kg	10		6010B	Total/NA
Vanadium	46		3.5	0.48	mg/Kg	10		6010B	Total/NA
Zinc	3900		10	4.4	mg/Kg	10		6010B	Total/NA
Mercury	1.0		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV6S-7-7.5 — Lab Sample ID: 720-90507-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.2	B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	23		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	100		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	1.1		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.67		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	38	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	89		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	120		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	44		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.58	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	310		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.046		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW6S-0.5-1 — Lab Sample ID: 720-90507-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0	F1 B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	4.7	B F1	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	98	F1 B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.57		0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.73		0.35	0.035	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AW6S-0.5-1 (Continued) — Lab Sample ID: 720-90507-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	27	F1	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	77	F1	4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	140	F1 B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	30	F1	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.47	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	34	F1	1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	220	F2	4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.098		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW6S-3.5-4 — Lab Sample ID: 720-90507-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	39	B	8.8	1.5	mg/Kg	20		6010B	Total/NA
Arsenic	23		18	1.5	mg/Kg	20		6010B	Total/NA
Barium	1700		8.8	1.2	mg/Kg	20		6010B	Total/NA
Cadmium	5.0		2.2	0.22	mg/Kg	20		6010B	Total/NA
Chromium	61	B	8.8	0.93	mg/Kg	20		6010B	Total/NA
Cobalt	10		3.5	0.35	mg/Kg	20		6010B	Total/NA
Copper	4300		26	12	mg/Kg	20		6010B	Total/NA
Lead	5700		8.8	1.8	mg/Kg	20		6010B	Total/NA
Molybdenum	2.6	J	8.8	1.1	mg/Kg	20		6010B	Total/NA
Nickel	54		8.8	0.89	mg/Kg	20		6010B	Total/NA
Silver	11		4.4	0.89	mg/Kg	20		6010B	Total/NA
Vanadium	31		8.8	1.2	mg/Kg	20		6010B	Total/NA
Zinc	3100		26	11	mg/Kg	20		6010B	Total/NA
Mercury	0.54		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-43 — Lab Sample ID: 720-90507-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	33	B	4.3	0.72	mg/Kg	10		6010B	Total/NA
Arsenic	22		8.6	0.73	mg/Kg	10		6010B	Total/NA
Barium	1200		4.3	0.61	mg/Kg	10		6010B	Total/NA
Beryllium	0.92		0.86	0.28	mg/Kg	10		6010B	Total/NA
Cadmium	4.5		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	50	B	4.3	0.46	mg/Kg	10		6010B	Total/NA
Cobalt	9.4		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	7500		13	6.1	mg/Kg	10		6010B	Total/NA
Lead	4300		4.3	0.91	mg/Kg	10		6010B	Total/NA
Molybdenum	2.8	J	4.3	0.55	mg/Kg	10		6010B	Total/NA
Nickel	56		4.3	0.44	mg/Kg	10		6010B	Total/NA
Silver	10		2.2	0.44	mg/Kg	10		6010B	Total/NA
Vanadium	37		4.3	0.59	mg/Kg	10		6010B	Total/NA
Zinc	3000		13	5.5	mg/Kg	10		6010B	Total/NA
Mercury	0.55		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV8S-0.5-1 — Lab Sample ID: 720-90507-25

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV8S-0.5-1 (Continued) — Lab Sample ID: 720-90507-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	38	B	3.8	0.63	mg/Kg	10		6010B	Total/NA
Arsenic	29		7.6	0.64	mg/Kg	10		6010B	Total/NA
Barium	1500		3.8	0.54	mg/Kg	10		6010B	Total/NA
Beryllium	1.3		0.76	0.25	mg/Kg	10		6010B	Total/NA
Cadmium	17		0.95	0.094	mg/Kg	10		6010B	Total/NA
Chromium	71	B	3.8	0.40	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	1400		11	5.4	mg/Kg	10		6010B	Total/NA
Lead	3400		3.8	0.80	mg/Kg	10		6010B	Total/NA
Molybdenum	3.8		3.8	0.48	mg/Kg	10		6010B	Total/NA
Nickel	71		3.8	0.39	mg/Kg	10		6010B	Total/NA
Selenium	4.2	J	7.6	1.1	mg/Kg	10		6010B	Total/NA
Silver	5.6		1.9	0.38	mg/Kg	10		6010B	Total/NA
Vanadium	45		3.8	0.52	mg/Kg	10		6010B	Total/NA
Zinc	6500		11	4.8	mg/Kg	10		6010B	Total/NA
Mercury	1.0		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV8S-3.5-4 — Lab Sample ID: 720-90507-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	50	F2 F1 B	5.0	0.82	mg/Kg	10		6010B	Total/NA
Arsenic	19		9.9	0.84	mg/Kg	10		6010B	Total/NA
Barium	990		5.0	0.70	mg/Kg	10		6010B	Total/NA
Beryllium	0.87	J	0.99	0.32	mg/Kg	10		6010B	Total/NA
Cadmium	5.7		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	47	B F1	5.0	0.52	mg/Kg	10		6010B	Total/NA
Cobalt	7.4		2.0	0.20	mg/Kg	10		6010B	Total/NA
Copper	1600		15	7.1	mg/Kg	10		6010B	Total/NA
Lead	5800	F2	5.0	1.0	mg/Kg	10		6010B	Total/NA
Molybdenum	3.3	J	5.0	0.63	mg/Kg	10		6010B	Total/NA
Nickel	40	F1	5.0	0.50	mg/Kg	10		6010B	Total/NA
Selenium	3.9	J	9.9	1.5	mg/Kg	10		6010B	Total/NA
Silver	6.8		2.5	0.50	mg/Kg	10		6010B	Total/NA
Vanadium	28	F1	5.0	0.67	mg/Kg	10		6010B	Total/NA
Zinc	5500		15	6.3	mg/Kg	10		6010B	Total/NA
Mercury	1.3		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-42 — Lab Sample ID: 720-90507-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	25	B	4.3	0.71	mg/Kg	10		6010B	Total/NA
Arsenic	26		8.5	0.73	mg/Kg	10		6010B	Total/NA
Barium	1400		4.3	0.61	mg/Kg	10		6010B	Total/NA
Beryllium	0.65	J	0.85	0.28	mg/Kg	10		6010B	Total/NA
Cadmium	5.4		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	64	B	4.3	0.45	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	1100		13	6.1	mg/Kg	10		6010B	Total/NA
Lead	3400		4.3	0.90	mg/Kg	10		6010B	Total/NA
Molybdenum	4.3		4.3	0.55	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-42 (Continued) — Lab Sample ID: 720-90507-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	60		4.3	0.44	mg/Kg	10		6010B	Total/NA
Silver	5.6		2.1	0.43	mg/Kg	10		6010B	Total/NA
Vanadium	39		4.3	0.58	mg/Kg	10		6010B	Total/NA
Zinc	2900		13	5.4	mg/Kg	10		6010B	Total/NA
Mercury	0.94		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU8S-0.5-1 — Lab Sample ID: 720-90507-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	79	B	4.7	0.78	mg/Kg	10		6010B	Total/NA
Arsenic	48		9.3	0.79	mg/Kg	10		6010B	Total/NA
Barium	2000		4.7	0.66	mg/Kg	10		6010B	Total/NA
Beryllium	1.2		0.93	0.30	mg/Kg	10		6010B	Total/NA
Cadmium	10		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	100	B	4.7	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	16		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	1700		14	6.7	mg/Kg	10		6010B	Total/NA
Lead	7900		4.7	0.98	mg/Kg	10		6010B	Total/NA
Molybdenum	5.9		4.7	0.60	mg/Kg	10		6010B	Total/NA
Nickel	99		4.7	0.48	mg/Kg	10		6010B	Total/NA
Selenium	7.3	J	9.3	1.4	mg/Kg	10		6010B	Total/NA
Silver	17		2.3	0.47	mg/Kg	10		6010B	Total/NA
Vanadium	53		4.7	0.64	mg/Kg	10		6010B	Total/NA
Zinc	5200		14	5.9	mg/Kg	10		6010B	Total/NA
Mercury	1.9		0.058	0.0086	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AU8S-3.5-4 — Lab Sample ID: 720-90507-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	35	B	4.6	0.76	mg/Kg	10		6010B	Total/NA
Arsenic	24		9.2	0.78	mg/Kg	10		6010B	Total/NA
Barium	1700		4.6	0.65	mg/Kg	10		6010B	Total/NA
Beryllium	0.95		0.92	0.30	mg/Kg	10		6010B	Total/NA
Cadmium	5.8		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	58	B	4.6	0.49	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	3000		14	6.5	mg/Kg	10		6010B	Total/NA
Lead	4900		4.6	0.96	mg/Kg	10		6010B	Total/NA
Molybdenum	4.0	J	4.6	0.59	mg/Kg	10		6010B	Total/NA
Nickel	63		4.6	0.47	mg/Kg	10		6010B	Total/NA
Selenium	2.6	J	9.2	1.4	mg/Kg	10		6010B	Total/NA
Silver	6.6		2.3	0.46	mg/Kg	10		6010B	Total/NA
Vanadium	32		4.6	0.62	mg/Kg	10		6010B	Total/NA
Zinc	3400		14	5.8	mg/Kg	10		6010B	Total/NA
Mercury	1.0		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT8S-0.5-1 — Lab Sample ID: 720-90507-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.9	0.32	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT8S-0.5-1 (Continued) — Lab Sample ID: 720-90507-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	83	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.37	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Chromium	18		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	130		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	39	B ^	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.89	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	24		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	120		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT8S-3.5-4 — Lab Sample ID: 720-90507-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	18		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	38		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	1200	B	1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.43		0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	3.6		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	56		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	8.5		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	720		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	4400	B ^	1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.61	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	47		1.9	0.20	mg/Kg	4		6010B	Total/NA
Silver	5.9		0.97	0.20	mg/Kg	4		6010B	Total/NA
Thallium	0.64	J	1.9	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	2500		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.66		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS8S-0.5-1 — Lab Sample ID: 720-90507-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.8	F1	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	130		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	190	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.42		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.50		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	43	F1	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	230	F2	5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	450	B ^	1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.89	J	1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	71	F1 F2	1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.73	J	0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	51	F1	1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	340		5.3	2.2	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AS8S-0.5-1 (Continued) — Lab Sample ID: 720-90507-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.97	F1 F2	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS8S-3.5-4 — Lab Sample ID: 720-90507-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	110		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	77	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.34	0.11	mg/Kg	4		6010B	Total/NA
Chromium	52		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	13		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	17		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	41		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	40		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-58 — Lab Sample ID: 720-90507-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	10		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	200		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	290	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.25		0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	47		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	300		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	610		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3		1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	87		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.43	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Silver	0.70		0.63	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	510		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	1.4		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR8S-0.5-1 — Lab Sample ID: 720-90507-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.6		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	9.5		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	220	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	3.1		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	49		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	240		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	450		1.1	0.23	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR8S-0.5-1 (Continued) — Lab Sample ID: 720-90507-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	3.4		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	56		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.82	J	2.2	0.32	mg/Kg	4		6010B	Total/NA
Silver	0.66		0.54	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	1600		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR8S-3.5-4 — Lab Sample ID: 720-90507-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	23		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	31		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	430		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.23	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.58		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	19		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.3		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	180		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	1600		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	25		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.51	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Silver	1.3		0.56	0.11	mg/Kg	4		6010B	Total/NA
Thallium	0.34	J	1.1	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	540		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.078		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ8S-0.5-1 — Lab Sample ID: 720-90507-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	11		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	280	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	8.6		0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	96		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	450		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	870	B ^	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	11		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	110		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	1.0		0.89	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	1300		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.95		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ8S-3.5-4 — Lab Sample ID: 720-90507-38

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ8S-3.5-4 (Continued) — Lab Sample ID: 720-90507-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	44		3.0	0.50	mg/Kg	10		6010B	Total/NA
Arsenic	35		6.0	0.51	mg/Kg	10		6010B	Total/NA
Barium	1200	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.30		0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	6.0		0.75	0.075	mg/Kg	10		6010B	Total/NA
Chromium	49		3.0	0.32	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	1000		9.0	4.3	mg/Kg	10		6010B	Total/NA
Lead	4500	^	3.0	0.63	mg/Kg	10		6010B	Total/NA
Molybdenum	1.5		1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	61		3.0	0.31	mg/Kg	10		6010B	Total/NA
Silver	8.4		1.5	0.30	mg/Kg	10		6010B	Total/NA
Thallium	1.8	J	3.0	0.87	mg/Kg	10		6010B	Total/NA
Vanadium	29		3.0	0.41	mg/Kg	10		6010B	Total/NA
Zinc	2400		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.90		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ8S-8-8.5 — Lab Sample ID: 720-90507-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	130	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.62		0.36	0.12	mg/Kg	4		6010B	Total/NA
Chromium	36		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	75		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	290	B ^	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.85	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	36		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.31	J	0.89	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	200		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.091		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP8S-0.5-1 — Lab Sample ID: 720-90507-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	6.6		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	93	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.25	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	11		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	4.9		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	33		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	60	B ^	1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	10		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	120		5.4	2.3	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP8S-0.5-1 (Continued) — Lab Sample ID: 720-90507-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.070		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP8S-3.5-4 — Lab Sample ID: 720-90507-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19		3.9	0.64	mg/Kg	10		6010B	Total/NA
Arsenic	21		7.8	0.66	mg/Kg	10		6010B	Total/NA
Barium	1100	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	3.0		0.97	0.096	mg/Kg	10		6010B	Total/NA
Chromium	54		3.9	0.41	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	530		12	5.5	mg/Kg	10		6010B	Total/NA
Lead	2400	^	3.9	0.81	mg/Kg	10		6010B	Total/NA
Molybdenum	0.91	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	40		3.9	0.40	mg/Kg	10		6010B	Total/NA
Silver	4.0		1.9	0.39	mg/Kg	10		6010B	Total/NA
Thallium	1.6	J	3.9	1.1	mg/Kg	10		6010B	Total/NA
Vanadium	20		3.9	0.53	mg/Kg	10		6010B	Total/NA
Zinc	2200		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.80		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AN6S-0.5-1

Date Collected: 12/21/18 08:15
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	B	1.1	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Arsenic	1.3	J B	2.3	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Barium	18	B	1.1	0.16	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Beryllium	1.7		0.23	0.074	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Cadmium	0.38		0.29	0.028	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Chromium	9.9		1.1	0.12	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Cobalt	18		0.46	0.046	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Copper	110		3.4	1.6	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Lead	15	B	1.1	0.24	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Molybdenum	0.89	J	1.1	0.15	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Nickel	6.6		1.1	0.12	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Selenium	0.36	J	2.3	0.34	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Silver	ND		0.57	0.12	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Thallium	ND		1.1	0.33	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Vanadium	140		1.1	0.16	mg/Kg		01/04/19 14:17	01/08/19 01:14	4
Zinc	77		3.4	1.5	mg/Kg		01/04/19 14:17	01/08/19 01:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.015	0.0021	mg/Kg		01/08/19 10:23	01/08/19 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.6		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AN6S-3.5-4

Date Collected: 12/21/18 08:17
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12	B	1.5	0.25	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Arsenic	71	B	3.0	0.26	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Barium	200	B	1.5	0.21	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Beryllium	0.87		0.30	0.098	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Cadmium	3.5		0.38	0.037	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Chromium	55		1.5	0.16	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Cobalt	14		0.60	0.060	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Copper	270		4.5	2.1	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Lead	740	B	1.5	0.32	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Molybdenum	5.2		1.5	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Nickel	52		1.5	0.15	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Selenium	2.9	J	3.0	0.45	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Silver	0.64	J	0.75	0.15	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Thallium	ND		1.5	0.44	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Vanadium	66		1.5	0.20	mg/Kg		01/04/19 14:17	01/08/19 01:19	4
Zinc	590		4.5	1.9	mg/Kg		01/04/19 14:17	01/08/19 01:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.016	0.0024	mg/Kg		01/08/19 10:23	01/08/19 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AO6S-0.5-1

Date Collected: 12/21/18 08:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.7	B	1.9	0.31	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Arsenic	13	B	3.7	0.32	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Barium	94	B	1.9	0.27	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Beryllium	1.5		0.37	0.12	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Cadmium	4.8		0.47	0.046	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Chromium	56		1.9	0.20	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Cobalt	19		0.75	0.075	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Copper	290		5.6	2.7	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Lead	560	B	1.9	0.39	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Molybdenum	7.2		1.9	0.24	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Nickel	47		1.9	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Selenium	2.3	J	3.7	0.56	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Silver	ND		0.93	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Thallium	ND		1.9	0.54	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Vanadium	120		1.9	0.25	mg/Kg		01/04/19 14:17	01/08/19 01:24	4
Zinc	530		5.6	2.4	mg/Kg		01/04/19 14:17	01/08/19 01:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.64		0.016	0.0024	mg/Kg		01/08/19 10:23	01/08/19 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AO6S-3.5-4

Date Collected: 12/21/18 08:32
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.7	B	1.2	0.20	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Arsenic	35	B	2.4	0.20	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Barium	190	B	1.2	0.17	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Beryllium	0.74		0.24	0.078	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Cadmium	2.4		0.30	0.030	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Chromium	35		1.2	0.13	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Cobalt	9.9		0.48	0.048	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Copper	230		3.6	1.7	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Lead	670	B	1.2	0.25	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Molybdenum	2.7		1.2	0.15	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Nickel	38		1.2	0.12	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Selenium	1.4	J	2.4	0.36	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Silver	ND		0.60	0.12	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Thallium	ND		1.2	0.35	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Vanadium	51		1.2	0.16	mg/Kg		01/04/19 14:17	01/08/19 01:28	4
Zinc	390		3.6	1.5	mg/Kg		01/04/19 14:17	01/08/19 01:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.017	0.0025	mg/Kg		01/08/19 10:23	01/08/19 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.0		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AP6S-0.5-1

Date Collected: 12/21/18 08:40
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.5	B	1.1	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Arsenic	22	B	2.2	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Barium	170	B	1.1	0.16	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Beryllium	0.71		0.22	0.073	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Cadmium	5.8		0.28	0.028	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Chromium	73		1.1	0.12	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Cobalt	12		0.45	0.045	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Copper	420		3.4	1.6	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Lead	530	B	1.1	0.24	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Molybdenum	8.3		1.1	0.14	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Nickel	68		1.1	0.11	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Selenium	2.0	J	2.2	0.34	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Silver	0.82		0.56	0.11	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Thallium	ND		1.1	0.33	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Vanadium	50		1.1	0.15	mg/Kg		01/04/19 14:17	01/08/19 01:33	4
Zinc	920		3.4	1.4	mg/Kg		01/04/19 14:17	01/08/19 01:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.80		0.016	0.0023	mg/Kg		01/08/19 10:23	01/08/19 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AP6S-3.5-4

Date Collected: 12/21/18 08:42
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.1	B	1.7	0.29	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Arsenic	64	B	3.5	0.30	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Barium	460	B	1.7	0.25	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Beryllium	0.42		0.35	0.11	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Cadmium	2.1		0.43	0.043	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Chromium	36		1.7	0.18	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Cobalt	8.6		0.70	0.070	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Copper	130		5.2	2.5	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Lead	460	B	1.7	0.37	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Molybdenum	1.4	J	1.7	0.22	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Nickel	33		1.7	0.18	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Selenium	0.99	J	3.5	0.52	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Silver	1.0		0.87	0.18	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Thallium	ND		1.7	0.50	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Vanadium	35		1.7	0.24	mg/Kg		01/04/19 14:17	01/08/19 01:38	4
Zinc	670		5.2	2.2	mg/Kg		01/04/19 14:17	01/08/19 01:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.016	0.0024	mg/Kg		01/08/19 10:23	01/08/19 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.3		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AQ6S-0.5-1

Date Collected: 12/21/18 08:47
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8	B	1.8	0.30	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Arsenic	9.1	B	3.6	0.31	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Barium	210	B	1.8	0.26	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Beryllium	0.66		0.36	0.12	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Cadmium	1.6		0.45	0.045	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Chromium	37		1.8	0.19	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Cobalt	8.6		0.72	0.072	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Copper	150		5.4	2.6	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Lead	320	B	1.8	0.38	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Molybdenum	1.9		1.8	0.23	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Nickel	39		1.8	0.18	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Selenium	ND		3.6	0.54	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Silver	ND		0.90	0.18	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Thallium	ND		1.8	0.52	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Vanadium	49		1.8	0.25	mg/Kg		01/04/19 14:17	01/08/19 01:42	4
Zinc	280		5.4	2.3	mg/Kg		01/04/19 14:17	01/08/19 01:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.015	0.0023	mg/Kg		01/08/19 10:23	01/08/19 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AQ6S-3.5-4

Date Collected: 12/21/18 08:48
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	B	1.5	0.25	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Arsenic	14		3.0	0.26	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Barium	66		1.5	0.22	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Beryllium	0.42		0.30	0.098	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Cadmium	0.17	J	0.38	0.038	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Chromium	17	B	1.5	0.16	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Cobalt	5.4		0.61	0.061	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Copper	17		4.5	2.2	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Lead	25		1.5	0.32	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Molybdenum	0.33	J	1.5	0.19	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Nickel	20		1.5	0.15	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Selenium	ND		3.0	0.45	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Silver	ND		0.76	0.15	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Thallium	ND		1.5	0.44	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Vanadium	33		1.5	0.21	mg/Kg		01/04/19 14:17	01/07/19 21:37	4
Zinc	40		4.5	1.9	mg/Kg		01/04/19 14:17	01/07/19 21:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.015	0.0023	mg/Kg		01/08/19 10:23	01/08/19 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.0		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AQ6S-11-11.5

Date Collected: 12/21/18 08:50
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	B	1.5	0.24	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Arsenic	19		2.9	0.25	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Barium	63		1.5	0.21	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Beryllium	1.0		0.29	0.096	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Cadmium	0.65		0.37	0.036	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Chromium	27	B	1.5	0.16	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Cobalt	12		0.59	0.059	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Copper	32		4.4	2.1	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Lead	65		1.5	0.31	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Molybdenum	0.74	J	1.5	0.19	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Nickel	29		1.5	0.15	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Selenium	ND		2.9	0.44	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Silver	ND		0.74	0.15	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Thallium	ND		1.5	0.43	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Vanadium	35		1.5	0.20	mg/Kg		01/04/19 14:17	01/07/19 21:42	4
Zinc	170		4.4	1.9	mg/Kg		01/04/19 14:17	01/07/19 21:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.014	0.0021	mg/Kg		01/08/19 10:23	01/08/19 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AR6S-0.5-1

Date Collected: 12/21/18 09:00
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.4	B	1.4	0.23	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Arsenic	11		2.8	0.24	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Barium	260		1.4	0.20	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Beryllium	0.44		0.28	0.090	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Cadmium	3.0		0.35	0.034	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Chromium	47	B	1.4	0.15	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Cobalt	8.6		0.56	0.056	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Copper	220		4.2	2.0	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Lead	570		1.4	0.29	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Molybdenum	5.0		1.4	0.18	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Nickel	48		1.4	0.14	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Selenium	0.44	J	2.8	0.42	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Silver	0.33	J	0.69	0.14	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Thallium	ND		1.4	0.40	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Vanadium	31		1.4	0.19	mg/Kg		01/04/19 14:17	01/07/19 21:46	4
Zinc	530		4.2	1.8	mg/Kg		01/04/19 14:17	01/07/19 21:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AR6S-3.5-4

Date Collected: 12/21/18 09:02
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	J B	1.8	0.30	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Arsenic	13		3.7	0.31	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Barium	34		1.8	0.26	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Beryllium	0.13	J	0.37	0.12	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Cadmium	0.23	J	0.46	0.046	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Chromium	26	B	1.8	0.19	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Cobalt	3.5		0.73	0.073	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Copper	26		5.5	2.6	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Lead	75		1.8	0.39	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Molybdenum	0.29	J	1.8	0.23	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Nickel	29		1.8	0.19	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Selenium	ND		3.7	0.55	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Silver	ND		0.92	0.19	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Thallium	ND		1.8	0.53	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Vanadium	12		1.8	0.25	mg/Kg		01/04/19 14:17	01/07/19 21:51	4
Zinc	44		5.5	2.3	mg/Kg		01/04/19 14:17	01/07/19 21:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.8		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AS6S-0.5-1

Date Collected: 12/21/18 09:10
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.3	B	1.4	0.23	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Arsenic	17		2.8	0.24	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Barium	150		1.4	0.20	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Beryllium	0.45		0.28	0.091	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Cadmium	1.9		0.35	0.035	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Chromium	47	B	1.4	0.15	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Cobalt	9.6		0.56	0.056	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Copper	160		4.2	2.0	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Lead	360		1.4	0.29	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Molybdenum	3.2		1.4	0.18	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Nickel	56		1.4	0.14	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Selenium	0.87	J	2.8	0.42	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Silver	ND		0.70	0.14	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Thallium	ND		1.4	0.41	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Vanadium	36		1.4	0.19	mg/Kg		01/04/19 14:17	01/07/19 21:56	4
Zinc	330		4.2	1.8	mg/Kg		01/04/19 14:17	01/07/19 21:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.45		0.016	0.0024	mg/Kg		01/08/19 10:23	01/08/19 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AS6S-3.5-4

Date Collected: 12/21/18 09:12
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.79	J B	1.5	0.25	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Arsenic	17		3.0	0.26	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Barium	89		1.5	0.22	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Beryllium	0.12	J	0.30	0.098	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Cadmium	0.19	J	0.38	0.038	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Chromium	8.0	B	1.5	0.16	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Cobalt	4.4		0.61	0.061	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Copper	16		4.5	2.2	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Lead	35		1.5	0.32	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Molybdenum	0.23	J	1.5	0.19	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Nickel	7.6		1.5	0.15	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Selenium	ND		3.0	0.45	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Silver	ND		0.76	0.15	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Thallium	ND		1.5	0.44	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Vanadium	23		1.5	0.21	mg/Kg		01/04/19 14:17	01/07/19 22:01	4
Zinc	60		4.5	1.9	mg/Kg		01/04/19 14:17	01/07/19 22:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0025	mg/Kg		01/08/19 10:23	01/08/19 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.3		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AT6S-0.5-1

Date Collected: 12/21/18 09:20
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.1	B	2.7	0.45	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Arsenic	12		5.5	0.46	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Barium	190		2.7	0.39	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Beryllium	ND		0.55	0.18	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Cadmium	4.6		0.68	0.068	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Chromium	86	B	2.7	0.29	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Cobalt	15		1.1	0.11	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Copper	530		8.2	3.9	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Lead	860		2.7	0.57	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Molybdenum	9.7		2.7	0.35	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Nickel	78		2.7	0.28	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Selenium	ND		5.5	0.82	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Silver	0.60	J	1.4	0.28	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Thallium	ND		2.7	0.79	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Vanadium	50		2.7	0.37	mg/Kg		01/04/19 14:17	01/08/19 13:05	10
Zinc	900		8.2	3.5	mg/Kg		01/04/19 14:17	01/08/19 13:05	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.60		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AT6S-3.5-4

Date Collected: 12/21/18 09:22
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.89	J B	1.4	0.23	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Arsenic	6.0		2.8	0.23	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Barium	73		1.4	0.20	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Beryllium	0.57		0.28	0.090	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Cadmium	0.16	J	0.34	0.034	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Chromium	13	B	1.4	0.15	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Cobalt	6.8		0.55	0.055	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Copper	16		4.1	2.0	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Lead	12		1.4	0.29	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Molybdenum	0.49	J	1.4	0.18	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Nickel	16		1.4	0.14	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Selenium	ND		2.8	0.41	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Silver	ND		0.69	0.14	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Thallium	ND		1.4	0.40	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Vanadium	51		1.4	0.19	mg/Kg		01/04/19 14:17	01/07/19 22:10	4
Zinc	38		4.1	1.8	mg/Kg		01/04/19 14:17	01/07/19 22:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.016	0.0023	mg/Kg		01/08/19 10:23	01/08/19 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.8		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AU6S-0.5-1

Date Collected: 12/21/18 09:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.8	B	2.8	0.47	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Arsenic	15		5.6	0.48	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Barium	200		2.8	0.40	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Beryllium	ND		0.56	0.18	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Cadmium	5.4		0.71	0.070	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Chromium	84	B	2.8	0.30	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Cobalt	13		1.1	0.11	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Copper	510		8.5	4.0	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Lead	600		2.8	0.59	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Molybdenum	9.3		2.8	0.36	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Nickel	80		2.8	0.29	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Selenium	ND		5.6	0.85	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Silver	0.81	J	1.4	0.29	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Thallium	ND		2.8	0.82	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Vanadium	32		2.8	0.38	mg/Kg		01/04/19 14:17	01/08/19 13:19	10
Zinc	750		8.5	3.6	mg/Kg		01/04/19 14:17	01/08/19 13:19	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.57		0.014	0.0021	mg/Kg		01/08/19 10:23	01/08/19 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.2		0.1	0.05	%			12/26/18 11:30	1

Client Sample ID: DG-AU6S-3.5-4

Date Collected: 12/21/18 09:32
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.7	B	1.1	0.18	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Arsenic	110		2.2	0.19	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Barium	79		1.1	0.16	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Beryllium	0.74		0.22	0.071	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Cadmium	0.50		0.27	0.027	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Chromium	18	B	1.1	0.12	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Cobalt	8.8		0.44	0.044	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Copper	140		3.3	1.6	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Lead	320		1.1	0.23	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Molybdenum	1.3		1.1	0.14	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Nickel	27		1.1	0.11	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Selenium	1.1	J	2.2	0.33	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Silver	ND		0.55	0.11	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Thallium	ND		1.1	0.32	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Vanadium	57		1.1	0.15	mg/Kg		01/04/19 14:17	01/07/19 22:29	4
Zinc	110		3.3	1.4	mg/Kg		01/04/19 14:17	01/07/19 22:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.016	0.0023	mg/Kg		01/08/19 10:23	01/08/19 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AV6S-0.5-1

Date Collected: 12/21/18 09:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.9	F1	1.6	0.26	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Arsenic	12	F1	3.1	0.27	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Barium	300		1.6	0.22	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Beryllium	0.39	F1	0.31	0.10	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Cadmium	2.3	F1	0.39	0.039	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Chromium	47	F2 F1 B	1.6	0.17	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Cobalt	16		0.63	0.063	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Copper	190		4.7	2.2	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Lead	290		1.6	0.33	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Molybdenum	4.3		1.6	0.20	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Nickel	55	F2 F1	1.6	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Selenium	1.1	J	3.1	0.47	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Silver	0.30	J F1	0.78	0.16	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Thallium	ND	F1	1.6	0.45	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Vanadium	40	F1	1.6	0.21	mg/Kg		01/03/19 11:10	01/07/19 18:09	4
Zinc	360		4.7	2.0	mg/Kg		01/03/19 11:10	01/07/19 18:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.016	0.0023	mg/Kg		01/08/19 14:00	01/08/19 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AV6S-3.5-4

Date Collected: 12/21/18 09:47
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	51	B	3.0	0.49	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Arsenic	32		5.9	0.50	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Barium	1600		3.0	0.42	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Beryllium	0.94		0.59	0.19	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Cadmium	6.3		0.74	0.073	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Chromium	56	B	3.0	0.31	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Cobalt	13		1.2	0.12	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Copper	1200		8.9	4.2	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Lead	5400		3.0	0.62	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Molybdenum	4.2		3.0	0.38	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Nickel	50		3.0	0.30	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Selenium	3.4	J	5.9	0.89	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Silver	9.1		1.5	0.30	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Thallium	ND		3.0	0.86	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Vanadium	27		3.0	0.40	mg/Kg		01/04/19 14:17	01/07/19 22:34	10
Zinc	4200		8.9	3.8	mg/Kg		01/04/19 14:17	01/07/19 22:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.5		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DUP-41

Date Collected: 12/21/18 09:48
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	190	B	3.5	0.58	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Arsenic	34		7.0	0.59	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Barium	1800		3.5	0.50	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Beryllium	1.0		0.70	0.23	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Cadmium	6.0		0.87	0.087	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Chromium	71	B	3.5	0.37	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Cobalt	11		1.4	0.14	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Copper	1300		10	5.0	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Lead	10000		3.5	0.73	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Molybdenum	3.1	J	3.5	0.45	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Nickel	60		3.5	0.36	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Selenium	3.9	J	7.0	1.0	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Silver	7.6		1.7	0.35	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Thallium	ND		3.5	1.0	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Vanadium	46		3.5	0.48	mg/Kg		01/04/19 14:17	01/07/19 22:39	10
Zinc	3900		10	4.4	mg/Kg		01/04/19 14:17	01/07/19 22:39	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.015	0.0022	mg/Kg		01/08/19 10:23	01/08/19 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.9		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AV6S-7-7.5

Date Collected: 12/21/18 09:50
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2	B	1.6	0.27	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Arsenic	23		3.3	0.28	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Barium	100		1.6	0.23	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Beryllium	1.1		0.33	0.11	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Cadmium	0.67		0.41	0.041	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Chromium	38	B	1.6	0.17	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Cobalt	16		0.66	0.066	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Copper	89		4.9	2.3	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Lead	120		1.6	0.34	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Molybdenum	1.2	J	1.6	0.21	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Nickel	44		1.6	0.17	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Selenium	0.58	J	3.3	0.49	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Silver	ND		0.82	0.17	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Thallium	ND		1.6	0.48	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Vanadium	53		1.6	0.22	mg/Kg		01/04/19 14:17	01/07/19 22:43	4
Zinc	310		4.9	2.1	mg/Kg		01/04/19 14:17	01/07/19 22:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.016	0.0024	mg/Kg		01/08/19 10:23	01/08/19 16:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AW6S-0.5-1

Date Collected: 12/21/18 10:17
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	F1 B	1.4	0.23	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Arsenic	4.7	B F1	2.8	0.24	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Barium	98	F1 B	1.4	0.20	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Beryllium	0.57		0.28	0.092	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Cadmium	0.73		0.35	0.035	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Chromium	27	F1	1.4	0.15	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Cobalt	7.7		0.56	0.056	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Copper	77	F1	4.2	2.0	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Lead	140	F1 B	1.4	0.30	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Molybdenum	1.2	J	1.4	0.18	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Nickel	30	F1	1.4	0.14	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Selenium	0.47	J	2.8	0.42	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Silver	ND		0.70	0.14	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Thallium	ND		1.4	0.41	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Vanadium	34	F1	1.4	0.19	mg/Kg		01/04/19 14:17	01/07/19 23:54	4
Zinc	220	F2	4.2	1.8	mg/Kg		01/04/19 14:17	01/07/19 23:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.098		0.017	0.0025	mg/Kg		01/08/19 14:00	01/08/19 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.2		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AW6S-3.5-4

Date Collected: 12/21/18 10:19
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	39	B	8.8	1.5	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Arsenic	23		18	1.5	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Barium	1700		8.8	1.2	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Beryllium	ND		1.8	0.57	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Cadmium	5.0		2.2	0.22	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Chromium	61	B	8.8	0.93	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Cobalt	10		3.5	0.35	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Copper	4300		26	12	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Lead	5700		8.8	1.8	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Molybdenum	2.6	J	8.8	1.1	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Nickel	54		8.8	0.89	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Selenium	ND		18	2.6	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Silver	11		4.4	0.89	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Thallium	ND		8.8	2.5	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Vanadium	31		8.8	1.2	mg/Kg		01/04/19 14:17	01/07/19 22:48	20
Zinc	3100		26	11	mg/Kg		01/04/19 14:17	01/07/19 22:48	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.54		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.6		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DUP-43

Date Collected: 12/21/18 10:21
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	33	B	4.3	0.72	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Arsenic	22		8.6	0.73	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Barium	1200		4.3	0.61	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Beryllium	0.92		0.86	0.28	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Cadmium	4.5		1.1	0.11	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Chromium	50	B	4.3	0.46	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Cobalt	9.4		1.7	0.17	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Copper	7500		13	6.1	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Lead	4300		4.3	0.91	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Molybdenum	2.8	J	4.3	0.55	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Nickel	56		4.3	0.44	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Selenium	ND		8.6	1.3	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Silver	10		2.2	0.44	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Thallium	ND		4.3	1.3	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Vanadium	37		4.3	0.59	mg/Kg		01/04/19 14:17	01/07/19 22:53	10
Zinc	3000		13	5.5	mg/Kg		01/04/19 14:17	01/07/19 22:53	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.017	0.0025	mg/Kg		01/08/19 14:00	01/08/19 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.4		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AV8S-0.5-1

Date Collected: 12/21/18 10:25
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	38	B	3.8	0.63	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Arsenic	29		7.6	0.64	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Barium	1500		3.8	0.54	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Beryllium	1.3		0.76	0.25	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Cadmium	17		0.95	0.094	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Chromium	71	B	3.8	0.40	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Cobalt	15		1.5	0.15	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Copper	1400		11	5.4	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Lead	3400		3.8	0.80	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Molybdenum	3.8		3.8	0.48	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Nickel	71		3.8	0.39	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Selenium	4.2	J	7.6	1.1	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Silver	5.6		1.9	0.38	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Thallium	ND		3.8	1.1	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Vanadium	45		3.8	0.52	mg/Kg		01/04/19 14:17	01/07/19 22:57	10
Zinc	6500		11	4.8	mg/Kg		01/04/19 14:17	01/07/19 22:57	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.014	0.0021	mg/Kg		01/08/19 14:00	01/08/19 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.1		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AV8S-3.5-4

Date Collected: 12/21/18 10:27
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	50	F2 F1 B	5.0	0.82	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Arsenic	19		9.9	0.84	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Barium	990		5.0	0.70	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Beryllium	0.87	J	0.99	0.32	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Cadmium	5.7		1.2	0.12	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Chromium	47	B F1	5.0	0.52	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Cobalt	7.4		2.0	0.20	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Copper	1600		15	7.1	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Lead	5800	F2	5.0	1.0	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Molybdenum	3.3	J	5.0	0.63	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Nickel	40	F1	5.0	0.50	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Selenium	3.9	J	9.9	1.5	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Silver	6.8		2.5	0.50	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Thallium	ND		5.0	1.4	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Vanadium	28	F1	5.0	0.67	mg/Kg		01/04/19 14:17	01/07/19 21:32	10
Zinc	5500		15	6.3	mg/Kg		01/04/19 14:17	01/07/19 21:32	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.016	0.0024	mg/Kg		01/09/19 10:50	01/09/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.0		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DUP-42

Date Collected: 12/21/18 10:28
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	25	B	4.3	0.71	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Arsenic	26		8.5	0.73	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Barium	1400		4.3	0.61	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Beryllium	0.65	J	0.85	0.28	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Cadmium	5.4		1.1	0.11	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Chromium	64	B	4.3	0.45	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Cobalt	11		1.7	0.17	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Copper	1100		13	6.1	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Lead	3400		4.3	0.90	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Molybdenum	4.3		4.3	0.55	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Nickel	60		4.3	0.44	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Selenium	ND		8.5	1.3	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Silver	5.6		2.1	0.43	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Thallium	ND		4.3	1.2	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Vanadium	39		4.3	0.58	mg/Kg		01/04/19 14:17	01/07/19 23:02	10
Zinc	2900		13	5.4	mg/Kg		01/04/19 14:17	01/07/19 23:02	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.94		0.015	0.0021	mg/Kg		01/08/19 14:00	01/08/19 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.1		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AU8S-0.5-1

Date Collected: 12/21/18 10:44
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	79	B	4.7	0.78	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Arsenic	48		9.3	0.79	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Barium	2000		4.7	0.66	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Beryllium	1.2		0.93	0.30	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Cadmium	10		1.2	0.12	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Chromium	100	B	4.7	0.50	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Cobalt	16		1.9	0.19	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Copper	1700		14	6.7	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Lead	7900		4.7	0.98	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Molybdenum	5.9		4.7	0.60	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Nickel	99		4.7	0.48	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Selenium	7.3	J	9.3	1.4	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Silver	17		2.3	0.47	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Thallium	ND		4.7	1.4	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Vanadium	53		4.7	0.64	mg/Kg		01/04/19 14:17	01/07/19 23:07	10
Zinc	5200		14	5.9	mg/Kg		01/04/19 14:17	01/07/19 23:07	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9		0.058	0.0086	mg/Kg		01/08/19 14:00	01/08/19 17:29	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.7		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AU8S-3.5-4

Date Collected: 12/21/18 10:45
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	35	B	4.6	0.76	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Arsenic	24		9.2	0.78	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Barium	1700		4.6	0.65	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Beryllium	0.95		0.92	0.30	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Cadmium	5.8		1.1	0.11	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Chromium	58	B	4.6	0.49	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Cobalt	13		1.8	0.18	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Copper	3000		14	6.5	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Lead	4900		4.6	0.96	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Molybdenum	4.0	J	4.6	0.59	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Nickel	63		4.6	0.47	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Selenium	2.6	J	9.2	1.4	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Silver	6.6		2.3	0.46	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Thallium	ND		4.6	1.3	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Vanadium	32		4.6	0.62	mg/Kg		01/04/19 14:17	01/07/19 23:21	10
Zinc	3400		14	5.8	mg/Kg		01/04/19 14:17	01/07/19 23:21	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 18:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.4		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AT8S-0.5-1

Date Collected: 12/21/18 10:58
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.9	0.32	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Arsenic	4.3		3.8	0.32	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Barium	83	B	1.9	0.27	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Beryllium	0.37	J	0.38	0.12	mg/Kg		12/26/18 13:47	01/03/19 12:58	4
Cadmium	ND		0.48	0.047	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Chromium	18		1.9	0.20	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Cobalt	10		0.76	0.076	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Copper	130		5.7	2.7	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Lead	39	B ^	1.9	0.40	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Molybdenum	0.89	J	1.9	0.24	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Nickel	24		1.9	0.19	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Selenium	ND		3.8	0.57	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Silver	ND		0.95	0.19	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Thallium	ND		1.9	0.55	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Vanadium	100		1.9	0.26	mg/Kg		12/26/18 13:47	12/31/18 20:30	4
Zinc	120		5.7	2.4	mg/Kg		12/26/18 13:47	12/31/18 20:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.017	0.0025	mg/Kg		01/08/19 14:00	01/08/19 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AT8S-3.5-4

Date Collected: 12/21/18 10:59
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	18		1.9	0.32	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Arsenic	38		3.9	0.33	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Barium	1200	B	1.9	0.28	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Beryllium	0.43		0.39	0.13	mg/Kg		12/26/18 13:47	01/03/19 13:02	4
Cadmium	3.6		0.49	0.048	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Chromium	56		1.9	0.21	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Cobalt	8.5		0.78	0.078	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Copper	720		5.8	2.8	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Lead	4400	B ^	1.9	0.41	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Molybdenum	0.61	J	1.9	0.25	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Nickel	47		1.9	0.20	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Selenium	ND		3.9	0.58	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Silver	5.9		0.97	0.20	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Thallium	0.64	J	1.9	0.56	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Vanadium	25		1.9	0.26	mg/Kg		12/26/18 13:47	12/31/18 20:35	4
Zinc	2500		5.8	2.5	mg/Kg		12/26/18 13:47	12/31/18 20:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.66		0.016	0.0024	mg/Kg		01/08/19 14:00	01/08/19 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.4		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AS8S-0.5-1

Date Collected: 12/21/18 11:08
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.8	F1	1.8	0.29	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Arsenic	130		3.5	0.30	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Barium	190	B	1.8	0.25	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Beryllium	0.42		0.35	0.11	mg/Kg		12/26/18 13:47	01/03/19 12:53	4
Cadmium	0.50		0.44	0.044	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Chromium	43	F1	1.8	0.19	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Cobalt	12		0.70	0.070	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Copper	230	F2	5.3	2.5	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Lead	450	B ^	1.8	0.37	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Molybdenum	0.89	J	1.8	0.22	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Nickel	71	F1 F2	1.8	0.18	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Selenium	ND		3.5	0.53	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Silver	0.73	J	0.88	0.18	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Thallium	ND		1.8	0.51	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Vanadium	51	F1	1.8	0.24	mg/Kg		12/26/18 13:47	12/31/18 20:26	4
Zinc	340		5.3	2.2	mg/Kg		12/26/18 13:47	12/31/18 20:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.97	F1 F2	0.016	0.0023	mg/Kg		01/08/19 14:00	01/08/19 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AS8S-3.5-4

Date Collected: 12/21/18 11:09
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.7	0.28	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Arsenic	110		3.4	0.29	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Barium	77	B	1.7	0.24	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Beryllium	0.41		0.34	0.11	mg/Kg		12/26/18 13:47	01/03/19 13:07	4
Cadmium	ND		0.43	0.042	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Chromium	52		1.7	0.18	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Cobalt	14		0.68	0.068	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Copper	13		5.1	2.4	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Lead	17		1.7	0.36	mg/Kg		12/26/18 13:47	01/03/19 13:07	4
Molybdenum	ND		1.7	0.22	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Nickel	41		1.7	0.17	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Selenium	ND		3.4	0.51	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Silver	ND		0.85	0.17	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Thallium	ND		1.7	0.50	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Vanadium	52		1.7	0.23	mg/Kg		12/26/18 13:47	12/31/18 20:49	4
Zinc	40		5.1	2.2	mg/Kg		12/26/18 13:47	12/31/18 20:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.3		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DUP-58

Date Collected: 12/21/18 11:10
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	10		1.3	0.21	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Arsenic	200		2.5	0.21	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Barium	290	B	1.3	0.18	mg/Kg		12/26/18 13:47	12/31/18 20:54	4
Beryllium	0.25		0.25	0.082	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Cadmium	1.1		0.31	0.031	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Chromium	47		1.3	0.13	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Cobalt	14		0.50	0.050	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Copper	300		3.8	1.8	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Lead	610		1.3	0.26	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Molybdenum	1.3		1.3	0.16	mg/Kg		12/26/18 13:47	12/31/18 20:54	4
Nickel	87		1.3	0.13	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Selenium	0.43	J	2.5	0.38	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Silver	0.70		0.63	0.13	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Thallium	ND		1.3	0.36	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Vanadium	58		1.3	0.17	mg/Kg		12/26/18 13:47	01/03/19 13:21	4
Zinc	510		3.8	1.6	mg/Kg		12/26/18 13:47	12/31/18 20:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.015	0.0023	mg/Kg		01/08/19 14:00	01/08/19 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.9		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AR8S-0.5-1

Date Collected: 12/21/18 11:25
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.6		1.1	0.18	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Arsenic	9.5		2.2	0.18	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Barium	220	B	1.1	0.15	mg/Kg		12/26/18 13:47	12/31/18 20:58	4
Beryllium	0.12	J	0.22	0.070	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Cadmium	3.1		0.27	0.027	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Chromium	49		1.1	0.11	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Cobalt	9.9		0.43	0.043	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Copper	240		3.2	1.5	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Lead	450		1.1	0.23	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Molybdenum	3.4		1.1	0.14	mg/Kg		12/26/18 13:47	12/31/18 20:58	4
Nickel	56		1.1	0.11	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Selenium	0.82	J	2.2	0.32	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Silver	0.66		0.54	0.11	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Thallium	ND		1.1	0.31	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Vanadium	38		1.1	0.15	mg/Kg		12/26/18 13:47	01/03/19 13:25	4
Zinc	1600		3.2	1.4	mg/Kg		12/26/18 13:47	12/31/18 20:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.05	%			12/26/18 12:07	1

Client Sample ID: DG-AR8S-3.5-4

Date Collected: 12/21/18 11:26
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	23		1.1	0.19	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Arsenic	31		2.3	0.19	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Barium	430		1.1	0.16	mg/Kg		12/26/18 13:47	12/31/18 21:03	4
Beryllium	0.22	J	0.23	0.073	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Cadmium	0.58		0.28	0.028	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Chromium	19		1.1	0.12	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Cobalt	7.3		0.45	0.045	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Copper	180		3.4	1.6	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Lead	1600		1.1	0.24	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Molybdenum	1.6		1.1	0.14	mg/Kg		12/26/18 13:47	12/31/18 21:03	4
Nickel	25		1.1	0.12	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Selenium	0.51	J	2.3	0.34	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Silver	1.3		0.56	0.11	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Thallium	0.34	J	1.1	0.33	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Vanadium	34		1.1	0.15	mg/Kg		12/26/18 13:47	01/03/19 13:30	4
Zinc	540		3.4	1.4	mg/Kg		12/26/18 13:47	12/31/18 21:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.078		0.015	0.0022	mg/Kg		01/08/19 14:00	01/08/19 18:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		0.1	0.05	%			12/26/18 13:58	1

Client Sample ID: DG-AQ8S-0.5-1

Date Collected: 12/21/18 11:30
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	11		1.8	0.30	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Arsenic	16		3.6	0.30	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Barium	280	B	1.8	0.25	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Beryllium	0.13	J	0.36	0.12	mg/Kg		12/26/18 13:47	01/03/19 13:35	4
Cadmium	8.6		0.45	0.044	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Chromium	96		1.8	0.19	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Cobalt	15		0.71	0.071	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Copper	450		5.4	2.5	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Lead	870	B ^	1.8	0.38	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Molybdenum	11		1.8	0.23	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Nickel	110		1.8	0.18	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Selenium	ND		3.6	0.54	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Silver	1.0		0.89	0.18	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Thallium	ND		1.8	0.52	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Vanadium	40		1.8	0.24	mg/Kg		12/26/18 13:47	12/31/18 21:07	4
Zinc	1300		5.4	2.3	mg/Kg		12/26/18 13:47	12/31/18 21:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.95		0.016	0.0023	mg/Kg		01/08/19 14:00	01/08/19 18:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.5		0.1	0.05	%			12/26/18 13:58	1

Client Sample ID: DG-AQ8S-3.5-4

Date Collected: 12/21/18 11:31
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-38

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	44		3.0	0.50	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Arsenic	35		6.0	0.51	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Barium	1200	B	1.2	0.17	mg/Kg		12/26/18 13:47	12/31/18 21:12	4
Beryllium	0.30		0.24	0.078	mg/Kg		12/26/18 13:47	01/03/19 13:39	4
Cadmium	6.0		0.75	0.075	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Chromium	49		3.0	0.32	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Cobalt	13		1.2	0.12	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Copper	1000		9.0	4.3	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Lead	4500	^	3.0	0.63	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Molybdenum	1.5		1.2	0.15	mg/Kg		12/26/18 13:47	12/31/18 21:12	4
Nickel	61		3.0	0.31	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Selenium	ND		6.0	0.90	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Silver	8.4		1.5	0.30	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Thallium	1.8	J	3.0	0.87	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Vanadium	29		3.0	0.41	mg/Kg		12/26/18 13:47	01/03/19 19:32	10
Zinc	2400		3.6	1.5	mg/Kg		12/26/18 13:47	12/31/18 21:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.90		0.016	0.0023	mg/Kg		01/08/19 14:00	01/08/19 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.6		0.1	0.05	%			12/26/18 13:58	1

Client Sample ID: DG-AQ8S-8-8.5

Date Collected: 12/21/18 11:32
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-39

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3		1.8	0.30	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Arsenic	16		3.6	0.30	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Barium	130	B	1.8	0.25	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Beryllium	0.62		0.36	0.12	mg/Kg		12/26/18 13:47	01/03/19 13:44	4
Cadmium	ND		0.45	0.044	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Chromium	36		1.8	0.19	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Cobalt	11		0.71	0.071	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Copper	75		5.4	2.5	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Lead	290	B ^	1.8	0.38	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Molybdenum	0.85	J	1.8	0.23	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Nickel	36		1.8	0.18	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Selenium	ND		3.6	0.54	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Silver	0.31	J	0.89	0.18	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Thallium	ND		1.8	0.52	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Vanadium	45		1.8	0.24	mg/Kg		12/26/18 13:47	12/31/18 21:17	4
Zinc	200		5.4	2.3	mg/Kg		12/26/18 13:47	12/31/18 21:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.015	0.0021	mg/Kg		01/08/19 14:00	01/08/19 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			12/26/18 13:58	1

Client Sample ID: DG-AP8S-0.5-1

Date Collected: 12/21/18 11:47
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-40

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.8	0.30	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Arsenic	6.6		3.6	0.30	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Barium	93	B	1.8	0.25	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Beryllium	0.19	J	0.36	0.12	mg/Kg		12/26/18 13:47	01/03/19 13:49	4
Cadmium	0.25	J	0.45	0.044	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Chromium	11		1.8	0.19	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Cobalt	4.9		0.71	0.071	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Copper	33		5.4	2.5	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Lead	60	B ^	1.8	0.38	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Molybdenum	ND		1.8	0.23	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Nickel	10		1.8	0.18	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Selenium	ND		3.6	0.54	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Silver	ND		0.89	0.18	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Thallium	ND		1.8	0.52	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Vanadium	25		1.8	0.24	mg/Kg		12/26/18 13:47	12/31/18 21:21	4
Zinc	120		5.4	2.3	mg/Kg		12/26/18 13:47	12/31/18 21:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.016	0.0023	mg/Kg		01/08/19 14:00	01/08/19 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			12/26/18 13:58	1

Client Sample ID: DG-AP8S-3.5-4

Date Collected: 12/21/18 11:48
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-41

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		3.9	0.64	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Arsenic	21		7.8	0.66	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Barium	1100	B	1.6	0.22	mg/Kg		12/26/18 13:47	12/31/18 21:26	4
Beryllium	0.16	J	0.31	0.10	mg/Kg		12/26/18 13:47	01/03/19 13:53	4
Cadmium	3.0		0.97	0.096	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Chromium	54		3.9	0.41	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Cobalt	11		1.6	0.16	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Copper	530		12	5.5	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Lead	2400	^	3.9	0.81	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Molybdenum	0.91	J	1.6	0.20	mg/Kg		12/26/18 13:47	12/31/18 21:26	4
Nickel	40		3.9	0.40	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Selenium	ND		7.8	1.2	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Silver	4.0		1.9	0.39	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Thallium	1.6	J	3.9	1.1	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Vanadium	20		3.9	0.53	mg/Kg		12/26/18 13:47	01/03/19 19:36	10
Zinc	2200		4.7	2.0	mg/Kg		12/26/18 13:47	12/31/18 21:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.80		0.016	0.0023	mg/Kg		01/08/19 14:00	01/08/19 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.4		0.1	0.05	%			12/26/18 13:58	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-257579/1-A
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Arsenic	ND		1.0	0.085	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Barium	ND		0.50	0.071	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Beryllium	ND		0.10	0.033	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Cadmium	ND		0.13	0.012	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Chromium	0.0640	J	0.50	0.053	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Cobalt	ND		0.20	0.020	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Copper	ND		1.5	0.71	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Lead	ND		0.50	0.11	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Nickel	ND		0.50	0.051	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Selenium	ND		1.0	0.15	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Silver	ND		0.25	0.051	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Thallium	ND		0.50	0.15	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Vanadium	ND		0.50	0.068	mg/Kg		01/03/19 11:10	01/07/19 17:41	1
Zinc	ND		1.5	0.64	mg/Kg		01/03/19 11:10	01/07/19 17:41	1

Lab Sample ID: LCS 720-257579/2-A
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.1		mg/Kg		102	80 - 120
Arsenic	50.0	51.0		mg/Kg		102	80 - 120
Barium	50.0	50.9		mg/Kg		102	80 - 120
Beryllium	50.0	53.1		mg/Kg		106	80 - 120
Cadmium	50.0	51.0		mg/Kg		102	80 - 120
Chromium	50.0	51.7		mg/Kg		103	80 - 120
Cobalt	50.0	51.6		mg/Kg		103	80 - 120
Copper	50.0	51.1		mg/Kg		102	80 - 120
Lead	50.0	51.9		mg/Kg		104	80 - 120
Molybdenum	50.0	52.2		mg/Kg		104	80 - 120
Nickel	50.0	51.7		mg/Kg		103	80 - 120
Selenium	50.0	49.4		mg/Kg		99	80 - 120
Silver	25.0	24.8		mg/Kg		99	80 - 120
Thallium	50.0	51.8		mg/Kg		104	80 - 120
Vanadium	50.0	51.2		mg/Kg		102	80 - 120
Zinc	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: 720-90507-18 MS
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: DG-AV6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.9	F1	39.4	14.9	F1	mg/Kg		23	75 - 125
Arsenic	12	F1	39.4	59.0		mg/Kg		119	75 - 125
Barium	300		39.4	239	4	mg/Kg		-148	75 - 125
Beryllium	0.39	F1	39.4	51.3	F1	mg/Kg		129	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90507-18 MS
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: DG-AV6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	2.3	F1	39.4	49.9		mg/Kg		121	75 - 125
Chromium	47	F2 F1 B	39.4	129	F1	mg/Kg		208	75 - 125
Cobalt	16		39.4	61.3		mg/Kg		115	75 - 125
Copper	190		39.4	252	4	mg/Kg		145	75 - 125
Lead	290		39.4	423	4	mg/Kg		329	75 - 125
Molybdenum	4.3		39.4	50.7		mg/Kg		118	75 - 125
Nickel	55	F2 F1	39.4	137	F1	mg/Kg		208	75 - 125
Selenium	1.1	J	39.4	47.5		mg/Kg		118	75 - 125
Silver	0.30	J F1	19.7	24.5		mg/Kg		123	75 - 125
Thallium	ND	F1	39.4	50.3	F1	mg/Kg		128	75 - 125
Vanadium	40	F1	39.4	95.3	F1	mg/Kg		140	75 - 125
Zinc	360		39.4	454	4	mg/Kg		252	75 - 125

Lab Sample ID: 720-90507-18 MSD
Matrix: Solid
Analysis Batch: 258117

Client Sample ID: DG-AV6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.9	F1	39.1	16.6	F1	mg/Kg		27	75 - 125	10	20
Arsenic	12	F1	39.1	63.0	F1	mg/Kg		130	75 - 125	6	20
Barium	300		39.1	238	4	mg/Kg		-151	75 - 125	0	20
Beryllium	0.39	F1	39.1	52.3	F1	mg/Kg		133	75 - 125	2	20
Cadmium	2.3	F1	39.1	51.6	F1	mg/Kg		126	75 - 125	3	20
Chromium	47	F2 F1 B	39.1	101	F1 F2	mg/Kg		138	75 - 125	24	20
Cobalt	16		39.1	61.6		mg/Kg		117	75 - 125	1	20
Copper	190		39.1	239	4	mg/Kg		114	75 - 125	5	20
Lead	290		39.1	372	4	mg/Kg		202	75 - 125	13	20
Molybdenum	4.3		39.1	52.8		mg/Kg		124	75 - 125	4	20
Nickel	55	F2 F1	39.1	105	F1 F2	mg/Kg		127	75 - 125	27	20
Selenium	1.1	J	39.1	48.8		mg/Kg		122	75 - 125	3	20
Silver	0.30	J F1	19.5	25.2	F1	mg/Kg		127	75 - 125	2	20
Thallium	ND	F1	39.1	50.8	F1	mg/Kg		130	75 - 125	1	20
Vanadium	40	F1	39.1	95.9	F1	mg/Kg		143	75 - 125	1	20
Zinc	360		39.1	441	4	mg/Kg		220	75 - 125	3	20

Lab Sample ID: MB 720-257585/1-A
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.146	J	0.50	0.083	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Arsenic	0.103	J	1.0	0.085	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Barium	0.175	J	0.50	0.071	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Beryllium	ND		0.10	0.033	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Cadmium	ND		0.13	0.012	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Chromium	ND		0.50	0.053	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Cobalt	ND		0.20	0.020	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Copper	ND		1.5	0.71	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Lead	0.290	J	0.50	0.11	mg/Kg		01/04/19 14:17	01/07/19 23:26	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257585/1-A
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Nickel	ND		0.50	0.051	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Selenium	ND		1.0	0.15	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Silver	ND		0.25	0.051	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Thallium	ND		0.50	0.15	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Vanadium	ND		0.50	0.068	mg/Kg		01/04/19 14:17	01/07/19 23:26	1
Zinc	ND		1.5	0.64	mg/Kg		01/04/19 14:17	01/07/19 23:26	1

Lab Sample ID: LCS 720-257585/2-A
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.6		mg/Kg		101	80 - 120
Arsenic	50.0	50.4		mg/Kg		101	80 - 120
Barium	50.0	51.5		mg/Kg		103	80 - 120
Beryllium	50.0	50.8		mg/Kg		102	80 - 120
Cadmium	50.0	50.8		mg/Kg		102	80 - 120
Chromium	50.0	51.9		mg/Kg		104	80 - 120
Cobalt	50.0	51.9		mg/Kg		104	80 - 120
Copper	50.0	52.1		mg/Kg		104	80 - 120
Lead	50.0	51.9		mg/Kg		104	80 - 120
Molybdenum	50.0	51.8		mg/Kg		104	80 - 120
Nickel	50.0	51.6		mg/Kg		103	80 - 120
Selenium	50.0	48.9		mg/Kg		98	80 - 120
Silver	25.0	25.0		mg/Kg		100	80 - 120
Thallium	50.0	57.8		mg/Kg		116	80 - 120
Vanadium	50.0	51.6		mg/Kg		103	80 - 120
Zinc	50.0	50.7		mg/Kg		101	80 - 120

Lab Sample ID: 720-90507-22 MS
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: DG-AW6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.0	F1 B	35.0	11.5	F1	mg/Kg		27	75 - 125
Arsenic	4.7	B F1	35.0	44.3		mg/Kg		113	75 - 125
Barium	98	F1 B	35.0	180	F1	mg/Kg		234	75 - 125
Beryllium	0.57		35.0	41.0		mg/Kg		116	75 - 125
Cadmium	0.73		35.0	40.4		mg/Kg		113	75 - 125
Chromium	27	F1	35.0	73.0	F1	mg/Kg		132	75 - 125
Cobalt	7.7		35.0	49.8		mg/Kg		120	75 - 125
Copper	77	F1	35.0	143	F1	mg/Kg		190	75 - 125
Lead	140	F1 B	35.0	231	F1	mg/Kg		265	75 - 125
Molybdenum	1.2	J	35.0	40.1		mg/Kg		111	75 - 125
Nickel	30	F1	35.0	75.5	F1	mg/Kg		130	75 - 125
Selenium	0.47	J	35.0	39.9		mg/Kg		113	75 - 125
Silver	ND		17.5	20.0		mg/Kg		115	75 - 125
Thallium	ND		35.0	42.1		mg/Kg		120	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90507-22 MS
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: DG-AW6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	34	F1	35.0	88.1	F1	mg/Kg		154	75 - 125
Zinc	220	F2	35.0	287	4	mg/Kg		195	75 - 125

Lab Sample ID: 720-90507-22 MSD
Matrix: Solid
Analysis Batch: 258121

Client Sample ID: DG-AW6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.0	F1 B	34.7	10.8	F1	mg/Kg		25	75 - 125	6	20
Arsenic	4.7	B F1	34.7	48.5	F1	mg/Kg		126	75 - 125	9	20
Barium	98	F1 B	34.7	188	F1	mg/Kg		258	75 - 125	4	20
Beryllium	0.57		34.7	44.0		mg/Kg		125	75 - 125	7	20
Cadmium	0.73		34.7	41.3		mg/Kg		117	75 - 125	2	20
Chromium	27	F1	34.7	80.4	F1	mg/Kg		154	75 - 125	10	20
Cobalt	7.7		34.7	50.9		mg/Kg		124	75 - 125	2	20
Copper	77	F1	34.7	162	F1	mg/Kg		244	75 - 125	12	20
Lead	140	F1 B	34.7	268	F1	mg/Kg		372	75 - 125	15	20
Molybdenum	1.2	J	34.7	41.4		mg/Kg		116	75 - 125	3	20
Nickel	30	F1	34.7	90.4	F1	mg/Kg		174	75 - 125	18	20
Selenium	0.47	J	34.7	39.7		mg/Kg		113	75 - 125	1	20
Silver	ND		17.4	21.1		mg/Kg		121	75 - 125	5	20
Thallium	ND		34.7	39.4		mg/Kg		113	75 - 125	7	20
Vanadium	34	F1	34.7	91.4	F1	mg/Kg		165	75 - 125	4	20
Zinc	220	F2	34.7	378	4 F2	mg/Kg		459	75 - 125	27	20

Lab Sample ID: MB 720-257591/1-A
Matrix: Solid
Analysis Batch: 258120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.105	J	0.50	0.083	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Arsenic	ND		1.0	0.085	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Barium	ND		0.50	0.071	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Beryllium	ND		0.10	0.033	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Cadmium	ND		0.13	0.012	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Chromium	0.0792	J	0.50	0.053	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Cobalt	ND		0.20	0.020	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Copper	ND		1.5	0.71	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Lead	ND		0.50	0.11	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Nickel	ND		0.50	0.051	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Selenium	ND		1.0	0.15	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Silver	ND		0.25	0.051	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Thallium	ND		0.50	0.15	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Vanadium	ND		0.50	0.068	mg/Kg		01/04/19 14:17	01/07/19 20:55	1
Zinc	ND		1.5	0.64	mg/Kg		01/04/19 14:17	01/07/19 20:55	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-257591/2-A
Matrix: Solid
Analysis Batch: 258120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.5		mg/Kg		99	80 - 120
Arsenic	50.0	49.3		mg/Kg		99	80 - 120
Barium	50.0	50.2		mg/Kg		100	80 - 120
Beryllium	50.0	49.1		mg/Kg		98	80 - 120
Cadmium	50.0	49.8		mg/Kg		100	80 - 120
Chromium	50.0	50.5		mg/Kg		101	80 - 120
Cobalt	50.0	50.7		mg/Kg		101	80 - 120
Copper	50.0	51.0		mg/Kg		102	80 - 120
Lead	50.0	50.7		mg/Kg		101	80 - 120
Molybdenum	50.0	50.2		mg/Kg		100	80 - 120
Nickel	50.0	50.2		mg/Kg		100	80 - 120
Selenium	50.0	48.3		mg/Kg		97	80 - 120
Silver	25.0	24.6		mg/Kg		98	80 - 120
Thallium	50.0	51.9		mg/Kg		104	80 - 120
Vanadium	50.0	50.4		mg/Kg		101	80 - 120
Zinc	50.0	49.6		mg/Kg		99	80 - 120

Lab Sample ID: 720-90507-26 MS
Matrix: Solid
Analysis Batch: 258120

Client Sample ID: DG-AV8S-3.5-4
Prep Type: Total/NA
Prep Batch: 257591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50	F2 F1 B	49.5	81.9	F1	mg/Kg		64	75 - 125
Arsenic	19		49.5	76.8		mg/Kg		116	75 - 125
Barium	990		49.5	1840	4	mg/Kg		1711	75 - 125
Beryllium	0.87	J	49.5	54.2		mg/Kg		108	75 - 125
Cadmium	5.7		49.5	59.8		mg/Kg		109	75 - 125
Chromium	47	B F1	49.5	111	F1	mg/Kg		129	75 - 125
Cobalt	7.4		49.5	62.8		mg/Kg		112	75 - 125
Copper	1600		49.5	2440	4	mg/Kg		1740	75 - 125
Lead	5800	F2	49.5	17500	4	mg/Kg		23551	75 - 125
Molybdenum	3.3	J	49.5	55.8		mg/Kg		106	75 - 125
Nickel	40	F1	49.5	100		mg/Kg		122	75 - 125
Selenium	3.9	J	49.5	53.3		mg/Kg		100	75 - 125
Silver	6.8		24.8	34.1		mg/Kg		111	75 - 125
Thallium	ND		49.5	54.1		mg/Kg		109	75 - 125
Vanadium	28	F1	49.5	88.4		mg/Kg		123	75 - 125
Zinc	5500		49.5	6430	4	mg/Kg		1928	75 - 125

Lab Sample ID: 720-90507-26 MSD
Matrix: Solid
Analysis Batch: 258120

Client Sample ID: DG-AV8S-3.5-4
Prep Type: Total/NA
Prep Batch: 257591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50	F2 F1 B	50.0	61.3	F2 F1	mg/Kg		22	75 - 125	29	20
Arsenic	19		50.0	77.5		mg/Kg		116	75 - 125	1	20
Barium	990		50.0	2140	4	mg/Kg		2299	75 - 125	15	20
Beryllium	0.87	J	50.0	59.1		mg/Kg		116	75 - 125	9	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90507-26 MSD
Matrix: Solid
Analysis Batch: 258120

Client Sample ID: DG-AV8S-3.5-4
Prep Type: Total/NA
Prep Batch: 257591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	5.7		50.0	62.6		mg/Kg		114	75 - 125	5	20
Chromium	47	B F1	50.0	107		mg/Kg		121	75 - 125	3	20
Cobalt	7.4		50.0	64.4		mg/Kg		114	75 - 125	2	20
Copper	1600		50.0	2680	4	mg/Kg		2216	75 - 125	10	20
Lead	5800	F2	50.0	6270	4 F2	mg/Kg		960	75 - 125	94	20
Molybdenum	3.3	J	50.0	58.4		mg/Kg		110	75 - 125	5	20
Nickel	40	F1	50.0	103	F1	mg/Kg		126	75 - 125	2	20
Selenium	3.9	J	50.0	55.1		mg/Kg		102	75 - 125	3	20
Silver	6.8		25.0	35.5		mg/Kg		115	75 - 125	4	20
Thallium	ND		50.0	49.2		mg/Kg		98	75 - 125	10	20
Vanadium	28	F1	50.0	90.4	F1	mg/Kg		126	75 - 125	2	20
Zinc	5500		50.0	6400	4	mg/Kg		1853	75 - 125	0	20

Lab Sample ID: MB 720-257613/1-A
Matrix: Solid
Analysis Batch: 257834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Arsenic	ND		1.0	0.085	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Barium	0.111	J	0.50	0.071	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Cadmium	ND		0.13	0.012	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Chromium	ND		0.50	0.053	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Cobalt	ND		0.20	0.020	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Copper	ND		1.5	0.71	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Lead	0.305	J	0.50	0.11	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Nickel	ND		0.50	0.051	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Selenium	ND		1.0	0.15	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Silver	ND		0.25	0.051	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Thallium	ND		0.50	0.15	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Vanadium	ND		0.50	0.068	mg/Kg		12/26/18 13:47	12/31/18 19:58	1
Zinc	ND		1.5	0.64	mg/Kg		12/26/18 13:47	12/31/18 19:58	1

Lab Sample ID: MB 720-257613/1-A
Matrix: Solid
Analysis Batch: 257959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Arsenic	ND		1.0	0.085	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Barium	ND		0.50	0.071	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Beryllium	ND		0.10	0.033	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Cadmium	ND		0.13	0.012	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Chromium	ND		0.50	0.053	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Cobalt	ND		0.20	0.020	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Copper	ND		1.5	0.71	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Lead	ND		0.50	0.11	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Molybdenum	ND		0.50	0.064	mg/Kg		12/26/18 13:47	01/03/19 12:25	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-257613/1-A
Matrix: Solid
Analysis Batch: 257959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.50	0.051	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Selenium	ND		1.0	0.15	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Silver	ND		0.25	0.051	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Thallium	ND		0.50	0.15	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Vanadium	ND		0.50	0.068	mg/Kg		12/26/18 13:47	01/03/19 12:25	1
Zinc	ND		1.5	0.64	mg/Kg		12/26/18 13:47	01/03/19 12:25	1

Lab Sample ID: LCS 720-257613/2-A
Matrix: Solid
Analysis Batch: 257834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	44.4		mg/Kg		89	80 - 120
Arsenic	50.0	44.3		mg/Kg		89	80 - 120
Barium	50.0	44.4		mg/Kg		89	80 - 120
Cadmium	50.0	46.6		mg/Kg		93	80 - 120
Chromium	50.0	46.0		mg/Kg		92	80 - 120
Cobalt	50.0	47.4		mg/Kg		95	80 - 120
Copper	50.0	45.3		mg/Kg		91	80 - 120
Lead	50.0	47.3		mg/Kg		95	80 - 120
Molybdenum	50.0	45.6		mg/Kg		91	80 - 120
Nickel	50.0	47.0		mg/Kg		94	80 - 120
Selenium	50.0	44.6		mg/Kg		89	80 - 120
Silver	25.0	21.3		mg/Kg		85	80 - 120
Thallium	50.0	46.7		mg/Kg		93	80 - 120
Vanadium	50.0	45.7		mg/Kg		91	80 - 120
Zinc	50.0	46.6		mg/Kg		93	80 - 120

Lab Sample ID: LCS 720-257613/2-A
Matrix: Solid
Analysis Batch: 257959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.7		mg/Kg		95	80 - 120
Arsenic	50.0	48.6		mg/Kg		97	80 - 120
Barium	50.0	48.3		mg/Kg		97	80 - 120
Beryllium	50.0	50.3		mg/Kg		101	80 - 120
Cadmium	50.0	49.3		mg/Kg		99	80 - 120
Chromium	50.0	47.7		mg/Kg		95	80 - 120
Cobalt	50.0	52.3		mg/Kg		105	80 - 120
Copper	50.0	48.4		mg/Kg		97	80 - 120
Lead	50.0	50.8		mg/Kg		102	80 - 120
Molybdenum	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	49.4		mg/Kg		99	80 - 120
Selenium	50.0	49.0		mg/Kg		98	80 - 120
Silver	25.0	21.7		mg/Kg		87	80 - 120
Thallium	50.0	50.7		mg/Kg		101	80 - 120
Vanadium	50.0	49.5		mg/Kg		99	80 - 120
Zinc	50.0	46.0		mg/Kg		92	80 - 120

Lab Sample ID: 720-90507-32 MS
Matrix: Solid
Analysis Batch: 257834

Client Sample ID: DG-AS8S-0.5-1
Prep Type: Total/NA
Prep Batch: 257613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	6.8	F1	44.6	17.8	F1	mg/Kg		25	75 - 125
Arsenic	130		44.6	171		mg/Kg		94	75 - 125
Barium	190	B	44.6	311	4	mg/Kg		277	75 - 125
Cadmium	0.50		44.6	48.3		mg/Kg		107	75 - 125
Chromium	43	F1	44.6	114	F1	mg/Kg		159	75 - 125
Cobalt	12		44.6	62.6		mg/Kg		114	75 - 125
Copper	230	F2	44.6	334	4	mg/Kg		232	75 - 125
Lead	450	B ^	44.6	553	4	mg/Kg		240	75 - 125
Molybdenum	0.89	J	44.6	46.6		mg/Kg		102	75 - 125
Nickel	71	F1 F2	44.6	125		mg/Kg		120	75 - 125
Selenium	ND		44.6	46.8		mg/Kg		105	75 - 125
Silver	0.73	J	22.3	26.4		mg/Kg		115	75 - 125
Thallium	ND		44.6	45.9		mg/Kg		103	75 - 125
Vanadium	51	F1	44.6	120	F1	mg/Kg		156	75 - 125
Zinc	340		44.6	463	4	mg/Kg		277	75 - 125

Lab Sample ID: 720-90507-32 MS
Matrix: Solid
Analysis Batch: 257959

Client Sample ID: DG-AS8S-0.5-1
Prep Type: Total/NA
Prep Batch: 257613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.42		44.6	46.6		mg/Kg		103	75 - 125

Lab Sample ID: 720-90507-32 MSD
Matrix: Solid
Analysis Batch: 257834

Client Sample ID: DG-AS8S-0.5-1
Prep Type: Total/NA
Prep Batch: 257613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	6.8	F1	45.0	20.6	F1	mg/Kg		31	75 - 125	14	20
Arsenic	130		45.0	172		mg/Kg		94	75 - 125	0	20
Barium	190	B	45.0	293	4	mg/Kg		235	75 - 125	6	20
Cadmium	0.50		45.0	48.3		mg/Kg		106	75 - 125	0	20
Chromium	43	F1	45.0	113	F1	mg/Kg		154	75 - 125	1	20
Cobalt	12		45.0	61.1		mg/Kg		110	75 - 125	2	20
Copper	230	F2	45.0	524	4 F2	mg/Kg		651	75 - 125	44	20
Lead	450	B ^	45.0	628	4	mg/Kg		405	75 - 125	13	20
Molybdenum	0.89	J	45.0	48.1		mg/Kg		105	75 - 125	3	20
Nickel	71	F1 F2	45.0	155	F1 F2	mg/Kg		187	75 - 125	22	20
Selenium	ND		45.0	46.9		mg/Kg		104	75 - 125	0	20
Silver	0.73	J	22.5	27.0		mg/Kg		117	75 - 125	2	20
Thallium	ND		45.0	46.3		mg/Kg		103	75 - 125	1	20
Vanadium	51	F1	45.0	111	F1	mg/Kg		134	75 - 125	8	20
Zinc	340		45.0	552	4	mg/Kg		471	75 - 125	17	20

Lab Sample ID: 720-90507-32 MSD
Matrix: Solid
Analysis Batch: 257959

Client Sample ID: DG-AS8S-0.5-1
Prep Type: Total/NA
Prep Batch: 257613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	0.42		45.0	38.4		mg/Kg		84	75 - 125	19	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-257601/1-A
Matrix: Solid
Analysis Batch: 258157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/08/19 10:23	01/08/19 14:58	1

Lab Sample ID: LCS 720-257601/2-A
Matrix: Solid
Analysis Batch: 258157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.803		mg/Kg		96	80 - 120

Lab Sample ID: 720-90507-1 MS
Matrix: Solid
Analysis Batch: 258157

Client Sample ID: DG-AN6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.063		0.704	0.733		mg/Kg		95	75 - 125

Lab Sample ID: 720-90507-1 MSD
Matrix: Solid
Analysis Batch: 258157

Client Sample ID: DG-AN6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.063		0.694	0.712		mg/Kg		93	75 - 125	3	20

Lab Sample ID: MB 720-257612/1-A
Matrix: Solid
Analysis Batch: 258166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/08/19 14:00	01/08/19 16:10	1

Lab Sample ID: LCS 720-257612/2-A
Matrix: Solid
Analysis Batch: 258166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.840		mg/Kg		101	80 - 120

Lab Sample ID: 720-90507-18 MS
Matrix: Solid
Analysis Batch: 258166

Client Sample ID: DG-AV6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.36		0.769	1.09		mg/Kg		94	75 - 125

Lab Sample ID: 720-90507-18 MSD
Matrix: Solid
Analysis Batch: 258166

Client Sample ID: DG-AV6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.36		0.769	1.15		mg/Kg		103	75 - 125	6	20

Lab Sample ID: MB 720-257615/1-A
Matrix: Solid
Analysis Batch: 258211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257615

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/08/19 14:00	01/08/19 17:50	1

Lab Sample ID: LCS 720-257615/2-A
Matrix: Solid
Analysis Batch: 258211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.828		mg/Kg		99	80 - 120

Lab Sample ID: 720-90507-22 MS
Matrix: Solid
Analysis Batch: 258211

Client Sample ID: DG-AW6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257615

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.098		0.833	0.991		mg/Kg		107	75 - 125

Lab Sample ID: 720-90507-22 MSD
Matrix: Solid
Analysis Batch: 258211

Client Sample ID: DG-AW6S-0.5-1
Prep Type: Total/NA
Prep Batch: 257615

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.098		0.833	1.01		mg/Kg		109	75 - 125	1	20

Lab Sample ID: 720-90507-32 MS
Matrix: Solid
Analysis Batch: 258211

Client Sample ID: DG-AS8S-0.5-1
Prep Type: Total/NA
Prep Batch: 257615

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.97	F1 F2	1.61	2.48		mg/Kg		94	75 - 125

Lab Sample ID: 720-90507-32 MSD
Matrix: Solid
Analysis Batch: 258211

Client Sample ID: DG-AS8S-0.5-1
Prep Type: Total/NA
Prep Batch: 257615

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.97	F1 F2	0.781	1.74	F4	mg/Kg		99	75 - 125	35	20

Lab Sample ID: MB 720-257886/1-A
Matrix: Solid
Analysis Batch: 258237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/09/19 10:50	01/09/19 12:24	1

Lab Sample ID: LCS 720-257886/2-A
Matrix: Solid
Analysis Batch: 258237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.871		mg/Kg		105	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90507-26 MS
Matrix: Solid
Analysis Batch: 258237

Client Sample ID: DG-AV8S-3.5-4
Prep Type: Total/NA
Prep Batch: 257886

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.3		0.781	2.13		mg/Kg		104	75 - 125

Lab Sample ID: 720-90507-26 MSD
Matrix: Solid
Analysis Batch: 258237

Client Sample ID: DG-AV8S-3.5-4
Prep Type: Total/NA
Prep Batch: 257886

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	1.3		0.794	1.91		mg/Kg		75	75 - 125	11	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90506-A-18 DU
Matrix: Solid
Analysis Batch: 257598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.1		14.3		%		1	20

Lab Sample ID: 720-90507-18 DU
Matrix: Solid
Analysis Batch: 257602

Client Sample ID: DG-AV6S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	6.8		6.5		%		4	20

Lab Sample ID: 720-90507-36 DU
Matrix: Solid
Analysis Batch: 257614

Client Sample ID: DG-AR8S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	16.6		17.6		%		6	20

Metals

Prep Batch: 257579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-18	DG-AV6S-0.5-1	Total/NA	Solid	3050B	
MB 720-257579/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257579/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90507-18 MS	DG-AV6S-0.5-1	Total/NA	Solid	3050B	
720-90507-18 MSD	DG-AV6S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 257585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-1	DG-AN6S-0.5-1	Total/NA	Solid	3050B	
720-90507-2	DG-AN6S-3.5-4	Total/NA	Solid	3050B	
720-90507-3	DG-AO6S-0.5-1	Total/NA	Solid	3050B	
720-90507-4	DG-AO6S-3.5-4	Total/NA	Solid	3050B	
720-90507-5	DG-AP6S-0.5-1	Total/NA	Solid	3050B	
720-90507-6	DG-AP6S-3.5-4	Total/NA	Solid	3050B	
720-90507-7	DG-AQ6S-0.5-1	Total/NA	Solid	3050B	
720-90507-22	DG-AW6S-0.5-1	Total/NA	Solid	3050B	
MB 720-257585/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257585/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90507-22 MS	DG-AW6S-0.5-1	Total/NA	Solid	3050B	
720-90507-22 MSD	DG-AW6S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 257591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-8	DG-AQ6S-3.5-4	Total/NA	Solid	3050B	
720-90507-9	DG-AQ6S-11-11.5	Total/NA	Solid	3050B	
720-90507-10	DG-AR6S-0.5-1	Total/NA	Solid	3050B	
720-90507-11	DG-AR6S-3.5-4	Total/NA	Solid	3050B	
720-90507-12	DG-AS6S-0.5-1	Total/NA	Solid	3050B	
720-90507-13	DG-AS6S-3.5-4	Total/NA	Solid	3050B	
720-90507-14	DG-AT6S-0.5-1	Total/NA	Solid	3050B	
720-90507-15	DG-AT6S-3.5-4	Total/NA	Solid	3050B	
720-90507-16	DG-AU6S-0.5-1	Total/NA	Solid	3050B	
720-90507-17	DG-AU6S-3.5-4	Total/NA	Solid	3050B	
720-90507-19	DG-AV6S-3.5-4	Total/NA	Solid	3050B	
720-90507-20	DUP-41	Total/NA	Solid	3050B	
720-90507-21	DG-AV6S-7-7.5	Total/NA	Solid	3050B	
720-90507-23	DG-AW6S-3.5-4	Total/NA	Solid	3050B	
720-90507-24	DUP-43	Total/NA	Solid	3050B	
720-90507-25	DG-AV8S-0.5-1	Total/NA	Solid	3050B	
720-90507-26	DG-AV8S-3.5-4	Total/NA	Solid	3050B	
720-90507-27	DUP-42	Total/NA	Solid	3050B	
720-90507-28	DG-AU8S-0.5-1	Total/NA	Solid	3050B	
720-90507-29	DG-AU8S-3.5-4	Total/NA	Solid	3050B	
MB 720-257591/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257591/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90507-26 MS	DG-AV8S-3.5-4	Total/NA	Solid	3050B	
720-90507-26 MSD	DG-AV8S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 257601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-1	DG-AN6S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-2	DG-AN6S-3.5-4	Total/NA	Solid	7471A	
720-90507-3	DG-AO6S-0.5-1	Total/NA	Solid	7471A	
720-90507-4	DG-AO6S-3.5-4	Total/NA	Solid	7471A	
720-90507-5	DG-AP6S-0.5-1	Total/NA	Solid	7471A	
720-90507-6	DG-AP6S-3.5-4	Total/NA	Solid	7471A	
720-90507-7	DG-AQ6S-0.5-1	Total/NA	Solid	7471A	
720-90507-8	DG-AQ6S-3.5-4	Total/NA	Solid	7471A	
720-90507-9	DG-AQ6S-11-11.5	Total/NA	Solid	7471A	
720-90507-10	DG-AR6S-0.5-1	Total/NA	Solid	7471A	
720-90507-11	DG-AR6S-3.5-4	Total/NA	Solid	7471A	
720-90507-12	DG-AS6S-0.5-1	Total/NA	Solid	7471A	
720-90507-13	DG-AS6S-3.5-4	Total/NA	Solid	7471A	
720-90507-14	DG-AT6S-0.5-1	Total/NA	Solid	7471A	
720-90507-15	DG-AT6S-3.5-4	Total/NA	Solid	7471A	
720-90507-16	DG-AU6S-0.5-1	Total/NA	Solid	7471A	
720-90507-17	DG-AU6S-3.5-4	Total/NA	Solid	7471A	
720-90507-19	DG-AV6S-3.5-4	Total/NA	Solid	7471A	
720-90507-20	DUP-41	Total/NA	Solid	7471A	
720-90507-21	DG-AV6S-7-7.5	Total/NA	Solid	7471A	
MB 720-257601/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257601/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90507-1 MS	DG-AN6S-0.5-1	Total/NA	Solid	7471A	
720-90507-1 MSD	DG-AN6S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-18	DG-AV6S-0.5-1	Total/NA	Solid	7471A	
720-90507-23	DG-AW6S-3.5-4	Total/NA	Solid	7471A	
720-90507-24	DUP-43	Total/NA	Solid	7471A	
720-90507-25	DG-AV8S-0.5-1	Total/NA	Solid	7471A	
720-90507-27	DUP-42	Total/NA	Solid	7471A	
720-90507-28	DG-AU8S-0.5-1	Total/NA	Solid	7471A	
MB 720-257612/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257612/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90507-18 MS	DG-AV6S-0.5-1	Total/NA	Solid	7471A	
720-90507-18 MSD	DG-AV6S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 257613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-30	DG-AT8S-0.5-1	Total/NA	Solid	3050B	
720-90507-31	DG-AT8S-3.5-4	Total/NA	Solid	3050B	
720-90507-32	DG-AS8S-0.5-1	Total/NA	Solid	3050B	
720-90507-33	DG-AS8S-3.5-4	Total/NA	Solid	3050B	
720-90507-34	DUP-58	Total/NA	Solid	3050B	
720-90507-35	DG-AR8S-0.5-1	Total/NA	Solid	3050B	
720-90507-36	DG-AR8S-3.5-4	Total/NA	Solid	3050B	
720-90507-37	DG-AQ8S-0.5-1	Total/NA	Solid	3050B	
720-90507-38	DG-AQ8S-3.5-4	Total/NA	Solid	3050B	
720-90507-39	DG-AQ8S-8-8.5	Total/NA	Solid	3050B	
720-90507-40	DG-AP8S-0.5-1	Total/NA	Solid	3050B	
720-90507-41	DG-AP8S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 257613 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-257613/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-257613/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90507-32 MS	DG-AS8S-0.5-1	Total/NA	Solid	3050B	
720-90507-32 MSD	DG-AS8S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 257615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-22	DG-AW6S-0.5-1	Total/NA	Solid	7471A	
720-90507-29	DG-AU8S-3.5-4	Total/NA	Solid	7471A	
720-90507-30	DG-AT8S-0.5-1	Total/NA	Solid	7471A	
720-90507-31	DG-AT8S-3.5-4	Total/NA	Solid	7471A	
720-90507-32	DG-AS8S-0.5-1	Total/NA	Solid	7471A	
720-90507-33	DG-AS8S-3.5-4	Total/NA	Solid	7471A	
720-90507-34	DUP-58	Total/NA	Solid	7471A	
720-90507-35	DG-AR8S-0.5-1	Total/NA	Solid	7471A	
720-90507-36	DG-AR8S-3.5-4	Total/NA	Solid	7471A	
720-90507-37	DG-AQ8S-0.5-1	Total/NA	Solid	7471A	
720-90507-38	DG-AQ8S-3.5-4	Total/NA	Solid	7471A	
720-90507-39	DG-AQ8S-8-8.5	Total/NA	Solid	7471A	
720-90507-40	DG-AP8S-0.5-1	Total/NA	Solid	7471A	
720-90507-41	DG-AP8S-3.5-4	Total/NA	Solid	7471A	
MB 720-257615/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-257615/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90507-22 MS	DG-AW6S-0.5-1	Total/NA	Solid	7471A	
720-90507-22 MSD	DG-AW6S-0.5-1	Total/NA	Solid	7471A	
720-90507-32 MS	DG-AS8S-0.5-1	Total/NA	Solid	7471A	
720-90507-32 MSD	DG-AS8S-0.5-1	Total/NA	Solid	7471A	

Analysis Batch: 257834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-30	DG-AT8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-31	DG-AT8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-32	DG-AS8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-33	DG-AS8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-34	DUP-58	Total/NA	Solid	6010B	257613
720-90507-35	DG-AR8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-36	DG-AR8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-37	DG-AQ8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-38	DG-AQ8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-39	DG-AQ8S-8-8.5	Total/NA	Solid	6010B	257613
720-90507-40	DG-AP8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-41	DG-AP8S-3.5-4	Total/NA	Solid	6010B	257613
MB 720-257613/1-A	Method Blank	Total/NA	Solid	6010B	257613
LCS 720-257613/2-A	Lab Control Sample	Total/NA	Solid	6010B	257613
720-90507-32 MS	DG-AS8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-32 MSD	DG-AS8S-0.5-1	Total/NA	Solid	6010B	257613

Prep Batch: 257886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-26	DG-AV8S-3.5-4	Total/NA	Solid	7471A	
MB 720-257886/1-A	Method Blank	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 257886 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-257886/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90507-26 MS	DG-AV8S-3.5-4	Total/NA	Solid	7471A	
720-90507-26 MSD	DG-AV8S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 257959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-30	DG-AT8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-31	DG-AT8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-32	DG-AS8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-33	DG-AS8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-34	DUP-58	Total/NA	Solid	6010B	257613
720-90507-35	DG-AR8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-36	DG-AR8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-37	DG-AQ8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-38	DG-AQ8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-38	DG-AQ8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-39	DG-AQ8S-8-8.5	Total/NA	Solid	6010B	257613
720-90507-40	DG-AP8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-41	DG-AP8S-3.5-4	Total/NA	Solid	6010B	257613
720-90507-41	DG-AP8S-3.5-4	Total/NA	Solid	6010B	257613
MB 720-257613/1-A	Method Blank	Total/NA	Solid	6010B	257613
LCS 720-257613/2-A	Lab Control Sample	Total/NA	Solid	6010B	257613
720-90507-32 MS	DG-AS8S-0.5-1	Total/NA	Solid	6010B	257613
720-90507-32 MSD	DG-AS8S-0.5-1	Total/NA	Solid	6010B	257613

Analysis Batch: 258117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-18	DG-AV6S-0.5-1	Total/NA	Solid	6010B	257579
MB 720-257579/1-A	Method Blank	Total/NA	Solid	6010B	257579
LCS 720-257579/2-A	Lab Control Sample	Total/NA	Solid	6010B	257579
720-90507-18 MS	DG-AV6S-0.5-1	Total/NA	Solid	6010B	257579
720-90507-18 MSD	DG-AV6S-0.5-1	Total/NA	Solid	6010B	257579

Analysis Batch: 258120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-8	DG-AQ6S-3.5-4	Total/NA	Solid	6010B	257591
720-90507-9	DG-AQ6S-11-11.5	Total/NA	Solid	6010B	257591
720-90507-10	DG-AR6S-0.5-1	Total/NA	Solid	6010B	257591
720-90507-11	DG-AR6S-3.5-4	Total/NA	Solid	6010B	257591
720-90507-12	DG-AS6S-0.5-1	Total/NA	Solid	6010B	257591
720-90507-13	DG-AS6S-3.5-4	Total/NA	Solid	6010B	257591
720-90507-15	DG-AT6S-3.5-4	Total/NA	Solid	6010B	257591
720-90507-17	DG-AU6S-3.5-4	Total/NA	Solid	6010B	257591
720-90507-19	DG-AV6S-3.5-4	Total/NA	Solid	6010B	257591
720-90507-20	DUP-41	Total/NA	Solid	6010B	257591
720-90507-21	DG-AV6S-7-7.5	Total/NA	Solid	6010B	257591
720-90507-23	DG-AW6S-3.5-4	Total/NA	Solid	6010B	257591
720-90507-24	DUP-43	Total/NA	Solid	6010B	257591
720-90507-25	DG-AV8S-0.5-1	Total/NA	Solid	6010B	257591
720-90507-26	DG-AV8S-3.5-4	Total/NA	Solid	6010B	257591
720-90507-27	DUP-42	Total/NA	Solid	6010B	257591

Metals (Continued)

Analysis Batch: 258120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-28	DG-AU8S-0.5-1	Total/NA	Solid	6010B	257591
720-90507-29	DG-AU8S-3.5-4	Total/NA	Solid	6010B	257591
MB 720-257591/1-A	Method Blank	Total/NA	Solid	6010B	257591
LCS 720-257591/2-A	Lab Control Sample	Total/NA	Solid	6010B	257591
720-90507-26 MS	DG-AV8S-3.5-4	Total/NA	Solid	6010B	257591
720-90507-26 MSD	DG-AV8S-3.5-4	Total/NA	Solid	6010B	257591

Analysis Batch: 258121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-1	DG-AN6S-0.5-1	Total/NA	Solid	6010B	257585
720-90507-2	DG-AN6S-3.5-4	Total/NA	Solid	6010B	257585
720-90507-3	DG-AO6S-0.5-1	Total/NA	Solid	6010B	257585
720-90507-4	DG-AO6S-3.5-4	Total/NA	Solid	6010B	257585
720-90507-5	DG-AP6S-0.5-1	Total/NA	Solid	6010B	257585
720-90507-6	DG-AP6S-3.5-4	Total/NA	Solid	6010B	257585
720-90507-7	DG-AQ6S-0.5-1	Total/NA	Solid	6010B	257585
720-90507-22	DG-AW6S-0.5-1	Total/NA	Solid	6010B	257585
MB 720-257585/1-A	Method Blank	Total/NA	Solid	6010B	257585
LCS 720-257585/2-A	Lab Control Sample	Total/NA	Solid	6010B	257585
720-90507-22 MS	DG-AW6S-0.5-1	Total/NA	Solid	6010B	257585
720-90507-22 MSD	DG-AW6S-0.5-1	Total/NA	Solid	6010B	257585

Analysis Batch: 258157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-1	DG-AN6S-0.5-1	Total/NA	Solid	7471A	257601
720-90507-2	DG-AN6S-3.5-4	Total/NA	Solid	7471A	257601
720-90507-3	DG-AO6S-0.5-1	Total/NA	Solid	7471A	257601
720-90507-4	DG-AO6S-3.5-4	Total/NA	Solid	7471A	257601
720-90507-5	DG-AP6S-0.5-1	Total/NA	Solid	7471A	257601
720-90507-6	DG-AP6S-3.5-4	Total/NA	Solid	7471A	257601
720-90507-7	DG-AQ6S-0.5-1	Total/NA	Solid	7471A	257601
720-90507-8	DG-AQ6S-3.5-4	Total/NA	Solid	7471A	257601
720-90507-9	DG-AQ6S-11-11.5	Total/NA	Solid	7471A	257601
720-90507-10	DG-AR6S-0.5-1	Total/NA	Solid	7471A	257601
720-90507-11	DG-AR6S-3.5-4	Total/NA	Solid	7471A	257601
720-90507-12	DG-AS6S-0.5-1	Total/NA	Solid	7471A	257601
720-90507-13	DG-AS6S-3.5-4	Total/NA	Solid	7471A	257601
720-90507-14	DG-AT6S-0.5-1	Total/NA	Solid	7471A	257601
720-90507-15	DG-AT6S-3.5-4	Total/NA	Solid	7471A	257601
720-90507-16	DG-AU6S-0.5-1	Total/NA	Solid	7471A	257601
720-90507-17	DG-AU6S-3.5-4	Total/NA	Solid	7471A	257601
720-90507-19	DG-AV6S-3.5-4	Total/NA	Solid	7471A	257601
720-90507-20	DUP-41	Total/NA	Solid	7471A	257601
720-90507-21	DG-AV6S-7-7.5	Total/NA	Solid	7471A	257601
MB 720-257601/1-A	Method Blank	Total/NA	Solid	7471A	257601
LCS 720-257601/2-A	Lab Control Sample	Total/NA	Solid	7471A	257601
720-90507-1 MS	DG-AN6S-0.5-1	Total/NA	Solid	7471A	257601
720-90507-1 MSD	DG-AN6S-0.5-1	Total/NA	Solid	7471A	257601

Metals (Continued)

Analysis Batch: 258166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-18	DG-AV6S-0.5-1	Total/NA	Solid	7471A	257612
720-90507-23	DG-AW6S-3.5-4	Total/NA	Solid	7471A	257612
720-90507-24	DUP-43	Total/NA	Solid	7471A	257612
720-90507-25	DG-AV8S-0.5-1	Total/NA	Solid	7471A	257612
720-90507-27	DUP-42	Total/NA	Solid	7471A	257612
720-90507-28	DG-AU8S-0.5-1	Total/NA	Solid	7471A	257612
MB 720-257612/1-A	Method Blank	Total/NA	Solid	7471A	257612
LCS 720-257612/2-A	Lab Control Sample	Total/NA	Solid	7471A	257612
720-90507-18 MS	DG-AV6S-0.5-1	Total/NA	Solid	7471A	257612
720-90507-18 MSD	DG-AV6S-0.5-1	Total/NA	Solid	7471A	257612

Analysis Batch: 258190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-14	DG-AT6S-0.5-1	Total/NA	Solid	6010B	257591
720-90507-16	DG-AU6S-0.5-1	Total/NA	Solid	6010B	257591

Analysis Batch: 258211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-22	DG-AW6S-0.5-1	Total/NA	Solid	7471A	257615
720-90507-29	DG-AU8S-3.5-4	Total/NA	Solid	7471A	257615
720-90507-30	DG-AT8S-0.5-1	Total/NA	Solid	7471A	257615
720-90507-31	DG-AT8S-3.5-4	Total/NA	Solid	7471A	257615
720-90507-32	DG-AS8S-0.5-1	Total/NA	Solid	7471A	257615
720-90507-33	DG-AS8S-3.5-4	Total/NA	Solid	7471A	257615
720-90507-34	DUP-58	Total/NA	Solid	7471A	257615
720-90507-35	DG-AR8S-0.5-1	Total/NA	Solid	7471A	257615
720-90507-36	DG-AR8S-3.5-4	Total/NA	Solid	7471A	257615
720-90507-37	DG-AQ8S-0.5-1	Total/NA	Solid	7471A	257615
720-90507-38	DG-AQ8S-3.5-4	Total/NA	Solid	7471A	257615
720-90507-39	DG-AQ8S-8-8.5	Total/NA	Solid	7471A	257615
720-90507-40	DG-AP8S-0.5-1	Total/NA	Solid	7471A	257615
720-90507-41	DG-AP8S-3.5-4	Total/NA	Solid	7471A	257615
MB 720-257615/1-A	Method Blank	Total/NA	Solid	7471A	257615
LCS 720-257615/2-A	Lab Control Sample	Total/NA	Solid	7471A	257615
720-90507-22 MS	DG-AW6S-0.5-1	Total/NA	Solid	7471A	257615
720-90507-22 MSD	DG-AW6S-0.5-1	Total/NA	Solid	7471A	257615
720-90507-32 MS	DG-AS8S-0.5-1	Total/NA	Solid	7471A	257615
720-90507-32 MSD	DG-AS8S-0.5-1	Total/NA	Solid	7471A	257615

Analysis Batch: 258237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-26	DG-AV8S-3.5-4	Total/NA	Solid	7471A	257886
MB 720-257886/1-A	Method Blank	Total/NA	Solid	7471A	257886
LCS 720-257886/2-A	Lab Control Sample	Total/NA	Solid	7471A	257886
720-90507-26 MS	DG-AV8S-3.5-4	Total/NA	Solid	7471A	257886
720-90507-26 MSD	DG-AV8S-3.5-4	Total/NA	Solid	7471A	257886

General Chemistry

Analysis Batch: 257598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-1	DG-AN6S-0.5-1	Total/NA	Solid	Moisture	
720-90507-2	DG-AN6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-3	DG-AO6S-0.5-1	Total/NA	Solid	Moisture	
720-90507-4	DG-AO6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-5	DG-AP6S-0.5-1	Total/NA	Solid	Moisture	
720-90507-6	DG-AP6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-7	DG-AQ6S-0.5-1	Total/NA	Solid	Moisture	
720-90507-8	DG-AQ6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-9	DG-AQ6S-11-11.5	Total/NA	Solid	Moisture	
720-90507-10	DG-AR6S-0.5-1	Total/NA	Solid	Moisture	
720-90507-11	DG-AR6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-12	DG-AS6S-0.5-1	Total/NA	Solid	Moisture	
720-90507-13	DG-AS6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-14	DG-AT6S-0.5-1	Total/NA	Solid	Moisture	
720-90507-15	DG-AT6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-16	DG-AU6S-0.5-1	Total/NA	Solid	Moisture	
720-90506-A-18 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 257602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-17	DG-AU6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-18	DG-AV6S-0.5-1	Total/NA	Solid	Moisture	
720-90507-19	DG-AV6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-20	DUP-41	Total/NA	Solid	Moisture	
720-90507-21	DG-AV6S-7-7.5	Total/NA	Solid	Moisture	
720-90507-22	DG-AW6S-0.5-1	Total/NA	Solid	Moisture	
720-90507-23	DG-AW6S-3.5-4	Total/NA	Solid	Moisture	
720-90507-24	DUP-43	Total/NA	Solid	Moisture	
720-90507-25	DG-AV8S-0.5-1	Total/NA	Solid	Moisture	
720-90507-26	DG-AV8S-3.5-4	Total/NA	Solid	Moisture	
720-90507-27	DUP-42	Total/NA	Solid	Moisture	
720-90507-28	DG-AU8S-0.5-1	Total/NA	Solid	Moisture	
720-90507-29	DG-AU8S-3.5-4	Total/NA	Solid	Moisture	
720-90507-30	DG-AT8S-0.5-1	Total/NA	Solid	Moisture	
720-90507-31	DG-AT8S-3.5-4	Total/NA	Solid	Moisture	
720-90507-32	DG-AS8S-0.5-1	Total/NA	Solid	Moisture	
720-90507-33	DG-AS8S-3.5-4	Total/NA	Solid	Moisture	
720-90507-34	DUP-58	Total/NA	Solid	Moisture	
720-90507-35	DG-AR8S-0.5-1	Total/NA	Solid	Moisture	
720-90507-18 DU	DG-AV6S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 257614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90507-36	DG-AR8S-3.5-4	Total/NA	Solid	Moisture	
720-90507-37	DG-AQ8S-0.5-1	Total/NA	Solid	Moisture	
720-90507-38	DG-AQ8S-3.5-4	Total/NA	Solid	Moisture	
720-90507-39	DG-AQ8S-8-8.5	Total/NA	Solid	Moisture	
720-90507-40	DG-AP8S-0.5-1	Total/NA	Solid	Moisture	
720-90507-41	DG-AP8S-3.5-4	Total/NA	Solid	Moisture	
720-90507-36 DU	DG-AR8S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-AN6S-0.5-1

Lab Sample ID: 720-90507-1

Date Collected: 12/21/18 08:15

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 01:14	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AN6S-3.5-4

Lab Sample ID: 720-90507-2

Date Collected: 12/21/18 08:17

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 01:19	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AO6S-0.5-1

Lab Sample ID: 720-90507-3

Date Collected: 12/21/18 08:30

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 01:24	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AO6S-3.5-4

Lab Sample ID: 720-90507-4

Date Collected: 12/21/18 08:32

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 01:28	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AP6S-0.5-1
Date Collected: 12/21/18 08:40
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 01:33	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AP6S-3.5-4
Date Collected: 12/21/18 08:42
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 01:38	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AQ6S-0.5-1
Date Collected: 12/21/18 08:47
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/08/19 01:42	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AQ6S-3.5-4
Date Collected: 12/21/18 08:48
Date Received: 12/21/18 15:35

Lab Sample ID: 720-90507-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258120	01/07/19 21:37	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AQ6S-11-11.5

Lab Sample ID: 720-90507-9

Date Collected: 12/21/18 08:50
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258120	01/07/19 21:42	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AR6S-0.5-1

Lab Sample ID: 720-90507-10

Date Collected: 12/21/18 09:00
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258120	01/07/19 21:46	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AR6S-3.5-4

Lab Sample ID: 720-90507-11

Date Collected: 12/21/18 09:02
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258120	01/07/19 21:51	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AS6S-0.5-1

Lab Sample ID: 720-90507-12

Date Collected: 12/21/18 09:10
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258120	01/07/19 21:56	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AS6S-3.5-4

Lab Sample ID: 720-90507-13

Date Collected: 12/21/18 09:12
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258120	01/07/19 22:01	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AT6S-0.5-1

Lab Sample ID: 720-90507-14

Date Collected: 12/21/18 09:20
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258190	01/08/19 13:05	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AT6S-3.5-4

Lab Sample ID: 720-90507-15

Date Collected: 12/21/18 09:22
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258120	01/07/19 22:10	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AU6S-0.5-1

Lab Sample ID: 720-90507-16

Date Collected: 12/21/18 09:30
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258190	01/08/19 13:19	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257598	12/26/18 11:30	TNL	TAL PLS

Client Sample ID: DG-AU6S-3.5-4

Lab Sample ID: 720-90507-17

Date Collected: 12/21/18 09:32
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258120	01/07/19 22:29	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AV6S-0.5-1

Lab Sample ID: 720-90507-18

Date Collected: 12/21/18 09:45
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257579	01/03/19 11:10	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258117	01/07/19 18:09	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AV6S-3.5-4

Lab Sample ID: 720-90507-19

Date Collected: 12/21/18 09:47
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258120	01/07/19 22:34	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DUP-41

Lab Sample ID: 720-90507-20

Date Collected: 12/21/18 09:48
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258120	01/07/19 22:39	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 15:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AV6S-7-7.5

Lab Sample ID: 720-90507-21

Date Collected: 12/21/18 09:50
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258120	01/07/19 22:43	BKR	TAL PLS
Total/NA	Prep	7471A			257601	01/08/19 10:23	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258157	01/08/19 16:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AW6S-0.5-1

Lab Sample ID: 720-90507-22

Date Collected: 12/21/18 10:17
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257585	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		4	258121	01/07/19 23:54	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AW6S-3.5-4

Lab Sample ID: 720-90507-23

Date Collected: 12/21/18 10:19
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		20	258120	01/07/19 22:48	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DUP-43

Lab Sample ID: 720-90507-24

Date Collected: 12/21/18 10:21
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258120	01/07/19 22:53	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AV8S-0.5-1

Lab Sample ID: 720-90507-25

Date Collected: 12/21/18 10:25
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258120	01/07/19 22:57	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AV8S-3.5-4

Lab Sample ID: 720-90507-26

Date Collected: 12/21/18 10:27
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258120	01/07/19 21:32	BKR	TAL PLS
Total/NA	Prep	7471A			257886	01/09/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258237	01/09/19 13:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DUP-42

Lab Sample ID: 720-90507-27

Date Collected: 12/21/18 10:28
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258120	01/07/19 23:02	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258166	01/08/19 16:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AU8S-0.5-1

Lab Sample ID: 720-90507-28

Date Collected: 12/21/18 10:44
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258120	01/07/19 23:07	BKR	TAL PLS
Total/NA	Prep	7471A			257612	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		4	258166	01/08/19 17:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AU8S-3.5-4

Lab Sample ID: 720-90507-29

Date Collected: 12/21/18 10:45
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257591	01/04/19 14:17	GLL	TAL PLS
Total/NA	Analysis	6010B		10	258120	01/07/19 23:21	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AT8S-0.5-1

Lab Sample ID: 720-90507-30

Date Collected: 12/21/18 10:58
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 20:30	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 12:58	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AT8S-3.5-4

Lab Sample ID: 720-90507-31

Date Collected: 12/21/18 10:59
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 20:35	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:02	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AS8S-0.5-1

Lab Sample ID: 720-90507-32

Date Collected: 12/21/18 11:08
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 20:26	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 12:53	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:26	MAG	TAL PLS

Client Sample ID: DG-AS8S-0.5-1

Lab Sample ID: 720-90507-32

Date Collected: 12/21/18 11:08

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AS8S-3.5-4

Lab Sample ID: 720-90507-33

Date Collected: 12/21/18 11:09

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 20:49	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:07	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DUP-58

Lab Sample ID: 720-90507-34

Date Collected: 12/21/18 11:10

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 20:54	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:21	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AR8S-0.5-1

Lab Sample ID: 720-90507-35

Date Collected: 12/21/18 11:25

Matrix: Solid

Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 20:58	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:25	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257602	12/26/18 12:07	TNL	TAL PLS

Client Sample ID: DG-AR8S-3.5-4

Lab Sample ID: 720-90507-36
Date Collected: 12/21/18 11:26
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 21:03	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:30	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257614	12/26/18 13:58	TNL	TAL PLS

Client Sample ID: DG-AQ8S-0.5-1

Lab Sample ID: 720-90507-37
Date Collected: 12/21/18 11:30
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 21:07	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:35	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257614	12/26/18 13:58	TNL	TAL PLS

Client Sample ID: DG-AQ8S-3.5-4

Lab Sample ID: 720-90507-38
Date Collected: 12/21/18 11:31
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 21:12	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:39	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		10	257959	01/03/19 19:32	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257614	12/26/18 13:58	TNL	TAL PLS

Client Sample ID: DG-AQ8S-8-8.5

Lab Sample ID: 720-90507-39
Date Collected: 12/21/18 11:32
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 21:17	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90507-1
SDG: Brisbane OU2

Client Sample ID: DG-AQ8S-8-8.5

Lab Sample ID: 720-90507-39

Date Collected: 12/21/18 11:32
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:44	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257614	12/26/18 13:58	TNL	TAL PLS

Client Sample ID: DG-AP8S-0.5-1

Lab Sample ID: 720-90507-40

Date Collected: 12/21/18 11:47
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 21:21	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:49	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257614	12/26/18 13:58	TNL	TAL PLS

Client Sample ID: DG-AP8S-3.5-4

Lab Sample ID: 720-90507-41

Date Collected: 12/21/18 11:48
Matrix: Solid
Date Received: 12/21/18 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257834	12/31/18 21:26	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		4	257959	01/03/19 13:53	BKR	TAL PLS
Total/NA	Prep	3050B			257613	12/26/18 13:47	SUN	TAL PLS
Total/NA	Analysis	6010B		10	257959	01/03/19 19:36	BKR	TAL PLS
Total/NA	Prep	7471A			257615	01/08/19 14:00	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258211	01/08/19 18:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	257614	12/26/18 13:58	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90507-1
SDG: Brisbane OU2

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90507-1
SDG: Brisbane OU2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90507-1
SDG: Brisbane OU2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90507-1	DG-AN6S-0.5-1	Solid	12/21/18 08:15	12/21/18 15:35
720-90507-2	DG-AN6S-3.5-4	Solid	12/21/18 08:17	12/21/18 15:35
720-90507-3	DG-AO6S-0.5-1	Solid	12/21/18 08:30	12/21/18 15:35
720-90507-4	DG-AO6S-3.5-4	Solid	12/21/18 08:32	12/21/18 15:35
720-90507-5	DG-AP6S-0.5-1	Solid	12/21/18 08:40	12/21/18 15:35
720-90507-6	DG-AP6S-3.5-4	Solid	12/21/18 08:42	12/21/18 15:35
720-90507-7	DG-AQ6S-0.5-1	Solid	12/21/18 08:47	12/21/18 15:35
720-90507-8	DG-AQ6S-3.5-4	Solid	12/21/18 08:48	12/21/18 15:35
720-90507-9	DG-AQ6S-11-11.5	Solid	12/21/18 08:50	12/21/18 15:35
720-90507-10	DG-AR6S-0.5-1	Solid	12/21/18 09:00	12/21/18 15:35
720-90507-11	DG-AR6S-3.5-4	Solid	12/21/18 09:02	12/21/18 15:35
720-90507-12	DG-AS6S-0.5-1	Solid	12/21/18 09:10	12/21/18 15:35
720-90507-13	DG-AS6S-3.5-4	Solid	12/21/18 09:12	12/21/18 15:35
720-90507-14	DG-AT6S-0.5-1	Solid	12/21/18 09:20	12/21/18 15:35
720-90507-15	DG-AT6S-3.5-4	Solid	12/21/18 09:22	12/21/18 15:35
720-90507-16	DG-AU6S-0.5-1	Solid	12/21/18 09:30	12/21/18 15:35
720-90507-17	DG-AU6S-3.5-4	Solid	12/21/18 09:32	12/21/18 15:35
720-90507-18	DG-AV6S-0.5-1	Solid	12/21/18 09:45	12/21/18 15:35
720-90507-19	DG-AV6S-3.5-4	Solid	12/21/18 09:47	12/21/18 15:35
720-90507-20	DUP-41	Solid	12/21/18 09:48	12/21/18 15:35
720-90507-21	DG-AV6S-7-7.5	Solid	12/21/18 09:50	12/21/18 15:35
720-90507-22	DG-AW6S-0.5-1	Solid	12/21/18 10:17	12/21/18 15:35
720-90507-23	DG-AW6S-3.5-4	Solid	12/21/18 10:19	12/21/18 15:35
720-90507-24	DUP-43	Solid	12/21/18 10:21	12/21/18 15:35
720-90507-25	DG-AV8S-0.5-1	Solid	12/21/18 10:25	12/21/18 15:35
720-90507-26	DG-AV8S-3.5-4	Solid	12/21/18 10:27	12/21/18 15:35
720-90507-27	DUP-42	Solid	12/21/18 10:28	12/21/18 15:35
720-90507-28	DG-AU8S-0.5-1	Solid	12/21/18 10:44	12/21/18 15:35
720-90507-29	DG-AU8S-3.5-4	Solid	12/21/18 10:45	12/21/18 15:35
720-90507-30	DG-AT8S-0.5-1	Solid	12/21/18 10:58	12/21/18 15:35
720-90507-31	DG-AT8S-3.5-4	Solid	12/21/18 10:59	12/21/18 15:35
720-90507-32	DG-AS8S-0.5-1	Solid	12/21/18 11:08	12/21/18 15:35
720-90507-33	DG-AS8S-3.5-4	Solid	12/21/18 11:09	12/21/18 15:35
720-90507-34	DUP-58	Solid	12/21/18 11:10	12/21/18 15:35
720-90507-35	DG-AR8S-0.5-1	Solid	12/21/18 11:25	12/21/18 15:35
720-90507-36	DG-AR8S-3.5-4	Solid	12/21/18 11:26	12/21/18 15:35
720-90507-37	DG-AQ8S-0.5-1	Solid	12/21/18 11:30	12/21/18 15:35
720-90507-38	DG-AQ8S-3.5-4	Solid	12/21/18 11:31	12/21/18 15:35
720-90507-39	DG-AQ8S-8-8.5	Solid	12/21/18 11:32	12/21/18 15:35
720-90507-40	DG-AP8S-0.5-1	Solid	12/21/18 11:47	12/21/18 15:35
720-90507-41	DG-AP8S-3.5-4	Solid	12/21/18 11:48	12/21/18 15:35

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

TB 12/21/18
720-90507

Chain of Custody Record

#187546 TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/21/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90507 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1 DG-AN6S-0.5-1	12/21/18	0815	G	S	1	N		X	
2 DG-AN6S-3.5-4		0817	G	S	1			X	
3 DG-AO6S 0.5-1		0830	G	S	1			X	
4 DG-AO6S 3.5-4		0832	G	S	1			X	
5 DG AP6S 0.5-1		0840	G	S	1			X	
6 DG-AP6S 3.5-4		0842	G	S	1			X	
7 DG-AQ6S 0.5-1		0847	G	S	1			X	
8 DG AQ6S 3.5-4		0848	G	S	1			X	
9 DG AQ6S 11.-11.5		0850	G	S	1			X	
10 DG AR6S 0.5-1		0900	G	S	1			X	
11 DG AR6S 3.5-4	✓	0902	G	S	1			X	

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd: _____	Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	GEOSYNTEC	12/21/18 1305	[signature]	TAPLS	12/21/18 1305
Relinquished by [signature]	Company TAPLS	Date/Time 12/21/18 1535	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by [signature]	Company TA-PLS	Date/Time 12/21/18 1535

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

25.3 C

1/17/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-905067 TAB 12/21/18

Chain of Custody Record

187456

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/21/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
12	DG AS6S-0.5-1		0910	G	S	1	N		X	
13	DG AS6S-3.5-4		0912				N		X	
14	DG AT6S-0.5-1		0920				N		X	
15	DG AT6S-3.5-4		0922				N		X	
16	DG AU6S-0.5-1		0930				N		X	
17	DG AU6S-3.5-4		0932				N		X	
18	DG AV6S-0.5-1		0945				N	X	X	
19	DG AV6S-3.5-4		0947				N		X	
20	DG Dup 4 3.5-4		0948				N		X	
21	DG AV6S 7.0-7.5		0950				N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C) Obs'd _____ Corr'd. _____	Therm ID No.: _____
Relinquished by	Company: Geosyntec	Date/Time: 12/21/18 1305	Received by	Company: TAPLS Date/Time: 12/21/18 1705
Relinquished by	Company: TAPLS	Date/Time: 12/21/18 1530	Received by	Company: Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by	Company: TA-PLS Date/Time: 12/21/18 1535

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2-5/3. ✓

1/17/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90507

Chain of Custody Record

187456

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/21/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling.
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
27 DG AW6S 0.5-1	12/21/18	1017	G	S	1	N	X	X	
28 DG AW6S 3.5-4		1019				N		X	
29 Dup 43 3.5-4		1021				N		X	
30 DG AV8S 0.5-1		1025				N		X	
31 DG AV8S 3.5-4		1027				N	X	X	
Dup 42 0.5-1		1028				N		X	
DG AU8S 0.5-1		1044				N		X	
DG AU8S 3.5-4		1045				N		X	
DG AT8S 0.5-1		1058				N		X	
DG AT8S 3.5-4		1059				N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C): Obs'd ____ Corr'd ____ Therm ID No ____			
Relinquished by	Company Geosyntec	Date/Time 12/21/18 1308	Received by	Company TAPLS	Date/Time 12/21/18 1308
Relinquished by	Company TAPLS	Date/Time 12/21/18 1535	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/21/18 1535

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2.5/3C

1/17/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90507

Chain of Custody Record

187456

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/21/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
32	DG-AS8S-0.5-1	12/21/18	1108	G	S	1	N	X	X	
33	DG-AS8S-3.5-4		1109				N		X	
34	Dup-58		1110				N		X	
35	DG AR8S-0.5-1		1125				N		X	
36	DG AR8S-3.5-4		1126				N		X	
37	DG AQ8S-0.5-1		1130				N		X	
38	DG AQ8S-3.5-4		1131				N		X	
39	DG AQ8S-8.0-8.5		1132				N		X	
40	DG AP8S-0.5-1		1147				N		X	
41	DG AP8S-3.5-4		1148				N		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C) Obs'd ____ Corr'd: ____		Therm ID No.: ____	
Relinquished by	Company: GEOSYNTEC	Date/Time: 12/21/18 803	Received by	Company: TAPL	Date/Time: 12/21/18 1308	
Relinquished by	Company: TAPL	Date/Time: 12/21/18 1530	Received by	Company:	Date/Time:	
Relinquished by	Company:	Date/Time:	Received in Laboratory by	Company: TA-PLS	Date/Time: 12/21/18 1535	

8/22/18

2.51.3C

1/17/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90507-1
SDG Number: Brisbane OU2

Login Number: 90507
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Patel, Urvashi
Sent: Wednesday, December 26, 2018 8:27 AM
To: Bondoc, Christian M.
Cc: Mouton, Alain
Subject: FW: TestAmerica Sample Login Confirmation files from 720-90507 Brisbane OU-2 Data Gap Investigation
Attachments: COC 720-90507 (201812212341).pdf; Std_Tal_Login_Ack for 720-90507-1.pdf; Std_Tal_Login_Limits for 720-90507-1.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Christian
Can you update the sample IDs below and add email to the job please.

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bill Chen [mailto:BChen@Geosyntec.com]
Sent: Monday, December 24, 2018 4:05 PM
To: Patel, Urvashi; Mouton, Alain; Miranda Kahrilas
Cc: Krzysztof Jesionek; Anthony Smith
Subject: FW: TestAmerica Sample Login Confirmation files from 720-90507 Brisbane OU-2 Data Gap Investigation

-External Email-

Urvashi,

Please rename sample #20 from “DG-DUP41 3.5-4” to “DUP-41”
Please rename sample #21 from “DG-AV6S-**7.0**-7.5” to “DG-AV6S-**7**-7.5”
Please rename sample #24 from “DUP43 3.5-4” to “DUP-43”
Please rename sample #27 from “DUP 42 0.5-1” to “DUP-42”

Please rename sample #34 from “DUP-58 0.5-1” to “DUP-58”
Please rename sample #39 from “DG-AQ8S **8.0**-8.5” to “DG-AQ8S-**8**-8.5”

Miranda,
Please remind our samplers of these naming conventions.

Thanks all!
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Monday, December 24, 2018 3:33 PM
To: Bill Chen <BChen@Geosyntec.com>; Mouton, Alain <Alain.Mouton@testamericainc.com>
Cc: Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: TestAmerica Sample Login Confirmation files from 720-90507 Brisbane OU-2 Data Gap Investigation

Here you go

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bill Chen [mailto:BChen@Geosyntec.com]
Sent: Monday, December 24, 2018 3:25 PM
To: Patel, Urvashi; Mouton, Alain
Cc: Krzysztof Jesionek; Miranda Kahrilas; Anthony Smith
Subject: RE: TestAmerica Sample Login Confirmation files from 720-90507 Brisbane OU-2 Data Gap Investigation

-External Email-

Urvashi,

Can you please also reattach the COC, login summary acknowledgement, and limits sheets?

Many thanks,
Bill

Bill Chen, PE (CA) | Engineer
Geosyntec Consultants | 1111 Broadway Sixth Floor | Oakland CA 94607
510.285.2725 Office | 619.200.8593 Mobile | bchen@geosyntec.com

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Monday, December 24, 2018 2:52 PM
To: Mouton, Alain <Alain.Mouton@testamericainc.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Cc: Bill Chen <BChen@Geosyntec.com>
Subject: RE: TestAmerica Sample Login Confirmation files from 720-90507 Brisbane OU-2 Data Gap Investigation

Added Bill to the email thread.

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Mouton, Alain
Sent: Monday, December 24, 2018 2:10 PM
To: Krys Jesionek; Miranda Kahrilas; Tony Smith
Cc: Patel, Urvashi
Subject: TestAmerica Sample Login Confirmation files from 720-90507 Brisbane OU-2 Data Gap Investigation

Hello,

Attached, please find the Sample Confirmation files for job 720-90507; Brisbane OU-2 Data Gap Investigation.

The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): DG-AS6S-0.5-1.
and DG-AS6S-3.5-4
(#12) DG-AS6S-0.5-1. The container labels list sample time: 0912, while the COC lists sample time 09:10.
(#13) DG-AS6S-3.5-4. The container labels list sample time: 0910, while the COC lists sample time 09:12.
These 2 samples were logged in per the COC.

(#34) DUP 58 The container labels list sample ID: DUP 58 0.5-1, while the COC lists sample ID: DUP-58
This sample was logged by Sample label.

Could you please confirm the times of collection for samples #12 and #13, and the sample ID for sample #34? Thank you.

Please feel free to contact me or your PM, Urvashi Patel, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

ALAIN MOUTON
Project Manager Assistant

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [294521]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90626-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/31/2019 11:41:56 AM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90626-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90626-1

Comments
No additional comments.

Receipt
The samples were received on 1/7/2019 5:37 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.3º C, 1.0º C, 1.3º C and 2.2º C.

Receipt Exceptions

Received only 1 x 40m HCl vial for VOC and GRO for both the TB 01072019 (Trip Blank) and the FB 01072019 (Field Blank).

GC/MS VOA
Method 8260B/CA_LUFTMS: The method blank for 440-523582 contained C4-C12 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B/CA_LUFTMS: The following volatile sample was analyzed with significant headspace in the sample container(s) due to multiple runs: FB-01.07.2019 (720-90626-10). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B/CA_LUFTMS: The following volatile sample was analyzed with significant headspace in the sample container(s): DG-AJ5W (720-90626-1). Head space possibly generated from the sediments contained in the VOA after receipt. Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was 4 and the following samples were analyzed after 7 days from sampling: DG-AJ5W (720-90626-1), (720-90626-C-1 MS) and (720-90626-C-1 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the nature of the sample matrix: DG-T5W (720-90626-8). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-T5W (720-90626-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: Internal standard (ISTD) response for the following sample was outside control limits: DG-V5W (720-90626-7). The sample(s) was re-analyzed with concurring results, and the the most recent set of data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-521594 and analytical batch 440-521627. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-521594/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The serial dilution performed for the following sample associated with batch 720-258246 was outside control limits for Arsenic-28%, Barium-21%, Cobalt-30%, Chromium-31%, Copper-28%, Nickle-27%, Lead-28%, Vandadium-27%, and Zinc-28%: (720-90626-I-1-C SD)

Job ID: 720-90626-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258147 and analytical batch 720-258246 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Water sample contained excessive solid material, the 1-liter amber unpreserved sample container for 8015B analysis had approximately 1 inch of sediment on the bottom of the bottle. Only the water portion was extracted. The sediment layer remained in the sample bottle and therefor the sample bottle could not be solvent rinsed.
DG-AJ5W (720-90626-1), DG-AH5W (720-90626-2), DG-AF5W (720-90626-3), DG-Z5W (720-90626-5), DG-X5W (720-90626-6), DG-V5W (720-90626-7) and DG-T5W (720-90626-8)

Method 3510C: Insufficient sample volume was provided for the following samples for the 3510C 8015B analysis DG-AJ5W (720-90626-1) and DG-AF5W (720-90626-3).

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 3510C 8015B preparation batch 440-521594.

Method 3520C: Due to the matrix, the following sample could not be concentrated to the final method required volume: DG-AJ5W (720-90626-1). The reporting limits (RLs) are elevated proportionately. 8270 SIM PAH

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-521463. LCS was performed in duplicate to provide precision of data. 8270 SIM PAH

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-AJ5W — Lab Sample ID: 720-90626-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.4		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.83		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Acenaphthylene	0.30	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Phenanthrene	1.2		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Anthracene	0.29	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[a]anthracene	0.80		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Chrysene	1.2		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[a]pyrene	1.7		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	2.0		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.57		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	2.5		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	1.9		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Fluoranthene	3.7		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Pyrene	3.6		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	240	J	560	110	ug/L	1		8015B	Total/NA
Antimony	21	F1	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	180		10	2.9	ug/L	1		6010B	Dissolved
Barium	940		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	4.7		2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	4.1		2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	380		10	0.70	ug/L	1		6010B	Dissolved
Cobalt	77		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	450		20	3.7	ug/L	1		6010B	Dissolved
Lead	320		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	14		10	2.9	ug/L	1		6010B	Dissolved
Nickel	420		10	1.0	ug/L	1		6010B	Dissolved
Silver	2.0	J	5.0	2.0	ug/L	1		6010B	Dissolved
Vanadium	280		10	0.87	ug/L	1		6010B	Dissolved
Zinc	540		20	7.4	ug/L	1		6010B	Dissolved
Mercury	0.14	J	0.20	0.10	ug/L	1		7470A	Dissolved

Client Sample ID: DG-AH5W — Lab Sample ID: 720-90626-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.30	J	0.50	0.25	ug/L	1		8260B	Total/NA
Acetone	12	J	20	10	ug/L	1		8260B	Total/NA
Phenanthrene	0.14	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.12	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.11	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.17	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	0.23		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Antimony	11		10	4.1	ug/L	1		6010B	Dissolved
Arsenic	18		10	2.9	ug/L	1		6010B	Dissolved
Barium	140		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.67	J	2.0	0.59	ug/L	1		6010B	Dissolved
Chromium	1.5	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	4.1		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	44		20	3.7	ug/L	1		6010B	Dissolved
Lead	8.9		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	24		10	2.9	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-AH5W (Continued) — Lab Sample ID: 720-90626-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	4.0	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.7	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AF5W — Lab Sample ID: 720-90626-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.82		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.11	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.36		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.13	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.29		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.36		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.45		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.49		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.19	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.47		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.38		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.69		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.89		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	130	J	570	110	ug/L	1		8015B	Total/NA
Arsenic	130		10	2.9	ug/L	1		6010B	Dissolved
Barium	240		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	1.4	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	0.99	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	8.4		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	14	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	14		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	9.3	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	11		10	1.0	ug/L	1		6010B	Dissolved
Zinc	130		20	7.4	ug/L	1		6010B	Dissolved
Mercury	0.11	J	0.20	0.10	ug/L	1		7470A	Dissolved

Client Sample ID: DG-AD5W — Lab Sample ID: 720-90626-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.13	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.15	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Anthracene	0.14	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.50		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Chrysene	0.70		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	1.3		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	1.3		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.32		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1.4		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	1.0		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	2.9		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	2.7		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	120	J	480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120	J	480	96	ug/L	1		8015B	Total/NA
Antimony	20		10	4.1	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD5W (Continued) — Lab Sample ID: 720-90626-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	120		10	2.9	ug/L	1		6010B	Dissolved
Barium	210		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.43	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	0.96	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.9	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	26		20	3.7	ug/L	1		6010B	Dissolved
Lead	17		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	13		10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.2	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	11	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-Z5W — Lab Sample ID: 720-90626-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.38		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.12	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.28		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Anthracene	0.15	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.26		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Chrysene	0.38		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.83		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.83		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.29		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1.1		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.79		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.75		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	0.96		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Arsenic	22		10	2.9	ug/L	1		6010B	Dissolved
Barium	120		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.4	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	5.9		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	9.2		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	7.6	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	3.7	J	10	1.0	ug/L	1		6010B	Dissolved

Client Sample ID: DG-X5W — Lab Sample ID: 720-90626-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	20	10	ug/L	1		8260B	Total/NA
Naphthalene	0.25	J	0.40	0.20	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.29	J	0.40	0.20	ug/L	1		8270C SIM	Total/NA
Phenanthrene	1.1		0.40	0.20	ug/L	1		8270C SIM	Total/NA
Anthracene	0.37	J	0.40	0.20	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.89		0.40	0.20	ug/L	1		8270C SIM	Total/NA
Chrysene	0.95		0.40	0.20	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	1.3		0.40	0.20	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	1.3		0.40	0.20	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.53		0.40	0.20	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1.2		0.40	0.20	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.89		0.40	0.20	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-X5W (Continued) — Lab Sample ID: 720-90626-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1.6		0.40	0.20	ug/L	1		8270C SIM	Total/NA
Pyrene	2.1		0.40	0.20	ug/L	1		8270C SIM	Total/NA
Antimony	12		10	4.1	ug/L	1		6010B	Dissolved
Arsenic	65		10	2.9	ug/L	1		6010B	Dissolved
Barium	260		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.6	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	0.96	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	12	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	28		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	11		10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.3	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.7	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	17	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-V5W — Lab Sample ID: 720-90626-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12		10	4.1	ug/L	1		6010B	Dissolved
Arsenic	610		10	2.9	ug/L	1		6010B	Dissolved
Barium	120		50	1.6	ug/L	1		6010B	Dissolved
Copper	6.1	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	9.2		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	3.7	J	10	2.9	ug/L	1		6010B	Dissolved
Vanadium	7.2	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	17	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-T5W — Lab Sample ID: 720-90626-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	790		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	330	J	500	100	ug/L	1		8015B	Total/NA
Antimony	9.2	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	120		10	2.9	ug/L	1		6010B	Dissolved
Barium	310		50	1.6	ug/L	1		6010B	Dissolved
Cobalt	1.5	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	8.0	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	14		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	9.2	J	10	2.9	ug/L	1		6010B	Dissolved
Vanadium	3.7	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	9.6	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: TB-01.07.2019 — Lab Sample ID: 720-90626-9

No Detections.

Client Sample ID: FB-01.07.2019 — Lab Sample ID: 720-90626-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	20	10	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-AJ5W
Date Collected: 01/07/19 10:20
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/21/19 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*01/21/19 10:43*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*01/21/19 10:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/21/19 10:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**5.4**		0.50	0.25	ug/L			01/19/19 13:12	1
Acetone	ND		20	10	ug/L			01/19/19 13:12	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 13:12	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 13:12	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 13:12	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 13:12	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 13:12	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 13:12	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 13:12	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 13:12	1

Client Sample ID: DG-AJ5W
Date Collected: 01/07/19 10:20
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 13:12	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 13:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 13:12	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 13:12	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 13:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 13:12	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 13:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 13:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 13:12	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 13:12	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 13:12	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*01/19/19 13:12*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/19/19 13:12*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.83**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Acenaphthene	ND		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Acenaphthylene	**0.30**	**J**	0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Fluorene	ND		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Phenanthrene	**1.2**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Anthracene	**0.29**	**J**	0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Benzo[a]anthracene	**0.80**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Chrysene	**1.2**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Benzo[a]pyrene	**1.7**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Benzo[b]fluoranthene	**2.0**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Benzo[k]fluoranthene	**0.57**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Benzo[g,h,i]perylene	**2.5**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Indeno[1,2,3-cd]pyrene	**1.9**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Fluoranthene	**3.7**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Pyrene	**3.6**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2
Dibenz(a,h)anthracene	ND		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 11:41	2

Client Sample ID: DG-AJ5W

Date Collected: 01/07/19 10:20
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	89		38 - 120	01/09/19 17:10	01/17/19 11:41	2
Nitrobenzene-d5	61		10 - 120	01/09/19 17:10	01/17/19 11:41	2
Terphenyl-d14	63		21 - 120	01/09/19 17:10	01/17/19 11:41	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**240**	**J**	560	110	ug/L		01/10/19 05:33	01/10/19 13:43	1
Motor Oil Range Organics [C24-C36]	ND		560	110	ug/L		01/10/19 05:33	01/10/19 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	68		45 - 120	01/10/19 05:33	01/10/19 13:43	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**21**	**F1**	10	4.1	ug/L		01/08/19 14:54	01/09/19 15:03	1
Arsenic	**180**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:03	1
Barium	**940**		50	1.6	ug/L		01/08/19 14:54	01/09/19 15:03	1
Beryllium	**4.7**		2.0	0.59	ug/L		01/08/19 14:54	01/09/19 15:03	1
Cadmium	**4.1**		2.0	0.21	ug/L		01/08/19 14:54	01/09/19 15:03	1
Chromium	**380**		10	0.70	ug/L		01/08/19 14:54	01/09/19 15:03	1
Cobalt	**77**		2.0	0.68	ug/L		01/08/19 14:54	01/09/19 15:03	1
Copper	**450**		20	3.7	ug/L		01/08/19 14:54	01/09/19 15:03	1
Lead	**320**		5.0	2.2	ug/L		01/08/19 14:54	01/09/19 15:03	1
Molybdenum	**14**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:03	1
Nickel	**420**		10	1.0	ug/L		01/08/19 14:54	01/09/19 15:03	1
Selenium	ND		20	4.6	ug/L		01/08/19 14:54	01/09/19 15:03	1
Silver	**2.0**	**J**	5.0	2.0	ug/L		01/08/19 14:54	01/09/19 15:03	1
Thallium	ND		10	3.5	ug/L		01/08/19 14:54	01/09/19 15:03	1
Vanadium	**280**		10	0.87	ug/L		01/08/19 14:54	01/09/19 15:03	1
Zinc	**540**		20	7.4	ug/L		01/08/19 14:54	01/09/19 15:03	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**	**J**	0.20	0.10	ug/L		01/09/19 12:12	01/09/19 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/07/19 20:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-AH5W

Date Collected: 01/07/19 10:45
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-2

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/19/19 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*01/19/19 17:54*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*01/19/19 17:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/19/19 17:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.30**	**J**	0.50	0.25	ug/L			01/19/19 16:26	1
Acetone	**12**	**J**	20	10	ug/L			01/19/19 16:26	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 16:26	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 16:26	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 16:26	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 16:26	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 16:26	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 16:26	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 16:26	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 16:26	1

Client Sample ID: DG-AH5W
Date Collected: 01/07/19 10:45
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 16:26	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 16:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 16:26	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 16:26	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 16:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 16:26	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 16:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 16:26	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 16:26	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 16:26	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*01/19/19 16:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/19/19 16:26*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Acenaphthene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Acenaphthylene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Fluorene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Phenanthrene	**0.14**	**J**	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Anthracene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Chrysene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Benzo[b]fluoranthene	**0.12**	**J**	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Benzo[g,h,i]perylene	**0.11**	**J**	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Fluoranthene	**0.17**	**J**	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Pyrene	**0.23**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 09:39	1

Client Sample ID: DG-AH5W

Date Collected: 01/07/19 10:45
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*38 - 120*	*01/09/19 17:10*	*01/17/19 09:39*	*1*
Nitrobenzene-d5	*69*		*10 - 120*	*01/09/19 17:10*	*01/17/19 09:39*	*1*
Terphenyl-d14	*55*		*21 - 120*	*01/09/19 17:10*	*01/17/19 09:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		510	100	ug/L		01/10/19 05:33	01/10/19 14:03	1
Motor Oil Range Organics [C24-C36]	ND		510	100	ug/L		01/10/19 05:33	01/10/19 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*45 - 120*	*01/10/19 05:33*	*01/10/19 14:03*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**11**		10	4.1	ug/L		01/08/19 14:54	01/09/19 15:08	1
Arsenic	**18**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:08	1
Barium	**140**		50	1.6	ug/L		01/08/19 14:54	01/09/19 15:08	1
Beryllium	**0.67**	**J**	2.0	0.59	ug/L		01/08/19 14:54	01/09/19 15:08	1
Cadmium	ND		2.0	0.21	ug/L		01/08/19 14:54	01/09/19 15:08	1
Chromium	**1.5**	**J**	10	0.70	ug/L		01/08/19 14:54	01/09/19 15:08	1
Cobalt	**4.1**		2.0	0.68	ug/L		01/08/19 14:54	01/09/19 15:08	1
Copper	**44**		20	3.7	ug/L		01/08/19 14:54	01/09/19 15:08	1
Lead	**8.9**		5.0	2.2	ug/L		01/08/19 14:54	01/09/19 15:08	1
Molybdenum	**24**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:08	1
Nickel	**4.0**	**J**	10	1.0	ug/L		01/08/19 14:54	01/09/19 15:08	1
Selenium	ND		20	4.6	ug/L		01/08/19 14:54	01/09/19 15:08	1
Silver	ND		5.0	2.0	ug/L		01/08/19 14:54	01/09/19 15:08	1
Thallium	ND		10	3.5	ug/L		01/08/19 14:54	01/09/19 15:08	1
Vanadium	**2.7**	**J**	10	0.87	ug/L		01/08/19 14:54	01/09/19 15:08	1
Zinc	ND		20	7.4	ug/L		01/08/19 14:54	01/09/19 15:08	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/09/19 12:12	01/09/19 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/07/19 20:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-AF5W
Date Collected: 01/07/19 14:30
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/21/19 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*01/21/19 17:10*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/21/19 17:10*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/21/19 17:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.82**		0.50	0.25	ug/L			01/19/19 16:54	1
Acetone	ND		20	10	ug/L			01/19/19 16:54	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 16:54	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 16:54	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 16:54	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 16:54	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 16:54	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 16:54	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 16:54	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 16:54	1

Client Sample ID: DG-AF5W

Date Collected: 01/07/19 14:30
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 16:54	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 16:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 16:54	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 16:54	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 16:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 16:54	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 16:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 16:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 16:54	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 16:54	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 16:54	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*01/19/19 16:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/19/19 16:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.11**	**J**	0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Acenaphthene	ND		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Fluorene	ND		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Phenanthrene	**0.36**		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Anthracene	**0.13**	**J**	0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Benzo[a]anthracene	**0.29**		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Chrysene	**0.36**		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Benzo[a]pyrene	**0.45**		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Benzo[b]fluoranthene	**0.49**		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Benzo[k]fluoranthene	**0.19**	**J**	0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Benzo[g,h,i]perylene	**0.47**		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Indeno[1,2,3-cd]pyrene	**0.38**		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Fluoranthene	**0.69**		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Pyrene	**0.89**		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/09/19 17:10	01/17/19 10:04	1

Client Sample ID: DG-AF5W

Date Collected: 01/07/19 14:30
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*95*		*38 - 120*	*01/09/19 17:10*	*01/17/19 10:04*	*1*
Nitrobenzene-d5	*72*		*10 - 120*	*01/09/19 17:10*	*01/17/19 10:04*	*1*
Terphenyl-d14	*69*		*21 - 120*	*01/09/19 17:10*	*01/17/19 10:04*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**	**J**	570	110	ug/L		01/10/19 05:33	01/10/19 14:24	1
Motor Oil Range Organics [C24-C36]	ND		570	110	ug/L		01/10/19 05:33	01/10/19 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*68*		*45 - 120*	*01/10/19 05:33*	*01/10/19 14:24*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/08/19 14:54	01/09/19 15:13	1
Arsenic	**130**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:13	1
Barium	**240**		50	1.6	ug/L		01/08/19 14:54	01/09/19 15:13	1
Beryllium	ND		2.0	0.59	ug/L		01/08/19 14:54	01/09/19 15:13	1
Cadmium	**1.4**	**J**	2.0	0.21	ug/L		01/08/19 14:54	01/09/19 15:13	1
Chromium	**0.99**	**J**	10	0.70	ug/L		01/08/19 14:54	01/09/19 15:13	1
Cobalt	**8.4**		2.0	0.68	ug/L		01/08/19 14:54	01/09/19 15:13	1
Copper	**14**	**J**	20	3.7	ug/L		01/08/19 14:54	01/09/19 15:13	1
Lead	**14**		5.0	2.2	ug/L		01/08/19 14:54	01/09/19 15:13	1
Molybdenum	**9.3**	**J**	10	2.9	ug/L		01/08/19 14:54	01/09/19 15:13	1
Nickel	**11**		10	1.0	ug/L		01/08/19 14:54	01/09/19 15:13	1
Selenium	ND		20	4.6	ug/L		01/08/19 14:54	01/09/19 15:13	1
Silver	ND		5.0	2.0	ug/L		01/08/19 14:54	01/09/19 15:13	1
Thallium	ND		10	3.5	ug/L		01/08/19 14:54	01/09/19 15:13	1
Vanadium	ND		10	0.87	ug/L		01/08/19 14:54	01/09/19 15:13	1
Zinc	**130**		20	7.4	ug/L		01/08/19 14:54	01/09/19 15:13	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**	**J**	0.20	0.10	ug/L		01/09/19 12:12	01/09/19 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/07/19 20:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-AD5W
Date Collected: 01/07/19 14:45
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/19/19 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*01/19/19 18:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/19/19 18:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/19/19 18:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Acetone	ND		20	10	ug/L			01/19/19 17:22	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 17:22	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 17:22	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 17:22	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 17:22	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 17:22	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 17:22	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 17:22	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 17:22	1

Client Sample ID: DG-AD5W

Date Collected: 01/07/19 14:45
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 17:22	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 17:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 17:22	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 17:22	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 17:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 17:22	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 17:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 17:22	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 17:22	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 17:22	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/19/19 17:22*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*01/19/19 17:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.13**	**J**	0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Acenaphthene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Acenaphthylene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Fluorene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Phenanthrene	**0.15**	**J**	0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Anthracene	**0.14**	**J**	0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Benzo[a]anthracene	**0.50**		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Chrysene	**0.70**		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Benzo[a]pyrene	**1.3**		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Benzo[b]fluoranthene	**1.3**		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Benzo[k]fluoranthene	**0.32**		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Benzo[g,h,i]perylene	**1.4**		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Indeno[1,2,3-cd]pyrene	**1.0**		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Fluoranthene	**2.9**		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Pyrene	**2.7**		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/14/19 15:55	1

Client Sample ID: DG-AD5W

Date Collected: 01/07/19 14:45
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*38 - 120*	*01/09/19 17:10*	*01/14/19 15:55*	*1*
Nitrobenzene-d5	*83*		*10 - 120*	*01/09/19 17:10*	*01/14/19 15:55*	*1*
Terphenyl-d14	*65*		*21 - 120*	*01/09/19 17:10*	*01/14/19 15:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**120**	**J**	480	96	ug/L		01/10/19 05:33	01/10/19 14:45	1
Motor Oil Range Organics [C24-C36]	**120**	**J**	480	96	ug/L		01/10/19 05:33	01/10/19 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*59*		*45 - 120*	*01/10/19 05:33*	*01/10/19 14:45*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**20**		10	4.1	ug/L		01/08/19 14:54	01/09/19 15:18	1
Arsenic	**120**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:18	1
Barium	**210**		50	1.6	ug/L		01/08/19 14:54	01/09/19 15:18	1
Beryllium	ND		2.0	0.59	ug/L		01/08/19 14:54	01/09/19 15:18	1
Cadmium	**0.43**	**J**	2.0	0.21	ug/L		01/08/19 14:54	01/09/19 15:18	1
Chromium	**0.96**	**J**	10	0.70	ug/L		01/08/19 14:54	01/09/19 15:18	1
Cobalt	**1.9**	**J**	2.0	0.68	ug/L		01/08/19 14:54	01/09/19 15:18	1
Copper	**26**		20	3.7	ug/L		01/08/19 14:54	01/09/19 15:18	1
Lead	**17**		5.0	2.2	ug/L		01/08/19 14:54	01/09/19 15:18	1
Molybdenum	**13**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:18	1
Nickel	**1.2**	**J**	10	1.0	ug/L		01/08/19 14:54	01/09/19 15:18	1
Selenium	ND		20	4.6	ug/L		01/08/19 14:54	01/09/19 15:18	1
Silver	ND		5.0	2.0	ug/L		01/08/19 14:54	01/09/19 15:18	1
Thallium	ND		10	3.5	ug/L		01/08/19 14:54	01/09/19 15:18	1
Vanadium	ND		10	0.87	ug/L		01/08/19 14:54	01/09/19 15:18	1
Zinc	**11**	**J**	20	7.4	ug/L		01/08/19 14:54	01/09/19 15:18	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/09/19 12:12	01/09/19 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/07/19 20:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-Z5W
Date Collected: 01/07/19 15:00
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/21/19 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*01/21/19 12:50*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/21/19 12:50*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/21/19 12:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Acetone	ND		20	10	ug/L			01/19/19 17:50	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 17:50	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 17:50	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 17:50	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 17:50	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 17:50	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 17:50	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 17:50	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 17:50	1

Client Sample ID: DG-Z5W

Date Collected: 01/07/19 15:00
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 17:50	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 17:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 17:50	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 17:50	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 17:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 17:50	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 17:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 17:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 17:50	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 17:50	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 17:50	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*01/19/19 17:50*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*01/19/19 17:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.38**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Acenaphthene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Acenaphthylene	**0.12**	**J**	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Fluorene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Phenanthrene	**0.28**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Anthracene	**0.15**	**J**	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Benzo[a]anthracene	**0.26**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Chrysene	**0.38**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Benzo[a]pyrene	**0.83**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Benzo[b]fluoranthene	**0.83**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Benzo[k]fluoranthene	**0.29**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Benzo[g,h,i]perylene	**1.1**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Indeno[1,2,3-cd]pyrene	**0.79**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Fluoranthene	**0.75**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Pyrene	**0.96**		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 10:28	1

Client Sample ID: DG-Z5W

Date Collected: 01/07/19 15:00
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	86		38 - 120	01/09/19 17:10	01/17/19 10:28	1
Nitrobenzene-d5	86		10 - 120	01/09/19 17:10	01/17/19 10:28	1
Terphenyl-d14	65		21 - 120	01/09/19 17:10	01/17/19 10:28	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		530	110	ug/L		01/10/19 05:33	01/10/19 15:06	1
Motor Oil Range Organics [C24-C36]	ND		530	110	ug/L		01/10/19 05:33	01/10/19 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	70		45 - 120	01/10/19 05:33	01/10/19 15:06	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/08/19 14:54	01/09/19 15:32	1
Arsenic	**22**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:32	1
Barium	**120**		50	1.6	ug/L		01/08/19 14:54	01/09/19 15:32	1
Beryllium	ND		2.0	0.59	ug/L		01/08/19 14:54	01/09/19 15:32	1
Cadmium	ND		2.0	0.21	ug/L		01/08/19 14:54	01/09/19 15:32	1
Chromium	**1.4**	**J**	10	0.70	ug/L		01/08/19 14:54	01/09/19 15:32	1
Cobalt	**5.9**		2.0	0.68	ug/L		01/08/19 14:54	01/09/19 15:32	1
Copper	ND		20	3.7	ug/L		01/08/19 14:54	01/09/19 15:32	1
Lead	**9.2**		5.0	2.2	ug/L		01/08/19 14:54	01/09/19 15:32	1
Molybdenum	**7.6**	**J**	10	2.9	ug/L		01/08/19 14:54	01/09/19 15:32	1
Nickel	**3.7**	**J**	10	1.0	ug/L		01/08/19 14:54	01/09/19 15:32	1
Selenium	ND		20	4.6	ug/L		01/08/19 14:54	01/09/19 15:32	1
Silver	ND		5.0	2.0	ug/L		01/08/19 14:54	01/09/19 15:32	1
Thallium	ND		10	3.5	ug/L		01/08/19 14:54	01/09/19 15:32	1
Vanadium	ND		10	0.87	ug/L		01/08/19 14:54	01/09/19 15:32	1
Zinc	ND		20	7.4	ug/L		01/08/19 14:54	01/09/19 15:32	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/09/19 12:12	01/09/19 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/07/19 20:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-X5W
Date Collected: 01/07/19 15:15
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/19/19 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*01/19/19 19:35*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*01/19/19 19:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/19/19 19:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Acetone	**11**	**J**	20	10	ug/L			01/19/19 18:18	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 18:18	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 18:18	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 18:18	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 18:18	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 18:18	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 18:18	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 18:18	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 18:18	1

Client Sample ID: DG-X5W

Date Collected: 01/07/19 15:15
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 18:18	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 18:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 18:18	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 18:18	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 18:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 18:18	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 18:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 18:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 18:18	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 18:18	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 18:18	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*01/19/19 18:18*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*01/19/19 18:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.25**	**J**	0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Acenaphthene	ND		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Acenaphthylene	**0.29**	**J**	0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Fluorene	ND		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Phenanthrene	**1.1**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Anthracene	**0.37**	**J**	0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Benzo[a]anthracene	**0.89**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Chrysene	**0.95**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Benzo[a]pyrene	**1.3**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Benzo[b]fluoranthene	**1.3**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Benzo[k]fluoranthene	**0.53**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Benzo[g,h,i]perylene	**1.2**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Indeno[1,2,3-cd]pyrene	**0.89**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Fluoranthene	**1.6**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Pyrene	**2.1**		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1
Dibenz(a,h)anthracene	ND		0.40	0.20	ug/L		01/09/19 17:10	01/17/19 10:52	1

Client Sample ID: DG-X5W

Date Collected: 01/07/19 15:15
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*38 - 120*	*01/09/19 17:10*	*01/17/19 10:52*	*1*
Nitrobenzene-d5	*70*		*10 - 120*	*01/09/19 17:10*	*01/17/19 10:52*	*1*
Terphenyl-d14	*56*		*21 - 120*	*01/09/19 17:10*	*01/17/19 10:52*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		520	100	ug/L		01/10/19 05:33	01/10/19 15:26	1
Motor Oil Range Organics [C24-C36]	ND		520	100	ug/L		01/10/19 05:33	01/10/19 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*45 - 120*	*01/10/19 05:33*	*01/10/19 15:26*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**12**		10	4.1	ug/L		01/08/19 14:54	01/09/19 15:37	1
Arsenic	**65**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:37	1
Barium	**260**		50	1.6	ug/L		01/08/19 14:54	01/09/19 15:37	1
Beryllium	ND		2.0	0.59	ug/L		01/08/19 14:54	01/09/19 15:37	1
Cadmium	ND		2.0	0.21	ug/L		01/08/19 14:54	01/09/19 15:37	1
Chromium	**1.6**	**J**	10	0.70	ug/L		01/08/19 14:54	01/09/19 15:37	1
Cobalt	**0.96**	**J**	2.0	0.68	ug/L		01/08/19 14:54	01/09/19 15:37	1
Copper	**12**	**J**	20	3.7	ug/L		01/08/19 14:54	01/09/19 15:37	1
Lead	**28**		5.0	2.2	ug/L		01/08/19 14:54	01/09/19 15:37	1
Molybdenum	**11**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:37	1
Nickel	**1.3**	**J**	10	1.0	ug/L		01/08/19 14:54	01/09/19 15:37	1
Selenium	ND		20	4.6	ug/L		01/08/19 14:54	01/09/19 15:37	1
Silver	ND		5.0	2.0	ug/L		01/08/19 14:54	01/09/19 15:37	1
Thallium	ND		10	3.5	ug/L		01/08/19 14:54	01/09/19 15:37	1
Vanadium	**2.7**	**J**	10	0.87	ug/L		01/08/19 14:54	01/09/19 15:37	1
Zinc	**17**	**J**	20	7.4	ug/L		01/08/19 14:54	01/09/19 15:37	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/09/19 12:12	01/09/19 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/07/19 20:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-V5W
Date Collected: 01/07/19 15:30
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/19/19 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*01/19/19 20:01*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*01/19/19 20:01*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/19/19 20:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Acetone	ND		20	10	ug/L			01/19/19 18:45	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 18:45	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 18:45	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 18:45	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 18:45	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 18:45	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 18:45	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 18:45	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 18:45	1

Client Sample ID: DG-V5W
Date Collected: 01/07/19 15:30
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 18:45	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 18:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 18:45	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 18:45	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 18:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 18:45	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 18:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 18:45	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 18:45	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 18:45	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*01/19/19 18:45*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/19/19 18:45*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Acenaphthene	ND	*	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Acenaphthylene	ND	*	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Fluorene	ND	*	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Phenanthrene	ND	*	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Anthracene	ND	*	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Chrysene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Fluoranthene	ND	*	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Pyrene	ND	*	0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		01/09/19 17:10	01/17/19 11:16	1

Client Sample ID: DG-V5W

Date Collected: 01/07/19 15:30
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*101*	*	*38 - 120*	*01/09/19 17:10*	*01/17/19 11:16*	*1*
Nitrobenzene-d5	*79*		*10 - 120*	*01/09/19 17:10*	*01/17/19 11:16*	*1*
Terphenyl-d14	*72*		*21 - 120*	*01/09/19 17:10*	*01/17/19 11:16*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		520	100	ug/L		01/10/19 05:33	01/10/19 15:47	1
Motor Oil Range Organics [C24-C36]	ND		520	100	ug/L		01/10/19 05:33	01/10/19 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*68*		*45 - 120*	*01/10/19 05:33*	*01/10/19 15:47*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**12**		10	4.1	ug/L		01/08/19 14:54	01/09/19 15:42	1
Arsenic	**610**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:42	1
Barium	**120**		50	1.6	ug/L		01/08/19 14:54	01/09/19 15:42	1
Beryllium	ND		2.0	0.59	ug/L		01/08/19 14:54	01/09/19 15:42	1
Cadmium	ND		2.0	0.21	ug/L		01/08/19 14:54	01/09/19 15:42	1
Chromium	ND		10	0.70	ug/L		01/08/19 14:54	01/09/19 15:42	1
Cobalt	ND		2.0	0.68	ug/L		01/08/19 14:54	01/09/19 15:42	1
Copper	**6.1**	**J**	20	3.7	ug/L		01/08/19 14:54	01/09/19 15:42	1
Lead	**9.2**		5.0	2.2	ug/L		01/08/19 14:54	01/09/19 15:42	1
Molybdenum	**3.7**	**J**	10	2.9	ug/L		01/08/19 14:54	01/09/19 15:42	1
Nickel	ND		10	1.0	ug/L		01/08/19 14:54	01/09/19 15:42	1
Selenium	ND		20	4.6	ug/L		01/08/19 14:54	01/09/19 15:42	1
Silver	ND		5.0	2.0	ug/L		01/08/19 14:54	01/09/19 15:42	1
Thallium	ND		10	3.5	ug/L		01/08/19 14:54	01/09/19 15:42	1
Vanadium	**7.2**	**J**	10	0.87	ug/L		01/08/19 14:54	01/09/19 15:42	1
Zinc	**17**	**J**	20	7.4	ug/L		01/08/19 14:54	01/09/19 15:42	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/09/19 12:12	01/09/19 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/07/19 20:11	1

Client Sample ID: DG-T5W

Date Collected: 01/07/19 15:45
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-8

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	790		50	35	ug/L			01/21/19 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*01/21/19 10:16*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*01/21/19 10:16*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/21/19 10:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Acetone	ND		20	10	ug/L			01/19/19 19:13	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 19:13	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 19:13	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 19:13	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 19:13	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 19:13	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 19:13	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 19:13	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 19:13	1

Client Sample ID: DG-T5W
Date Collected: 01/07/19 15:45
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 19:13	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 19:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 19:13	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 19:13	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 19:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 19:13	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 19:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 19:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 19:13	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 19:13	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 19:13	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*01/19/19 19:13*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/19/19 19:13*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Acenaphthene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Acenaphthylene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Fluorene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Phenanthrene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Anthracene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Benzo[a]anthracene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Chrysene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Benzo[a]pyrene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Benzo[b]fluoranthene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Benzo[k]fluoranthene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Benzo[g,h,i]perylene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Indeno[1,2,3-cd]pyrene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Fluoranthene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Pyrene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10
Dibenz(a,h)anthracene	ND		2.0	0.99	ug/L		01/09/19 17:10	01/17/19 12:05	10

Client Sample ID: DG-T5W

Date Collected: 01/07/19 15:45
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*38 - 120*	*01/09/19 17:10*	*01/17/19 12:05*	*10*
Nitrobenzene-d5	*0*	*X*	*10 - 120*	*01/09/19 17:10*	*01/17/19 12:05*	*10*
Terphenyl-d14	*0*	*X*	*21 - 120*	*01/09/19 17:10*	*01/17/19 12:05*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**330**	**J**	500	100	ug/L		01/10/19 05:33	01/10/19 16:08	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/10/19 05:33	01/10/19 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*59*		*45 - 120*	*01/10/19 05:33*	*01/10/19 16:08*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**9.2**	**J**	10	4.1	ug/L		01/08/19 14:54	01/09/19 15:47	1
Arsenic	**120**		10	2.9	ug/L		01/08/19 14:54	01/09/19 15:47	1
Barium	**310**		50	1.6	ug/L		01/08/19 14:54	01/09/19 15:47	1
Beryllium	ND		2.0	0.59	ug/L		01/08/19 14:54	01/09/19 15:47	1
Cadmium	ND		2.0	0.21	ug/L		01/08/19 14:54	01/09/19 15:47	1
Chromium	ND		10	0.70	ug/L		01/08/19 14:54	01/09/19 15:47	1
Cobalt	**1.5**	**J**	2.0	0.68	ug/L		01/08/19 14:54	01/09/19 15:47	1
Copper	**8.0**	**J**	20	3.7	ug/L		01/08/19 14:54	01/09/19 15:47	1
Lead	**14**		5.0	2.2	ug/L		01/08/19 14:54	01/09/19 15:47	1
Molybdenum	**9.2**	**J**	10	2.9	ug/L		01/08/19 14:54	01/09/19 15:47	1
Nickel	ND		10	1.0	ug/L		01/08/19 14:54	01/09/19 15:47	1
Selenium	ND		20	4.6	ug/L		01/08/19 14:54	01/09/19 15:47	1
Silver	ND		5.0	2.0	ug/L		01/08/19 14:54	01/09/19 15:47	1
Thallium	ND		10	3.5	ug/L		01/08/19 14:54	01/09/19 15:47	1
Vanadium	**3.7**	**J**	10	0.87	ug/L		01/08/19 14:54	01/09/19 15:47	1
Zinc	**9.6**	**J**	20	7.4	ug/L		01/08/19 14:54	01/09/19 15:47	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/09/19 12:12	01/09/19 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/07/19 20:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: TB-01.07.2019
Date Collected: 01/07/19 00:00
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-9
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/19/19 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*01/19/19 20:52*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/19/19 20:52*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*01/19/19 20:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Acetone	ND		20	10	ug/L			01/19/19 19:41	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 19:41	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 19:41	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 19:41	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 19:41	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 19:41	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 19:41	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 19:41	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 19:41	1

Client Sample ID: TB-01.07.2019
Date Collected: 01/07/19 00:00
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 19:41	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 19:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 19:41	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 19:41	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 19:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 19:41	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 19:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 19:41	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 19:41	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 19:41	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/19/19 19:41*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*01/19/19 19:41*	*1*

Client Sample ID: FB-01.07.2019

Date Collected: 01/07/19 00:00
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-10

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/20/19 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*01/20/19 14:34*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/20/19 14:34*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/20/19 14:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Acetone	**18**	**J**	20	10	ug/L			01/19/19 20:08	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 20:08	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 20:08	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 20:08	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 20:08	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 20:08	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 20:08	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 20:08	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 20:08	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: FB-01.07.2019
Date Collected: 01/07/19 00:00
Date Received: 01/07/19 17:37

Lab Sample ID: 720-90626-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 20:08	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 20:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 20:08	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 20:08	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 20:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 20:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 20:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 20:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 20:08	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 20:08	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 20:08	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*01/19/19 20:08*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/19/19 20:08*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
720-90626-1	DG-AJ5W	119	97
720-90626-1 MS	DG-AJ5W	103	99
720-90626-1 MSD	DG-AJ5W	101	101
720-90626-2	DG-AH5W	120	102
720-90626-3	DG-AF5W	114	100
720-90626-4	DG-AD5W	113	105
720-90626-5	DG-Z5W	112	107
720-90626-6	DG-X5W	109	108
720-90626-7	DG-V5W	117	103
720-90626-8	DG-T5W	119	103
720-90626-9	TB-01.07.2019	113	105
720-90626-10	FB-01.07.2019	112	103
LCS 440-523579/6	Lab Control Sample	106	95
MB 440-523579/5	Method Blank	109	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-229543-A-4 MS	Matrix Spike	101	100	94
440-229543-A-4 MSD	Matrix Spike Duplicate	111	99	95
440-229960-F-9 MS	Matrix Spike	99	101	99
440-229960-F-9 MSD	Matrix Spike Duplicate	102	105	102
440-230044-C-7 MS	Matrix Spike	103	98	96
440-230044-C-7 MSD	Matrix Spike Duplicate	101	101	98
440-230058-B-1 MS	Matrix Spike	99	99	95
440-230058-B-1 MSD	Matrix Spike Duplicate	100	101	96
720-90626-1	DG-AJ5W	103	97	97
720-90626-2	DG-AH5W	111	95	98
720-90626-3	DG-AF5W	110	106	100
720-90626-4	DG-AD5W	107	99	99
720-90626-5	DG-Z5W	108	98	100
720-90626-6	DG-X5W	111	94	99
720-90626-7	DG-V5W	111	95	99
720-90626-8	DG-T5W	109	93	98
720-90626-9	TB-01.07.2019	110	99	95
720-90626-10	FB-01.07.2019	108	99	98
LCS 440-523582/6	Lab Control Sample	99	102	98
LCS 440-523638/30	Lab Control Sample	99	100	99
LCS 440-523694/28	Lab Control Sample	100	97	97
LCS 440-523750/7	Lab Control Sample	99	109	104
MB 440-523582/29	Method Blank	107	96	99
MB 440-523638/7	Method Blank	107	105	100

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (76-132)	BFB (80-120)	TOL (80-128)
MB 440-523694/27	Method Blank	111	94	98
MB 440-523750/4	Method Blank	105	102	102

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (38-120)	NBZ (10-120)	TPHL (21-120)
720-90626-1	DG-AJ5W	89	61	63
720-90626-2	DG-AH5W	92	69	55
720-90626-3	DG-AF5W	95	72	69
720-90626-4	DG-AD5W	78	83	65
720-90626-5	DG-Z5W	86	86	65
720-90626-6	DG-X5W	95	70	56
720-90626-7	DG-V5W	101 *	79	72
720-90626-8	DG-T5W	75	0 X	0 X
LCS 440-521463/4-A	Lab Control Sample	75	68	106
LCSD 440-521463/5-A	Lab Control Sample Dup	78	76	103
MB 440-521463/1-A	Method Blank	81	78	92

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
720-90626-1	DG-AJ5W	68
720-90626-2	DG-AH5W	66
720-90626-3	DG-AF5W	68
720-90626-4	DG-AD5W	59
720-90626-5	DG-Z5W	70
720-90626-6	DG-X5W	64
720-90626-7	DG-V5W	68
720-90626-8	DG-T5W	59
LCS 440-521594/2-A	Lab Control Sample	75
LCSD 440-521594/3-A	Lab Control Sample Dup	75
MB 440-521594/1-A	Method Blank	74

Surrogate Legend

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-523579/5
Matrix: Water
Analysis Batch: 523579

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Acetone	ND		20	10	ug/L			01/19/19 10:49	1
Benzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Bromobenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Bromoform	ND		1.0	0.40	ug/L			01/19/19 10:49	1
Bromomethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/19/19 10:49	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/19/19 10:49	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/19/19 10:49	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Chloroethane	ND		1.0	0.40	ug/L			01/19/19 10:49	1
Chloroform	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Chloromethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/19/19 10:49	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Dibromomethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/19/19 10:49	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
2-Hexanone	ND		5.0	2.5	ug/L			01/19/19 10:49	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/19/19 10:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/19/19 10:49	1
Naphthalene	ND		1.0	0.40	ug/L			01/19/19 10:49	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Styrene	ND		0.50	0.25	ug/L			01/19/19 10:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523579/5
Matrix: Water
Analysis Batch: 523579

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Toluene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 10:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/19/19 10:49	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Trichloroethene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/19/19 10:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/19/19 10:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/19/19 10:49	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/19/19 10:49	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/19/19 10:49	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/19/19 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*01/19/19 10:49*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/19/19 10:49*	*1*

Lab Sample ID: LCS 440-523579/6
Matrix: Water
Analysis Batch: 523579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.9		ug/L		104	63 - 131
Acetone	25.0	22.1		ug/L		88	10 - 150
Benzene	25.0	23.6		ug/L		94	68 - 130
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 132
Bromobenzene	25.0	23.9		ug/L		95	70 - 130
Chlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Bromoform	25.0	31.0		ug/L		124	60 - 148
Bromomethane	25.0	18.5		ug/L		74	64 - 139
2-Butanone (MEK)	25.0	22.9		ug/L		92	44 - 150
n-Butylbenzene	25.0	28.1		ug/L		112	65 - 150
sec-Butylbenzene	25.0	26.7		ug/L		107	70 - 138
tert-Butylbenzene	25.0	26.3		ug/L		105	70 - 130
Carbon disulfide	25.0	22.0		ug/L		88	52 - 136
Carbon tetrachloride	25.0	27.6		ug/L		110	60 - 150
Chlorobenzene	25.0	23.6		ug/L		95	70 - 130
Chloroethane	25.0	19.3		ug/L		77	64 - 135
Chloroform	25.0	26.0		ug/L		104	70 - 130
Chloromethane	25.0	14.0		ug/L		56	47 - 140
2-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
4-Chlorotoluene	25.0	26.1		ug/L		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523579/6
Matrix: Water
Analysis Batch: 523579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	26.4		ug/L		106	69 - 145
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,3-Dichloropropane	25.0	21.5		ug/L		86	70 - 130
1,1-Dichloropropene	25.0	24.5		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.5		ug/L		106	52 - 140
Ethylene Dibromide	25.0	23.6		ug/L		94	70 - 130
Dibromomethane	25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	13.3		ug/L		53	29 - 150
1,1-Dichloroethane	25.0	24.4		ug/L		98	64 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	57 - 138
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	70 - 133
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130
1,2-Dichloropropane	25.0	25.7		ug/L		103	67 - 130
cis-1,3-Dichloropropene	25.0	29.7		ug/L		119	70 - 133
trans-1,3-Dichloropropene	25.0	27.4		ug/L		110	70 - 132
Ethylbenzene	25.0	25.0		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	21.8		ug/L		87	10 - 150
2-Hexanone	25.0	21.0		ug/L		84	10 - 150
Isopropylbenzene	25.0	30.4		ug/L		122	70 - 136
4-Isopropyltoluene	25.0	26.8		ug/L		107	70 - 132
Methylene Chloride	25.0	22.4		ug/L		89	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	25.1		ug/L		101	59 - 149
Naphthalene	25.0	23.3		ug/L		93	60 - 140
N-Propylbenzene	25.0	25.9		ug/L		104	67 - 139
Styrene	25.0	27.7		ug/L		111	70 - 134
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	60 - 141
1,1,2,2-Tetrachloroethane	25.0	20.2		ug/L		81	63 - 130
Tetrachloroethene	25.0	24.3		ug/L		97	70 - 130
Toluene	25.0	22.2		ug/L		89	70 - 130
1,2,3-Trichlorobenzene	25.0	22.9		ug/L		92	60 - 140
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	60 - 140
1,1,1-Trichloroethane	25.0	27.4		ug/L		110	70 - 130
1,1,2-Trichloroethane	25.0	21.9		ug/L		87	70 - 130
Trichloroethene	25.0	26.0		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	21.1		ug/L		84	60 - 150
1,2,3-Trichloropropane	25.0	22.6		ug/L		91	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.3		ug/L		93	60 - 140
1,2,4-Trimethylbenzene	25.0	27.4		ug/L		110	70 - 135
1,3,5-Trimethylbenzene	25.0	27.2		ug/L		109	70 - 136
Vinyl acetate	25.0	26.0		ug/L		104	48 - 140
Vinyl chloride	25.0	16.2		ug/L		65	59 - 133
m-Xylene & p-Xylene	25.0	27.0		ug/L		108	70 - 130
o-Xylene	25.0	27.7		ug/L		111	70 - 130
2,2-Dichloropropane	25.0	30.7		ug/L		123	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523579/6
Matrix: Water
Analysis Batch: 523579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*95*		*80 - 128*

Lab Sample ID: 720-90626-1 MS
Matrix: Water
Analysis Batch: 523579

Client Sample ID: DG-AJ5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	5.4		25.0	32.7		ug/L		109	70 - 130
Acetone	ND		25.0	30.1		ug/L		120	10 - 150
Benzene	ND		25.0	25.5		ug/L		102	66 - 130
Dichlorobromomethane	ND		25.0	27.6		ug/L		111	70 - 138
Bromobenzene	ND		25.0	25.3		ug/L		101	70 - 130
Chlorobromomethane	ND		25.0	26.8		ug/L		107	70 - 130
Bromoform	ND		25.0	32.6		ug/L		130	59 - 150
Bromomethane	ND		25.0	18.9		ug/L		75	62 - 131
2-Butanone (MEK)	ND		25.0	23.8		ug/L		95	48 - 140
n-Butylbenzene	ND		25.0	28.3		ug/L		113	61 - 149
sec-Butylbenzene	ND		25.0	26.7		ug/L		107	67 - 134
tert-Butylbenzene	ND		25.0	26.8		ug/L		107	70 - 130
Carbon disulfide	ND		25.0	21.5		ug/L		86	49 - 140
Carbon tetrachloride	ND		25.0	27.8		ug/L		111	60 - 150
Chlorobenzene	ND		25.0	24.6		ug/L		98	70 - 130
Chloroethane	ND		25.0	20.2		ug/L		81	68 - 130
Chloroform	ND		25.0	26.2		ug/L		105	70 - 130
Chloromethane	ND		25.0	13.9		ug/L		56	39 - 144
2-Chlorotoluene	ND		25.0	26.3		ug/L		105	70 - 130
4-Chlorotoluene	ND		25.0	27.5		ug/L		110	70 - 130
Chlorodibromomethane	ND		25.0	28.9		ug/L		116	70 - 148
1,2-Dichlorobenzene	ND		25.0	25.6		ug/L		103	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		25.0	23.8		ug/L		95	70 - 130
1,3-Dichloropropane	ND		25.0	25.2		ug/L		101	70 - 130
1,1-Dichloropropene	ND		25.0	25.4		ug/L		102	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	29.3		ug/L		117	48 - 140
Ethylene Dibromide	ND		25.0	26.6		ug/L		106	70 - 131
Dibromomethane	ND		25.0	26.1		ug/L		104	70 - 130
Dichlorodifluoromethane	ND		25.0	13.3		ug/L		53	25 - 142
1,1-Dichloroethane	ND		25.0	25.9		ug/L		104	65 - 130
1,2-Dichloroethane	ND		25.0	27.7		ug/L		111	56 - 146
1,1-Dichloroethene	ND		25.0	22.4		ug/L		90	70 - 130
cis-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	70 - 130
trans-1,2-Dichloroethene	ND		25.0	24.4		ug/L		98	70 - 130
1,2-Dichloropropane	ND		25.0	25.7		ug/L		103	69 - 130
cis-1,3-Dichloropropene	ND		25.0	30.1		ug/L		121	70 - 133
trans-1,3-Dichloropropene	ND		25.0	32.3		ug/L		129	70 - 138
Ethylbenzene	ND		25.0	26.1		ug/L		104	70 - 130
Hexachlorobutadiene	ND		25.0	21.6		ug/L		86	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90626-1 MS
Matrix: Water
Analysis Batch: 523579

Client Sample ID: DG-AJ5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	24.7		ug/L		99	10 - 150
Isopropylbenzene	ND		25.0	29.9		ug/L		120	70 - 132
4-Isopropyltoluene	ND		25.0	27.6		ug/L		110	70 - 130
Methylene Chloride	ND		25.0	22.3		ug/L		89	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	25.9		ug/L		104	52 - 150
Naphthalene	ND		25.0	25.0		ug/L		100	60 - 140
N-Propylbenzene	ND		25.0	27.0		ug/L		108	66 - 135
Styrene	ND		25.0	29.8		ug/L		119	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.9		ug/L		112	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	24.6		ug/L		98	63 - 130
Tetrachloroethene	ND		25.0	26.1		ug/L		104	70 - 137
Toluene	ND		25.0	24.9		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	24.2		ug/L		97	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.1		ug/L		104	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		104	70 - 130
Trichloroethene	ND		25.0	25.8		ug/L		103	70 - 130
Trichlorofluoromethane	ND		25.0	21.1		ug/L		84	60 - 150
1,2,3-Trichloropropane	ND		25.0	25.6		ug/L		102	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.6		ug/L		90	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	28.6		ug/L		114	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	28.0		ug/L		112	70 - 130
Vinyl acetate	ND		25.0	28.2		ug/L		113	23 - 150
Vinyl chloride	ND		25.0	16.3		ug/L		65	50 - 137
m-Xylene & p-Xylene	ND		25.0	28.1		ug/L		113	70 - 133
o-Xylene	ND		25.0	29.2		ug/L		117	70 - 133
2,2-Dichloropropane	ND		25.0	30.0		ug/L		120	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-90626-1 MSD
Matrix: Water
Analysis Batch: 523579

Client Sample ID: DG-AJ5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	5.4		25.0	32.8		ug/L		110	70 - 130	0	25
Acetone	ND		25.0	24.9		ug/L		100	10 - 150	19	35
Benzene	ND		25.0	25.9		ug/L		104	66 - 130	1	20
Dichlorobromomethane	ND		25.0	27.5		ug/L		110	70 - 138	0	20
Bromobenzene	ND		25.0	24.4		ug/L		97	70 - 130	4	20
Chlorobromomethane	ND		25.0	26.8		ug/L		107	70 - 130	0	25
Bromoform	ND		25.0	31.3		ug/L		125	59 - 150	4	25
Bromomethane	ND		25.0	18.4		ug/L		73	62 - 131	3	25
2-Butanone (MEK)	ND		25.0	31.3		ug/L		125	48 - 140	27	40
n-Butylbenzene	ND		25.0	30.0		ug/L		120	61 - 149	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90626-1 MSD
Matrix: Water
Analysis Batch: 523579

Client Sample ID: DG-AJ5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	27.8		ug/L		111	67 - 134	4	20
tert-Butylbenzene	ND		25.0	27.0		ug/L		108	70 - 130	1	20
Carbon disulfide	ND		25.0	20.4		ug/L		82	49 - 140	5	20
Carbon tetrachloride	ND		25.0	26.9		ug/L		108	60 - 150	3	25
Chlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130	1	20
Chloroethane	ND		25.0	20.0		ug/L		80	68 - 130	1	25
Chloroform	ND		25.0	26.6		ug/L		107	70 - 130	2	20
Chloromethane	ND		25.0	12.7		ug/L		51	39 - 144	9	25
2-Chlorotoluene	ND		25.0	25.2		ug/L		101	70 - 130	5	20
4-Chlorotoluene	ND		25.0	26.3		ug/L		105	70 - 130	5	20
Chlorodibromomethane	ND		25.0	28.2		ug/L		113	70 - 148	3	25
1,2-Dichlorobenzene	ND		25.0	26.8		ug/L		107	70 - 130	4	20
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	4	20
1,4-Dichlorobenzene	ND		25.0	24.2		ug/L		97	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	24.6		ug/L		98	70 - 130	2	25
1,1-Dichloropropene	ND		25.0	26.2		ug/L		105	64 - 130	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	32.6		ug/L		131	48 - 140	11	30
Ethylene Dibromide	ND		25.0	26.7		ug/L		107	70 - 131	0	25
Dibromomethane	ND		25.0	26.9		ug/L		108	70 - 130	3	25
Dichlorodifluoromethane	ND		25.0	12.4		ug/L		50	25 - 142	7	30
1,1-Dichloroethane	ND		25.0	24.9		ug/L		99	65 - 130	4	20
1,2-Dichloroethane	ND		25.0	27.0		ug/L		108	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	21.6		ug/L		86	70 - 130	4	20
cis-1,2-Dichloroethene	ND		25.0	26.0		ug/L		104	70 - 130	0	20
trans-1,2-Dichloroethene	ND		25.0	24.4		ug/L		98	70 - 130	0	20
1,2-Dichloropropane	ND		25.0	27.0		ug/L		108	69 - 130	5	20
cis-1,3-Dichloropropene	ND		25.0	32.5		ug/L		130	70 - 133	8	20
trans-1,3-Dichloropropene	ND		25.0	32.3		ug/L		129	70 - 138	0	25
Ethylbenzene	ND		25.0	24.2		ug/L		97	70 - 130	8	20
Hexachlorobutadiene	ND		25.0	24.1		ug/L		96	10 - 150	11	20
2-Hexanone	ND		25.0	25.0		ug/L		100	10 - 150	1	35
Isopropylbenzene	ND		25.0	27.1		ug/L		108	70 - 132	10	20
4-Isopropyltoluene	ND		25.0	28.8		ug/L		115	70 - 130	5	20
Methylene Chloride	ND		25.0	22.2		ug/L		89	52 - 130	0	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	29.6		ug/L		118	52 - 150	13	35
Naphthalene	ND		25.0	28.6		ug/L		114	60 - 140	13	30
N-Propylbenzene	ND		25.0	25.7		ug/L		103	66 - 135	5	20
Styrene	ND		25.0	27.4		ug/L		110	29 - 150	8	35
1,1,1,2-Tetrachloroethane	ND		25.0	28.6		ug/L		114	60 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	23.6		ug/L		95	63 - 130	4	30
Tetrachloroethene	ND		25.0	25.7		ug/L		103	70 - 137	1	20
Toluene	ND		25.0	24.0		ug/L		96	70 - 130	4	20
1,2,3-Trichlorobenzene	ND		25.0	27.3		ug/L		109	60 - 140	12	20
1,2,4-Trichlorobenzene	ND		25.0	28.4		ug/L		113	60 - 140	13	20
1,1,1-Trichloroethane	ND		25.0	27.4		ug/L		110	70 - 130	5	20
1,1,2-Trichloroethane	ND		25.0	26.6		ug/L		106	70 - 130	3	25
Trichloroethene	ND		25.0	25.5		ug/L		102	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	19.8		ug/L		79	60 - 150	6	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90626-1 MSD
Matrix: Water
Analysis Batch: 523579

Client Sample ID: DG-AJ5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	26.0		ug/L		104	60 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	21.9		ug/L		88	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		25.0	29.0		ug/L		116	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		25.0	27.4		ug/L		110	70 - 130	2	20
Vinyl acetate	ND		25.0	29.1		ug/L		116	23 - 150	3	30
Vinyl chloride	ND		25.0	15.6		ug/L		62	50 - 137	4	30
m-Xylene & p-Xylene	ND		25.0	26.3		ug/L		105	70 - 133	7	25
o-Xylene	ND		25.0	26.6		ug/L		106	70 - 133	9	20
2,2-Dichloropropane	ND		25.0	29.3		ug/L		117	69 - 138	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-523582/29
Matrix: Water
Analysis Batch: 523582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	41.0	J	50	35	ug/L			01/19/19 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*01/19/19 16:12*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*01/19/19 16:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/19/19 16:12*	*1*

Lab Sample ID: LCS 440-523582/6
Matrix: Water
Analysis Batch: 523582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	466		ug/L		93	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-229543-A-4 MS
Matrix: Water
Analysis Batch: 523582

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	43	J B	1730	2370		ug/L		135	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 128*

Lab Sample ID: 440-229543-A-4 MSD
Matrix: Water
Analysis Batch: 523582

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	43	J B	1730	2310		ug/L		131	50 - 145	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 128*

Lab Sample ID: MB 440-523638/7
Matrix: Water
Analysis Batch: 523638

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/20/19 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*01/20/19 11:12*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/20/19 11:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/20/19 11:12*	*1*

Lab Sample ID: LCS 440-523638/30
Matrix: Water
Analysis Batch: 523638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	510		ug/L		102	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-230044-C-7 MS
Matrix: Water
Analysis Batch: 523638

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	2330		ug/L		135	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-230044-C-7 MSD
Matrix: Water
Analysis Batch: 523638

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	2170		ug/L		126	50 - 145	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: MB 440-523694/27
Matrix: Water
Analysis Batch: 523694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/21/19 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*01/21/19 13:15*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*01/21/19 13:15*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/21/19 13:15*	*1*

Lab Sample ID: LCS 440-523694/28
Matrix: Water
Analysis Batch: 523694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	463		ug/L		93	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-230058-B-1 MS
Matrix: Water
Analysis Batch: 523694

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	180		1730	2390		ug/L		128	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 128*

Lab Sample ID: 440-230058-B-1 MSD
Matrix: Water
Analysis Batch: 523694

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	180		1730	2350		ug/L		126	50 - 145	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: MB 440-523750/4
Matrix: Water
Analysis Batch: 523750

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/21/19 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*01/21/19 11:45*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*01/21/19 11:45*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/21/19 11:45*	*1*

Lab Sample ID: LCS 440-523750/7
Matrix: Water
Analysis Batch: 523750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			500	458		ug/L		92	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-229960-F-9 MS
Matrix: Water
Analysis Batch: 523750

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	16000		86300	79400		ug/L		73	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-229960-F-9 MSD
Matrix: Water
Analysis Batch: 523750

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	16000		86300	85600		ug/L		80	50 - 145	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-521463/1-A
Matrix: Water
Analysis Batch: 521990

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 521463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Acenaphthene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Fluorene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Phenanthrene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Anthracene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Chrysene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Fluoranthene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Pyrene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/09/19 12:56	01/11/19 15:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*	*01/09/19 12:56*	*01/11/19 15:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-521463/1-A
Matrix: Water
Analysis Batch: 521990

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 521463

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78		10 - 120	01/09/19 12:56	01/11/19 15:15	1
Terphenyl-d14	92		21 - 120	01/09/19 12:56	01/11/19 15:15	1

Lab Sample ID: LCS 440-521463/4-A
Matrix: Water
Analysis Batch: 521990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 521463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.02	0.712		ug/L		70	50 - 120
Acenaphthene	1.02	0.765		ug/L		75	55 - 120
Acenaphthylene	1.02	0.772		ug/L		76	53 - 120
Fluorene	1.02	0.904		ug/L		89	56 - 120
Phenanthrene	1.02	0.863		ug/L		85	56 - 120
Anthracene	1.02	0.804		ug/L		79	54 - 120
Benzo[a]anthracene	1.02	0.872		ug/L		85	53 - 120
Chrysene	1.02	0.848		ug/L		83	56 - 120
Benzo[a]pyrene	1.02	0.816		ug/L		80	44 - 120
Benzo[b]fluoranthene	1.02	0.857		ug/L		84	48 - 120
Benzo[k]fluoranthene	1.02	0.829		ug/L		81	47 - 121
Benzo[g,h,i]perylene	1.02	0.935		ug/L		92	41 - 123
Indeno[1,2,3-cd]pyrene	1.02	0.921		ug/L		90	38 - 120
Fluoranthene	1.02	0.992		ug/L		97	59 - 120
Pyrene	1.02	1.01		ug/L		99	59 - 120
Dibenz(a,h)anthracene	1.02	0.965		ug/L		95	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	75		38 - 120
Nitrobenzene-d5	68		10 - 120
Terphenyl-d14	106		21 - 120

Lab Sample ID: LCSD 440-521463/5-A
Matrix: Water
Analysis Batch: 521990

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 521463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.02	0.746		ug/L		73	50 - 120	5	35
Acenaphthene	1.02	0.814		ug/L		80	55 - 120	6	35
Acenaphthylene	1.02	0.819		ug/L		80	53 - 120	6	35
Fluorene	1.02	0.959		ug/L		94	56 - 120	6	35
Phenanthrene	1.02	0.887		ug/L		87	56 - 120	3	35
Anthracene	1.02	0.836		ug/L		82	54 - 120	4	35
Benzo[a]anthracene	1.02	0.852		ug/L		84	53 - 120	2	35
Chrysene	1.02	0.820		ug/L		80	56 - 120	3	35
Benzo[a]pyrene	1.02	0.822		ug/L		81	44 - 120	1	35
Benzo[b]fluoranthene	1.02	0.874		ug/L		86	48 - 120	2	35
Benzo[k]fluoranthene	1.02	0.903		ug/L		89	47 - 121	9	35
Benzo[g,h,i]perylene	1.02	0.927		ug/L		91	41 - 123	1	35
Indeno[1,2,3-cd]pyrene	1.02	0.927		ug/L		91	38 - 120	1	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-521463/5-A
Matrix: Water
Analysis Batch: 521990

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 521463

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene			1.02	0.994		ug/L		97	59 - 120	0	35
Pyrene			1.02	1.01		ug/L		99	59 - 120	0	35
Dibenz(a,h)anthracene			1.02	0.976		ug/L		96	38 - 122	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*38 - 120*
Nitrobenzene-d5	*76*		*10 - 120*
Terphenyl-d14	*103*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-521594/1-A
Matrix: Water
Analysis Batch: 521627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 521594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/10/19 05:33	01/10/19 12:41	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/10/19 05:33	01/10/19 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*74*		*45 - 120*	*01/10/19 05:33*	*01/10/19 12:41*	*1*

Lab Sample ID: LCS 440-521594/2-A
Matrix: Water
Analysis Batch: 521627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 521594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			1000	725		ug/L		72	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*75*		*45 - 120*

Lab Sample ID: LCSD 440-521594/3-A
Matrix: Water
Analysis Batch: 521627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 521594

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	708		ug/L		71	40 - 115	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*75*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258147/1-A
Matrix: Water
Analysis Batch: 258338

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/08/19 14:54	01/10/19 15:34	1
Arsenic	ND		10	2.9	ug/L		01/08/19 14:54	01/10/19 15:34	1
Barium	ND		50	1.6	ug/L		01/08/19 14:54	01/10/19 15:34	1
Beryllium	ND		2.0	0.59	ug/L		01/08/19 14:54	01/10/19 15:34	1
Cadmium	ND		2.0	0.21	ug/L		01/08/19 14:54	01/10/19 15:34	1
Chromium	ND		10	0.70	ug/L		01/08/19 14:54	01/10/19 15:34	1
Cobalt	ND		2.0	0.68	ug/L		01/08/19 14:54	01/10/19 15:34	1
Copper	ND		20	3.7	ug/L		01/08/19 14:54	01/10/19 15:34	1
Lead	ND		5.0	2.2	ug/L		01/08/19 14:54	01/10/19 15:34	1
Molybdenum	ND		10	2.9	ug/L		01/08/19 14:54	01/10/19 15:34	1
Nickel	ND		10	1.0	ug/L		01/08/19 14:54	01/10/19 15:34	1
Selenium	ND		20	4.6	ug/L		01/08/19 14:54	01/10/19 15:34	1
Silver	ND		5.0	2.0	ug/L		01/08/19 14:54	01/10/19 15:34	1
Thallium	ND		10	3.5	ug/L		01/08/19 14:54	01/10/19 15:34	1
Vanadium	ND		10	0.87	ug/L		01/08/19 14:54	01/10/19 15:34	1
Zinc	ND		20	7.4	ug/L		01/08/19 14:54	01/10/19 15:34	1

Lab Sample ID: LCS 720-258147/2-A
Matrix: Water
Analysis Batch: 258246

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	958		ug/L		96	80 - 120
Arsenic	1000	960		ug/L		96	80 - 120
Barium	1000	912		ug/L		91	80 - 120
Beryllium	1000	877		ug/L		88	80 - 120
Cadmium	1000	885		ug/L		89	80 - 120
Chromium	1000	950		ug/L		95	80 - 120
Cobalt	1000	911		ug/L		91	80 - 120
Copper	1000	935		ug/L		93	80 - 120
Lead	1000	932		ug/L		93	80 - 120
Molybdenum	1000	957		ug/L		96	80 - 120
Nickel	1000	931		ug/L		93	80 - 120
Selenium	1000	909		ug/L		91	80 - 120
Silver	500	447		ug/L		89	80 - 120
Thallium	1000	920		ug/L		92	80 - 120
Vanadium	1000	933		ug/L		93	80 - 120
Zinc	1000	971		ug/L		97	80 - 120

Lab Sample ID: 720-90626-1 MS
Matrix: Water
Analysis Batch: 258246

Client Sample ID: DG-AJ5W
Prep Type: Dissolved
Prep Batch: 258147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	21	F1	1000	698	F1	ug/L		68	75 - 125
Arsenic	180		1000	1070		ug/L		90	75 - 125
Barium	940		1000	1930		ug/L		99	75 - 125
Beryllium	4.7		1000	871		ug/L		87	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90626-1 MS
Matrix: Water
Analysis Batch: 258246

Client Sample ID: DG-AJ5W
Prep Type: Dissolved
Prep Batch: 258147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	4.1		1000	866		ug/L		86	75 - 125
Chromium	380		1000	1200		ug/L		82	75 - 125
Cobalt	77		1000	913		ug/L		84	75 - 125
Copper	450		1000	1230		ug/L		78	75 - 125
Lead	320		1000	1130		ug/L		81	75 - 125
Molybdenum	14		1000	887		ug/L		87	75 - 125
Nickel	420		1000	1210		ug/L		79	75 - 125
Selenium	ND		1000	900		ug/L		90	75 - 125
Silver	2.0	J	500	428		ug/L		85	75 - 125
Thallium	ND		1000	803		ug/L		80	75 - 125
Vanadium	280		1000	1140		ug/L		86	75 - 125
Zinc	540		1000	1350		ug/L		81	75 - 125

Lab Sample ID: 720-90626-1 MSD
Matrix: Water
Analysis Batch: 258246

Client Sample ID: DG-AJ5W
Prep Type: Dissolved
Prep Batch: 258147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	21	F1	1000	654	F1	ug/L		63	75 - 125	7	20
Arsenic	180		1000	1060		ug/L		89	75 - 125	1	20
Barium	940		1000	1930		ug/L		99	75 - 125	0	20
Beryllium	4.7		1000	844		ug/L		84	75 - 125	3	20
Cadmium	4.1		1000	849		ug/L		84	75 - 125	2	20
Chromium	380		1000	1220		ug/L		84	75 - 125	2	20
Cobalt	77		1000	894		ug/L		82	75 - 125	2	20
Copper	450		1000	1250		ug/L		80	75 - 125	2	20
Lead	320		1000	1120		ug/L		81	75 - 125	1	20
Molybdenum	14		1000	866		ug/L		85	75 - 125	2	20
Nickel	420		1000	1230		ug/L		81	75 - 125	2	20
Selenium	ND		1000	871		ug/L		87	75 - 125	3	20
Silver	2.0	J	500	423		ug/L		84	75 - 125	1	20
Thallium	ND		1000	782		ug/L		78	75 - 125	3	20
Vanadium	280		1000	1150		ug/L		87	75 - 125	1	20
Zinc	540		1000	1360		ug/L		83	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-258221/1-A
Matrix: Water
Analysis Batch: 258279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/09/19 12:12	01/09/19 16:02	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-258221/2-A
Matrix: Water
Analysis Batch: 258279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258221

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			10.0	10.4		ug/L		104	85 - 115		

Lab Sample ID: 720-90610-G-1-A MS
Matrix: Water
Analysis Batch: 258279

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		10.0	10.3		ug/L		103	75 - 125		

Lab Sample ID: 720-90610-G-1-B MSD
Matrix: Water
Analysis Batch: 258279

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.72		ug/L		97	75 - 125	6	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-258094/9
Matrix: Water
Analysis Batch: 258094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/07/19 20:01	1

Lab Sample ID: LCS 720-258094/10
Matrix: Water
Analysis Batch: 258094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	253		ug/L		101	90 - 110		

Lab Sample ID: LCSD 720-258094/11
Matrix: Water
Analysis Batch: 258094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	252		ug/L		101	90 - 110	0	20

Lab Sample ID: 720-90626-1 MS
Matrix: Water
Analysis Batch: 258094

Client Sample ID: DG-AJ5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	254		ug/L		102	85 - 115		

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 720-90626-1 MSD
Matrix: Water
Analysis Batch: 258094

Client Sample ID: DG-AJ5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	254		ug/L		101	85 - 115	0	20

GC/MS VOA

Analysis Batch: 523579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Total/NA	Water	8260B	
720-90626-2	DG-AH5W	Total/NA	Water	8260B	
720-90626-3	DG-AF5W	Total/NA	Water	8260B	
720-90626-4	DG-AD5W	Total/NA	Water	8260B	
720-90626-5	DG-Z5W	Total/NA	Water	8260B	
720-90626-6	DG-X5W	Total/NA	Water	8260B	
720-90626-7	DG-V5W	Total/NA	Water	8260B	
720-90626-8	DG-T5W	Total/NA	Water	8260B	
720-90626-9	TB-01.07.2019	Total/NA	Water	8260B	
720-90626-10	FB-01.07.2019	Total/NA	Water	8260B	
MB 440-523579/5	Method Blank	Total/NA	Water	8260B	
LCS 440-523579/6	Lab Control Sample	Total/NA	Water	8260B	
720-90626-1 MS	DG-AJ5W	Total/NA	Water	8260B	
720-90626-1 MSD	DG-AJ5W	Total/NA	Water	8260B	

Analysis Batch: 523582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-2	DG-AH5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90626-4	DG-AD5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90626-6	DG-X5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90626-7	DG-V5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90626-9	TB-01.07.2019	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-523582/29	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-523582/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-229543-A-4 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-229543-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 523638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-10	FB-01.07.2019	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-523638/7	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-523638/30	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-230044-C-7 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-230044-C-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 523694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90626-5	DG-Z5W	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 523694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-8	DG-T5W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-523694/27	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-523694/28	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-230058-B-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-230058-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 523750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-3	DG-AF5W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-523750/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-523750/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-229960-F-9 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-229960-F-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 521463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Total/NA	Water	3520C	
720-90626-2	DG-AH5W	Total/NA	Water	3520C	
720-90626-3	DG-AF5W	Total/NA	Water	3520C	
720-90626-4	DG-AD5W	Total/NA	Water	3520C	
720-90626-5	DG-Z5W	Total/NA	Water	3520C	
720-90626-6	DG-X5W	Total/NA	Water	3520C	
720-90626-7	DG-V5W	Total/NA	Water	3520C	
720-90626-8	DG-T5W	Total/NA	Water	3520C	
MB 440-521463/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-521463/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-521463/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 521990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-521463/1-A	Method Blank	Total/NA	Water	8270C SIM	521463
LCS 440-521463/4-A	Lab Control Sample	Total/NA	Water	8270C SIM	521463
LCSD 440-521463/5-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	521463

Analysis Batch: 522261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-4	DG-AD5W	Total/NA	Water	8270C SIM	521463

Analysis Batch: 523040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Total/NA	Water	8270C SIM	521463

GC/MS Semi VOA (Continued)

Analysis Batch: 523040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-2	DG-AH5W	Total/NA	Water	8270C SIM	521463
720-90626-3	DG-AF5W	Total/NA	Water	8270C SIM	521463
720-90626-5	DG-Z5W	Total/NA	Water	8270C SIM	521463
720-90626-6	DG-X5W	Total/NA	Water	8270C SIM	521463
720-90626-7	DG-V5W	Total/NA	Water	8270C SIM	521463
720-90626-8	DG-T5W	Total/NA	Water	8270C SIM	521463

GC Semi VOA

Prep Batch: 521594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Total/NA	Water	3510C	
720-90626-2	DG-AH5W	Total/NA	Water	3510C	
720-90626-3	DG-AF5W	Total/NA	Water	3510C	
720-90626-4	DG-AD5W	Total/NA	Water	3510C	
720-90626-5	DG-Z5W	Total/NA	Water	3510C	
720-90626-6	DG-X5W	Total/NA	Water	3510C	
720-90626-7	DG-V5W	Total/NA	Water	3510C	
720-90626-8	DG-T5W	Total/NA	Water	3510C	
MB 440-521594/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-521594/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-521594/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 521627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Total/NA	Water	8015B	521594
720-90626-2	DG-AH5W	Total/NA	Water	8015B	521594
720-90626-3	DG-AF5W	Total/NA	Water	8015B	521594
720-90626-4	DG-AD5W	Total/NA	Water	8015B	521594
720-90626-5	DG-Z5W	Total/NA	Water	8015B	521594
720-90626-6	DG-X5W	Total/NA	Water	8015B	521594
720-90626-7	DG-V5W	Total/NA	Water	8015B	521594
720-90626-8	DG-T5W	Total/NA	Water	8015B	521594
MB 440-521594/1-A	Method Blank	Total/NA	Water	8015B	521594
LCS 440-521594/2-A	Lab Control Sample	Total/NA	Water	8015B	521594
LCSD 440-521594/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	521594

Metals

Prep Batch: 258147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Dissolved	Water	3005A	
720-90626-2	DG-AH5W	Dissolved	Water	3005A	
720-90626-3	DG-AF5W	Dissolved	Water	3005A	
720-90626-4	DG-AD5W	Dissolved	Water	3005A	
720-90626-5	DG-Z5W	Dissolved	Water	3005A	
720-90626-6	DG-X5W	Dissolved	Water	3005A	
720-90626-7	DG-V5W	Dissolved	Water	3005A	
720-90626-8	DG-T5W	Dissolved	Water	3005A	
MB 720-258147/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 258147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-258147/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90626-1 MS	DG-AJ5W	Dissolved	Water	3005A	
720-90626-1 MSD	DG-AJ5W	Dissolved	Water	3005A	

Prep Batch: 258221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Dissolved	Water	7470A	
720-90626-2	DG-AH5W	Dissolved	Water	7470A	
720-90626-3	DG-AF5W	Dissolved	Water	7470A	
720-90626-4	DG-AD5W	Dissolved	Water	7470A	
720-90626-5	DG-Z5W	Dissolved	Water	7470A	
720-90626-6	DG-X5W	Dissolved	Water	7470A	
720-90626-7	DG-V5W	Dissolved	Water	7470A	
720-90626-8	DG-T5W	Dissolved	Water	7470A	
MB 720-258221/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-258221/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90610-G-1-A MS	Matrix Spike	Total/NA	Water	7470A	
720-90610-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 258246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Dissolved	Water	6010B	258147
720-90626-2	DG-AH5W	Dissolved	Water	6010B	258147
720-90626-3	DG-AF5W	Dissolved	Water	6010B	258147
720-90626-4	DG-AD5W	Dissolved	Water	6010B	258147
720-90626-5	DG-Z5W	Dissolved	Water	6010B	258147
720-90626-6	DG-X5W	Dissolved	Water	6010B	258147
720-90626-7	DG-V5W	Dissolved	Water	6010B	258147
720-90626-8	DG-T5W	Dissolved	Water	6010B	258147
LCS 720-258147/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258147
720-90626-1 MS	DG-AJ5W	Dissolved	Water	6010B	258147
720-90626-1 MSD	DG-AJ5W	Dissolved	Water	6010B	258147

Analysis Batch: 258279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Dissolved	Water	7470A	258221
720-90626-2	DG-AH5W	Dissolved	Water	7470A	258221
720-90626-3	DG-AF5W	Dissolved	Water	7470A	258221
720-90626-4	DG-AD5W	Dissolved	Water	7470A	258221
720-90626-5	DG-Z5W	Dissolved	Water	7470A	258221
720-90626-6	DG-X5W	Dissolved	Water	7470A	258221
720-90626-7	DG-V5W	Dissolved	Water	7470A	258221
720-90626-8	DG-T5W	Dissolved	Water	7470A	258221
MB 720-258221/1-A	Method Blank	Total/NA	Water	7470A	258221
LCS 720-258221/2-A	Lab Control Sample	Total/NA	Water	7470A	258221
720-90610-G-1-A MS	Matrix Spike	Total/NA	Water	7470A	258221
720-90610-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	258221

Analysis Batch: 258338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258147/1-A	Method Blank	Total Recoverable	Water	6010B	258147

General Chemistry

Analysis Batch: 258094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90626-1	DG-AJ5W	Total/NA	Water	7196A	
720-90626-2	DG-AH5W	Total/NA	Water	7196A	
720-90626-3	DG-AF5W	Total/NA	Water	7196A	
720-90626-4	DG-AD5W	Total/NA	Water	7196A	
720-90626-5	DG-Z5W	Total/NA	Water	7196A	
720-90626-6	DG-X5W	Total/NA	Water	7196A	
720-90626-7	DG-V5W	Total/NA	Water	7196A	
720-90626-8	DG-T5W	Total/NA	Water	7196A	
MB 720-258094/9	Method Blank	Total/NA	Water	7196A	
LCS 720-258094/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-258094/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90626-1 MS	DG-AJ5W	Total/NA	Water	7196A	
720-90626-1 MSD	DG-AJ5W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-AJ5W

Lab Sample ID: 720-90626-1

Date Collected: 01/07/19 10:20

Matrix: Water

Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 13:12	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523694	01/21/19 10:43	DCI	TAL IRV
Total/NA	Prep	3520C			521463	01/09/19 17:10	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		2	523040	01/17/19 11:41	L1B	TAL IRV
Total/NA	Prep	3510C			521594	01/10/19 05:33	L1H	TAL IRV
Total/NA	Analysis	8015B		1	521627	01/10/19 13:43	MPD	TAL IRV
Dissolved	Prep	3005A			258147	01/08/19 14:54	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258246	01/09/19 15:03	BKR	TAL PLS
Dissolved	Prep	7470A			258221	01/09/19 12:12	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258279	01/09/19 16:15	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258094	01/07/19 20:01	ECB	TAL PLS

Client Sample ID: DG-AH5W

Lab Sample ID: 720-90626-2

Date Collected: 01/07/19 10:45

Matrix: Water

Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 16:26	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523582	01/19/19 17:54	OH1	TAL IRV
Total/NA	Prep	3520C			521463	01/09/19 17:10	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 09:39	L1B	TAL IRV
Total/NA	Prep	3510C			521594	01/10/19 05:33	L1H	TAL IRV
Total/NA	Analysis	8015B		1	521627	01/10/19 14:03	MPD	TAL IRV
Dissolved	Prep	3005A			258147	01/08/19 14:54	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258246	01/09/19 15:08	BKR	TAL PLS
Dissolved	Prep	7470A			258221	01/09/19 12:12	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258279	01/09/19 16:18	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258094	01/07/19 20:01	ECB	TAL PLS

Client Sample ID: DG-AF5W

Lab Sample ID: 720-90626-3

Date Collected: 01/07/19 14:30

Matrix: Water

Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 16:54	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523750	01/21/19 17:10	DCI	TAL IRV
Total/NA	Prep	3520C			521463	01/09/19 17:10	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 10:04	L1B	TAL IRV
Total/NA	Prep	3510C			521594	01/10/19 05:33	L1H	TAL IRV
Total/NA	Analysis	8015B		1	521627	01/10/19 14:24	MPD	TAL IRV
Dissolved	Prep	3005A			258147	01/08/19 14:54	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258246	01/09/19 15:13	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-AF5W

Lab Sample ID: 720-90626-3

Date Collected: 01/07/19 14:30
Matrix: Water
Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			258221	01/09/19 12:12	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258279	01/09/19 16:20	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258094	01/07/19 20:01	ECB	TAL PLS

Client Sample ID: DG-AD5W

Lab Sample ID: 720-90626-4

Date Collected: 01/07/19 14:45
Matrix: Water
Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 17:22	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523582	01/19/19 18:44	OH1	TAL IRV
Total/NA	Prep	3520C			521463	01/09/19 17:10	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	522261	01/14/19 15:55	HN	TAL IRV
Total/NA	Prep	3510C			521594	01/10/19 05:33	L1H	TAL IRV
Total/NA	Analysis	8015B		1	521627	01/10/19 14:45	MPD	TAL IRV
Dissolved	Prep	3005A			258147	01/08/19 14:54	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258246	01/09/19 15:18	BKR	TAL PLS
Dissolved	Prep	7470A			258221	01/09/19 12:12	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258279	01/09/19 16:22	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258094	01/07/19 20:01	ECB	TAL PLS

Client Sample ID: DG-Z5W

Lab Sample ID: 720-90626-5

Date Collected: 01/07/19 15:00
Matrix: Water
Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 17:50	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523694	01/21/19 12:50	DCI	TAL IRV
Total/NA	Prep	3520C			521463	01/09/19 17:10	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 10:28	L1B	TAL IRV
Total/NA	Prep	3510C			521594	01/10/19 05:33	L1H	TAL IRV
Total/NA	Analysis	8015B		1	521627	01/10/19 15:06	MPD	TAL IRV
Dissolved	Prep	3005A			258147	01/08/19 14:54	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258246	01/09/19 15:32	BKR	TAL PLS
Dissolved	Prep	7470A			258221	01/09/19 12:12	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258279	01/09/19 16:29	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258094	01/07/19 20:01	ECB	TAL PLS

Client Sample ID: DG-X5W

Lab Sample ID: 720-90626-6

Date Collected: 01/07/19 15:15

Matrix: Water

Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 18:18	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523582	01/19/19 19:35	OH1	TAL IRV
Total/NA	Prep	3520C			521463	01/09/19 17:10	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 10:52	L1B	TAL IRV
Total/NA	Prep	3510C			521594	01/10/19 05:33	L1H	TAL IRV
Total/NA	Analysis	8015B		1	521627	01/10/19 15:26	MPD	TAL IRV
Dissolved	Prep	3005A			258147	01/08/19 14:54	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258246	01/09/19 15:37	BKR	TAL PLS
Dissolved	Prep	7470A			258221	01/09/19 12:12	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258279	01/09/19 16:31	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258094	01/07/19 20:11	ECB	TAL PLS

Client Sample ID: DG-V5W

Lab Sample ID: 720-90626-7

Date Collected: 01/07/19 15:30

Matrix: Water

Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 18:45	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523582	01/19/19 20:01	OH1	TAL IRV
Total/NA	Prep	3520C			521463	01/09/19 17:10	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 11:16	L1B	TAL IRV
Total/NA	Prep	3510C			521594	01/10/19 05:33	L1H	TAL IRV
Total/NA	Analysis	8015B		1	521627	01/10/19 15:47	MPD	TAL IRV
Dissolved	Prep	3005A			258147	01/08/19 14:54	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258246	01/09/19 15:42	BKR	TAL PLS
Dissolved	Prep	7470A			258221	01/09/19 12:12	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258279	01/09/19 16:34	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258094	01/07/19 20:11	ECB	TAL PLS

Client Sample ID: DG-T5W

Lab Sample ID: 720-90626-8

Date Collected: 01/07/19 15:45

Matrix: Water

Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 19:13	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523694	01/21/19 10:16	DCI	TAL IRV
Total/NA	Prep	3520C			521463	01/09/19 17:10	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		10	523040	01/17/19 12:05	L1B	TAL IRV
Total/NA	Prep	3510C			521594	01/10/19 05:33	L1H	TAL IRV
Total/NA	Analysis	8015B		1	521627	01/10/19 16:08	MPD	TAL IRV
Dissolved	Prep	3005A			258147	01/08/19 14:54	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258246	01/09/19 15:47	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Client Sample ID: DG-T5W

Lab Sample ID: 720-90626-8

Date Collected: 01/07/19 15:45
Matrix: Water
Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			258221	01/09/19 12:12	SUN	TAL PLS
Dissolved	Analysis	7470A		1	258279	01/09/19 16:36	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258094	01/07/19 20:11	ECB	TAL PLS

Client Sample ID: TB-01.07.2019

Lab Sample ID: 720-90626-9

Date Collected: 01/07/19 00:00
Matrix: Water
Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 19:41	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523582	01/19/19 20:52	OH1	TAL IRV

Client Sample ID: FB-01.07.2019

Lab Sample ID: 720-90626-10

Date Collected: 01/07/19 00:00
Matrix: Water
Date Received: 01/07/19 17:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523579	01/19/19 20:08	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523638	01/20/19 14:34	JB	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90626-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90626-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90626-1	DG-AJ5W	Water	01/07/19 10:20	01/07/19 17:37
720-90626-2	DG-AH5W	Water	01/07/19 10:45	01/07/19 17:37
720-90626-3	DG-AF5W	Water	01/07/19 14:30	01/07/19 17:37
720-90626-4	DG-AD5W	Water	01/07/19 14:45	01/07/19 17:37
720-90626-5	DG-Z5W	Water	01/07/19 15:00	01/07/19 17:37
720-90626-6	DG-X5W	Water	01/07/19 15:15	01/07/19 17:37
720-90626-7	DG-V5W	Water	01/07/19 15:30	01/07/19 17:37
720-90626-8	DG-T5W	Water	01/07/19 15:45	01/07/19 17:37
720-90626-9	TB-01.07.2019	Water	01/07/19 00:00	01/07/19 17:37
720-90626-10	FB-01.07.2019	Water	01/07/19 00:00	01/07/19 17:37

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600 3002

720-90626

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-7-19	COC No 1 of 1 COCs
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	Sampler George A Hi chbo
1111 Broadway 6th Floor	Analysis Turnaround Time			For Lab Use Only: Walk-in Client
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90626 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG-AJ5W	1-7-19	1020	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG-AH5W	1-7-19	1045	↓	↓	9	Y		X	X	X	X	X	
3	DG-AF5W	↓	1430	↓	↓	9	Y		X	X	X	X	X	
4	DG-AD5W	↓	1445	↓	↓	9	Y		X	X	X	X	X	
5	DG-Z5W	↓	1500	↓	↓	9	Y		X	X	X	X	X	
6	DG-X5W	↓	1515	↓	↓	9	Y		X	X	X	X	X	
7	DG-V5W	↓	1530	↓	↓	9	Y		X	X	X	X	X	
8	DG-T5W	↓	1545	↓	↓	9	Y		X	X	X	X	X	
9	TB 01072019	1-7-19				1			X					
10	FB 01072019	1-7-19				1			X					

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C): Obs'd _____ Corr'd _____	Therm ID No _____

Relinquished by: George Hichborn	Company: GeoSyntec	Date/Time: 1-7-19 1600	Received by	Company: TAPLS	Date/Time: 1/7/19 1600
Relinquished by	Company: TAPLS	Date/Time: 1/7/19 1737	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/7/19 1737

1-012-210-3 11-3 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2-9/7 5.4 C 1/7/19

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 476615740843	COC No.: 720-40713.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90626-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/17/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C/3630C (MOD) 8270_Standard List	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AJ5W (720-90626-1)	1/7/19	10:20 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-AH5W (720-90626-2)	1/7/19	10:45 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-AF5W (720-90626-3)	1/7/19	14.30 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-AD5W (720-90626-4)	1/7/19	14:45 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-25W (720-90626-5)	1/7/19	15:00 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-X5W (720-90626-6)	1/7/19	15:15 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-V5W (720-90626-7)	1/7/19	15:30 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-T5W (720-90626-8)	1/7/19	15:45 Pacific		Water			X	X	X	X	X	7	check for 2 phases
TB 01072019 (720-90626-9)	1/7/19	Pacific		Water			X	X				1	check for 2 phases

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time: 1/8/19 1300	Company: TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/9/19 9:30	Company: TA-IRV

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9/1.9 2.1/2.1 IR89 08/0.8

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 476645/4 0893	COC No: 720-40713.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90626-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/17/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C/3520C (MOD) 8270_Standard list dm 1-8-19	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
FB 01072019 (720-90626-10)	1/7/19	Pacific		Water			X	X				1	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time: 1/8/19 1300	Company: TAPLS	Received by	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/9/19 9:30	Company: TAIRV

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.1/2.1 IR84	

Ver: 09/20/2016

1/31/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90626-1

Login Number: 90626
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90626-1

Login Number: 90626
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/09/19 11:59 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90626-1

Login Number: 90626
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/09/19 12:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90640-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/31/2019 3:59:34 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
F4	MS/MSD RPD exceeds control limits due to sample size difference.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90640-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90640-1

Comments
Client email included for login discrepancies.
Revised to remove sample -30 and 32 as they were analyzed past the 7 day hold time per client request.
720-90640 30 DG-S7S-3.5-4
720-90640 32 DG-U7S-3.5-4

Receipt
The samples were received on 1/8/2019 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4º C and 1.8º C.

Receipt Exceptions

The Chain-of-Custody indicated the matrix spike/matrix spike duplicate (MS/MSD) were to be performed on six samples. Per client's instruction, the MS/MSD were to be performed on DG-Q7S-3.5-4 (720-90640-27) only.
The matrix and the number of containers for FB 1-8-19 (720-90640-33) were not recorded on the Chain-of-Custody. Three VOA vials containing water and a stir bar were received and logged in.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#4) DG-V5S-3.5-4. The 4oz container label list time: 08:05, while the COC lists time: 08:07 .
(#6) DG-X5S-0.5-1. The 4oz container label list time: 08:27, while the COC lists time: 08:25 .
(#8) DG-Z5S-0.5-1. The 4oz container label list time: 08:42, while the COC lists time: 08:40 .
(#9) DG-Z5S-3.5-4. The 4oz container label list time: 08:40, while the COC lists time:08:42
(#15) DG-AH5S-3.5-4. The 4oz & 8oz container labels list time: 08:57, while the COC lists time:09:57
(#16) DG-AH5S-8-8.5. The 2oz container label list sample ID DG-AH5S (no depth) time: 10:00, while the COC lists DG-AH5S-8-8.5 time:10:00,
(#27) DG-Q7S-3.5-4. The handwritten 4oz container (1of2 for MS/MSD) label list time:12:45, while the COC lists time:13:45.
(#29) DG-S7S-0.5-1. The 2oz, 4oz ,8oz container labels list time: 14:20, while the COC lists time: 24:20, logged as container labels.

The client was contacted, and the lab was instructed to login according to COC.

The following sample was collected in an improper container: FB-1.18.19 (720-90640-33). The client use the DI water terracores with stir bar and filled them up with water for the FB

The following samples did not have sample time listed on the COC and were logged with samples times on containers: Dub-125 (720-90640-23), Dup-44 (720-90640-28) and FB-1-8-19 (720-90640-33)

GC/MS VOA
Method(s) 8260B/8260B/CA_LUFTMS: Internal standard (ISTD) response for TBA-d9 (49.96%) for the following sample was outside acceptance criteria of 50-200%: DG-AF5S-0.5-1 (720-90640-12). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method(s) 8260/ 8260B/CA_LUFTMS: Surrogate recoveries for Toluene-d8 and 4-Bromofluorobenzene for the following samples were outside the upper control limits: DG-P5S-0.5-1 (720-90640-19) and DUP-125 (720-90640-23). These sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B/8260B/CA_LUFTMS: Surrogate recovery for Toluene-d8 for the following samples were outside the upper control limits: DG-P5S-3.5-4 (720-90640-20), DUP-44 (720-90640-28) and DG-U7S-3.5-4 (720-90640-32). These sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B/8260B/CA_LUFTMS: Surrogate recoveries for Dibromofluoromethane and 4-Bromofluorobenzene for the following sample was outside the upper control limits: DG-O7S-3.5-4 (720-90640-25). This sample did not contain any target analytes; therefore,

Job ID: 720-90640-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

re-extraction and/or re-analysis was not performed.

Method(s) 8260B/8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following sample was outside the upper control limits: DG-S7S-0.5-1 (720-90640-29). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: The sample was collected terracore voa with stir bar filled with 40ml of water, and pH was 7. It's analyzed past the 7 day hold: FB-1.18.19 (720-90640-33).

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-521687 and analytical batch 440-521859 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-521861 recovered above the upper control limit for vinyl chloride (36%D out of 20%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-523637 recovered above the upper control limit for Vinyl chloride(58.4%D, out of 20%D), Acetone (114.8%D out of 30%D), and Ethylbenzene(27.1%D, out of 20%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-523637 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a “*” symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258213 and analytical batch 720-258376 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258535 and analytical batch 720-258666 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes:DG-Z5S-0.5-1 (720-90640-8), DG-AD5S-0.5-1 (720-90640-10), DG-AF5S-0.5-1 (720-90640-12), DG-AH5S-3.5-4 (720-90640-15), DG-AJ5S-0.5-1 (720-90640-17), DG-AJ5S-3.5-4 (720-90640-18), DG-N5S-0.5-1 (720-90640-21), DG-P5S-3.5-4 (720-90640-20),DG-O7S-0.5-1 (720-90640-24), DG-Q7S-0.5-1 (720-90640-26), DUP-44 (720-90640-28) and DG-S7S-0.5-1 (720-90640-29. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following sample required a dilution due to the nature of the sample matrix: DG-S7S-0.5-1 (720-90640-29). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The method blank for preparation batch 720-258201 and analytical batch 720-258273 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-AJ5S-3.5-4 (720-90640-18) and

Job ID: 720-90640-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

DG-P5S-3.5-4 (720-90640-20). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The method blank for preparation batch 720-258200 and analytical batch 720-258187 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The Diesel Range Organics (DRO) concentration reported for the following sample is due to the presence of discrete peaks: DG-Z5S-3.5-4 (720-90640-9).

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following samples: DG-AJ5S-0.5-1 (720-90640-17), DG-P5S-0.5-1 (720-90640-19) and DG-N5S-0.5-1 (720-90640-21). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT for the following sample: DG-O7S-0.5-1 (720-90640-24). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE and alpha-Chlordane for the following sample: DUP-44 (720-90640-28). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258208 and analytical batch 720-258325 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: The matrix spike (MS) recovery for preparation batch 720-258204 and analytical batch 720-258312 were outside control limits for gamma-BHC (Lindane) on the front column. The lower value from the back column has been reported. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits on both columns.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDE & 4,4'-DDD for the following sample: DG-AF5S-0.5-1 (720-90640-12). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: Surrogate recovery for the following sample was outside control limits: DG-S7S-0.5-1 (720-90640-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: Surrogate recovery for the following sample was outside control limits: DG-O7S-0.5-1 (720-90640-24). Re-analysis was performed with concurring results.

Method 8082: The following sample required a dilution due to the nature of the sample matrix: DG-S7S-3.5-4 (720-90640-30). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The following sample contained more than one Aroclor with insufficient separation. The results are biased high due to shared peaks: DUP-125 (720-90640-23).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The method blank for preparation batch 720-258195 and analytical batch 720-258268 contained Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258195 and analytical batch 720-258268 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the

Job ID: 720-90640-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for Barium-128%, Chromium-126%, Copper-147%, Lead-218%, Vanadium-126% and Zinc-220% associated with batch 720-258268 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258268 was outside control limits Barium-23%, Cobalt-38%, Chromium-28%, Copper-24%, Nickel-21%, Lead-22%, Antimony-25%, Vanadium-26% and Zinc17% : (720-90640-E-27-C SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258268 contained Lead (0.006 mg/L) above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-T5S-0.5-1 (720-90640-1), DG-T5S-3.5-4 (720-90640-2), DG-V5S-0.5-1 (720-90640-3), DG-V5S-3.5-4 (720-90640-4), DG-V5S-7.5-8 (720-90640-5), DG-X5S-0.5-1 (720-90640-6), DG-X5S-3.5-4 (720-90640-7), DG-Z5S-0.5-1 (720-90640-8), DG-Z5S-3.5-4 (720-90640-9), DG-AD5S-0.5-1 (720-90640-10), DG-AD5S-3.5-4 (720-90640-11), DG-AF5S-0.5-1 (720-90640-12), DG-AF5S-3.5-4 (720-90640-13), DG-AH5S-0.5-1 (720-90640-14), DG-AH5S-3.5-4 (720-90640-15), DG-AH5S-8-8.5 (720-90640-16), DG-AJ5S-0.5-1 (720-90640-17), DG-AJ5S-3.5-4 (720-90640-18), DG-P5S-0.5-1 (720-90640-19) and DG-Q7S-3.5-4 (720-90640-27). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-258198 and analytical batch 720-258537 contained Chromium (0.291 mg/Kg) and Nickel (0.263 mg/Kg) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258537 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258198 and analytical batch 720-258537 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Arsenic-130%, Barium-131% and Lead-130% associated with batch 720-258537 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258537 was outside control limits for: Cobalt-20%, Nickel-12%, Lead-11% and Zinc-12% (720-90640-E-20-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-P5S-3.5-4 (720-90640-20), DG-N5S-0.5-1 (720-90640-21), DG-N5S-3.5-4 (720-90640-22), DUP-125 (720-90640-23), DG-O7S-0.5-1 (720-90640-24), DG-O7S-3.5-4 (720-90640-25), DG-Q7S-0.5-1 (720-90640-26), DUP-44 (720-90640-28), DG-S7S-0.5-1 (720-90640-29), DG-S7S-3.5-4 (720-90640-30), DG-U7S-0.5-1 (720-90640-31) and DG-U7S-3.5-4 (720-90640-32). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258553 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 720-90640-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-T5S-0.5-1 — Lab Sample ID: 720-90640-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	17		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.1	J	5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	4.9	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	10		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	33		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	55		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	54		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	42		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	19		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	47		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	9.3		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	51		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	29		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	25		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	33		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	67		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	22	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	47	J	49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	0.68	J B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	20		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	41		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.057	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	6.7		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	89		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	150	^	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	3.8		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.77	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Silver	0.45	J	0.55	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	72		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T5S-3.5-4 — Lab Sample ID: 720-90640-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	2.6	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.3	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	2.3	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.0	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Pyrene	2.3	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.4	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Antimony	1.2	B	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	24		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	46		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.22		0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	29		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	4.6		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	15		3.4	1.6	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T5S-3.5-4 (Continued) — Lab Sample ID: 720-90640-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14	^	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.15	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	21		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	21		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	40		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.037		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V5S-0.5-1 — Lab Sample ID: 720-90640-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	79		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	4.9		4.9	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	15		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	30		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	46		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	62		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	97		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	39		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	31		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	77		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	11		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	110		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.4	J	4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	31		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	61		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	91		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	110		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	48	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	3.4	B	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	98		2.6	0.23	mg/Kg	4		6010B	Total/NA
Barium	100		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.26	0.086	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	22		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	140		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	580	^	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.91	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	35		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.5	J	2.6	0.40	mg/Kg	4		6010B	Total/NA
Silver	1.3		0.66	0.13	mg/Kg	4		6010B	Total/NA
Thallium	0.40	J	1.3	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	320		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V5S-3.5-4 — Lab Sample ID: 720-90640-4

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V5S-3.5-4 (Continued) — Lab Sample ID: 720-90640-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.2		0.69	0.34	ug/Kg	1		8260B	Total/NA
Toluene	1.1		0.69	0.34	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	2.0	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	3.5	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	1.8	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.6	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	2.2	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	3.1	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.7	J B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Antimony	4.2	B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	120		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	88		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.22	0.072	mg/Kg	4		6010B	Total/NA
Cadmium	0.058	J	0.28	0.027	mg/Kg	4		6010B	Total/NA
Chromium	56		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	28		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	86	^	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	37		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Silver	0.12	J	0.55	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	42		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	110		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.029		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V5S-7.5-8 — Lab Sample ID: 720-90640-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.98	J B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Antimony	2.1	B	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	97		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.60		0.38	0.12	mg/Kg	4		6010B	Total/NA
Chromium	42		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	41		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	5.9		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	36		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	56		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.023		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X5S-0.5-1 — Lab Sample ID: 720-90640-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	20		7.4	3.7	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	71		9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.7	J	4.9	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	27		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X5S-0.5-1 (Continued) — Lab Sample ID: 720-90640-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	70		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	46		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	61		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	94		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	68		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	34		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	73		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	11		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	94		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	37		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	68		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	140		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	110		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	78	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	190		49	9.9	mg/Kg	1		8015B	Total/NA
Aroclor 1260	90		49	17	ug/Kg	1		8082	Total/NA
Antimony	2.0	B	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	120		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	60		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.44		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	15		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	140		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	130	^	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	3.8		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	16		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	2.8		2.2	0.34	mg/Kg	4		6010B	Total/NA
Silver	0.50	J	0.56	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	97		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	140		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X5S-3.5-4 — Lab Sample ID: 720-90640-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	2.6	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	1.6	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Pyrene	1.8	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.3	J B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Antimony	1.8	B	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	36		2.6	0.23	mg/Kg	4		6010B	Total/NA
Barium	56		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.26	0.086	mg/Kg	4		6010B	Total/NA
Chromium	59		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	7.0		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	8.5		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	5.7		1.3	0.28	mg/Kg	4		6010B	Total/NA
Nickel	40		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.6	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.3	0.18	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X5S-3.5-4 (Continued) — Lab Sample ID: 720-90640-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	31		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.034		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z5S-0.5-1 — Lab Sample ID: 720-90640-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	55		40	20	ug/Kg	4		8270C SIM	Total/NA
Acenaphthylene	48		20	9.5	ug/Kg	4		8270C SIM	Total/NA
Anthracene	61		20	7.9	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]anthracene	140		20	5.9	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]pyrene	190		20	7.5	ug/Kg	4		8270C SIM	Total/NA
Benzo[b]fluoranthene	230		20	8.3	ug/Kg	4		8270C SIM	Total/NA
Benzo[g,h,i]perylene	79		20	17	ug/Kg	4		8270C SIM	Total/NA
Benzo[k]fluoranthene	93		20	8.3	ug/Kg	4		8270C SIM	Total/NA
Chrysene	180		20	5.5	ug/Kg	4		8270C SIM	Total/NA
Dibenz(a,h)anthracene	24		20	14	ug/Kg	4		8270C SIM	Total/NA
Fluoranthene	180		20	5.5	ug/Kg	4		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	67		20	17	ug/Kg	4		8270C SIM	Total/NA
Naphthalene	85		20	14	ug/Kg	4		8270C SIM	Total/NA
Phenanthrene	93		20	7.1	ug/Kg	4		8270C SIM	Total/NA
Pyrene	330		20	6.7	ug/Kg	4		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	70	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	190		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	1.6	B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	31		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	62		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.36		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	14		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	140		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	160	^	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.33	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	9.7		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	0.25	J	0.70	0.14	mg/Kg	4		6010B	Total/NA
Thallium	0.57	J	1.4	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	88		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	160		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z5S-3.5-4 — Lab Sample ID: 720-90640-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	3.4	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	1.8	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.2	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	2.5	J	5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	2.4	J	5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.6	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	12	J	49	9.8	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z5S-3.5-4 (Continued) — Lab Sample ID: 720-90640-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	36		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Chromium	30		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	4.3		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	5.9		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	3.2		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	23		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	19		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.021		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD5S-0.5-1 — Lab Sample ID: 720-90640-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	92		39	20	ug/Kg	4		8270C SIM	Total/NA
Acenaphthylene	53		20	9.4	ug/Kg	4		8270C SIM	Total/NA
Anthracene	77		20	7.9	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]anthracene	51		20	5.9	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]pyrene	64		20	7.5	ug/Kg	4		8270C SIM	Total/NA
Benzo[b]fluoranthene	80		20	8.3	ug/Kg	4		8270C SIM	Total/NA
Benzo[g,h,i]perylene	54		20	17	ug/Kg	4		8270C SIM	Total/NA
Benzo[k]fluoranthene	37		20	8.3	ug/Kg	4		8270C SIM	Total/NA
Chrysene	92		20	5.5	ug/Kg	4		8270C SIM	Total/NA
Fluoranthene	100		20	5.5	ug/Kg	4		8270C SIM	Total/NA
Fluorene	20		20	8.7	ug/Kg	4		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	34		20	17	ug/Kg	4		8270C SIM	Total/NA
Naphthalene	340		20	14	ug/Kg	4		8270C SIM	Total/NA
Phenanthrene	130		20	7.1	ug/Kg	4		8270C SIM	Total/NA
Pyrene	140		20	6.7	ug/Kg	4		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	310	B	3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	550		99	20	mg/Kg	2		8015B	Total/NA
Aroclor 1260	99		50	17	ug/Kg	1		8082	Total/NA
Antimony	3.2	B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	88		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	85		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.30		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	16		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	150		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	180	^	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.93	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	13		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Silver	0.29	J	0.60	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	98		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	140		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD5S-3.5-4 — Lab Sample ID: 720-90640-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	10		8.0	4.0	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	2.5	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.8	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.4	J	4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Chrysene	3.3	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.6	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	3.6	J	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	3.6	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	6.3		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	35	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	0.49	J B	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	12		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	47		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.063	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	35		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	10		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	11	^	1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.38	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	27		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.65	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	28		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.020		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF5S-0.5-1 — Lab Sample ID: 720-90640-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	64		39	20	ug/Kg	4		8270C SIM	Total/NA
Acenaphthene	22		20	11	ug/Kg	4		8270C SIM	Total/NA
Acenaphthylene	60		20	9.4	ug/Kg	4		8270C SIM	Total/NA
Anthracene	150		20	7.9	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]anthracene	130		20	5.9	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]pyrene	160		20	7.5	ug/Kg	4		8270C SIM	Total/NA
Benzo[b]fluoranthene	260		20	8.3	ug/Kg	4		8270C SIM	Total/NA
Benzo[g,h,i]perylene	130		20	17	ug/Kg	4		8270C SIM	Total/NA
Benzo[k]fluoranthene	91		20	8.3	ug/Kg	4		8270C SIM	Total/NA
Chrysene	210		20	5.5	ug/Kg	4		8270C SIM	Total/NA
Dibenz(a,h)anthracene	32		20	14	ug/Kg	4		8270C SIM	Total/NA
Fluoranthene	240		20	5.5	ug/Kg	4		8270C SIM	Total/NA
Fluorene	14	J	20	8.7	ug/Kg	4		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	96		20	17	ug/Kg	4		8270C SIM	Total/NA
Naphthalene	77		20	14	ug/Kg	4		8270C SIM	Total/NA
Phenanthrene	190		20	7.1	ug/Kg	4		8270C SIM	Total/NA
Pyrene	270		20	6.7	ug/Kg	4		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	300	B	3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	640		98	20	mg/Kg	2		8015B	Total/NA
4,4'-DDD	4.2	p	1.9	0.59	ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AF5S-0.5-1 (Continued)

Lab Sample ID: 720-90640-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	4.4	p	1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	9.2	p	1.9	0.40	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	11		1.9	0.39	ug/Kg	1		8081A	Total/NA
Chlordane (n.o.s.)	110		39	2.8	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	110		39	3.1	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	11		1.9	0.44	ug/Kg	1		8081A	Total/NA
Aroclor 1260 - DL	600		100	34	ug/Kg	2		8082	Total/NA
Antimony	13	B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	20		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	160		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	5.5		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	78		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	550		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	700	^	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	9.7		1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	83		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	4.7		2.4	0.35	mg/Kg	4		6010B	Total/NA
Silver	1.7		0.59	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	1200		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.68		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF5S-3.5-4

Lab Sample ID: 720-90640-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	2.9	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.7	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.7	J	4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Chrysene	3.1	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	3.9	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	2.8	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	5.0		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	11	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	35	J	49	9.9	mg/Kg	1		8015B	Total/NA
Antimony	1.7	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	120		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	40		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	0.070	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	28		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	4.9		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	16		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	19	^	1.3	0.26	mg/Kg	4		6010B	Total/NA
Nickel	28		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.56	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	18		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	40		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.044		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-AH5S-0.5-1 — Lab Sample ID: 720-90640-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	24		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.0	J	4.9	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	12		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	30		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	55		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	79		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	90		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	46		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	40		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	81		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	9.3		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	130		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.4	J	4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	35		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	27		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	77		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	150		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	58	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160		49	9.8	mg/Kg	1		8015B	Total/NA
Aroclor 1260	17	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	2.0	B	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	56		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	59		1.3	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.37		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	16		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	120		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	180		1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	19		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.7	0.40	mg/Kg	4		6010B	Total/NA
Silver	0.24	J	0.67	0.13	mg/Kg	4		6010B	Total/NA
Thallium	1.0	J	1.3	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	78		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	130		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.081		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH5S-3.5-4 — Lab Sample ID: 720-90640-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	130		49	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	140		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	170		25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	430		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	880		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	820		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	370		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	360		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	670		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	54		25	17	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH5S-3.5-4 (Continued)

Lab Sample ID: 720-90640-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1900		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluorene	55		25	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	350		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	660		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	1500		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	2300		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	130	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	340		49	9.9	mg/Kg	1		8015B	Total/NA
Antimony	6.4	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	310		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	71		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	0.76		0.32	0.031	mg/Kg	4		6010B	Total/NA
Chromium	21		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	200		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	280		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.74	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	27		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	3.1		2.5	0.38	mg/Kg	4		6010B	Total/NA
Silver	0.68		0.63	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	260		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH5S-8-8.5

Lab Sample ID: 720-90640-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	2.8	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.7	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.8		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Chrysene	3.1	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	3.8	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	3.3	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	4.7	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	18	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	28	J	49	9.9	mg/Kg	1		8015B	Total/NA
Antimony	2.1	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	6.0		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	75		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Chromium	45		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	24		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	12		1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	72		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	52		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-AJ5S-0.5-1 — Lab Sample ID: 720-90640-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	17	J	20	9.8	ug/Kg	2		8270C SIM	Total/NA
Acenaphthene	6.6	J	9.8	5.5	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	18		9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	38		9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	44		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	64		9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	100		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	37		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	42		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	77		9.8	2.8	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	11		9.8	6.9	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	76		9.8	2.8	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	29		9.8	8.3	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	18		9.8	6.9	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	44		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	79		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	51	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160		49	9.8	mg/Kg	1		8015B	Total/NA
4,4'-DDE	0.44	J p	2.0	0.41	ug/Kg	1		8081A	Total/NA
Aroclor 1260	320		49	17	ug/Kg	1		8082	Total/NA
Antimony	1.0	J B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	2.6		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	45		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.086	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	0.51		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	14		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	130		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	41		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	7.7		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	120		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ5S-3.5-4 — Lab Sample ID: 720-90640-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.6		6.6	3.3	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	670		20	9.8	ug/Kg	2		8270C SIM	Total/NA
Acenaphthene	81		9.8	5.5	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	100		9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	260		9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	380		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	430		9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	610		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	130		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	250		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	610		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ5S-3.5-4 (Continued)

Lab Sample ID: 720-90640-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	36		9.8	6.9	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	960		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Fluorene	100		9.8	4.3	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	120		9.8	8.2	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	630		9.8	6.9	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	1000		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	1100		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	600	B	20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1600		490	98	mg/Kg	10		8015B	Total/NA
Antimony	11	B	3.6	0.59	mg/Kg	10		6010B	Total/NA
Arsenic	620		7.1	0.61	mg/Kg	10		6010B	Total/NA
Barium	80		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	2.1		0.89	0.089	mg/Kg	10		6010B	Total/NA
Chromium	29		3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	10		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	150		11	5.1	mg/Kg	10		6010B	Total/NA
Lead	270		3.6	0.75	mg/Kg	10		6010B	Total/NA
Molybdenum	0.89	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	37		3.6	0.36	mg/Kg	10		6010B	Total/NA
Selenium	3.3	J	7.1	1.1	mg/Kg	10		6010B	Total/NA
Vanadium	36		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	670		11	4.5	mg/Kg	10		6010B	Total/NA
Mercury	0.91		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P5S-0.5-1

Lab Sample ID: 720-90640-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	34		9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.3	J	4.9	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	14		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	27		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	31		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	46		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	80		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	25		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	25		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	54		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	6.7		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	58		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.4	J	4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	22		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	38		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	47		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	72		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	35	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110		50	9.9	mg/Kg	1		8015B	Total/NA
4,4'-DDE	0.88	J p	2.0	0.41	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	1.0	J	2.0	0.39	ug/Kg	1		8081A	Total/NA
Aroclor 1260	110		49	17	ug/Kg	1		8082	Total/NA
Antimony	2.1	B	1.4	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P5S-0.5-1 (Continued) — Lab Sample ID: 720-90640-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	42		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	68		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	24		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	180		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	190		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	20		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.9		2.8	0.43	mg/Kg	4		6010B	Total/NA
Silver	0.26	J	0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	220		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P5S-3.5-4 — Lab Sample ID: 720-90640-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	9.9	J	24	9.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	29		24	7.1	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	34		24	9.0	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	62		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	27		24	20	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	23	J	24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	41		24	6.7	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	37		24	6.7	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	25		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	30		24	8.6	ug/Kg	5		8270C SIM	Total/NA
Pyrene	54		24	8.1	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	100	B	9.9	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	940		250	49	mg/Kg	5		8015B	Total/NA
Antimony	1.4	J F1	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	150		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	100	F1 F2	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	26	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	35	F1	4.5	2.2	mg/Kg	4		6010B	Total/NA
Lead	170	^	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	34	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	0.18	J	0.76	0.15	mg/Kg	4		6010B	Total/NA
Thallium	0.67	J	1.5	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	120	F1	4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N5S-0.5-1 — Lab Sample ID: 720-90640-21

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N5S-0.5-1 (Continued)

Lab Sample ID: 720-90640-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	27		19	9.7	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	24		9.7	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	48		9.7	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	88		9.7	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	100		9.7	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	170		9.7	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	58	F1	9.7	8.3	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	67		9.7	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	120		9.7	2.7	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	14	F1	9.7	6.8	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	130		9.7	2.7	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	48	F1	9.7	8.1	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	23		9.7	6.8	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	60		9.7	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	140		9.7	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	68	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	190		50	9.9	mg/Kg	1		8015B	Total/NA
4,4'-DDE	0.83	J p	2.0	0.42	ug/Kg	1		8081A	Total/NA
Antimony	2.2		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	9.1		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	99		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.26	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.85		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	36	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	110		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	150	^	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	37	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	2.6	0.38	mg/Kg	4		6010B	Total/NA
Thallium	0.83	J	1.3	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	210		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N5S-3.5-4

Lab Sample ID: 720-90640-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.1	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.6		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.4	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	9.7		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	7.5		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.0	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	13		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	11		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.8	J	4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.0		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	13		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	12		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N5S-3.5-4 (Continued)

Lab Sample ID: 720-90640-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	38	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	74		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	16		3.5	0.59	mg/Kg	10		6010B	Total/NA
Arsenic	180		7.1	0.60	mg/Kg	10		6010B	Total/NA
Barium	700		3.5	0.50	mg/Kg	10		6010B	Total/NA
Cadmium	1.1		0.89	0.088	mg/Kg	10		6010B	Total/NA
Chromium	41	B	3.5	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	8.9		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	760		11	5.1	mg/Kg	10		6010B	Total/NA
Lead	1700	^	3.5	0.74	mg/Kg	10		6010B	Total/NA
Molybdenum	1.0	J	3.5	0.45	mg/Kg	10		6010B	Total/NA
Nickel	39	B	3.5	0.36	mg/Kg	10		6010B	Total/NA
Selenium	7.0	J	7.1	1.1	mg/Kg	10		6010B	Total/NA
Silver	2.3		1.8	0.36	mg/Kg	10		6010B	Total/NA
Thallium	1.3	J	3.5	1.0	mg/Kg	10		6010B	Total/NA
Vanadium	24		3.5	0.48	mg/Kg	10		6010B	Total/NA
Zinc	1600		11	4.5	mg/Kg	10		6010B	Total/NA
Mercury	0.72		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-125

Lab Sample ID: 720-90640-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	12		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.3	J	4.9	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	28		4.9	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	36		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	40		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	72		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	87		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	68		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	27		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	68		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	8.1		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	160		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	4.2	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	47		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	16		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	140		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	230		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	35	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	86		50	9.9	mg/Kg	1		8015B	Total/NA
Aroclor 1254	200		49	17	ug/Kg	1		8082	Total/NA
Aroclor 1260	160		49	17	ug/Kg	1		8082	Total/NA
Antimony	1.3		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	62		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	56		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	12	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	130		3.4	1.6	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-125 (Continued) — Lab Sample ID: 720-90640-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	66	^	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.55	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	9.9	B	1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.56	0.11	mg/Kg	4		6010B	Total/NA
Thallium	0.76	J	1.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	96		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	130		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O7S-0.5-1 — Lab Sample ID: 720-90640-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	49		25	9.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	62		25	21	ug/Kg	5		8270C SIM	Total/NA
Chrysene	24	J	25	6.9	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	22	J	25	8.8	ug/Kg	5		8270C SIM	Total/NA
Pyrene	38		25	8.3	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	170	B	6.0	2.2	mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	550		150	30	mg/Kg	3		8015B	Total/NA
4,4'-DDT	1.4	J p	1.9	0.39	ug/Kg	1		8081A	Total/NA
Arsenic	0.93	J	2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	34		1.5	0.21	mg/Kg	4		6010B	Total/NA
Chromium	8.1	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	97		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	1.2	J	1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	3.9	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.60	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Thallium	1.5		1.5	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	36		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.069		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O7S-3.5-4 — Lab Sample ID: 720-90640-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	4.0	J	4.8	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.4	J	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	6.5		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.9		4.8	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.4	J	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	6.4		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	7.0		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	5.6		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	11		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	63	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	170		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	0.42	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	1.5	J	2.6	0.22	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O7S-3.5-4 (Continued)

Lab Sample ID: 720-90640-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	32		1.3	0.18	mg/Kg	4		6010B	Total/NA
Chromium	19	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	94		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	5.9		1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	11	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.64	J	2.6	0.38	mg/Kg	4		6010B	Total/NA
Thallium	1.5		1.3	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	38		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.076		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q7S-0.5-1

Lab Sample ID: 720-90640-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	68		48	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	64		24	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	180		24	9.6	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	85		24	7.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	120		24	9.1	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	200		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	170		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	66		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	160		24	6.7	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	26		24	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	190		24	6.7	ug/Kg	5		8270C SIM	Total/NA
Fluorene	12	J	24	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	93		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	49		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	180		24	8.7	ug/Kg	5		8270C SIM	Total/NA
Pyrene	230		24	8.2	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	270	B	3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	530		99	20	mg/Kg	2		8015B	Total/NA
Antimony	6.7		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	15		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	150		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.26	0.086	mg/Kg	4		6010B	Total/NA
Cadmium	3.8		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	42	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	270		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	760	^	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	3.8		1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	42	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Silver	0.57	J	0.66	0.13	mg/Kg	4		6010B	Total/NA
Thallium	0.59	J	1.3	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	570		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.35		0.015	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-Q7S-3.5-4 — Lab Sample ID: 720-90640-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	27		9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	7.5		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	20		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	11		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	11		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	32		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	13	F1	4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	9.4		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	27		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.4	J F1	4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	28		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	10	F1	4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	40		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	44		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	27		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	61	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	18	B F1 F2	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	51	F1	1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	17	F1	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	4.5	F2	0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	210		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	940	^	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J F2	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	13	F1 F2	1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J F2	3.6	0.55	mg/Kg	4		6010B	Total/NA
Silver	0.42	J	0.91	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	27	F1 F2	1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	900		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.27		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-44 — Lab Sample ID: 720-90640-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	57		48	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	45		24	11	ug/Kg	5		8270C SIM	Total/NA
Anthracene	140		24	9.6	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	67		24	7.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	89		24	9.1	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	160		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	80		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	52		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	120		24	6.7	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	120		24	6.7	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	57		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	40		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	90		24	8.6	ug/Kg	5		8270C SIM	Total/NA
Pyrene	150		24	8.1	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-44 (Continued) — Lab Sample ID: 720-90640-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	280	B	3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	520		98	20	mg/Kg	2		8015B	Total/NA
4,4'-DDE	5.1	p	1.9	0.40	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	1.6	J p	1.9	0.38	ug/Kg	1		8081A	Total/NA
Aroclor 1260	520		49	17	ug/Kg	1		8082	Total/NA
Antimony	8.6		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	130		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.092	J	0.25	0.080	mg/Kg	4		6010B	Total/NA
Cadmium	2.4		0.31	0.030	mg/Kg	4		6010B	Total/NA
Chromium	49	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	210		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	390	^	1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	3.2		1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	66	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Silver	0.39	J	0.61	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	410		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.26		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S7S-0.5-1 — Lab Sample ID: 720-90640-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	33	J	48	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	49		24	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	89		24	9.6	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	85		24	7.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	120		24	9.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	180		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	90		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	67		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	140		24	6.8	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	19	J	24	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	160		24	6.8	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	61		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	32		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	100		24	8.7	ug/Kg	5		8270C SIM	Total/NA
Pyrene	200		24	8.2	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	260	B	9.8	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	710		250	49	mg/Kg	5		8015B	Total/NA
Aroclor 1260	380		49	17	ug/Kg	1		8082	Total/NA
Antimony	3.3		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	8.8		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	150		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.98		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	31	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	160		3.4	1.6	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S7S-0.5-1 (Continued) — Lab Sample ID: 720-90640-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	200	^	1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	27	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	2.8		2.3	0.34	mg/Kg	4		6010B	Total/NA
Silver	0.22	J	0.57	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.33	J	1.1	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	280		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.26		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S7S-3.5-4 — Lab Sample ID: 720-90640-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	15		9.7	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	6.6		4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	12		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	18		4.8	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	13		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	26		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	11		4.8	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	8.2		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	33		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	52		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.8	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	8.6		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	34		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	53		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	55		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	97	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	140		49	9.9	mg/Kg	1		8015B	Total/NA
Aroclor 1260 - DL	5300		490	170	ug/Kg	10		8082	Total/NA
Antimony	22		3.1	0.52	mg/Kg	10		6010B	Total/NA
Arsenic	26		6.3	0.53	mg/Kg	10		6010B	Total/NA
Barium	1200		3.1	0.45	mg/Kg	10		6010B	Total/NA
Cadmium	2.2		0.79	0.078	mg/Kg	10		6010B	Total/NA
Chromium	75	B	3.1	0.33	mg/Kg	10		6010B	Total/NA
Cobalt	9.1		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	2200		9.4	4.5	mg/Kg	10		6010B	Total/NA
Lead	3600	^	3.1	0.66	mg/Kg	10		6010B	Total/NA
Molybdenum	0.70	J	3.1	0.40	mg/Kg	10		6010B	Total/NA
Nickel	40	B	3.1	0.32	mg/Kg	10		6010B	Total/NA
Selenium	5.9	J	6.3	0.94	mg/Kg	10		6010B	Total/NA
Silver	4.6		1.6	0.32	mg/Kg	10		6010B	Total/NA
Vanadium	23		3.1	0.43	mg/Kg	10		6010B	Total/NA
Zinc	3600		9.4	4.0	mg/Kg	10		6010B	Total/NA
Mercury	0.23		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U7S-0.5-1 — Lab Sample ID: 720-90640-31

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U7S-0.5-1 (Continued)

Lab Sample ID: 720-90640-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.8	J	9.4	4.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	5.8		4.7	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	11		4.7	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	10		4.7	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	20		4.7	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	30		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	33		4.7	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	13		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	25		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	6.4		4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	19		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	22		4.7	3.9	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.8		4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	11		4.7	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	23		4.7	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15	B	2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	52		49	9.8	mg/Kg	1		8015B	Total/NA
4,4'-DDE	0.80	J p	1.9	0.40	ug/Kg	1		8081A	Total/NA
Antimony	0.75	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	5.1		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	72		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.94		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	19	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	110		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	69	^	1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	27	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	3.0	0.44	mg/Kg	4		6010B	Total/NA
Thallium	0.66	J	1.5	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	490		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.073		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U7S-3.5-4

Lab Sample ID: 720-90640-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	91		9.6	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	11		4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	11		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	23		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	20		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	38		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	20		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	15		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	44		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.4	J	4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	40		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	6.5		4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	14		4.8	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	79		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U7S-3.5-4 (Continued)

Lab Sample ID: 720-90640-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	59		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	51		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	28	B	2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	62		49	9.8	mg/Kg	1		8015B	Total/NA
Aroclor 1260	19	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	12		3.0	0.50	mg/Kg	10		6010B	Total/NA
Arsenic	18		6.1	0.52	mg/Kg	10		6010B	Total/NA
Barium	930		3.0	0.43	mg/Kg	10		6010B	Total/NA
Cadmium	2.8		0.76	0.075	mg/Kg	10		6010B	Total/NA
Chromium	33	B	3.0	0.32	mg/Kg	10		6010B	Total/NA
Cobalt	8.9		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	810		9.1	4.3	mg/Kg	10		6010B	Total/NA
Lead	2600	^	3.0	0.64	mg/Kg	10		6010B	Total/NA
Molybdenum	0.55	J	3.0	0.39	mg/Kg	10		6010B	Total/NA
Nickel	40	B	3.0	0.31	mg/Kg	10		6010B	Total/NA
Selenium	4.8	J	6.1	0.91	mg/Kg	10		6010B	Total/NA
Silver	6.7		1.5	0.31	mg/Kg	10		6010B	Total/NA
Thallium	1.0	J	3.0	0.88	mg/Kg	10		6010B	Total/NA
Vanadium	40		3.0	0.41	mg/Kg	10		6010B	Total/NA
Zinc	1800		9.1	3.8	mg/Kg	10		6010B	Total/NA
Mercury	0.42		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: FB-1.18.19

Lab Sample ID: 720-90640-33

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T5S-0.5-1

Date Collected: 01/08/19 07:45
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		87	61	ug/Kg		01/09/19 18:35	01/11/19 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/09/19 18:35*	*01/11/19 10:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/09/19 18:35*	*01/11/19 10:37*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/09/19 18:35*	*01/11/19 10:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,1,1-Trichloroethane	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.7	4.4	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,1,2-Trichloroethane	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,1-Dichloroethane	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,1-Dichloroethene	ND		1.7	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,1-Dichloropropene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,2,3-Trichloropropane	ND		8.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,2,4-Trichlorobenzene	ND		4.4	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,2,4-Trimethylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.7	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,2-Dichlorobenzene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,2-Dichloroethane	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,2-Dichloropropane	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,3,5-Trimethylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,3-Dichlorobenzene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,3-Dichloropropane	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
1,4-Dichlorobenzene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
2,2-Dichloropropane	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
2-Butanone (MEK)	ND		8.7	4.4	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
2-Chlorotoluene	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
2-Hexanone	ND		8.7	4.4	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
4-Chlorotoluene	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
4-Isopropyltoluene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Benzene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Bromobenzene	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Bromoform	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Bromomethane	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Carbon disulfide	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Carbon tetrachloride	ND		1.7	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Chlorobenzene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Chlorobromomethane	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Chlorodibromomethane	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Chloroethane	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Chloroform	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Chloromethane	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
cis-1,2-Dichloroethene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
cis-1,3-Dichloropropene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1

Client Sample ID: DG-T5S-0.5-1

Date Collected: 01/08/19 07:45
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Dichlorobromomethane	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Dichlorodifluoromethane	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Ethylbenzene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Ethylene Dibromide	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Hexachlorobutadiene	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Isopropylbenzene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Methyl tert-butyl ether	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Methylene Chloride	ND		8.7	4.4	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
n-Butylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
N-Propylbenzene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
sec-Butylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Styrene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
tert-Butylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Tetrachloroethene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Toluene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
trans-1,2-Dichloroethene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
trans-1,3-Dichloropropene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Trichloroethene	ND		0.87	0.44	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Trichlorofluoromethane	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Vinyl chloride	ND		1.7	0.87	ug/Kg		01/09/19 18:35	01/11/19 10:37	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/09/19 18:35	01/11/19 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*	*01/09/19 18:35*	*01/11/19 10:37*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/09/19 18:35*	*01/11/19 10:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/14/19 10:22	1
Naphthalene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/14/19 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*	*01/08/19 18:00*	*01/14/19 10:22*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/08/19 18:00*	*01/14/19 10:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**17**		9.9	5.0	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Acenaphthene	**3.1**	**J**	5.0	2.8	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Acenaphthylene	**4.9**	**J**	5.0	2.4	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Anthracene	**10**		5.0	2.0	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Benzo[a]anthracene	**33**		5.0	1.5	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Benzo[a]pyrene	**55**		5.0	1.9	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Benzo[b]fluoranthene	**54**		5.0	2.1	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Benzo[g,h,i]perylene	**42**		5.0	4.3	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Benzo[k]fluoranthene	**19**		5.0	2.1	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Chrysene	**47**		5.0	1.4	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Dibenz(a,h)anthracene	**9.3**		5.0	3.5	ug/Kg		01/09/19 10:18	01/11/19 17:37	1

Client Sample ID: DG-T5S-0.5-1

Date Collected: 01/08/19 07:45
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-1

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**51**		5.0	1.4	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Fluorene	ND		5.0	2.2	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Indeno[1,2,3-cd]pyrene	**29**		5.0	4.2	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Naphthalene	**25**		5.0	3.5	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Phenanthrene	**33**		5.0	1.8	ug/Kg		01/09/19 10:18	01/11/19 17:37	1
Pyrene	**67**		5.0	1.7	ug/Kg		01/09/19 10:18	01/11/19 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*01/09/19 10:18*	*01/11/19 17:37*	*1*
Terphenyl-d14	*103*		*35 - 146*	*01/09/19 10:18*	*01/11/19 17:37*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**22**	**B**	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 18:23	1
Motor Oil Range Organics [C24-C36]	**47**	**J**	49	9.8	mg/Kg		01/09/19 09:45	01/10/19 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*108*		*40 - 130*	*01/09/19 09:45*	*01/10/19 18:23*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/09/19 09:56	01/10/19 19:20	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 09:56	01/10/19 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*21 - 136*	*01/09/19 09:56*	*01/10/19 19:20*	*1*
Tetrachloro-m-xylene	*84*		*21 - 145*	*01/09/19 09:56*	*01/10/19 19:20*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-T5S-0.5-1

Date Collected: 01/08/19 07:45
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-1

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:25	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:25	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:25	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:25	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:25	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:25	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*01/10/19 13:06*	*01/11/19 16:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.68**	**J B**	1.1	0.18	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Arsenic	**20**		2.2	0.19	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Barium	**41**		1.1	0.16	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Beryllium	ND		0.22	0.071	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Cadmium	**0.057**	**J**	0.27	0.027	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Chromium	**6.7**		1.1	0.12	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Cobalt	**8.7**		0.44	0.044	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Copper	**89**		3.3	1.6	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Lead	**150**	**^**	1.1	0.23	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Nickel	**3.8**		1.1	0.11	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Selenium	**0.77**	**J**	2.2	0.33	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Silver	**0.45**	**J**	0.55	0.11	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Thallium	ND		1.1	0.32	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Vanadium	**77**		1.1	0.15	mg/Kg		01/09/19 08:37	01/09/19 16:56	4
Zinc	**72**		3.3	1.4	mg/Kg		01/09/19 08:37	01/09/19 16:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.016	0.0024	mg/Kg		01/21/19 14:13	01/21/19 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-T5S-3.5-4

Date Collected: 01/08/19 07:47
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	46	ug/Kg		01/09/19 18:35	01/11/19 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/09/19 18:35*	*01/11/19 11:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/09/19 18:35*	*01/11/19 11:00*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/09/19 18:35*	*01/11/19 11:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
2-Butanone (MEK)	ND		6.6	3.3	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
2-Hexanone	ND		6.6	3.3	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Benzene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Bromobenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Bromoform	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Bromomethane	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Chloroethane	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Chloroform	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Chloromethane	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1

Client Sample ID: DG-T5S-3.5-4

Date Collected: 01/08/19 07:47
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Dibromomethane	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Naphthalene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Styrene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Toluene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Trichloroethene	ND		0.66	0.33	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Vinyl acetate	ND		5.3	2.7	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		01/09/19 18:35	01/11/19 11:00	1
Xylenes, Total	ND		1.3	0.86	ug/Kg		01/09/19 18:35	01/11/19 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*	*01/09/19 18:35*	*01/11/19 11:00*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/09/19 18:35*	*01/11/19 11:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Anthracene	ND		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Benzo[a]pyrene	**2.6**	**J**	4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Benzo[b]fluoranthene	**4.3**	**J**	4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Chrysene	**2.3**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Dibenz(a,h)anthracene	ND		4.9	3.5	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Fluoranthene	**2.0**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Fluorene	ND		4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Naphthalene	ND		4.9	3.5	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Phenanthrene	ND		4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 14:28	1
Pyrene	**2.3**	**J**	4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 14:28	1

Client Sample ID: DG-T5S-3.5-4

Date Collected: 01/08/19 07:47
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*01/09/19 10:18*	*01/11/19 14:28*	*1*
Terphenyl-d14	*97*		*35 - 146*	*01/09/19 10:18*	*01/11/19 14:28*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.4**	**B**	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 19:01	1
Motor Oil Range Organics [C24-C36]	ND		49	9.9	mg/Kg		01/09/19 09:34	01/10/19 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*100*		*40 - 130*	*01/09/19 09:34*	*01/10/19 19:01*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Aldrin	ND		2.0	0.49	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Endrin	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/09/19 09:56	01/10/19 19:36	1
Toxaphene	ND		39	6.7	ug/Kg		01/09/19 09:56	01/10/19 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*21 - 136*	*01/09/19 09:56*	*01/10/19 19:36*	*1*
Tetrachloro-m-xylene	*79*		*21 - 145*	*01/09/19 09:56*	*01/10/19 19:36*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:38	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:38	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:38	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:38	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:38	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:38	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 16:38	1

Client Sample ID: DG-T5S-3.5-4

Date Collected: 01/08/19 07:47
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*01/10/19 13:06*	*01/11/19 16:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**	**B**	1.1	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Arsenic	**24**		2.2	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Barium	**46**		1.1	0.16	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Beryllium	**0.22**		0.22	0.073	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Cadmium	**0.12**	**J**	0.28	0.028	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Chromium	**29**		1.1	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Cobalt	**4.6**		0.45	0.045	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Copper	**15**		3.4	1.6	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Lead	**14**	**^**	1.1	0.23	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Molybdenum	**0.15**	**J**	1.1	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Nickel	**21**		1.1	0.11	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Selenium	**1.0**	**J**	2.2	0.34	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Silver	ND		0.56	0.11	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Thallium	ND		1.1	0.32	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Vanadium	**21**		1.1	0.15	mg/Kg		01/09/19 08:37	01/09/19 17:01	4
Zinc	**40**		3.4	1.4	mg/Kg		01/09/19 08:37	01/09/19 17:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.037**		0.015	0.0022	mg/Kg		01/21/19 14:13	01/21/19 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.5**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-V5S-0.5-1

Date Collected: 01/08/19 08:05
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		86	60	ug/Kg		01/08/19 18:00	01/12/19 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/08/19 18:00*	*01/12/19 11:44*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/08/19 18:00*	*01/12/19 11:44*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/08/19 18:00*	*01/12/19 11:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,1,1-Trichloroethane	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.6	4.3	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,1,2-Trichloroethane	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,1-Dichloroethane	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,1-Dichloropropene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,2,3-Trichlorobenzene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,2,3-Trichloropropane	ND		8.6	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,2,4-Trichlorobenzene	ND		4.3	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,2,4-Trimethylbenzene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,2-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,2-Dichloroethane	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,2-Dichloropropane	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,3,5-Trimethylbenzene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,3-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,3-Dichloropropane	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
1,4-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
2,2-Dichloropropane	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
2-Butanone (MEK)	ND		8.6	4.3	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
2-Chlorotoluene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
2-Hexanone	ND		8.6	4.3	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
4-Chlorotoluene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
4-Isopropyltoluene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.2	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Benzene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Bromobenzene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Bromoform	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Bromomethane	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Carbon disulfide	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Chlorobenzene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Chlorobromomethane	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Chlorodibromomethane	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Chloroethane	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Chloroform	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Chloromethane	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
cis-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1

Client Sample ID: DG-V5S-0.5-1

Date Collected: 01/08/19 08:05
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Dibromomethane	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Dichlorobromomethane	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Dichlorodifluoromethane	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Ethylbenzene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Ethylene Dibromide	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Hexachlorobutadiene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Isopropylbenzene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Methyl tert-butyl ether	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Methylene Chloride	ND		8.6	4.3	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Naphthalene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
n-Butylbenzene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
N-Propylbenzene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
sec-Butylbenzene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Styrene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
tert-Butylbenzene	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Tetrachloroethene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Toluene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
trans-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
trans-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Trichloroethene	ND		0.86	0.43	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Trichlorofluoromethane	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Vinyl acetate	ND		6.9	3.4	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Vinyl chloride	ND		1.7	0.86	ug/Kg		01/08/19 18:00	01/12/19 11:44	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/08/19 18:00	01/12/19 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*	*01/08/19 18:00*	*01/12/19 11:44*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/08/19 18:00*	*01/12/19 11:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*	*01/08/19 18:00*	*01/14/19 10:57*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/08/19 18:00*	*01/14/19 10:57*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**79**		9.8	4.9	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Acenaphthene	**4.9**		4.9	2.8	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Acenaphthylene	**15**		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Anthracene	**30**		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Benzo[a]anthracene	**46**		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Benzo[a]pyrene	**62**		4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Benzo[b]fluoranthene	**97**		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Benzo[g,h,i]perylene	**39**		4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Benzo[k]fluoranthene	**31**		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Chrysene	**77**		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Dibenz(a,h)anthracene	**11**		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Fluoranthene	**110**		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 19:11	1

Client Sample ID: DG-V5S-0.5-1

Date Collected: 01/08/19 08:05
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-3

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	3.4	J	4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Indeno[1,2,3-cd]pyrene	31		4.9	4.1	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Naphthalene	61		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Phenanthrene	91		4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 19:11	1
Pyrene	110		4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*01/09/19 10:18*	*01/11/19 19:11*	*1*
Terphenyl-d14	*113*		*35 - 146*	*01/09/19 10:18*	*01/11/19 19:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	48	B	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 21:27	1
Motor Oil Range Organics [C24-C36]	110		49	9.8	mg/Kg		01/09/19 09:34	01/10/19 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*73*		*40 - 130*	*01/09/19 09:34*	*01/10/19 21:27*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Aldrin	ND		1.9	0.49	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Endosulfan II	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Endrin	ND		1.9	0.45	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/09/19 09:56	01/10/19 19:53	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 09:56	01/10/19 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*21 - 136*	*01/09/19 09:56*	*01/10/19 19:53*	*1*
Tetrachloro-m-xylene	*86*		*21 - 145*	*01/09/19 09:56*	*01/10/19 19:53*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-V5S-0.5-1

Date Collected: 01/08/19 08:05
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-3

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 16:52	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 16:52	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 16:52	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 16:52	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 16:52	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 16:52	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*	*01/10/19 13:06*	*01/11/19 16:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.4**	**B**	1.3	0.22	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Arsenic	**98**		2.6	0.23	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Barium	**100**		1.3	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Beryllium	**0.15**	**J**	0.26	0.086	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Cadmium	**1.2**		0.33	0.033	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Chromium	**22**		1.3	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Cobalt	**13**		0.53	0.053	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Copper	**140**		4.0	1.9	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Lead	**580**	**^**	1.3	0.28	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Molybdenum	**0.91**	**J**	1.3	0.17	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Nickel	**35**		1.3	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Selenium	**2.5**	**J**	2.6	0.40	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Silver	**1.3**		0.66	0.13	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Thallium	**0.40**	**J**	1.3	0.38	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Vanadium	**62**		1.3	0.18	mg/Kg		01/09/19 08:37	01/09/19 17:06	4
Zinc	**320**		4.0	1.7	mg/Kg		01/09/19 08:37	01/09/19 17:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.014	0.0021	mg/Kg		01/21/19 14:13	01/21/19 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-V5S-3.5-4

Date Collected: 01/08/19 08:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		01/09/19 18:35	01/11/19 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*	*01/09/19 18:35*	*01/11/19 12:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 18:35*	*01/11/19 12:12*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 18:35*	*01/11/19 12:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,1,1-Trichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,1,2-Trichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,1-Dichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,1-Dichloropropene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,2,4-Trichlorobenzene	ND		3.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,2-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,2-Dichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,2-Dichloropropane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,3-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,3-Dichloropropane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
1,4-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
2-Butanone (MEK)	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
2-Hexanone	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
4-Isopropyltoluene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Benzene	**2.2**		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Bromoform	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Chlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Chlorodibromomethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Chloroform	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
cis-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1

Client Sample ID: DG-V5S-3.5-4

Date Collected: 01/08/19 08:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Dibromomethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Dichlorobromomethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Ethylbenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Ethylene Dibromide	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Isopropylbenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Methylene Chloride	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
N-Propylbenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Styrene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Tetrachloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Toluene	**1.1**		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
trans-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
trans-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Trichloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:12	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		01/09/19 18:35	01/11/19 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*01/09/19 18:35*	*01/11/19 12:12*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 18:35*	*01/11/19 12:12*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Anthracene	ND		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Benzo[a]pyrene	**2.0**	**J**	4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Benzo[b]fluoranthene	**3.5**	**J**	4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Chrysene	**1.8**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Dibenz(a,h)anthracene	ND		4.9	3.5	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Fluoranthene	**2.6**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Fluorene	ND		4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Naphthalene	ND		4.9	3.5	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Phenanthrene	**2.2**	**J**	4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 14:51	1
Pyrene	**3.1**	**J**	4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 14:51	1

Client Sample ID: DG-V5S-3.5-4

Date Collected: 01/08/19 08:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*01/09/19 10:18*	*01/11/19 14:51*	*1*
Terphenyl-d14	*100*		*35 - 146*	*01/09/19 10:18*	*01/11/19 14:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.7**	**J B**	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 20:29	1
Motor Oil Range Organics [C24-C36]	ND		49	9.9	mg/Kg		01/09/19 09:34	01/10/19 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*95*		*40 - 130*	*01/09/19 09:34*	*01/10/19 20:29*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/09/19 09:56	01/10/19 20:10	1
Toxaphene	ND		38	6.6	ug/Kg		01/09/19 09:56	01/10/19 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*21 - 136*	*01/09/19 09:56*	*01/10/19 20:10*	*1*
Tetrachloro-m-xylene	*83*		*21 - 145*	*01/09/19 09:56*	*01/10/19 20:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:05	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:05	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:05	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:05	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:05	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:05	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:05	1

Client Sample ID: DG-V5S-3.5-4

Date Collected: 01/08/19 08:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*01/10/19 13:06*	*01/11/19 17:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.2**	**B**	1.1	0.18	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Arsenic	**120**		2.2	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Barium	**88**		1.1	0.16	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Beryllium	**0.18**	**J**	0.22	0.072	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Cadmium	**0.058**	**J**	0.28	0.027	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Chromium	**56**		1.1	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Cobalt	**7.1**		0.44	0.044	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Copper	**28**		3.3	1.6	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Lead	**86**	**^**	1.1	0.23	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Nickel	**37**		1.1	0.11	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Selenium	**1.1**	**J**	2.2	0.33	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Silver	**0.12**	**J**	0.55	0.11	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Thallium	ND		1.1	0.32	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Vanadium	**42**		1.1	0.15	mg/Kg		01/09/19 08:37	01/09/19 17:20	4
Zinc	**110**		3.3	1.4	mg/Kg		01/09/19 08:37	01/09/19 17:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.016	0.0024	mg/Kg		01/21/19 14:13	01/21/19 16:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.3**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-V5S-7.5-8

Date Collected: 01/08/19 08:10
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		01/09/19 18:35	01/11/19 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/09/19 18:35*	*01/11/19 12:36*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/09/19 18:35*	*01/11/19 12:36*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 18:35*	*01/11/19 12:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,1,1-Trichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,1,2-Trichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,1-Dichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,1-Dichloropropene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,2,4-Trichlorobenzene	ND		3.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,2-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,2-Dichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,2-Dichloropropane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,3-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,3-Dichloropropane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
1,4-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
2-Butanone (MEK)	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
2-Hexanone	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
4-Isopropyltoluene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Benzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Bromoform	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Chlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Chlorodibromomethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Chloroform	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
cis-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1

Client Sample ID: DG-V5S-7.5-8
Date Collected: 01/08/19 08:10
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Dibromomethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Dichlorobromomethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Ethylbenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Ethylene Dibromide	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Isopropylbenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Methylene Chloride	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
N-Propylbenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Styrene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Tetrachloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Toluene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
trans-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
trans-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Trichloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 12:36	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		01/09/19 18:35	01/11/19 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*	*01/09/19 18:35*	*01/11/19 12:36*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 18:35*	*01/11/19 12:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Anthracene	ND		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Benzo[a]pyrene	ND		4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Benzo[b]fluoranthene	ND		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Chrysene	ND		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Fluoranthene	ND		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Fluorene	ND		4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Phenanthrene	ND		4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 15:15	1
Pyrene	ND		4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 15:15	1

Client Sample ID: DG-V5S-7.5-8

Date Collected: 01/08/19 08:10
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*01/09/19 10:18*	*01/11/19 15:15*	*1*
Terphenyl-d14	*100*		*35 - 146*	*01/09/19 10:18*	*01/11/19 15:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**0.98**	**J B**	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 19:30	1
Motor Oil Range Organics [C24-C36]	ND		50	9.9	mg/Kg		01/09/19 09:34	01/10/19 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*01/09/19 09:34*	*01/10/19 19:30*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/09/19 09:56	01/10/19 20:27	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 09:56	01/10/19 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*21 - 136*	*01/09/19 09:56*	*01/10/19 20:27*	*1*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/09/19 09:56*	*01/10/19 20:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:19	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:19	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:19	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:19	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:19	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:19	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:19	1

Client Sample ID: DG-V5S-7.5-8

Date Collected: 01/08/19 08:10
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*01/10/19 13:06*	*01/11/19 17:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.1**	**B**	1.9	0.32	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Arsenic	**12**		3.8	0.32	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Barium	**97**		1.9	0.27	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Beryllium	**0.60**		0.38	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Cadmium	ND		0.48	0.047	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Chromium	**42**		1.9	0.20	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Cobalt	**10**		0.76	0.076	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Copper	**41**		5.7	2.7	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Lead	**5.9**		1.9	0.40	mg/Kg		01/09/19 08:37	01/10/19 18:15	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Nickel	**36**		1.9	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Selenium	**2.0**	**J**	3.8	0.57	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Silver	ND		0.95	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Thallium	ND		1.9	0.55	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Vanadium	**53**		1.9	0.26	mg/Kg		01/09/19 08:37	01/09/19 17:25	4
Zinc	**56**		5.7	2.4	mg/Kg		01/09/19 08:37	01/09/19 17:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.014	0.0021	mg/Kg		01/21/19 14:13	01/21/19 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.4**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-X5S-0.5-1

Date Collected: 01/08/19 08:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		01/09/19 18:35	01/11/19 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/09/19 18:35*	*01/11/19 13:00*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/09/19 18:35*	*01/11/19 13:00*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 18:35*	*01/11/19 13:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
2-Butanone (MEK)	**20**		7.4	3.7	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Benzene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Bromoform	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Chloroform	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1

Client Sample ID: DG-X5S-0.5-1

Date Collected: 01/08/19 08:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Styrene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Toluene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:00	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		01/09/19 18:35	01/11/19 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*	*01/09/19 18:35*	*01/11/19 13:00*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 18:35*	*01/11/19 13:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**71**		9.9	4.9	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Acenaphthene	**3.7**	**J**	4.9	2.8	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Acenaphthylene	**27**		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Anthracene	**70**		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Benzo[a]anthracene	**46**		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Benzo[a]pyrene	**61**		4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Benzo[b]fluoranthene	**94**		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Benzo[g,h,i]perylene	**68**		4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Benzo[k]fluoranthene	**34**		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Chrysene	**73**		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Dibenz(a,h)anthracene	**11**		4.9	3.5	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Fluoranthene	**94**		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Fluorene	ND		4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Indeno[1,2,3-cd]pyrene	**37**		4.9	4.1	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Naphthalene	**68**		4.9	3.5	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Phenanthrene	**140**		4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 19:35	1
Pyrene	**110**		4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 19:35	1

Client Sample ID: DG-X5S-0.5-1

Date Collected: 01/08/19 08:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*33 - 120*	*01/09/19 10:18*	*01/11/19 19:35*	*1*
Terphenyl-d14	*111*		*35 - 146*	*01/09/19 10:18*	*01/11/19 19:35*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**78**	**B**	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 22:26	1
Motor Oil Range Organics [C24-C36]	**190**		49	9.9	mg/Kg		01/09/19 09:34	01/10/19 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*72*		*40 - 130*	*01/09/19 09:34*	*01/10/19 22:26*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/09/19 09:56	01/10/19 20:43	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 09:56	01/10/19 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*21 - 136*	*01/09/19 09:56*	*01/10/19 20:43*	*1*
Tetrachloro-m-xylene	*99*		*21 - 145*	*01/09/19 09:56*	*01/10/19 20:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:32	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:32	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:32	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:32	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:32	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:32	1
Aroclor 1260	**90**		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:32	1

Client Sample ID: DG-X5S-0.5-1

Date Collected: 01/08/19 08:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*45 - 120*	*01/10/19 13:06*	*01/11/19 17:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.0**	**B**	1.1	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Arsenic	**120**		2.2	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Barium	**60**		1.1	0.16	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Beryllium	ND		0.22	0.073	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Cadmium	**0.44**		0.28	0.028	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Chromium	**15**		1.1	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Cobalt	**15**		0.45	0.045	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Copper	**140**		3.4	1.6	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Lead	**130**	**^**	1.1	0.23	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Molybdenum	**3.8**		1.1	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Nickel	**16**		1.1	0.11	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Selenium	**2.8**		2.2	0.34	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Silver	**0.50**	**J**	0.56	0.11	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Thallium	ND		1.1	0.32	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Vanadium	**97**		1.1	0.15	mg/Kg		01/09/19 08:37	01/09/19 17:29	4
Zinc	**140**		3.4	1.4	mg/Kg		01/09/19 08:37	01/09/19 17:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.015	0.0023	mg/Kg		01/21/19 14:13	01/21/19 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-X5S-3.5-4

Date Collected: 01/08/19 08:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		57	40	ug/Kg		01/09/19 18:35	01/11/19 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/09/19 18:35*	*01/11/19 13:24*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 18:35*	*01/11/19 13:24*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 18:35*	*01/11/19 13:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,1,1-Trichloroethane	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7	2.9	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,1,2-Trichloroethane	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,1-Dichloroethane	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,1-Dichloroethene	ND		1.1	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,1-Dichloropropene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,2,3-Trichlorobenzene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,2,3-Trichloropropane	ND		5.7	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,2,4-Trichlorobenzene	ND		2.9	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,2,4-Trimethylbenzene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,2-Dibromo-3-Chloropropane	ND		2.9	1.1	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,2-Dichlorobenzene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,2-Dichloroethane	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,2-Dichloropropane	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,3,5-Trimethylbenzene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,3-Dichlorobenzene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,3-Dichloropropane	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
1,4-Dichlorobenzene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
2,2-Dichloropropane	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
2-Butanone (MEK)	ND		5.7	2.9	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
2-Chlorotoluene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
2-Hexanone	ND		5.7	2.9	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
4-Chlorotoluene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
4-Isopropyltoluene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		2.9	1.4	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Benzene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Bromobenzene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Bromoform	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Bromomethane	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Carbon disulfide	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Carbon tetrachloride	ND		1.1	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Chlorobenzene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Chlorobromomethane	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Chlorodibromomethane	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Chloroethane	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Chloroform	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Chloromethane	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
cis-1,2-Dichloroethene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1

Client Sample ID: DG-X5S-3.5-4

Date Collected: 01/08/19 08:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Dibromomethane	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Dichlorobromomethane	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Dichlorodifluoromethane	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Ethylbenzene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Ethylene Dibromide	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Hexachlorobutadiene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Isopropylbenzene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Methyl tert-butyl ether	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Methylene Chloride	ND		5.7	2.9	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Naphthalene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
n-Butylbenzene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
N-Propylbenzene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
sec-Butylbenzene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Styrene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
tert-Butylbenzene	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Tetrachloroethene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Toluene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
trans-1,2-Dichloroethene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
trans-1,3-Dichloropropene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Trichloroethene	ND		0.57	0.29	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Trichlorofluoromethane	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Vinyl acetate	ND		4.6	2.3	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Vinyl chloride	ND		1.1	0.57	ug/Kg		01/09/19 18:35	01/11/19 13:24	1
Xylenes, Total	ND		1.1	0.74	ug/Kg		01/09/19 18:35	01/11/19 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*	*01/09/19 18:35*	*01/11/19 13:24*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 18:35*	*01/11/19 13:24*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Anthracene	ND		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Benzo[a]pyrene	ND		4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Benzo[b]fluoranthene	**2.6**	**J**	4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Chrysene	ND		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Fluoranthene	**1.6**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Fluorene	ND		4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Phenanthrene	ND		4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 15:39	1
Pyrene	**1.8**	**J**	4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 15:39	1

Client Sample ID: DG-X5S-3.5-4

Date Collected: 01/08/19 08:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*01/09/19 10:18*	*01/11/19 15:39*	*1*
Terphenyl-d14	*105*		*35 - 146*	*01/09/19 10:18*	*01/11/19 15:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.3**	**J B**	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 19:59	1
Motor Oil Range Organics [C24-C36]	ND		49	9.9	mg/Kg		01/09/19 09:34	01/10/19 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*100*		*40 - 130*	*01/09/19 09:34*	*01/10/19 19:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Endrin	ND		1.9	0.45	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/09/19 09:56	01/10/19 21:00	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 09:56	01/10/19 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*21 - 136*	*01/09/19 09:56*	*01/10/19 21:00*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/09/19 09:56*	*01/10/19 21:00*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 17:46	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 17:46	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 17:46	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 17:46	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 17:46	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 17:46	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 17:46	1

Client Sample ID: DG-X5S-3.5-4

Date Collected: 01/08/19 08:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*01/10/19 13:06*	*01/11/19 17:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.8**	**B**	1.3	0.22	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Arsenic	**36**		2.6	0.23	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Barium	**56**		1.3	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Beryllium	**0.14**	**J**	0.26	0.086	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Cadmium	ND		0.33	0.033	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Chromium	**59**		1.3	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Cobalt	**7.0**		0.53	0.053	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Copper	**8.5**		4.0	1.9	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Lead	**5.7**		1.3	0.28	mg/Kg		01/09/19 08:37	01/10/19 18:19	4
Molybdenum	ND		1.3	0.17	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Nickel	**40**		1.3	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Selenium	**1.1**	**J**	2.6	0.40	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Silver	ND		0.66	0.13	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Thallium	ND		1.3	0.38	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Vanadium	**43**		1.3	0.18	mg/Kg		01/09/19 08:37	01/09/19 17:34	4
Zinc	**31**		4.0	1.7	mg/Kg		01/09/19 08:37	01/09/19 17:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.014	0.0021	mg/Kg		01/21/19 14:13	01/21/19 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.6**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-Z5S-0.5-1

Date Collected: 01/08/19 08:40
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	51	ug/Kg		01/09/19 21:37	01/11/19 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/09/19 21:37*	*01/11/19 13:48*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/09/19 21:37*	*01/11/19 13:48*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 21:37*	*01/11/19 13:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.8	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Benzene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Bromoform	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Chloroform	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1

Client Sample ID: DG-Z5S-0.5-1
Date Collected: 01/08/19 08:40
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Styrene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Toluene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Vinyl acetate	ND		5.9	2.9	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/09/19 21:37	01/11/19 13:48	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		01/09/19 21:37	01/11/19 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*	*01/09/19 21:37*	*01/11/19 13:48*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 21:37*	*01/11/19 13:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**55**		40	20	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Acenaphthene	ND		20	11	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Acenaphthylene	**48**		20	9.5	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Anthracene	**61**		20	7.9	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Benzo[a]anthracene	**140**		20	5.9	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Benzo[a]pyrene	**190**		20	7.5	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Benzo[b]fluoranthene	**230**		20	8.3	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Benzo[g,h,i]perylene	**79**		20	17	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Benzo[k]fluoranthene	**93**		20	8.3	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Chrysene	**180**		20	5.5	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Dibenz(a,h)anthracene	**24**		20	14	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Fluoranthene	**180**		20	5.5	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Fluorene	ND		20	8.7	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Indeno[1,2,3-cd]pyrene	**67**		20	17	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Naphthalene	**85**		20	14	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Phenanthrene	**93**		20	7.1	ug/Kg		01/09/19 10:18	01/11/19 21:09	4
Pyrene	**330**		20	6.7	ug/Kg		01/09/19 10:18	01/11/19 21:09	4

Client Sample ID: DG-Z5S-0.5-1

Date Collected: 01/08/19 08:40
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-8

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120	01/09/19 10:18	01/11/19 21:09	4
Terphenyl-d14	105		35 - 146	01/09/19 10:18	01/11/19 21:09	4

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	70	B	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 21:27	1
Motor Oil Range Organics [C24-C36]	190		49	9.8	mg/Kg		01/09/19 09:34	01/10/19 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	104		40 - 130	01/09/19 09:34	01/10/19 21:27	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Aldrin	ND		2.0	0.50	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Endrin	ND		2.0	0.46	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/09/19 09:56	01/10/19 21:17	1
Toxaphene	ND		40	6.8	ug/Kg		01/09/19 09:56	01/10/19 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		21 - 136	01/09/19 09:56	01/10/19 21:17	1
Tetrachloro-m-xylene	94		21 - 145	01/09/19 09:56	01/10/19 21:17	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:59	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:59	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:59	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:59	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:59	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:59	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 17:59	1

Client Sample ID: DG-Z5S-0.5-1

Date Collected: 01/08/19 08:40
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/10/19 13:06*	*01/11/19 17:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	B	1.4	0.23	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Arsenic	31		2.8	0.24	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Barium	62		1.4	0.20	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Beryllium	ND		0.28	0.091	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Cadmium	0.36		0.35	0.035	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Chromium	14		1.4	0.15	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Cobalt	11		0.56	0.056	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Copper	140		4.2	2.0	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Lead	160	^	1.4	0.29	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Molybdenum	0.33	J	1.4	0.18	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Nickel	9.7		1.4	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Selenium	1.5	J	2.8	0.42	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Silver	0.25	J	0.70	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Thallium	0.57	J	1.4	0.41	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Vanadium	88		1.4	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:39	4
Zinc	160		4.2	1.8	mg/Kg		01/09/19 08:37	01/09/19 17:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.016	0.0024	mg/Kg		01/21/19 14:13	01/21/19 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.05	%			01/09/19 11:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-Z5S-3.5-4
Date Collected: 01/08/19 08:42
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-9
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		01/09/19 18:35	01/11/19 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/09/19 18:35*	*01/11/19 14:12*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/09/19 18:35*	*01/11/19 14:12*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/09/19 18:35*	*01/11/19 14:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,1,1-Trichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,1,2-Trichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,1-Dichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,1-Dichloropropene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,2,4-Trichlorobenzene	ND		3.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,2-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,2-Dichloroethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,2-Dichloropropane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,3-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,3-Dichloropropane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
1,4-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
2-Butanone (MEK)	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
2-Hexanone	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
4-Isopropyltoluene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Benzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Bromoform	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Chlorobenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Chlorodibromomethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Chloroform	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
cis-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1

Client Sample ID: DG-Z5S-3.5-4

Date Collected: 01/08/19 08:42
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Lab Sample ID: 720-90640-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Dibromomethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Dichlorobromomethane	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Ethylbenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Ethylene Dibromide	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Isopropylbenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Methylene Chloride	ND		6.9	3.4	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
N-Propylbenzene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Styrene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Tetrachloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Toluene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
trans-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
trans-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Trichloroethene	ND		0.69	0.34	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/09/19 18:35	01/11/19 14:12	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		01/09/19 18:35	01/11/19 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*	*01/09/19 18:35*	*01/11/19 14:12*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/09/19 18:35*	*01/11/19 14:12*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Anthracene	ND		5.0	2.0	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Benzo[b]fluoranthene	**3.4**	**J**	5.0	2.1	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Chrysene	**1.8**	**J**	5.0	1.4	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Fluoranthene	**2.2**	**J**	5.0	1.4	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Fluorene	ND		5.0	2.2	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Phenanthrene	**2.5**	**J**	5.0	1.8	ug/Kg		01/09/19 10:18	01/11/19 16:02	1
Pyrene	**2.4**	**J**	5.0	1.7	ug/Kg		01/09/19 10:18	01/11/19 16:02	1

Client Sample ID: DG-Z5S-3.5-4

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Lab Sample ID: 720-90640-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*01/09/19 10:18*	*01/11/19 16:02*	*1*
Terphenyl-d14	*104*		*35 - 146*	*01/09/19 10:18*	*01/11/19 16:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5.6	B	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 19:01	1
Motor Oil Range Organics [C24-C36]	12	J	49	9.8	mg/Kg		01/09/19 09:34	01/10/19 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*109*		*40 - 130*	*01/09/19 09:34*	*01/10/19 19:01*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/09/19 09:56	01/10/19 21:33	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 09:56	01/10/19 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*21 - 136*	*01/09/19 09:56*	*01/10/19 21:33*	*1*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/09/19 09:56*	*01/10/19 21:33*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:13	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:13	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:13	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:13	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:13	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:13	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:13	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

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Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*01/10/19 13:06*	*01/11/19 18:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**	**J B**	1.4	0.23	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Arsenic	**11**		2.8	0.24	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Barium	**36**		1.4	0.20	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Beryllium	**0.13**	**J**	0.28	0.090	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Cadmium	ND		0.35	0.034	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Chromium	**30**		1.4	0.15	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Cobalt	**4.3**		0.56	0.056	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Copper	**5.9**		4.2	2.0	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Lead	**3.2**		1.4	0.29	mg/Kg		01/09/19 08:37	01/10/19 18:24	4
Molybdenum	**0.26**	**J**	1.4	0.18	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Nickel	**23**		1.4	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Selenium	ND		2.8	0.42	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Silver	ND		0.69	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Thallium	ND		1.4	0.40	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Vanadium	**22**		1.4	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:44	4
Zinc	**19**		4.2	1.8	mg/Kg		01/09/19 08:37	01/09/19 17:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.017	0.0025	mg/Kg		01/21/19 14:13	01/21/19 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.5**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-AD5S-0.5-1

Date Collected: 01/08/19 09:20
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Lab Sample ID: 720-90640-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	50	ug/Kg		01/09/19 18:35	01/11/19 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/09/19 18:35*	*01/11/19 23:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/09/19 18:35*	*01/11/19 23:45*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 18:35*	*01/11/19 23:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,1,1-Trichloroethane	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.5	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,1,2-Trichloroethane	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,1-Dichloroethane	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,1-Dichloropropene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,2,4-Trichlorobenzene	ND		3.5	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,2-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,2-Dichloroethane	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,2-Dichloropropane	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,3-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,3-Dichloropropane	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
1,4-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
2-Butanone (MEK)	ND		7.1	3.5	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
2-Hexanone	ND		7.1	3.5	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
4-Isopropyltoluene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Benzene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Bromoform	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Chlorobenzene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Chlorodibromomethane	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Chloroform	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
cis-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1

Client Sample ID: DG-AD5S-0.5-1
Date Collected: 01/08/19 09:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Dibromomethane	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Dichlorobromomethane	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Ethylbenzene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Ethylene Dibromide	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Isopropylbenzene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Methylene Chloride	ND		7.1	3.5	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
N-Propylbenzene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Styrene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Tetrachloroethene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Toluene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
trans-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
trans-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Trichloroethene	ND		0.71	0.35	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Vinyl acetate	ND		5.7	2.8	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/11/19 23:45	1
Xylenes, Total	ND		1.4	0.92	ug/Kg		01/09/19 18:35	01/11/19 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*	*01/09/19 18:35*	*01/11/19 23:45*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 18:35*	*01/11/19 23:45*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**92**		39	20	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Acenaphthene	ND		20	11	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Acenaphthylene	**53**		20	9.4	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Anthracene	**77**		20	7.9	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Benzo[a]anthracene	**51**		20	5.9	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Benzo[a]pyrene	**64**		20	7.5	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Benzo[b]fluoranthene	**80**		20	8.3	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Benzo[g,h,i]perylene	**54**		20	17	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Benzo[k]fluoranthene	**37**		20	8.3	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Chrysene	**92**		20	5.5	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Dibenz(a,h)anthracene	ND		20	14	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Fluoranthene	**100**		20	5.5	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Fluorene	**20**		20	8.7	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Indeno[1,2,3-cd]pyrene	**34**		20	17	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Naphthalene	**340**		20	14	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Phenanthrene	**130**		20	7.1	ug/Kg		01/09/19 10:18	01/14/19 12:03	4
Pyrene	**140**		20	6.7	ug/Kg		01/09/19 10:18	01/14/19 12:03	4

Client Sample ID: DG-AD5S-0.5-1

Date Collected: 01/08/19 09:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-10

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		33 - 120	01/09/19 10:18	01/14/19 12:03	4
Terphenyl-d14	94		35 - 146	01/09/19 10:18	01/14/19 12:03	4

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**310**	**B**	3.9	1.5	mg/Kg		01/09/19 09:34	01/10/19 21:57	2
Motor Oil Range Organics [C24-C36]	**550**		99	20	mg/Kg		01/09/19 09:34	01/10/19 21:57	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	94		40 - 130	01/09/19 09:34	01/10/19 21:57	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Aldrin	ND		2.0	0.49	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Endrin	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/09/19 09:56	01/10/19 21:50	1
Toxaphene	ND		39	6.7	ug/Kg		01/09/19 09:56	01/10/19 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		21 - 136	01/09/19 09:56	01/10/19 21:50	1
Tetrachloro-m-xylene	86		21 - 145	01/09/19 09:56	01/10/19 21:50	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:27	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:27	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:27	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:27	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:27	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:27	1
Aroclor 1260	**99**		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:27	1

Client Sample ID: DG-AD5S-0.5-1

Date Collected: 01/08/19 09:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/10/19 13:06*	*01/11/19 18:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.2**	**B**	1.2	0.20	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Arsenic	**88**		2.4	0.20	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Barium	**85**		1.2	0.17	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Beryllium	ND		0.24	0.078	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Cadmium	**0.30**		0.30	0.030	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Chromium	**16**		1.2	0.13	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Cobalt	**13**		0.48	0.048	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Copper	**150**		3.6	1.7	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Lead	**180**	**^**	1.2	0.25	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Molybdenum	**0.93**	**J**	1.2	0.15	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Nickel	**13**		1.2	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Selenium	**2.1**	**J**	2.4	0.36	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Silver	**0.29**	**J**	0.60	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Thallium	ND		1.2	0.35	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Vanadium	**98**		1.2	0.16	mg/Kg		01/09/19 08:37	01/09/19 17:48	4
Zinc	**140**		3.6	1.5	mg/Kg		01/09/19 08:37	01/09/19 17:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.015	0.0022	mg/Kg		01/21/19 14:13	01/21/19 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-AD5S-3.5-4

Date Collected: 01/08/19 09:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		80	56	ug/Kg		01/09/19 18:35	01/12/19 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/09/19 18:35*	*01/12/19 00:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/09/19 18:35*	*01/12/19 00:09*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 18:35*	*01/12/19 00:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
2-Butanone (MEK)	**10**		8.0	4.0	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
2-Hexanone	ND		8.0	4.0	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Benzene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Bromobenzene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Bromoform	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Bromomethane	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Carbon disulfide	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Chloroethane	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Chloroform	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Chloromethane	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1

Client Sample ID: DG-AD5S-3.5-4

Date Collected: 01/08/19 09:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Dibromomethane	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Naphthalene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Styrene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Tetrachloroethene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Toluene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Trichloroethene	ND		0.80	0.40	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		01/09/19 18:35	01/12/19 00:09	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/09/19 18:35	01/12/19 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*01/09/19 18:35*	*01/12/19 00:09*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 18:35*	*01/12/19 00:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Anthracene	ND		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Benzo[a]pyrene	**2.5**	**J**	4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Benzo[b]fluoranthene	**4.8**	**J**	4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Benzo[g,h,i]perylene	**4.4**	**J**	4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Chrysene	**3.3**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Fluoranthene	**4.6**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Fluorene	ND		4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Naphthalene	**3.6**	**J**	4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Phenanthrene	**3.6**	**J**	4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 16:26	1
Pyrene	**6.3**		4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 16:26	1

Client Sample ID: DG-AD5S-3.5-4

Date Collected: 01/08/19 09:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*01/09/19 10:18*	*01/11/19 16:26*	*1*
Terphenyl-d14	*103*		*35 - 146*	*01/09/19 10:18*	*01/11/19 16:26*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15	B	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 19:30	1
Motor Oil Range Organics [C24-C36]	35	J	50	9.9	mg/Kg		01/09/19 09:34	01/10/19 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*105*		*40 - 130*	*01/09/19 09:34*	*01/10/19 19:30*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Aldrin	ND		2.0	0.49	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Endrin	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/09/19 09:56	01/10/19 22:07	1
Toxaphene	ND		39	6.7	ug/Kg		01/09/19 09:56	01/10/19 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*21 - 136*	*01/09/19 09:56*	*01/10/19 22:07*	*1*
Tetrachloro-m-xylene	*84*		*21 - 145*	*01/09/19 09:56*	*01/10/19 22:07*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:40	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:40	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:40	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:40	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:40	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:40	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 18:40	1

Client Sample ID: DG-AD5S-3.5-4

Date Collected: 01/08/19 09:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/10/19 13:06*	*01/11/19 18:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.49**	**J B**	1.1	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Arsenic	**12**		2.2	0.19	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Barium	**47**		1.1	0.16	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Beryllium	**0.20**	**J**	0.22	0.073	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Cadmium	**0.063**	**J**	0.28	0.028	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Chromium	**35**		1.1	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Cobalt	**5.2**		0.45	0.045	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Copper	**10**		3.4	1.6	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Lead	**11**	**^**	1.1	0.24	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Molybdenum	**0.38**	**J**	1.1	0.14	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Nickel	**27**		1.1	0.11	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Selenium	**0.65**	**J**	2.2	0.34	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Silver	ND		0.56	0.11	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Thallium	ND		1.1	0.33	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Vanadium	**25**		1.1	0.15	mg/Kg		01/09/19 08:37	01/09/19 17:53	4
Zinc	**28**		3.4	1.4	mg/Kg		01/09/19 08:37	01/09/19 17:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.016	0.0023	mg/Kg		01/21/19 14:13	01/21/19 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.2**		0.1	0.05	%			01/09/19 11:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-AF5S-0.5-1
Date Collected: 01/08/19 09:35
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		73	51	ug/Kg		01/08/19 18:00	01/11/19 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/08/19 18:00*	*01/11/19 15:24*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/08/19 18:00*	*01/11/19 15:24*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/08/19 18:00*	*01/11/19 15:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
2-Hexanone	ND		7.3	3.6	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
4-Isopropyltoluene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Benzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Bromoform	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Chloroform	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1

Client Sample ID: DG-AF5S-0.5-1
Date Collected: 01/08/19 09:35
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Dibromomethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Styrene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Tetrachloroethene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Toluene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Trichloroethene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 15:24	1
Xylenes, Total	ND		1.5	0.95	ug/Kg		01/08/19 18:00	01/11/19 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*	*01/08/19 18:00*	*01/11/19 15:24*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/08/19 18:00*	*01/11/19 15:24*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**64**		39	20	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Acenaphthene	**22**		20	11	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Acenaphthylene	**60**		20	9.4	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Anthracene	**150**		20	7.9	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Benzo[a]anthracene	**130**		20	5.9	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Benzo[a]pyrene	**160**		20	7.5	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Benzo[b]fluoranthene	**260**		20	8.3	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Benzo[g,h,i]perylene	**130**		20	17	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Benzo[k]fluoranthene	**91**		20	8.3	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Chrysene	**210**		20	5.5	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Dibenz(a,h)anthracene	**32**		20	14	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Fluoranthene	**240**		20	5.5	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Fluorene	**14**	**J**	20	8.7	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Indeno[1,2,3-cd]pyrene	**96**		20	17	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Naphthalene	**77**		20	14	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Phenanthrene	**190**		20	7.1	ug/Kg		01/09/19 10:18	01/14/19 12:26	4
Pyrene	**270**		20	6.7	ug/Kg		01/09/19 10:18	01/14/19 12:26	4

Client Sample ID: DG-AF5S-0.5-1

Date Collected: 01/08/19 09:35
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-12

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		33 - 120	01/09/19 10:18	01/14/19 12:26	4
Terphenyl-d14	91		35 - 146	01/09/19 10:18	01/14/19 12:26	4

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	300	B	3.9	1.5	mg/Kg		01/09/19 09:34	01/10/19 22:26	2
Motor Oil Range Organics [C24-C36]	640		98	20	mg/Kg		01/09/19 09:34	01/10/19 22:26	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	98		40 - 130	01/09/19 09:34	01/10/19 22:26	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	4.2	p	1.9	0.59	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
4,4'-DDE	4.4	p	1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
4,4'-DDT	9.2	p	1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
alpha-Chlordane	11		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Chlordane (n.o.s.)	110		39	2.8	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Chlordane (technical)	110		39	3.1	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
gamma-Chlordane	11		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/09/19 09:56	01/10/19 22:23	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 09:56	01/10/19 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		21 - 136	01/09/19 09:56	01/10/19 22:23	1
Tetrachloro-m-xylene	67		21 - 145	01/09/19 09:56	01/10/19 22:23	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:54	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:54	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:54	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:54	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:54	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 18:54	1

Client Sample ID: DG-AF5S-0.5-1

Date Collected: 01/08/19 09:35
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*45 - 120*	*01/10/19 13:06*	*01/11/19 18:54*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	**600**		100	34	ug/Kg		01/10/19 13:06	01/14/19 15:31	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*01/10/19 13:06*	*01/14/19 15:31*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**13**	**B**	1.2	0.20	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Arsenic	**20**		2.4	0.20	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Barium	**160**		1.2	0.17	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Beryllium	ND		0.24	0.076	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Cadmium	**5.5**		0.29	0.029	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Chromium	**78**		1.2	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Cobalt	**13**		0.47	0.047	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Copper	**550**		3.5	1.7	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Lead	**700**	**^**	1.2	0.25	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Molybdenum	**9.7**		1.2	0.15	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Nickel	**83**		1.2	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Selenium	**4.7**		2.4	0.35	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Silver	**1.7**		0.59	0.12	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Thallium	ND		1.2	0.34	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Vanadium	**47**		1.2	0.16	mg/Kg		01/09/19 08:37	01/09/19 17:58	4
Zinc	**1200**		3.5	1.5	mg/Kg		01/09/19 08:37	01/09/19 17:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.68**		0.016	0.0024	mg/Kg		01/21/19 14:13	01/21/19 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-AF5S-3.5-4

Date Collected: 01/08/19 09:37
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		98	69	ug/Kg		01/08/19 18:00	01/12/19 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/08/19 18:00*	*01/12/19 12:17*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/08/19 18:00*	*01/12/19 12:17*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*	*01/08/19 18:00*	*01/12/19 12:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,1,1-Trichloroethane	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.8	4.9	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,1,2-Trichloroethane	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,1-Dichloroethane	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,1-Dichloroethene	ND		2.0	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,1-Dichloropropene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,2,3-Trichlorobenzene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,2,3-Trichloropropane	ND		9.8	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,2,4-Trichlorobenzene	ND		4.9	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,2,4-Trimethylbenzene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.0	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,2-Dichlorobenzene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,2-Dichloroethane	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,2-Dichloropropane	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,3,5-Trimethylbenzene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,3-Dichlorobenzene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,3-Dichloropropane	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
1,4-Dichlorobenzene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
2,2-Dichloropropane	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
2-Butanone (MEK)	ND		9.8	4.9	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
2-Chlorotoluene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
2-Hexanone	ND		9.8	4.9	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
4-Chlorotoluene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
4-Isopropyltoluene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
4-Methyl-2-pentanone (MIBK)	ND		4.9	2.5	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Benzene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Bromobenzene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Bromoform	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Bromomethane	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Carbon disulfide	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Carbon tetrachloride	ND		2.0	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Chlorobenzene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Chlorobromomethane	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Chlorodibromomethane	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Chloroethane	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Chloroform	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Chloromethane	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
cis-1,2-Dichloroethene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1

Client Sample ID: DG-AF5S-3.5-4
Date Collected: 01/08/19 09:37
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Dibromomethane	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Dichlorobromomethane	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Dichlorodifluoromethane	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Ethylbenzene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Ethylene Dibromide	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Hexachlorobutadiene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Isopropylbenzene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Methyl tert-butyl ether	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Methylene Chloride	ND		9.8	4.9	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Naphthalene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
n-Butylbenzene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
N-Propylbenzene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
sec-Butylbenzene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Styrene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
tert-Butylbenzene	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Tetrachloroethene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Toluene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
trans-1,2-Dichloroethene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
trans-1,3-Dichloropropene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Trichloroethene	ND		0.98	0.49	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Trichlorofluoromethane	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Vinyl acetate	ND		7.8	3.9	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Vinyl chloride	ND		2.0	0.98	ug/Kg		01/08/19 18:00	01/12/19 12:17	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		01/08/19 18:00	01/12/19 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*	*01/08/19 18:00*	*01/12/19 12:17*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*	*01/08/19 18:00*	*01/12/19 12:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Anthracene	ND		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Benzo[a]pyrene	**2.9**	**J**	4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Benzo[b]fluoranthene	**4.7**	**J**	4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Benzo[g,h,i]perylene	**4.7**	**J**	4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Chrysene	**3.1**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Fluoranthene	**3.9**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Fluorene	ND		4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Phenanthrene	**2.8**	**J**	4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 16:49	1
Pyrene	**5.0**		4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 16:49	1

Client Sample ID: DG-AF5S-3.5-4

Date Collected: 01/08/19 09:37
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-13

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		33 - 120	01/09/19 10:18	01/11/19 16:49	1
Terphenyl-d14	101		35 - 146	01/09/19 10:18	01/11/19 16:49	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11	B	2.0	0.74	mg/Kg		01/09/19 09:34	01/10/19 19:59	1
Motor Oil Range Organics [C24-C36]	35	J	49	9.9	mg/Kg		01/09/19 09:34	01/10/19 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	104		40 - 130	01/09/19 09:34	01/10/19 19:59	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Aldrin	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Chlordane (n.o.s.)	ND		38	2.7	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Endosulfan II	ND		1.9	0.46	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Methoxychlor	ND		1.9	0.64	ug/Kg		01/09/19 09:56	01/10/19 22:40	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 09:56	01/10/19 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		21 - 136	01/09/19 09:56	01/10/19 22:40	1
Tetrachloro-m-xylene	78		21 - 145	01/09/19 09:56	01/10/19 22:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:07	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:07	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:07	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:07	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:07	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:07	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:07	1

Client Sample ID: DG-AF5S-3.5-4

Date Collected: 01/08/19 09:37
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*45 - 120*	*01/10/19 13:06*	*01/11/19 19:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.7**	**B**	1.3	0.21	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Arsenic	**120**		2.5	0.21	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Barium	**40**		1.3	0.18	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Beryllium	**0.14**	**J**	0.25	0.082	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Cadmium	**0.070**	**J**	0.31	0.031	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Chromium	**28**		1.3	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Cobalt	**4.9**		0.50	0.050	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Copper	**16**		3.8	1.8	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Lead	**19**	**^**	1.3	0.26	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Molybdenum	ND		1.3	0.16	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Nickel	**28**		1.3	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Selenium	**0.56**	**J**	2.5	0.38	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Silver	ND		0.63	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Thallium	ND		1.3	0.36	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Vanadium	**18**		1.3	0.17	mg/Kg		01/09/19 08:37	01/09/19 18:02	4
Zinc	**40**		3.8	1.6	mg/Kg		01/09/19 08:37	01/09/19 18:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.044**		0.016	0.0024	mg/Kg		01/21/19 14:13	01/21/19 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.05	%			01/09/19 11:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-AH5S-0.5-1
Date Collected: 01/08/19 09:55
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-14
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		67	47	ug/Kg		01/08/19 18:00	01/11/19 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/08/19 18:00*	*01/11/19 16:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/08/19 18:00*	*01/11/19 16:11*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/08/19 18:00*	*01/11/19 16:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,1,1-Trichloroethane	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	3.4	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,1,2-Trichloroethane	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,1-Dichloroethane	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,1-Dichloroethene	ND		1.3	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,1-Dichloropropene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,2,3-Trichlorobenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,2,3-Trichloropropane	ND		6.7	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,2,4-Trichlorobenzene	ND		3.4	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,2,4-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.3	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,2-Dichlorobenzene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,2-Dichloroethane	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,2-Dichloropropane	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,3,5-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,3-Dichlorobenzene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,3-Dichloropropane	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
1,4-Dichlorobenzene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
2,2-Dichloropropane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
2-Butanone (MEK)	ND		6.7	3.4	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
2-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
2-Hexanone	ND		6.7	3.4	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
4-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
4-Isopropyltoluene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Benzene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Bromobenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Bromoform	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Bromomethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Carbon disulfide	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Carbon tetrachloride	ND		1.3	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Chlorobenzene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Chlorobromomethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Chlorodibromomethane	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Chloroethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Chloroform	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Chloromethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
cis-1,2-Dichloroethene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1

Client Sample ID: DG-AH5S-0.5-1
Date Collected: 01/08/19 09:55
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-14
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Dibromomethane	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Dichlorobromomethane	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Dichlorodifluoromethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Ethylbenzene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Ethylene Dibromide	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Hexachlorobutadiene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Isopropylbenzene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Methyl tert-butyl ether	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Methylene Chloride	ND		6.7	3.4	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Naphthalene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
n-Butylbenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
N-Propylbenzene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
sec-Butylbenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Styrene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
tert-Butylbenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Tetrachloroethene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Toluene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
trans-1,2-Dichloroethene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
trans-1,3-Dichloropropene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Trichloroethene	ND		0.67	0.34	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Trichlorofluoromethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Vinyl chloride	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 16:11	1
Xylenes, Total	ND		1.3	0.87	ug/Kg		01/08/19 18:00	01/11/19 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*	*01/08/19 18:00*	*01/11/19 16:11*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/08/19 18:00*	*01/11/19 16:11*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**24**		9.8	4.9	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Acenaphthene	**3.0**	**J**	4.9	2.7	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Acenaphthylene	**12**		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Anthracene	**30**		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Benzo[a]anthracene	**55**		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Benzo[a]pyrene	**79**		4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Benzo[b]fluoranthene	**90**		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Benzo[g,h,i]perylene	**46**		4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Benzo[k]fluoranthene	**40**		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Chrysene	**81**		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Dibenz(a,h)anthracene	**9.3**		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Fluoranthene	**130**		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Fluorene	**3.4**	**J**	4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Indeno[1,2,3-cd]pyrene	**35**		4.9	4.1	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Naphthalene	**27**		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Phenanthrene	**77**		4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 19:59	1
Pyrene	**150**		4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 19:59	1

Client Sample ID: DG-AH5S-0.5-1

Date Collected: 01/08/19 09:55
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-14

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		33 - 120	01/09/19 10:18	01/11/19 19:59	1
Terphenyl-d14	116		35 - 146	01/09/19 10:18	01/11/19 19:59	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**58**	**B**	2.0	0.74	mg/Kg		01/09/19 09:34	01/11/19 00:27	1
Motor Oil Range Organics [C24-C36]	**160**		49	9.8	mg/Kg		01/09/19 09:34	01/11/19 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	79		40 - 130	01/09/19 09:34	01/11/19 00:27	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/09/19 09:56	01/10/19 22:57	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 09:56	01/10/19 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		21 - 136	01/09/19 09:56	01/10/19 22:57	1
Tetrachloro-m-xylene	93		21 - 145	01/09/19 09:56	01/10/19 22:57	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:21	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:21	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:21	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:21	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:21	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:21	1
Aroclor 1260	**17**	**J**	49	17	ug/Kg		01/10/19 13:06	01/11/19 19:21	1

Client Sample ID: DG-AH5S-0.5-1

Date Collected: 01/08/19 09:55
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*01/10/19 13:06*	*01/11/19 19:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	B	1.3	0.22	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Arsenic	56		2.7	0.23	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Barium	59		1.3	0.19	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Beryllium	ND		0.27	0.087	mg/Kg		01/09/19 08:37	01/10/19 18:29	4
Cadmium	0.37		0.33	0.033	mg/Kg		01/09/19 08:37	01/10/19 18:29	4
Chromium	16		1.3	0.14	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Cobalt	9.8		0.53	0.053	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Copper	120		4.0	1.9	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Lead	180		1.3	0.28	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Molybdenum	0.27	J	1.3	0.17	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Nickel	19		1.3	0.14	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Selenium	1.8	J	2.7	0.40	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Silver	0.24	J	0.67	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Thallium	1.0	J	1.3	0.39	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Vanadium	78		1.3	0.18	mg/Kg		01/09/19 08:37	01/09/19 18:17	4
Zinc	130		4.0	1.7	mg/Kg		01/09/19 08:37	01/09/19 18:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.015	0.0022	mg/Kg		01/21/19 14:13	01/21/19 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-AH5S-3.5-4

Date Collected: 01/08/19 09:57
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		63	44	ug/Kg		01/08/19 18:00	01/11/19 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*60 - 120*	*01/08/19 18:00*	*01/11/19 16:35*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/08/19 18:00*	*01/11/19 16:35*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/08/19 18:00*	*01/11/19 16:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,1,1-Trichloroethane	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3	3.2	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,1,2-Trichloroethane	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,1-Dichloroethane	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,1-Dichloropropene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,2,3-Trichlorobenzene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,2,3-Trichloropropane	ND		6.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,2,4-Trichlorobenzene	ND		3.2	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,2,4-Trimethylbenzene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,2-Dichlorobenzene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,2-Dichloroethane	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,2-Dichloropropane	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,3,5-Trimethylbenzene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,3-Dichlorobenzene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,3-Dichloropropane	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
1,4-Dichlorobenzene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
2,2-Dichloropropane	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
2-Butanone (MEK)	ND		6.3	3.2	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
2-Chlorotoluene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
2-Hexanone	ND		6.3	3.2	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
4-Chlorotoluene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
4-Isopropyltoluene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Benzene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Bromobenzene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Bromoform	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Bromomethane	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Carbon disulfide	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Chlorobenzene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Chlorobromomethane	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Chlorodibromomethane	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Chloroethane	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Chloroform	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Chloromethane	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
cis-1,2-Dichloroethene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1

Client Sample ID: DG-AH5S-3.5-4
Date Collected: 01/08/19 09:57
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Dibromomethane	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Dichlorobromomethane	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Dichlorodifluoromethane	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Ethylbenzene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Ethylene Dibromide	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Hexachlorobutadiene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Isopropylbenzene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Methyl tert-butyl ether	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Methylene Chloride	ND		6.3	3.2	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Naphthalene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
n-Butylbenzene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
N-Propylbenzene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
sec-Butylbenzene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Styrene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
tert-Butylbenzene	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Tetrachloroethene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Toluene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
trans-1,2-Dichloroethene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
trans-1,3-Dichloropropene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Trichloroethene	ND		0.63	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Trichlorofluoromethane	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Vinyl acetate	ND		5.1	2.5	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Vinyl chloride	ND		1.3	0.63	ug/Kg		01/08/19 18:00	01/11/19 16:35	1
Xylenes, Total	ND		1.3	0.82	ug/Kg		01/08/19 18:00	01/11/19 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*01/08/19 18:00*	*01/11/19 16:35*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/08/19 18:00*	*01/11/19 16:35*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**130**		49	25	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Acenaphthene	ND		25	14	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Acenaphthylene	**140**		25	12	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Anthracene	**170**		25	9.9	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Benzo[a]anthracene	**430**		25	7.4	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Benzo[a]pyrene	**880**		25	9.4	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Benzo[b]fluoranthene	**820**		25	10	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Benzo[g,h,i]perylene	**370**		25	21	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Benzo[k]fluoranthene	**360**		25	10	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Chrysene	**670**		25	6.9	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Dibenz(a,h)anthracene	**54**		25	17	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Fluoranthene	**1900**		25	6.9	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Fluorene	**55**		25	11	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Indeno[1,2,3-cd]pyrene	**350**		25	21	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Naphthalene	**660**		25	17	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Phenanthrene	**1500**		25	8.9	ug/Kg		01/09/19 10:18	01/14/19 13:37	5
Pyrene	**2300**		25	8.4	ug/Kg		01/09/19 10:18	01/14/19 13:37	5

Client Sample ID: DG-AH5S-3.5-4

Date Collected: 01/08/19 09:57
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-15

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		33 - 120	01/09/19 10:18	01/14/19 13:37	5
Terphenyl-d14	101		35 - 146	01/09/19 10:18	01/14/19 13:37	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	130	B	2.0	0.74	mg/Kg		01/09/19 09:34	01/11/19 00:03	1
Motor Oil Range Organics [C24-C36]	340		49	9.9	mg/Kg		01/09/19 09:34	01/11/19 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	71		40 - 130	01/09/19 09:34	01/11/19 00:03	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Aldrin	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Chlordane (n.o.s.)	ND		38	2.7	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Endosulfan II	ND		1.9	0.46	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Endrin	ND		1.9	0.43	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Endrin aldehyde	ND		1.9	0.59	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
gamma-BHC (Lindane)	ND		1.9	0.59	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Heptachlor	ND		1.9	0.43	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Methoxychlor	ND		1.9	0.64	ug/Kg		01/09/19 09:56	01/10/19 23:13	1
Toxaphene	ND		38	6.4	ug/Kg		01/09/19 09:56	01/10/19 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		21 - 136	01/09/19 09:56	01/10/19 23:13	1
Tetrachloro-m-xylene	85		21 - 145	01/09/19 09:56	01/10/19 23:13	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 19:34	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 19:34	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 19:34	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 19:34	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 19:34	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 19:34	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 19:34	1

Client Sample ID: DG-AH5S-3.5-4

Date Collected: 01/08/19 09:57
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*01/10/19 13:06*	*01/11/19 19:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**6.4**	**B**	1.3	0.21	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Arsenic	**310**		2.5	0.22	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Barium	**71**		1.3	0.18	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Beryllium	**0.14**	**J**	0.25	0.082	mg/Kg		01/09/19 08:37	01/10/19 18:43	4
Cadmium	**0.76**		0.32	0.031	mg/Kg		01/09/19 08:37	01/10/19 18:43	4
Chromium	**21**		1.3	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Cobalt	**11**		0.51	0.051	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Copper	**200**		3.8	1.8	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Lead	**280**		1.3	0.27	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Molybdenum	**0.74**	**J**	1.3	0.16	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Nickel	**27**		1.3	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Selenium	**3.1**		2.5	0.38	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Silver	**0.68**		0.63	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Thallium	ND		1.3	0.37	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Vanadium	**64**		1.3	0.17	mg/Kg		01/09/19 08:37	01/09/19 18:21	4
Zinc	**260**		3.8	1.6	mg/Kg		01/09/19 08:37	01/09/19 18:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.016	0.0023	mg/Kg		01/21/19 14:13	01/21/19 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.6**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-AH5S-8-8.5

Date Collected: 01/08/19 10:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	50	ug/Kg		01/08/19 18:00	01/11/19 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*60 - 120*	*01/08/19 18:00*	*01/11/19 16:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/08/19 18:00*	*01/11/19 16:59*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/08/19 18:00*	*01/11/19 16:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,1,1-Trichloroethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.6	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,1,2-Trichloroethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,1-Dichloroethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,1-Dichloropropene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,2,4-Trichlorobenzene	ND		3.6	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,2-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,2-Dichloroethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,2-Dichloropropane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,3-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,3-Dichloropropane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
1,4-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
2-Butanone (MEK)	ND		7.1	3.6	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
2-Hexanone	ND		7.1	3.6	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
4-Isopropyltoluene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Benzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Bromoform	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Chlorobenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Chlorodibromomethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Chloroform	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
cis-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1

Client Sample ID: DG-AH5S-8-8.5
Date Collected: 01/08/19 10:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-16
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Dibromomethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Dichlorobromomethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Ethylbenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Ethylene Dibromide	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Isopropylbenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Methylene Chloride	ND		7.1	3.6	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
N-Propylbenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Styrene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Tetrachloroethene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Toluene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
trans-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
trans-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Trichloroethene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Vinyl acetate	ND		5.7	2.8	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 16:59	1
Xylenes, Total	ND		1.4	0.93	ug/Kg		01/08/19 18:00	01/11/19 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*	*01/08/19 18:00*	*01/11/19 16:59*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/08/19 18:00*	*01/11/19 16:59*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Anthracene	ND		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Benzo[a]pyrene	**2.8**	**J**	4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Benzo[b]fluoranthene	**4.7**	**J**	4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Benzo[g,h,i]perylene	**5.8**		4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Chrysene	**3.1**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Fluoranthene	**3.8**	**J**	4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Fluorene	ND		4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Phenanthrene	**3.3**	**J**	4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 17:13	1
Pyrene	**4.7**	**J**	4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 17:13	1

Client Sample ID: DG-AH5S-8-8.5

Date Collected: 01/08/19 10:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*01/09/19 10:18*	*01/11/19 17:13*	*1*
Terphenyl-d14	*102*		*35 - 146*	*01/09/19 10:18*	*01/11/19 17:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	18	B	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 17:58	1
Motor Oil Range Organics [C24-C36]	28	J	49	9.9	mg/Kg		01/09/19 09:45	01/10/19 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*01/09/19 09:45*	*01/10/19 17:58*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Aldrin	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Chlordane (n.o.s.)	ND		38	2.7	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
delta-BHC	ND		1.9	0.41	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Endosulfan II	ND		1.9	0.46	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Endrin	ND		1.9	0.43	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Endrin aldehyde	ND		1.9	0.59	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
gamma-BHC (Lindane)	ND		1.9	0.59	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Heptachlor	ND		1.9	0.43	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Methoxychlor	ND		1.9	0.64	ug/Kg		01/09/19 09:56	01/11/19 11:12	1
Toxaphene	ND		38	6.4	ug/Kg		01/09/19 09:56	01/11/19 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*21 - 136*	*01/09/19 09:56*	*01/11/19 11:12*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/09/19 09:56*	*01/11/19 11:12*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:48	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:48	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:48	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:48	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:48	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:48	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 19:48	1

Client Sample ID: DG-AH5S-8-8.5

Date Collected: 01/08/19 10:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/10/19 13:06*	*01/11/19 19:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.1**	**B**	1.9	0.31	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Arsenic	**6.0**		3.7	0.31	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Barium	**75**		1.9	0.26	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Beryllium	**0.12**	**J**	0.37	0.12	mg/Kg		01/09/19 08:37	01/10/19 18:48	4
Cadmium	ND		0.46	0.046	mg/Kg		01/09/19 08:37	01/10/19 18:48	4
Chromium	**45**		1.9	0.20	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Cobalt	**11**		0.74	0.074	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Copper	**24**		5.6	2.6	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Lead	**12**		1.9	0.39	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Nickel	**72**		1.9	0.19	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Selenium	**1.4**	**J**	3.7	0.56	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Silver	ND		0.93	0.19	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Thallium	ND		1.9	0.54	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Vanadium	**27**		1.9	0.25	mg/Kg		01/09/19 08:37	01/09/19 18:26	4
Zinc	**52**		5.6	2.4	mg/Kg		01/09/19 08:37	01/09/19 18:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.016	0.0023	mg/Kg		01/21/19 14:13	01/21/19 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-AJ5S-0.5-1
Date Collected: 01/08/19 10:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-17
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	52	ug/Kg		01/08/19 18:00	01/11/19 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*	*01/08/19 18:00*	*01/11/19 11:43*	*1*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*	*01/08/19 18:00*	*01/11/19 11:43*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*01/08/19 18:00*	*01/11/19 11:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,1,1-Trichloroethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
2-Hexanone	ND		7.5	3.7	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
4-Isopropyltoluene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Benzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Bromobenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Bromoform	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Bromomethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Chloroethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Chloroform	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Chloromethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1

Client Sample ID: DG-AJ5S-0.5-1
Date Collected: 01/08/19 10:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-17
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Dibromomethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Naphthalene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
N-Propylbenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Styrene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Tetrachloroethene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Toluene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Trichloroethene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 11:43	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		01/08/19 18:00	01/11/19 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*01/08/19 18:00*	*01/11/19 11:43*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*01/08/19 18:00*	*01/11/19 11:43*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**17**	**J**	20	9.8	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Acenaphthene	**6.6**	**J**	9.8	5.5	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Acenaphthylene	**18**		9.8	4.7	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Anthracene	**38**		9.8	3.9	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Benzo[a]anthracene	**44**		9.8	2.9	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Benzo[a]pyrene	**64**		9.8	3.7	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Benzo[b]fluoranthene	**100**		9.8	4.1	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Benzo[g,h,i]perylene	**37**		9.8	8.4	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Benzo[k]fluoranthene	**42**		9.8	4.1	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Chrysene	**77**		9.8	2.8	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Dibenz(a,h)anthracene	**11**		9.8	6.9	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Fluoranthene	**76**		9.8	2.8	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Fluorene	ND		9.8	4.3	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Indeno[1,2,3-cd]pyrene	**29**		9.8	8.3	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Naphthalene	**18**		9.8	6.9	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Phenanthrene	**44**		9.8	3.5	ug/Kg		01/09/19 10:18	01/14/19 12:50	2
Pyrene	**79**		9.8	3.3	ug/Kg		01/09/19 10:18	01/14/19 12:50	2

Client Sample ID: DG-AJ5S-0.5-1

Date Collected: 01/08/19 10:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-17

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		33 - 120	01/09/19 10:18	01/14/19 12:50	2
Terphenyl-d14	100		35 - 146	01/09/19 10:18	01/14/19 12:50	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**51**	**B**	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 19:11	1
Motor Oil Range Organics [C24-C36]	**160**		49	9.8	mg/Kg		01/09/19 09:45	01/10/19 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	100		40 - 130	01/09/19 09:45	01/10/19 19:11	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
4,4'-DDE	**0.44**	**J p**	2.0	0.41	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Aldrin	ND		2.0	0.49	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Endrin	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/09/19 09:56	01/11/19 11:29	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 09:56	01/11/19 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		21 - 136	01/09/19 09:56	01/11/19 11:29	1
Tetrachloro-m-xylene	78		21 - 145	01/09/19 09:56	01/11/19 11:29	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:02	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:02	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:02	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:02	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:02	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:02	1
Aroclor 1260	**320**		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:02	1

Client Sample ID: DG-AJ5S-0.5-1

Date Collected: 01/08/19 10:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*01/10/19 13:06*	*01/11/19 20:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.0**	**J B**	1.3	0.21	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Arsenic	**2.6**		2.5	0.21	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Barium	**45**		1.3	0.18	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Beryllium	**0.086**	**J**	0.25	0.082	mg/Kg		01/09/19 08:37	01/10/19 18:52	4
Cadmium	**0.51**		0.31	0.031	mg/Kg		01/09/19 08:37	01/10/19 18:52	4
Chromium	**14**		1.3	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Cobalt	**9.4**		0.50	0.050	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Copper	**130**		3.8	1.8	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Lead	**41**		1.3	0.26	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Molybdenum	**0.53**	**J**	1.3	0.16	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Nickel	**7.7**		1.3	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Selenium	**1.6**	**J**	2.5	0.38	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Silver	ND		0.63	0.13	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Thallium	ND		1.3	0.36	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Vanadium	**87**		1.3	0.17	mg/Kg		01/09/19 08:37	01/09/19 18:31	4
Zinc	**120**		3.8	1.6	mg/Kg		01/09/19 08:37	01/09/19 18:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.016	0.0023	mg/Kg		01/21/19 14:13	01/21/19 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.1**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-AJ5S-3.5-4

Date Collected: 01/08/19 10:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-18

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	46	ug/Kg		01/09/19 18:00	01/14/19 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/09/19 18:00*	*01/14/19 11:21*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 18:00*	*01/14/19 11:21*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/09/19 18:00*	*01/14/19 11:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
2-Butanone (MEK)	**8.6**		6.6	3.3	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
2-Hexanone	ND		6.6	3.3	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Benzene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Bromobenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Bromoform	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Bromomethane	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Chloroethane	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Chloroform	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Chloromethane	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1

Client Sample ID: DG-AJ5S-3.5-4
Date Collected: 01/08/19 10:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-18
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Dibromomethane	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Naphthalene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Styrene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Toluene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Trichloroethene	ND		0.66	0.33	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Vinyl acetate	ND		5.3	2.6	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		01/09/19 18:00	01/14/19 11:21	1
Xylenes, Total	ND		1.3	0.86	ug/Kg		01/09/19 18:00	01/14/19 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*	*01/09/19 18:00*	*01/14/19 11:21*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/09/19 18:00*	*01/14/19 11:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**670**		20	9.8	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Acenaphthene	**81**		9.8	5.5	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Acenaphthylene	**100**		9.8	4.7	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Anthracene	**260**		9.8	3.9	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Benzo[a]anthracene	**380**		9.8	2.9	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Benzo[a]pyrene	**430**		9.8	3.7	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Benzo[b]fluoranthene	**610**		9.8	4.1	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Benzo[g,h,i]perylene	**130**		9.8	8.4	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Benzo[k]fluoranthene	**250**		9.8	4.1	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Chrysene	**610**		9.8	2.7	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Dibenz(a,h)anthracene	**36**		9.8	6.9	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Fluoranthene	**960**		9.8	2.7	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Fluorene	**100**		9.8	4.3	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Indeno[1,2,3-cd]pyrene	**120**		9.8	8.2	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Naphthalene	**630**		9.8	6.9	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Phenanthrene	**1000**		9.8	3.5	ug/Kg		01/09/19 10:18	01/14/19 13:14	2
Pyrene	**1100**		9.8	3.3	ug/Kg		01/09/19 10:18	01/14/19 13:14	2

Client Sample ID: DG-AJ5S-3.5-4

Date Collected: 01/08/19 10:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*33 - 120*	*01/09/19 10:18*	*01/14/19 13:14*	*2*
Terphenyl-d14	*98*		*35 - 146*	*01/09/19 10:18*	*01/14/19 13:14*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**600**	**B**	20	7.4	mg/Kg		01/09/19 09:45	01/10/19 23:39	10
Motor Oil Range Organics [C24-C36]	**1600**		490	98	mg/Kg		01/09/19 09:45	01/10/19 23:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/09/19 09:45*	*01/10/19 23:39*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Aldrin	ND		2.0	0.49	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Endrin	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/09/19 09:56	01/11/19 11:47	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 09:56	01/11/19 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*21 - 136*	*01/09/19 09:56*	*01/11/19 11:47*	*1*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/09/19 09:56*	*01/11/19 11:47*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 20:15	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 20:15	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 20:15	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 20:15	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 20:15	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 20:15	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 20:15	1

Client Sample ID: DG-AJ5S-3.5-4

Date Collected: 01/08/19 10:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*01/10/19 13:06*	*01/11/19 20:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**11**	**B**	3.6	0.59	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Arsenic	**620**		7.1	0.61	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Barium	**80**		1.4	0.20	mg/Kg		01/09/19 08:37	01/09/19 18:36	4
Beryllium	ND		0.71	0.23	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Cadmium	**2.1**		0.89	0.089	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Chromium	**29**		3.6	0.38	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Cobalt	**10**		1.4	0.14	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Copper	**150**		11	5.1	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Lead	**270**		3.6	0.75	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Molybdenum	**0.89**	**J**	1.4	0.18	mg/Kg		01/09/19 08:37	01/09/19 18:36	4
Nickel	**37**		3.6	0.36	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Selenium	**3.3**	**J**	7.1	1.1	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Silver	ND		1.8	0.36	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Thallium	ND		3.6	1.0	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Vanadium	**36**		3.6	0.49	mg/Kg		01/09/19 08:37	01/10/19 18:57	10
Zinc	**670**		11	4.5	mg/Kg		01/09/19 08:37	01/10/19 18:57	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.91**		0.016	0.0024	mg/Kg		01/21/19 14:13	01/21/19 16:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.4**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-P5S-0.5-1

Date Collected: 01/08/19 11:15
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-19

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	50	ug/Kg		01/08/19 18:00	01/11/19 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/08/19 18:00*	*01/11/19 14:05*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*79 - 120*	*01/08/19 18:00*	*01/11/19 14:05*	*1*
Toluene-d8 (Surr)	*135*	*X*	*79 - 123*	*01/08/19 18:00*	*01/11/19 14:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,1,1-Trichloroethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.6	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,1,2-Trichloroethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,1-Dichloroethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,1-Dichloropropene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,2,4-Trichlorobenzene	ND		3.6	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,2-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,2-Dichloroethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,2-Dichloropropane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,3-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,3-Dichloropropane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
1,4-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
2-Butanone (MEK)	ND		7.1	3.6	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
2-Hexanone	ND		7.1	3.6	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
4-Isopropyltoluene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Benzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Bromoform	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Chlorobenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Chlorodibromomethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Chloroform	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
cis-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1

Client Sample ID: DG-P5S-0.5-1
Date Collected: 01/08/19 11:15
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-19
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Dibromomethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Dichlorobromomethane	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Ethylbenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Ethylene Dibromide	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Isopropylbenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Methylene Chloride	ND		7.1	3.6	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
N-Propylbenzene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Styrene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Tetrachloroethene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Toluene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
trans-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
trans-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Trichloroethene	ND		0.71	0.36	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Vinyl acetate	ND		5.7	2.9	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/08/19 18:00	01/11/19 14:05	1
Xylenes, Total	ND		1.4	0.93	ug/Kg		01/08/19 18:00	01/11/19 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/08/19 18:00*	*01/11/19 14:05*	*1*
Toluene-d8 (Surr)	*135*	*X*	*79 - 123*	*01/08/19 18:00*	*01/11/19 14:05*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**34**		9.9	4.9	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Acenaphthene	**3.3**	**J**	4.9	2.8	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Acenaphthylene	**14**		4.9	2.4	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Anthracene	**27**		4.9	2.0	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Benzo[a]anthracene	**31**		4.9	1.5	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Benzo[a]pyrene	**46**		4.9	1.9	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Benzo[b]fluoranthene	**80**		4.9	2.1	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Benzo[g,h,i]perylene	**25**		4.9	4.2	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Benzo[k]fluoranthene	**25**		4.9	2.1	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Chrysene	**54**		4.9	1.4	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Dibenz(a,h)anthracene	**6.7**		4.9	3.5	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Fluoranthene	**58**		4.9	1.4	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Fluorene	**2.4**	**J**	4.9	2.2	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Indeno[1,2,3-cd]pyrene	**22**		4.9	4.1	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Naphthalene	**38**		4.9	3.5	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Phenanthrene	**47**		4.9	1.8	ug/Kg		01/09/19 10:18	01/14/19 14:01	1
Pyrene	**72**		4.9	1.7	ug/Kg		01/09/19 10:18	01/14/19 14:01	1

Client Sample ID: DG-P5S-0.5-1

Date Collected: 01/08/19 11:15
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*01/09/19 10:18*	*01/14/19 14:01*	*1*
Terphenyl-d14	*111*		*35 - 146*	*01/09/19 10:18*	*01/14/19 14:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**35**	**B**	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 19:35	1
Motor Oil Range Organics [C24-C36]	**110**		50	9.9	mg/Kg		01/09/19 09:45	01/10/19 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*01/09/19 09:45*	*01/10/19 19:35*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
4,4'-DDE	**0.88**	**J p**	2.0	0.41	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Aldrin	ND		2.0	0.49	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
alpha-Chlordane	**1.0**	**J**	2.0	0.39	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Endrin	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/09/19 09:56	01/11/19 12:04	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 09:56	01/11/19 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*21 - 136*	*01/09/19 09:56*	*01/11/19 12:04*	*1*
Tetrachloro-m-xylene	*80*		*21 - 145*	*01/09/19 09:56*	*01/11/19 12:04*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:29	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:29	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:29	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:29	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:29	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:29	1
Aroclor 1260	**110**		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:29	1

Client Sample ID: DG-P5S-0.5-1

Date Collected: 01/08/19 11:15
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*01/10/19 13:06*	*01/11/19 20:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.1**	**B**	1.4	0.24	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Arsenic	**42**		2.8	0.24	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Barium	**68**		1.4	0.20	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Beryllium	ND		0.28	0.092	mg/Kg		01/09/19 08:37	01/10/19 19:02	4
Cadmium	**1.1**		0.35	0.035	mg/Kg		01/09/19 08:37	01/10/19 19:02	4
Chromium	**24**		1.4	0.15	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Cobalt	**14**		0.57	0.057	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Copper	**180**		4.3	2.0	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Lead	**190**		1.4	0.30	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Molybdenum	**1.3**	**J**	1.4	0.18	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Nickel	**20**		1.4	0.14	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Selenium	**2.9**		2.8	0.43	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Silver	**0.26**	**J**	0.71	0.14	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Thallium	ND		1.4	0.41	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Vanadium	**100**		1.4	0.19	mg/Kg		01/09/19 08:37	01/09/19 18:40	4
Zinc	**220**		4.3	1.8	mg/Kg		01/09/19 08:37	01/09/19 18:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.015	0.0022	mg/Kg		01/21/19 14:13	01/21/19 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.4**		0.1	0.05	%			01/09/19 11:02	1

Client Sample ID: DG-P5S-3.5-4
Date Collected: 01/08/19 11:17
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-20
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		81	57	ug/Kg		01/08/19 18:00	01/11/19 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/08/19 18:00*	*01/11/19 14:34*	*1*
4-Bromofluorobenzene (Surr)	*115*		*79 - 120*	*01/08/19 18:00*	*01/11/19 14:34*	*1*
Toluene-d8 (Surr)	*126*	*X*	*79 - 123*	*01/08/19 18:00*	*01/11/19 14:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,1,1-Trichloroethane	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.1	4.1	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,1,2-Trichloroethane	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,1-Dichloroethane	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,1-Dichloroethene	ND		1.6	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,1-Dichloropropene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,2,3-Trichlorobenzene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,2,3-Trichloropropane	ND		8.1	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,2,4-Trichlorobenzene	ND		4.1	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,2,4-Trimethylbenzene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,2-Dichlorobenzene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,2-Dichloroethane	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,2-Dichloropropane	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,3,5-Trimethylbenzene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,3-Dichlorobenzene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,3-Dichloropropane	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
1,4-Dichlorobenzene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
2,2-Dichloropropane	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
2-Butanone (MEK)	ND		8.1	4.1	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
2-Chlorotoluene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
2-Hexanone	ND		8.1	4.1	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
4-Chlorotoluene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
4-Isopropyltoluene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.0	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Benzene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Bromobenzene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Bromoform	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Bromomethane	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Carbon disulfide	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Carbon tetrachloride	ND		1.6	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Chlorobenzene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Chlorobromomethane	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Chlorodibromomethane	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Chloroethane	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Chloroform	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Chloromethane	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
cis-1,2-Dichloroethene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1

Client Sample ID: DG-P5S-3.5-4
Date Collected: 01/08/19 11:17
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Dibromomethane	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Dichlorobromomethane	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Dichlorodifluoromethane	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Ethylbenzene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Ethylene Dibromide	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Hexachlorobutadiene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Isopropylbenzene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Methyl tert-butyl ether	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Methylene Chloride	ND		8.1	4.1	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Naphthalene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
n-Butylbenzene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
N-Propylbenzene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
sec-Butylbenzene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Styrene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
tert-Butylbenzene	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Tetrachloroethene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Toluene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
trans-1,2-Dichloroethene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
trans-1,3-Dichloropropene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Trichloroethene	ND		0.81	0.41	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Trichlorofluoromethane	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Vinyl acetate	ND		6.5	3.2	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Vinyl chloride	ND		1.6	0.81	ug/Kg		01/08/19 18:00	01/11/19 14:34	1
Xylenes, Total	ND		1.6	1.1	ug/Kg		01/08/19 18:00	01/11/19 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/08/19 18:00*	*01/11/19 14:34*	*1*
Toluene-d8 (Surr)	*126*	*X*	*79 - 123*	*01/08/19 18:00*	*01/11/19 14:34*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		48	24	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Acenaphthene	ND		24	13	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Acenaphthylene	ND		24	11	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Anthracene	**9.9**	**J**	24	9.5	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Benzo[a]anthracene	**29**		24	7.1	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Benzo[a]pyrene	**34**		24	9.0	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Benzo[b]fluoranthene	**62**		24	10	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Benzo[g,h,i]perylene	**27**		24	20	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Benzo[k]fluoranthene	**23**	**J**	24	10	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Chrysene	**41**		24	6.7	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Dibenz(a,h)anthracene	ND		24	17	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Fluoranthene	**37**		24	6.7	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Fluorene	ND		24	10	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Indeno[1,2,3-cd]pyrene	ND		24	20	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Naphthalene	**25**		24	17	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Phenanthrene	**30**		24	8.6	ug/Kg		01/15/19 10:12	01/17/19 16:19	5
Pyrene	**54**		24	8.1	ug/Kg		01/15/19 10:12	01/17/19 16:19	5

Client Sample ID: DG-P5S-3.5-4

Date Collected: 01/08/19 11:17
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-20

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		33 - 120	01/15/19 10:12	01/17/19 16:19	5
Terphenyl-d14	130		35 - 146	01/15/19 10:12	01/17/19 16:19	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	100	B	9.9	3.7	mg/Kg		01/09/19 09:45	01/10/19 21:13	5
Motor Oil Range Organics [C24-C36]	940		250	49	mg/Kg		01/09/19 09:45	01/10/19 21:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/09/19 09:45	01/10/19 21:13	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Aldrin	ND		1.9	0.49	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
alpha-BHC	ND		1.9	0.54	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Endosulfan II	ND		1.9	0.48	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Endrin	ND		1.9	0.45	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Endrin aldehyde	ND	*	1.9	0.61	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Methoxychlor	ND	*	1.9	0.66	ug/Kg		01/09/19 10:04	01/11/19 13:32	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 10:04	01/11/19 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		21 - 136	01/09/19 10:04	01/11/19 13:32	1
Tetrachloro-m-xylene	97		21 - 145	01/09/19 10:04	01/11/19 13:32	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:42	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:42	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:42	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:42	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:42	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:42	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:06	01/11/19 20:42	1

Client Sample ID: DG-P5S-3.5-4

Date Collected: 01/08/19 11:17
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*47*		*45 - 120*	*01/10/19 13:06*	*01/11/19 20:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J F1	1.5	0.25	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Arsenic	150		3.0	0.26	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Barium	100	F1 F2	1.5	0.22	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Beryllium	0.41		0.30	0.098	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Cadmium	0.24	J	0.38	0.038	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Chromium	26	B	1.5	0.16	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Cobalt	7.2		0.61	0.061	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Copper	35	F1	4.5	2.2	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Lead	170	^	1.5	0.32	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Molybdenum	0.19	J	1.5	0.19	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Nickel	34	B	1.5	0.15	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Selenium	1.1	J	3.0	0.45	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Silver	0.18	J	0.76	0.15	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Thallium	0.67	J	1.5	0.44	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Vanadium	26		1.5	0.21	mg/Kg		01/09/19 10:14	01/14/19 14:51	4
Zinc	120	F1	4.5	1.9	mg/Kg		01/09/19 10:14	01/14/19 14:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.016	0.0024	mg/Kg		01/10/19 13:58	01/10/19 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1	0.05	%			01/09/19 11:43	1

Client Sample ID: DG-N5S-0.5-1

Date Collected: 01/08/19 12:05
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-21

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		130	94	ug/Kg		01/08/19 18:00	01/11/19 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/08/19 18:00*	*01/11/19 15:02*	*1*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*	*01/08/19 18:00*	*01/11/19 15:02*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*01/08/19 18:00*	*01/11/19 15:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,1,1-Trichloroethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,1,2,2-Tetrachloroethane	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13	6.7	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,1,2-Trichloroethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,1-Dichloroethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,1-Dichloroethene	ND		2.7	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,1-Dichloropropene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,2,3-Trichlorobenzene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,2,3-Trichloropropane	ND		13	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,2,4-Trichlorobenzene	ND		6.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,2,4-Trimethylbenzene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,2-Dibromo-3-Chloropropane	ND		6.7	2.7	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,2-Dichlorobenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,2-Dichloroethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,2-Dichloropropane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,3,5-Trimethylbenzene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,3-Dichlorobenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,3-Dichloropropane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
1,4-Dichlorobenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
2,2-Dichloropropane	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
2-Butanone (MEK)	ND		13	6.7	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
2-Chlorotoluene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
2-Hexanone	ND		13	6.7	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
4-Chlorotoluene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
4-Isopropyltoluene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		6.7	3.4	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Benzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Bromobenzene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Bromoform	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Bromomethane	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Carbon disulfide	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Carbon tetrachloride	ND		2.7	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Chlorobenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Chlorobromomethane	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Chlorodibromomethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Chloroethane	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Chloroform	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Chloromethane	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
cis-1,2-Dichloroethene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1

Client Sample ID: DG-N5S-0.5-1
Date Collected: 01/08/19 12:05
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-21
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Dibromomethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Dichlorobromomethane	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Dichlorodifluoromethane	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Ethylbenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Ethylene Dibromide	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Hexachlorobutadiene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Isopropylbenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Methyl tert-butyl ether	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Methylene Chloride	ND		13	6.7	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Naphthalene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
n-Butylbenzene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
N-Propylbenzene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
sec-Butylbenzene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Styrene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
tert-Butylbenzene	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Tetrachloroethene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Toluene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
trans-1,2-Dichloroethene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
trans-1,3-Dichloropropene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Trichloroethene	ND		1.3	0.67	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Trichlorofluoromethane	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Vinyl acetate	ND		11	5.4	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Vinyl chloride	ND		2.7	1.3	ug/Kg		01/08/19 18:00	01/11/19 15:02	1
Xylenes, Total	ND		2.7	1.7	ug/Kg		01/08/19 18:00	01/11/19 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*01/08/19 18:00*	*01/11/19 15:02*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*01/08/19 18:00*	*01/11/19 15:02*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**27**		19	9.7	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Acenaphthene	ND		9.7	5.4	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Acenaphthylene	**24**		9.7	4.7	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Anthracene	**48**		9.7	3.9	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Benzo[a]anthracene	**88**		9.7	2.9	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Benzo[a]pyrene	**100**		9.7	3.7	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Benzo[b]fluoranthene	**170**		9.7	4.1	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Benzo[g,h,i]perylene	**58**	**F1**	9.7	8.3	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Benzo[k]fluoranthene	**67**		9.7	4.1	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Chrysene	**120**		9.7	2.7	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Dibenz(a,h)anthracene	**14**	**F1**	9.7	6.8	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Fluoranthene	**130**		9.7	2.7	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Fluorene	ND		9.7	4.3	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Indeno[1,2,3-cd]pyrene	**48**	**F1**	9.7	8.1	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Naphthalene	**23**		9.7	6.8	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Phenanthrene	**60**		9.7	3.5	ug/Kg		01/15/19 10:12	01/17/19 07:43	2
Pyrene	**140**		9.7	3.3	ug/Kg		01/15/19 10:12	01/17/19 07:43	2

Client Sample ID: DG-N5S-0.5-1

Date Collected: 01/08/19 12:05
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-21

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		33 - 120	01/15/19 10:12	01/17/19 07:43	2
Terphenyl-d14	127		35 - 146	01/15/19 10:12	01/17/19 07:43	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**68**	**B**	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 20:00	1
Motor Oil Range Organics [C24-C36]	**190**		50	9.9	mg/Kg		01/09/19 09:45	01/10/19 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	81		40 - 130	01/09/19 09:45	01/10/19 20:00	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
4,4'-DDE	**0.83**	**J p**	2.0	0.42	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Aldrin	ND		2.0	0.50	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Endrin	ND		2.0	0.46	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Endrin aldehyde	ND	*	2.0	0.63	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Methoxychlor	ND	*	2.0	0.68	ug/Kg		01/09/19 10:04	01/11/19 13:50	1
Toxaphene	ND		40	6.8	ug/Kg		01/09/19 10:04	01/11/19 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		21 - 136	01/09/19 10:04	01/11/19 13:50	1
Tetrachloro-m-xylene	91		21 - 145	01/09/19 10:04	01/11/19 13:50	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:29	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:29	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:29	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:29	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:29	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:29	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:29	1

Client Sample ID: DG-N5S-0.5-1

Date Collected: 01/08/19 12:05
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*01/10/19 13:10*	*01/11/19 18:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.3	0.21	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Arsenic	9.1		2.6	0.22	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Barium	99		1.3	0.18	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Beryllium	0.11	J	0.26	0.083	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Cadmium	0.85		0.32	0.032	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Chromium	36	B	1.3	0.14	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Cobalt	11		0.51	0.051	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Copper	110		3.8	1.8	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Lead	150	^	1.3	0.27	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Molybdenum	1.2	J	1.3	0.16	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Nickel	37	B	1.3	0.13	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Selenium	2.3	J	2.6	0.38	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Silver	ND		0.64	0.13	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Thallium	0.83	J	1.3	0.37	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Vanadium	68		1.3	0.17	mg/Kg		01/09/19 10:14	01/14/19 14:56	4
Zinc	210		3.8	1.6	mg/Kg		01/09/19 10:14	01/14/19 14:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.015	0.0022	mg/Kg		01/10/19 13:58	01/10/19 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.05	%			01/09/19 11:43	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-N5S-3.5-4
Date Collected: 01/08/19 12:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-22
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		59	41	ug/Kg		01/08/19 18:00	01/11/19 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/08/19 18:00*	*01/11/19 15:31*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*01/08/19 18:00*	*01/11/19 15:31*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/08/19 18:00*	*01/11/19 15:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,1,1-Trichloroethane	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.9	2.9	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,1,2-Trichloroethane	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,1-Dichloroethane	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,1-Dichloroethene	ND		1.2	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,1-Dichloropropene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,2,3-Trichlorobenzene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,2,3-Trichloropropane	ND		5.9	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,2,4-Trichlorobenzene	ND		2.9	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,2,4-Trimethylbenzene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,2-Dibromo-3-Chloropropane	ND		2.9	1.2	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,2-Dichlorobenzene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,2-Dichloroethane	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,2-Dichloropropane	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,3,5-Trimethylbenzene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,3-Dichlorobenzene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,3-Dichloropropane	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
1,4-Dichlorobenzene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
2,2-Dichloropropane	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
2-Butanone (MEK)	ND		5.9	2.9	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
2-Chlorotoluene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
2-Hexanone	ND		5.9	2.9	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
4-Chlorotoluene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
4-Isopropyltoluene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.9	1.5	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Benzene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Bromobenzene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Bromoform	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Bromomethane	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Carbon disulfide	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Carbon tetrachloride	ND		1.2	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Chlorobenzene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Chlorobromomethane	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Chlorodibromomethane	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Chloroethane	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Chloroform	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Chloromethane	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
cis-1,2-Dichloroethene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1

Client Sample ID: DG-N5S-3.5-4
Date Collected: 01/08/19 12:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-22
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Dibromomethane	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Dichlorobromomethane	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Dichlorodifluoromethane	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Ethylbenzene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Ethylene Dibromide	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Hexachlorobutadiene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Isopropylbenzene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Methyl tert-butyl ether	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Methylene Chloride	ND		5.9	2.9	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Naphthalene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
n-Butylbenzene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
N-Propylbenzene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
sec-Butylbenzene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Styrene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
tert-Butylbenzene	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Tetrachloroethene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Toluene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
trans-1,2-Dichloroethene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
trans-1,3-Dichloropropene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Trichloroethene	ND		0.59	0.29	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Trichlorofluoromethane	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Vinyl acetate	ND		4.7	2.4	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Vinyl chloride	ND		1.2	0.59	ug/Kg		01/08/19 18:00	01/11/19 15:31	1
Xylenes, Total	ND		1.2	0.77	ug/Kg		01/08/19 18:00	01/11/19 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/08/19 18:00*	*01/11/19 15:31*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/08/19 18:00*	*01/11/19 15:31*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.7	4.9	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Acenaphthylene	ND		4.9	2.3	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Anthracene	**2.1**	**J**	4.9	1.9	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Benzo[a]anthracene	**5.6**		4.9	1.5	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Benzo[a]pyrene	**4.4**	**J**	4.9	1.8	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Benzo[b]fluoranthene	**9.7**		4.9	2.0	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Benzo[g,h,i]perylene	**7.5**		4.9	4.2	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Benzo[k]fluoranthene	**3.0**	**J**	4.9	2.0	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Chrysene	**13**		4.9	1.4	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Fluoranthene	**11**		4.9	1.4	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Fluorene	ND		4.9	2.1	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Indeno[1,2,3-cd]pyrene	**4.8**	**J**	4.9	4.1	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Naphthalene	**5.0**		4.9	3.4	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Phenanthrene	**13**		4.9	1.7	ug/Kg		01/15/19 10:12	01/17/19 12:46	1
Pyrene	**12**		4.9	1.7	ug/Kg		01/15/19 10:12	01/17/19 12:46	1

Client Sample ID: DG-N5S-3.5-4

Date Collected: 01/08/19 12:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-22

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*01/15/19 10:12*	*01/17/19 12:46*	*1*
Terphenyl-d14	*120*		*35 - 146*	*01/15/19 10:12*	*01/17/19 12:46*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**38**	**B**	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 18:32	1
Motor Oil Range Organics [C24-C36]	**74**		49	9.8	mg/Kg		01/09/19 09:45	01/10/19 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*104*		*40 - 130*	*01/09/19 09:45*	*01/10/19 18:32*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Aldrin	ND		1.9	0.49	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
alpha-BHC	ND		1.9	0.54	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Endosulfan II	ND		1.9	0.48	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Endrin	ND		1.9	0.45	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Endrin aldehyde	ND	*	1.9	0.61	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Methoxychlor	ND	*	1.9	0.66	ug/Kg		01/09/19 10:04	01/11/19 14:07	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 10:04	01/11/19 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*21 - 136*	*01/09/19 10:04*	*01/11/19 14:07*	*1*
Tetrachloro-m-xylene	*86*		*21 - 145*	*01/09/19 10:04*	*01/11/19 14:07*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:42	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:42	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:42	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:42	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:42	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:42	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 18:42	1

Client Sample ID: DG-N5S-3.5-4

Date Collected: 01/08/19 12:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-22

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/10/19 13:10*	*01/11/19 18:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	16		3.5	0.59	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Arsenic	180		7.1	0.60	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Barium	700		3.5	0.50	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Beryllium	ND		0.71	0.23	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Cadmium	1.1		0.89	0.088	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Chromium	41	B	3.5	0.38	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Cobalt	8.9		1.4	0.14	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Copper	760		11	5.1	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Lead	1700	^	3.5	0.74	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Molybdenum	1.0	J	3.5	0.45	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Nickel	39	B	3.5	0.36	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Selenium	7.0	J	7.1	1.1	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Silver	2.3		1.8	0.36	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Thallium	1.3	J	3.5	1.0	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Vanadium	24		3.5	0.48	mg/Kg		01/09/19 10:14	01/15/19 11:50	10
Zinc	1600		11	4.5	mg/Kg		01/09/19 10:14	01/15/19 11:50	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.72		0.015	0.0023	mg/Kg		01/10/19 13:58	01/10/19 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.8		0.1	0.05	%			01/09/19 11:43	1

Client Sample ID: DUP-125

Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-23

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		64	45	ug/Kg		01/08/19 18:00	01/11/19 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/08/19 18:00*	*01/11/19 16:28*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*79 - 120*	*01/08/19 18:00*	*01/11/19 16:28*	*1*
Toluene-d8 (Surr)	*127*	*X*	*79 - 123*	*01/08/19 18:00*	*01/11/19 16:28*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,1,1-Trichloroethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	3.2	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,1,2-Trichloroethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,1-Dichloroethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,1-Dichloropropene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,2,3-Trichlorobenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,2,3-Trichloropropane	ND		6.4	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,2,4-Trichlorobenzene	ND		3.2	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,2,4-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,2-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,2-Dichloroethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,2-Dichloropropane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,3,5-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,3-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,3-Dichloropropane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
1,4-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
2,2-Dichloropropane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
2-Butanone (MEK)	ND		6.4	3.2	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
2-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
2-Hexanone	ND		6.4	3.2	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
4-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
4-Isopropyltoluene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Benzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Bromobenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Bromoform	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Bromomethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Carbon disulfide	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Chlorobenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Chlorobromomethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Chlorodibromomethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Chloroethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Chloroform	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Chloromethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
cis-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1

Client Sample ID: DUP-125
Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-23
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Dibromomethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Dichlorobromomethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Dichlorodifluoromethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Ethylbenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Ethylene Dibromide	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Hexachlorobutadiene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Isopropylbenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Methyl tert-butyl ether	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Methylene Chloride	ND		6.4	3.2	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Naphthalene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
n-Butylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
N-Propylbenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
sec-Butylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Styrene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
tert-Butylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Tetrachloroethene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Toluene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
trans-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
trans-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Trichloroethene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Trichlorofluoromethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Vinyl acetate	ND		5.1	2.6	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Vinyl chloride	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 16:28	1
Xylenes, Total	ND		1.3	0.84	ug/Kg		01/08/19 18:00	01/11/19 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*01/08/19 18:00*	*01/11/19 16:28*	*1*
Toluene-d8 (Surr)	*127*	*X*	*79 - 123*	*01/08/19 18:00*	*01/11/19 16:28*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**12**		9.8	4.9	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Acenaphthene	**3.3**	**J**	4.9	2.7	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Acenaphthylene	**28**		4.9	2.3	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Anthracene	**36**		4.9	2.0	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Benzo[a]anthracene	**40**		4.9	1.5	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Benzo[a]pyrene	**72**		4.9	1.9	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Benzo[b]fluoranthene	**87**		4.9	2.1	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Benzo[g,h,i]perylene	**68**		4.9	4.2	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Benzo[k]fluoranthene	**27**		4.9	2.1	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Chrysene	**68**		4.9	1.4	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Dibenz(a,h)anthracene	**8.1**		4.9	3.4	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Fluoranthene	**160**		4.9	1.4	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Fluorene	**4.2**	**J**	4.9	2.1	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Indeno[1,2,3-cd]pyrene	**47**		4.9	4.1	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Naphthalene	**16**		4.9	3.4	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Phenanthrene	**140**		4.9	1.8	ug/Kg		01/15/19 10:12	01/17/19 14:44	1
Pyrene	**230**		4.9	1.7	ug/Kg		01/15/19 10:12	01/17/19 14:44	1

Client Sample ID: DUP-125

Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-23

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*33 - 120*	*01/15/19 10:12*	*01/17/19 14:44*	*1*
Terphenyl-d14	*127*		*35 - 146*	*01/15/19 10:12*	*01/17/19 14:44*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**35**	**B**	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 20:29	1
Motor Oil Range Organics [C24-C36]	**86**		50	9.9	mg/Kg		01/09/19 09:45	01/10/19 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*116*		*40 - 130*	*01/09/19 09:45*	*01/10/19 20:29*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Endrin aldehyde	ND	*	1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Methoxychlor	ND	*	1.9	0.65	ug/Kg		01/09/19 10:04	01/11/19 14:25	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 10:04	01/11/19 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*21 - 136*	*01/09/19 10:04*	*01/11/19 14:25*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/09/19 10:04*	*01/11/19 14:25*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:10	01/14/19 16:12	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:10	01/14/19 16:12	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:10	01/14/19 16:12	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:10	01/14/19 16:12	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:10	01/14/19 16:12	1
Aroclor 1254	**200**		49	17	ug/Kg		01/10/19 13:10	01/14/19 16:12	1
Aroclor 1260	**160**		49	17	ug/Kg		01/10/19 13:10	01/14/19 16:12	1

Client Sample ID: DUP-125

Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-23

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*01/10/19 13:10*	*01/14/19 16:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3		1.1	0.19	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Arsenic	62		2.2	0.19	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Barium	56		1.1	0.16	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Beryllium	ND		0.22	0.073	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Cadmium	0.24	J	0.28	0.028	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Chromium	12	B	1.1	0.12	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Cobalt	13		0.45	0.045	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Copper	130		3.4	1.6	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Lead	66	^	1.1	0.23	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Molybdenum	0.55	J	1.1	0.14	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Nickel	9.9	B	1.1	0.11	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Selenium	1.4	J	2.2	0.34	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Silver	0.13	J	0.56	0.11	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Thallium	0.76	J	1.1	0.32	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Vanadium	96		1.1	0.15	mg/Kg		01/09/19 10:14	01/14/19 15:05	4
Zinc	130		3.4	1.4	mg/Kg		01/09/19 10:14	01/14/19 15:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.016	0.0024	mg/Kg		01/10/19 13:58	01/10/19 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			01/09/19 11:43	1

Client Sample ID: DG-O7S-0.5-1

Date Collected: 01/08/19 13:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-24

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		110	75	ug/Kg		01/08/19 18:00	01/11/19 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/08/19 18:00*	*01/11/19 16:56*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*01/08/19 18:00*	*01/11/19 16:56*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*01/08/19 18:00*	*01/11/19 16:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,1,1-Trichloroethane	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.4	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,1,2-Trichloroethane	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,1-Dichloroethane	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,1-Dichloroethene	ND		2.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,1-Dichloropropene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,2,3-Trichlorobenzene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,2,4-Trichlorobenzene	ND		5.4	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,2,4-Trimethylbenzene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,2-Dibromo-3-Chloropropane	ND		5.4	2.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,2-Dichlorobenzene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,2-Dichloroethane	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,2-Dichloropropane	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,3,5-Trimethylbenzene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,3-Dichlorobenzene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,3-Dichloropropane	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
1,4-Dichlorobenzene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
2,2-Dichloropropane	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
2-Butanone (MEK)	ND		11	5.4	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
2-Chlorotoluene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
2-Hexanone	ND		11	5.4	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
4-Chlorotoluene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
4-Isopropyltoluene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.4	2.7	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Benzene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Bromobenzene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Bromoform	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Bromomethane	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Carbon disulfide	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Carbon tetrachloride	ND		2.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Chlorobenzene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Chlorobromomethane	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Chlorodibromomethane	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Chloroethane	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Chloroform	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Chloromethane	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
cis-1,2-Dichloroethene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1

Client Sample ID: DG-O7S-0.5-1

Date Collected: 01/08/19 13:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-24

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Dibromomethane	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Dichlorobromomethane	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Dichlorodifluoromethane	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Ethylbenzene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Ethylene Dibromide	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Hexachlorobutadiene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Isopropylbenzene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Methyl tert-butyl ether	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Methylene Chloride	ND		11	5.4	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Naphthalene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
n-Butylbenzene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
N-Propylbenzene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
sec-Butylbenzene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Styrene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
tert-Butylbenzene	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Tetrachloroethene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Toluene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
trans-1,2-Dichloroethene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
trans-1,3-Dichloropropene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Trichloroethene	ND		1.1	0.54	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Trichlorofluoromethane	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Vinyl acetate	ND		8.6	4.3	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Vinyl chloride	ND		2.1	1.1	ug/Kg		01/08/19 18:00	01/11/19 16:56	1
Xylenes, Total	ND		2.1	1.4	ug/Kg		01/08/19 18:00	01/11/19 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*01/08/19 18:00*	*01/11/19 16:56*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*01/08/19 18:00*	*01/11/19 16:56*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		49	25	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Acenaphthene	ND		25	14	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Acenaphthylene	ND		25	12	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Anthracene	ND		25	9.8	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Benzo[a]anthracene	ND		25	7.4	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Benzo[a]pyrene	**49**		25	9.3	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Benzo[b]fluoranthene	ND		25	10	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Benzo[g,h,i]perylene	**62**		25	21	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Benzo[k]fluoranthene	ND		25	10	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Chrysene	**24**	**J**	25	6.9	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Dibenz(a,h)anthracene	ND		25	17	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Fluoranthene	ND		25	6.9	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Fluorene	ND		25	11	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Indeno[1,2,3-cd]pyrene	ND		25	21	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Naphthalene	ND		25	17	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Phenanthrene	**22**	**J**	25	8.8	ug/Kg		01/15/19 10:12	01/18/19 14:30	5
Pyrene	**38**		25	8.3	ug/Kg		01/15/19 10:12	01/18/19 14:30	5

Client Sample ID: DG-O7S-0.5-1

Date Collected: 01/08/19 13:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-24

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		33 - 120	01/15/19 10:12	01/18/19 14:30	5
Terphenyl-d14	117		35 - 146	01/15/19 10:12	01/18/19 14:30	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170	B	6.0	2.2	mg/Kg		01/09/19 09:45	01/10/19 23:25	3
Motor Oil Range Organics [C24-C36]	550		150	30	mg/Kg		01/09/19 09:45	01/10/19 23:25	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	123		40 - 130	01/09/19 09:45	01/10/19 23:25	3

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
4,4'-DDT	1.4	J p	1.9	0.39	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Endrin aldehyde	ND	*	1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Methoxychlor	ND	*	1.9	0.65	ug/Kg		01/09/19 10:04	01/11/19 14:42	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 10:04	01/11/19 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		21 - 136	01/09/19 10:04	01/11/19 14:42	1
Tetrachloro-m-xylene	94		21 - 145	01/09/19 10:04	01/11/19 14:42	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:10	01/14/19 16:25	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:10	01/14/19 16:25	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:10	01/14/19 16:25	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:10	01/14/19 16:25	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:10	01/14/19 16:25	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:10	01/14/19 16:25	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:10	01/14/19 16:25	1

Client Sample ID: DG-O7S-0.5-1

Date Collected: 01/08/19 13:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*42*	*X*	*45 - 120*	*01/10/19 13:10*	*01/14/19 16:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5	0.24	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Arsenic	**0.93**	**J**	2.9	0.25	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Barium	**34**		1.5	0.21	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Beryllium	ND		0.29	0.096	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Cadmium	ND		0.37	0.036	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Chromium	**8.1**	**B**	1.5	0.16	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Cobalt	**11**		0.59	0.059	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Copper	**97**		4.4	2.1	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Lead	**1.2**	**J**	1.5	0.31	mg/Kg		01/09/19 10:14	01/16/19 12:36	4
Molybdenum	ND		1.5	0.19	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Nickel	**3.9**	**B**	1.5	0.15	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Selenium	**0.60**	**J**	2.9	0.44	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Silver	ND		0.74	0.15	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Thallium	**1.5**		1.5	0.43	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Vanadium	**110**		1.5	0.20	mg/Kg		01/09/19 10:14	01/14/19 15:19	4
Zinc	**36**		4.4	1.9	mg/Kg		01/09/19 10:14	01/14/19 15:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.069**		0.016	0.0024	mg/Kg		01/10/19 13:58	01/10/19 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.05	%			01/09/19 11:43	1

Client Sample ID: DG-O7S-3.5-4

Date Collected: 01/08/19 13:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-25

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		64	45	ug/Kg		01/08/19 18:00	01/11/19 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*128*	*X*	*60 - 120*	*01/08/19 18:00*	*01/11/19 17:25*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*79 - 120*	*01/08/19 18:00*	*01/11/19 17:25*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*	*01/08/19 18:00*	*01/11/19 17:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,1,1-Trichloroethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	3.2	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,1,2-Trichloroethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,1-Dichloroethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,1-Dichloropropene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,2,3-Trichlorobenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,2,3-Trichloropropane	ND		6.4	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,2,4-Trichlorobenzene	ND		3.2	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,2,4-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,2-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,2-Dichloroethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,2-Dichloropropane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,3,5-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,3-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,3-Dichloropropane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
1,4-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
2,2-Dichloropropane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
2-Butanone (MEK)	ND		6.4	3.2	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
2-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
2-Hexanone	ND		6.4	3.2	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
4-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
4-Isopropyltoluene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Benzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Bromobenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Bromoform	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Bromomethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Carbon disulfide	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Chlorobenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Chlorobromomethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Chlorodibromomethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Chloroethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Chloroform	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Chloromethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
cis-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1

Client Sample ID: DG-O7S-3.5-4

Date Collected: 01/08/19 13:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-25

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Dibromomethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Dichlorobromomethane	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Dichlorodifluoromethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Ethylbenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Ethylene Dibromide	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Hexachlorobutadiene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Isopropylbenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Methyl tert-butyl ether	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Methylene Chloride	ND		6.4	3.2	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Naphthalene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
n-Butylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
N-Propylbenzene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
sec-Butylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Styrene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
tert-Butylbenzene	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Tetrachloroethene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Toluene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
trans-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
trans-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Trichloroethene	ND		0.64	0.32	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Trichlorofluoromethane	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Vinyl acetate	ND		5.1	2.6	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Vinyl chloride	ND		1.3	0.64	ug/Kg		01/08/19 18:00	01/11/19 17:25	1
Xylenes, Total	ND		1.3	0.83	ug/Kg		01/08/19 18:00	01/11/19 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*	*01/08/19 18:00*	*01/11/19 17:25*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*	*01/08/19 18:00*	*01/11/19 17:25*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.7	4.8	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Anthracene	ND		4.8	1.9	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Benzo[a]anthracene	**4.0**	**J**	4.8	1.5	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Benzo[a]pyrene	**4.4**	**J**	4.8	1.8	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Benzo[b]fluoranthene	**6.5**		4.8	2.0	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Benzo[g,h,i]perylene	**5.9**		4.8	4.2	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Benzo[k]fluoranthene	**2.4**	**J**	4.8	2.0	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Chrysene	**6.4**		4.8	1.4	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Fluoranthene	**7.0**		4.8	1.4	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Fluorene	ND		4.8	2.1	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.1	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Naphthalene	ND		4.8	3.4	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Phenanthrene	**5.6**		4.8	1.7	ug/Kg		01/15/19 10:12	01/17/19 13:57	1
Pyrene	**11**		4.8	1.6	ug/Kg		01/15/19 10:12	01/17/19 13:57	1

Client Sample ID: DG-O7S-3.5-4

Date Collected: 01/08/19 13:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-25

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*01/15/19 10:12*	*01/17/19 13:57*	*1*
Terphenyl-d14	*135*		*35 - 146*	*01/15/19 10:12*	*01/17/19 13:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**63**	**B**	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 20:58	1
Motor Oil Range Organics [C24-C36]	**170**		49	9.8	mg/Kg		01/09/19 09:45	01/10/19 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*110*		*40 - 130*	*01/09/19 09:45*	*01/10/19 20:58*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Endrin aldehyde	ND	*	1.9	0.61	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Methoxychlor	ND	*	1.9	0.66	ug/Kg		01/09/19 10:04	01/11/19 15:00	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 10:04	01/11/19 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*21 - 136*	*01/09/19 10:04*	*01/11/19 15:00*	*1*
Tetrachloro-m-xylene	*89*		*21 - 145*	*01/09/19 10:04*	*01/11/19 15:00*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:22	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:22	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:22	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:22	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:22	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:22	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:22	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-O7S-3.5-4

Date Collected: 01/08/19 13:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-25

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*01/10/19 13:10*	*01/11/19 19:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.42**	**J**	1.3	0.21	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Arsenic	**1.5**	**J**	2.6	0.22	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Barium	**32**		1.3	0.18	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Beryllium	ND		0.26	0.083	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Cadmium	ND		0.32	0.032	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Chromium	**19**	**B**	1.3	0.14	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Cobalt	**12**		0.51	0.051	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Copper	**94**		3.8	1.8	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Lead	**5.9**		1.3	0.27	mg/Kg		01/09/19 10:14	01/16/19 12:40	4
Molybdenum	ND		1.3	0.16	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Nickel	**11**	**B**	1.3	0.13	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Selenium	**0.64**	**J**	2.6	0.38	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Silver	ND		0.64	0.13	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Thallium	**1.5**		1.3	0.37	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Vanadium	**110**		1.3	0.17	mg/Kg		01/09/19 10:14	01/14/19 15:24	4
Zinc	**38**		3.8	1.6	mg/Kg		01/09/19 10:14	01/14/19 15:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.076**		0.017	0.0025	mg/Kg		01/10/19 13:58	01/10/19 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.8**		0.1	0.05	%			01/09/19 11:43	1

Client Sample ID: DG-Q7S-0.5-1

Date Collected: 01/08/19 13:43
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-26

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		01/08/19 18:00	01/11/19 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*	*01/08/19 18:00*	*01/11/19 17:53*	*1*
4-Bromofluorobenzene (Surr)	*115*		*79 - 120*	*01/08/19 18:00*	*01/11/19 17:53*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*01/08/19 18:00*	*01/11/19 17:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Benzene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Bromoform	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Chloroform	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1

Client Sample ID: DG-Q7S-0.5-1
Date Collected: 01/08/19 13:43
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-26
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Styrene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Toluene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/08/19 18:00	01/11/19 17:53	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/08/19 18:00	01/11/19 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/08/19 18:00*	*01/11/19 17:53*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*01/08/19 18:00*	*01/11/19 17:53*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**68**		48	24	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Acenaphthene	ND		24	13	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Acenaphthylene	**64**		24	12	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Anthracene	**180**		24	9.6	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Benzo[a]anthracene	**85**		24	7.2	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Benzo[a]pyrene	**120**		24	9.1	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Benzo[b]fluoranthene	**200**		24	10	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Benzo[g,h,i]perylene	**170**		24	21	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Benzo[k]fluoranthene	**66**		24	10	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Chrysene	**160**		24	6.7	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Dibenz(a,h)anthracene	**26**		24	17	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Fluoranthene	**190**		24	6.7	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Fluorene	**12**	**J**	24	11	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Indeno[1,2,3-cd]pyrene	**93**		24	20	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Naphthalene	**49**		24	17	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Phenanthrene	**180**		24	8.7	ug/Kg		01/15/19 10:12	01/17/19 15:08	5
Pyrene	**230**		24	8.2	ug/Kg		01/15/19 10:12	01/17/19 15:08	5

Client Sample ID: DG-Q7S-0.5-1

Date Collected: 01/08/19 13:43
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-26

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*33 - 120*	*01/15/19 10:12*	*01/17/19 15:08*	*5*
Terphenyl-d14	*124*		*35 - 146*	*01/15/19 10:12*	*01/17/19 15:08*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**270**	**B**	3.9	1.5	mg/Kg		01/09/19 09:45	01/10/19 22:55	2
Motor Oil Range Organics [C24-C36]	**530**		99	20	mg/Kg		01/09/19 09:45	01/10/19 22:55	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*01/09/19 09:45*	*01/10/19 22:55*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Aldrin	ND		2.0	0.49	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Endrin	ND		2.0	0.45	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Endrin aldehyde	ND	*	2.0	0.62	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Methoxychlor	ND	*	2.0	0.66	ug/Kg		01/09/19 10:04	01/11/19 15:17	1
Toxaphene	ND		39	6.7	ug/Kg		01/09/19 10:04	01/11/19 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*	*p*	*21 - 136*	*01/09/19 10:04*	*01/11/19 15:17*	*1*
Tetrachloro-m-xylene	*73*		*21 - 145*	*01/09/19 10:04*	*01/11/19 15:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 19:36	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 19:36	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 19:36	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 19:36	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 19:36	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 19:36	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 19:36	1

Client Sample ID: DG-Q7S-0.5-1

Date Collected: 01/08/19 13:43
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-26

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*45 - 120*	*01/10/19 13:10*	*01/11/19 19:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.7		1.3	0.22	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Arsenic	15		2.6	0.22	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Barium	150		1.3	0.19	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Beryllium	0.11	J	0.26	0.086	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Cadmium	3.8		0.33	0.033	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Chromium	42	B	1.3	0.14	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Cobalt	9.3		0.53	0.053	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Copper	270		3.9	1.9	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Lead	760	^	1.3	0.28	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Molybdenum	3.8		1.3	0.17	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Nickel	42	B	1.3	0.13	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Selenium	1.8	J	2.6	0.39	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Silver	0.57	J	0.66	0.13	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Thallium	0.59	J	1.3	0.38	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Vanadium	40		1.3	0.18	mg/Kg		01/09/19 10:14	01/14/19 15:29	4
Zinc	570		3.9	1.7	mg/Kg		01/09/19 10:14	01/14/19 15:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.015	0.0021	mg/Kg		01/10/19 13:58	01/10/19 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.1	0.05	%			01/09/19 11:43	1

Client Sample ID: DG-Q7S-3.5-4

Date Collected: 01/08/19 13:45
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-27

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	52	ug/Kg		01/08/19 18:00	01/11/19 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/08/19 18:00*	*01/11/19 09:25*	*1*
4-Bromofluorobenzene (Surr)	*119*		*79 - 120*	*01/08/19 18:00*	*01/11/19 09:25*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*01/08/19 18:00*	*01/11/19 09:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,1,1-Trichloroethane	ND	F2	0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,1-Dichloroethene	ND	F2	1.5	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
2,2-Dichloropropane	ND	F2	1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
2-Hexanone	ND		7.5	3.7	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
4-Isopropyltoluene	ND	F2	0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Benzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Bromobenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Bromoform	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Bromomethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Carbon disulfide	ND	F2	1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Chloroethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Chloroform	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Chloromethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1

Client Sample ID: DG-Q7S-3.5-4

Date Collected: 01/08/19 13:45
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-27

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Dibromomethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Naphthalene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
N-Propylbenzene	ND	F2	0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
sec-Butylbenzene	ND	F2	1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Styrene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
tert-Butylbenzene	ND	F2	1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Tetrachloroethene	ND	F2	0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Toluene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Trichloroethene	ND		0.75	0.37	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		01/08/19 18:00	01/11/19 09:25	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		01/08/19 18:00	01/11/19 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*01/08/19 18:00*	*01/11/19 09:25*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*01/08/19 18:00*	*01/11/19 09:25*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**27**		9.9	4.9	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Acenaphthylene	**7.5**		4.9	2.4	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Anthracene	**20**		4.9	2.0	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Benzo[a]anthracene	**11**		4.9	1.5	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Benzo[a]pyrene	**11**		4.9	1.9	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Benzo[b]fluoranthene	**32**		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Benzo[g,h,i]perylene	**13**	**F1**	4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Benzo[k]fluoranthene	**9.4**		4.9	2.1	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Chrysene	**27**		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Dibenz(a,h)anthracene	**4.4**	**J F1**	4.9	3.5	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Fluoranthene	**28**		4.9	1.4	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Fluorene	ND		4.9	2.2	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Indeno[1,2,3-cd]pyrene	**10**	**F1**	4.9	4.2	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Naphthalene	**40**		4.9	3.5	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Phenanthrene	**44**		4.9	1.8	ug/Kg		01/09/19 10:18	01/11/19 18:00	1
Pyrene	**27**		4.9	1.7	ug/Kg		01/09/19 10:18	01/11/19 18:00	1

Client Sample ID: DG-Q7S-3.5-4

Date Collected: 01/08/19 13:45
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-27

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*01/09/19 10:18*	*01/11/19 18:00*	*1*
Terphenyl-d14	*97*		*35 - 146*	*01/09/19 10:18*	*01/11/19 18:00*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**61**	**B**	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 18:47	1
Motor Oil Range Organics [C24-C36]	**150**		50	9.9	mg/Kg		01/09/19 09:45	01/10/19 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*40 - 130*	*01/09/19 09:45*	*01/10/19 18:47*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
gamma-BHC (Lindane)	ND	F1	1.9	0.60	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/09/19 09:56	01/10/19 19:03	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 09:56	01/10/19 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*21 - 136*	*01/09/19 09:56*	*01/10/19 19:03*	*1*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/09/19 09:56*	*01/10/19 19:03*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 18:16	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 18:16	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 18:16	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 18:16	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 18:16	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 18:16	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 18:16	1

Client Sample ID: DG-Q7S-3.5-4

Date Collected: 01/08/19 13:45
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-27

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*01/10/19 13:10*	*01/11/19 18:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**18**	**B F1 F2**	1.8	0.30	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Arsenic	**12**		3.6	0.31	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Barium	**51**	**F1**	1.8	0.26	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Beryllium	ND	F2	0.36	0.12	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Cadmium	**1.7**		0.45	0.045	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Chromium	**17**	**F1**	1.8	0.19	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Cobalt	**4.5**	**F2**	0.73	0.073	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Copper	**210**		5.5	2.6	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Lead	**940**	**^**	1.8	0.38	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Molybdenum	**0.39**	**J F2**	1.8	0.23	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Nickel	**13**	**F1 F2**	1.8	0.19	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Selenium	**2.0**	**J F2**	3.6	0.55	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Silver	**0.42**	**J**	0.91	0.18	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Thallium	ND		1.8	0.53	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Vanadium	**27**	**F1 F2**	1.8	0.25	mg/Kg		01/09/19 08:37	01/09/19 16:51	4
Zinc	**900**		5.5	2.3	mg/Kg		01/09/19 08:37	01/09/19 16:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**		0.015	0.0022	mg/Kg		01/21/19 14:13	01/21/19 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.4**		0.1	0.05	%			01/09/19 11:43	1

Client Sample ID: DUP-44
Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-28
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	50	ug/Kg		01/08/19 18:00	01/11/19 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/08/19 18:00*	*01/11/19 18:21*	*1*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*	*01/08/19 18:00*	*01/11/19 18:21*	*1*
Toluene-d8 (Surr)	*150*	*X*	*79 - 123*	*01/08/19 18:00*	*01/11/19 18:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,2,4-Trichlorobenzene	ND		3.6	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,2,4-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,3,5-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
2,2-Dichloropropane	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
2-Butanone (MEK)	ND		7.2	3.6	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
2-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
2-Hexanone	ND		7.2	3.6	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
4-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
4-Isopropyltoluene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Benzene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Bromobenzene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Bromoform	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Bromomethane	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Chloroethane	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Chloroform	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Chloromethane	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1

Client Sample ID: DUP-44
Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-28
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Dibromomethane	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Hexachlorobutadiene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Naphthalene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
n-Butylbenzene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
N-Propylbenzene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
sec-Butylbenzene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Styrene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
tert-Butylbenzene	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Tetrachloroethene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Toluene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Trichloroethene	ND		0.72	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Vinyl acetate	ND		5.7	2.9	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		01/08/19 18:00	01/11/19 18:21	1
Xylenes, Total	ND		1.4	0.93	ug/Kg		01/08/19 18:00	01/11/19 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*01/08/19 18:00*	*01/11/19 18:21*	*1*
Toluene-d8 (Surr)	*150*	*X*	*79 - 123*	*01/08/19 18:00*	*01/11/19 18:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**57**		48	24	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Acenaphthene	ND		24	13	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Acenaphthylene	**45**		24	11	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Anthracene	**140**		24	9.6	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Benzo[a]anthracene	**67**		24	7.2	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Benzo[a]pyrene	**89**		24	9.1	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Benzo[b]fluoranthene	**160**		24	10	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Benzo[g,h,i]perylene	**80**		24	21	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Benzo[k]fluoranthene	**52**		24	10	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Chrysene	**120**		24	6.7	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Dibenz(a,h)anthracene	ND		24	17	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Fluoranthene	**120**		24	6.7	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Fluorene	ND		24	11	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Indeno[1,2,3-cd]pyrene	**57**		24	20	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Naphthalene	**40**		24	17	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Phenanthrene	**90**		24	8.6	ug/Kg		01/15/19 10:12	01/17/19 15:31	5
Pyrene	**150**		24	8.1	ug/Kg		01/15/19 10:12	01/17/19 15:31	5

Client Sample ID: DUP-44
Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-28
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*33 - 120*	*01/15/19 10:12*	*01/17/19 15:31*	*5*
Terphenyl-d14	*127*		*35 - 146*	*01/15/19 10:12*	*01/17/19 15:31*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**280**	**B**	3.9	1.5	mg/Kg		01/09/19 09:45	01/10/19 22:55	2
Motor Oil Range Organics [C24-C36]	**520**		98	20	mg/Kg		01/09/19 09:45	01/10/19 22:55	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*69*		*40 - 130*	*01/09/19 09:45*	*01/10/19 22:55*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
4,4'-DDE	**5.1**	**p**	1.9	0.40	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
alpha-Chlordane	**1.6**	**J p**	1.9	0.38	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Endrin aldehyde	ND	*	1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Methoxychlor	ND	*	1.9	0.65	ug/Kg		01/09/19 10:04	01/11/19 15:35	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 10:04	01/11/19 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*	*p*	*21 - 136*	*01/09/19 10:04*	*01/11/19 15:35*	*1*
Tetrachloro-m-xylene	*39*	*p*	*21 - 145*	*01/09/19 10:04*	*01/11/19 15:35*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:49	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:49	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:49	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:49	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:49	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:49	1
Aroclor 1260	**520**		49	17	ug/Kg		01/10/19 13:10	01/11/19 19:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DUP-44

Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-28

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*119*		*45 - 120*	*01/10/19 13:10*	*01/11/19 19:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.6		1.2	0.20	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Arsenic	11		2.5	0.21	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Barium	130		1.2	0.17	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Beryllium	0.092	J	0.25	0.080	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Cadmium	2.4		0.31	0.030	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Chromium	49	B	1.2	0.13	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Cobalt	8.6		0.49	0.049	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Copper	210		3.7	1.7	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Lead	390	^	1.2	0.26	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Molybdenum	3.2		1.2	0.16	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Nickel	66	B	1.2	0.13	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Selenium	1.6	J	2.5	0.37	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Silver	0.39	J	0.61	0.12	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Thallium	ND		1.2	0.36	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Vanadium	35		1.2	0.17	mg/Kg		01/09/19 10:14	01/14/19 15:33	4
Zinc	410		3.7	1.6	mg/Kg		01/09/19 10:14	01/14/19 15:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.015	0.0022	mg/Kg		01/10/19 13:58	01/10/19 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.1	0.05	%			01/09/19 11:43	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-S7S-0.5-1
Date Collected: 01/08/19 14:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-29
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		73	51	ug/Kg		01/08/19 18:00	01/11/19 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/08/19 18:00*	*01/11/19 18:50*	*1*
4-Bromofluorobenzene (Surr)	*134*	*X*	*79 - 120*	*01/08/19 18:00*	*01/11/19 18:50*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*01/08/19 18:00*	*01/11/19 18:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
2-Hexanone	ND		7.3	3.6	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
4-Isopropyltoluene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Benzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Bromoform	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Chloroform	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1

Client Sample ID: DG-S7S-0.5-1
Date Collected: 01/08/19 14:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-29
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Dibromomethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Styrene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Tetrachloroethene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Toluene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Trichloroethene	ND		0.73	0.36	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/08/19 18:00	01/11/19 18:50	1
Xylenes, Total	ND		1.5	0.95	ug/Kg		01/08/19 18:00	01/11/19 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/08/19 18:00*	*01/11/19 18:50*	*1*
Toluene-d8 (Surr)	*122*		*79 - 123*	*01/08/19 18:00*	*01/11/19 18:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**33**	**J**	48	24	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Acenaphthene	ND		24	14	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Acenaphthylene	**49**		24	12	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Anthracene	**89**		24	9.6	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Benzo[a]anthracene	**85**		24	7.2	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Benzo[a]pyrene	**120**		24	9.2	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Benzo[b]fluoranthene	**180**		24	10	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Benzo[g,h,i]perylene	**90**		24	21	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Benzo[k]fluoranthene	**67**		24	10	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Chrysene	**140**		24	6.8	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Dibenz(a,h)anthracene	**19**	**J**	24	17	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Fluoranthene	**160**		24	6.8	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Fluorene	ND		24	11	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Indeno[1,2,3-cd]pyrene	**61**		24	20	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Naphthalene	**32**		24	17	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Phenanthrene	**100**		24	8.7	ug/Kg		01/15/19 10:12	01/17/19 15:55	5
Pyrene	**200**		24	8.2	ug/Kg		01/15/19 10:12	01/17/19 15:55	5

Client Sample ID: DG-S7S-0.5-1

Date Collected: 01/08/19 14:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-29

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		33 - 120	01/15/19 10:12	01/17/19 15:55	5
Terphenyl-d14	118		35 - 146	01/15/19 10:12	01/17/19 15:55	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**260**	**B**	9.8	3.7	mg/Kg		01/09/19 09:45	01/10/19 23:25	5
Motor Oil Range Organics [C24-C36]	**710**		250	49	mg/Kg		01/09/19 09:45	01/10/19 23:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/09/19 09:45	01/10/19 23:25	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Endrin aldehyde	ND	*	1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Methoxychlor	ND	*	1.9	0.65	ug/Kg		01/09/19 10:04	01/11/19 15:13	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 10:04	01/11/19 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	157	X	21 - 136	01/09/19 10:04	01/11/19 15:13	1
Tetrachloro-m-xylene	83		21 - 145	01/09/19 10:04	01/11/19 15:13	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:02	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:02	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:02	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:02	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:02	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:02	1
Aroclor 1260	**380**		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:02	1

Client Sample ID: DG-S7S-0.5-1

Date Collected: 01/08/19 14:20
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-29

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*116*		*45 - 120*	*01/10/19 13:10*	*01/11/19 20:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.3**		1.1	0.19	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Arsenic	**8.8**		2.3	0.20	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Barium	**150**		1.1	0.16	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Beryllium	ND		0.23	0.075	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Cadmium	**0.98**		0.29	0.029	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Chromium	**31**	**B**	1.1	0.12	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Cobalt	**10**		0.46	0.046	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Copper	**160**		3.4	1.6	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Lead	**200**	**^**	1.1	0.24	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Molybdenum	**1.6**		1.1	0.15	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Nickel	**27**	**B**	1.1	0.12	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Selenium	**2.8**		2.3	0.34	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Silver	**0.22**	**J**	0.57	0.12	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Thallium	**0.33**	**J**	1.1	0.33	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Vanadium	**57**		1.1	0.16	mg/Kg		01/09/19 10:14	01/14/19 15:38	4
Zinc	**280**		3.4	1.5	mg/Kg		01/09/19 10:14	01/14/19 15:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**		0.016	0.0023	mg/Kg		01/10/19 13:58	01/10/19 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.05	%			01/09/19 11:43	1

Client Sample ID: DG-S7S-3.5-4

Date Collected: 01/08/19 14:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-30

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	15		9.7	4.8	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Acenaphthylene	6.6		4.8	2.3	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Anthracene	12		4.8	1.9	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Benzo[a]anthracene	18		4.8	1.5	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Benzo[a]pyrene	13		4.8	1.8	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Benzo[b]fluoranthene	26		4.8	2.0	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Benzo[g,h,i]perylene	11		4.8	4.2	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Benzo[k]fluoranthene	8.2		4.8	2.0	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Chrysene	33		4.8	1.4	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Fluoranthene	52		4.8	1.4	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Fluorene	3.8	J	4.8	2.1	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Indeno[1,2,3-cd]pyrene	8.6		4.8	4.1	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Naphthalene	34		4.8	3.4	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Phenanthrene	53		4.8	1.7	ug/Kg		01/15/19 10:12	01/17/19 13:10	1
Pyrene	55		4.8	1.6	ug/Kg		01/15/19 10:12	01/17/19 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*33 - 120*	*01/15/19 10:12*	*01/17/19 13:10*	*1*
Terphenyl-d14	*86*		*35 - 146*	*01/15/19 10:12*	*01/17/19 13:10*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	97	B	2.0	0.74	mg/Kg		01/09/19 09:45	01/10/19 20:58	1
Motor Oil Range Organics [C24-C36]	140		49	9.9	mg/Kg		01/09/19 09:45	01/10/19 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*65*		*40 - 130*	*01/09/19 09:45*	*01/10/19 20:58*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Aldrin	ND		1.9	0.49	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
alpha-BHC	ND		1.9	0.54	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Endosulfan II	ND		1.9	0.48	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Endrin	ND		1.9	0.45	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Endrin aldehyde	ND	*	1.9	0.61	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 10:04	01/11/19 15:29	1

Client Sample ID: DG-S7S-3.5-4
Date Collected: 01/08/19 14:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-30
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Methoxychlor	ND	*	1.9	0.66	ug/Kg		01/09/19 10:04	01/11/19 15:29	1
Toxaphene	ND		39	6.6	ug/Kg		01/09/19 10:04	01/11/19 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*	*p*	*21 - 136*	*01/09/19 10:04*	*01/11/19 15:29*	*1*
Tetrachloro-m-xylene	*82*		*21 - 145*	*01/09/19 10:04*	*01/11/19 15:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:16	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:16	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:16	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:16	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*115*		*45 - 120*	*01/10/19 13:10*	*01/11/19 20:16*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND		490	170	ug/Kg		01/10/19 13:10	01/14/19 16:39	10
Aroclor 1260	**5300**		490	170	ug/Kg		01/10/19 13:10	01/14/19 16:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*102*		*45 - 120*	*01/10/19 13:10*	*01/14/19 16:39*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**22**		3.1	0.52	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Arsenic	**26**		6.3	0.53	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Barium	**1200**		3.1	0.45	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Beryllium	ND		0.63	0.20	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Cadmium	**2.2**		0.79	0.078	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Chromium	**75**	**B**	3.1	0.33	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Cobalt	**9.1**		1.3	0.13	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Copper	**2200**		9.4	4.5	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Lead	**3600**	**^**	3.1	0.66	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Molybdenum	**0.70**	**J**	3.1	0.40	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Nickel	**40**	**B**	3.1	0.32	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Selenium	**5.9**	**J**	6.3	0.94	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Silver	**4.6**		1.6	0.32	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Thallium	ND		3.1	0.91	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Vanadium	**23**		3.1	0.43	mg/Kg		01/09/19 10:14	01/15/19 12:04	10
Zinc	**3600**		9.4	4.0	mg/Kg		01/09/19 10:14	01/15/19 12:04	10

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-S7S-3.5-4
Date Collected: 01/08/19 14:22
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-30
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.014	0.0021	mg/Kg		01/10/19 13:58	01/10/19 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.3		0.1	0.05	%			01/09/19 11:43	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-U7S-0.5-1

Date Collected: 01/08/19 14:50
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-31

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	50	ug/Kg		01/09/19 18:35	01/12/19 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*60 - 120*	*01/09/19 18:35*	*01/12/19 00:56*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 18:35*	*01/12/19 00:56*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 18:35*	*01/12/19 00:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,1,1-Trichloroethane	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.6	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,1,2-Trichloroethane	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,1-Dichloroethane	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,1-Dichloropropene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,2,4-Trichlorobenzene	ND		3.6	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,2-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,2-Dichloroethane	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,2-Dichloropropane	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,3-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,3-Dichloropropane	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
1,4-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
2-Butanone (MEK)	ND		7.1	3.6	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
2-Hexanone	ND		7.1	3.6	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
4-Isopropyltoluene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Benzene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Bromoform	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Chlorobenzene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Chlorodibromomethane	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Chloroform	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
cis-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1

Client Sample ID: DG-U7S-0.5-1

Date Collected: 01/08/19 14:50
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-31

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Dibromomethane	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Dichlorobromomethane	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Ethylbenzene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Ethylene Dibromide	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Isopropylbenzene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Methylene Chloride	ND		7.1	3.6	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
N-Propylbenzene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Styrene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Tetrachloroethene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Toluene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
trans-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
trans-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Trichloroethene	ND		0.71	0.36	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Vinyl acetate	ND		5.7	2.8	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/09/19 18:35	01/12/19 00:56	1
Xylenes, Total	ND		1.4	0.93	ug/Kg		01/09/19 18:35	01/12/19 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*	*01/09/19 18:35*	*01/12/19 00:56*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 18:35*	*01/12/19 00:56*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.8**	**J**	9.4	4.7	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Acenaphthene	ND		4.7	2.6	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Acenaphthylene	**5.8**		4.7	2.3	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Anthracene	**11**		4.7	1.9	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Benzo[a]anthracene	**10**		4.7	1.4	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Benzo[a]pyrene	**20**		4.7	1.8	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Benzo[b]fluoranthene	**30**		4.7	2.0	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Benzo[g,h,i]perylene	**33**		4.7	4.0	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Benzo[k]fluoranthene	**13**		4.7	2.0	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Chrysene	**25**		4.7	1.3	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Dibenz(a,h)anthracene	**6.4**		4.7	3.3	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Fluoranthene	**19**		4.7	1.3	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Fluorene	ND		4.7	2.1	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Indeno[1,2,3-cd]pyrene	**22**		4.7	3.9	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Naphthalene	**5.8**		4.7	3.3	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Phenanthrene	**11**		4.7	1.7	ug/Kg		01/15/19 10:12	01/17/19 14:21	1
Pyrene	**23**		4.7	1.6	ug/Kg		01/15/19 10:12	01/17/19 14:21	1

Client Sample ID: DG-U7S-0.5-1

Date Collected: 01/08/19 14:50
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-31

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*33 - 120*	*01/15/19 10:12*	*01/17/19 14:21*	*1*
Terphenyl-d14	*125*		*35 - 146*	*01/15/19 10:12*	*01/17/19 14:21*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**	**B**	2.0	0.73	mg/Kg		01/09/19 09:45	01/10/19 21:57	1
Motor Oil Range Organics [C24-C36]	**52**		49	9.8	mg/Kg		01/09/19 09:45	01/10/19 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*98*		*40 - 130*	*01/09/19 09:45*	*01/10/19 21:57*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
4,4'-DDE	**0.80**	**J p**	1.9	0.40	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Aldrin	ND		1.9	0.48	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Endrin	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Endrin aldehyde	ND	*	1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Methoxychlor	ND	*	1.9	0.65	ug/Kg		01/09/19 10:04	01/11/19 15:46	1
Toxaphene	ND		38	6.5	ug/Kg		01/09/19 10:04	01/11/19 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*21 - 136*	*01/09/19 10:04*	*01/11/19 15:46*	*1*
Tetrachloro-m-xylene	*89*		*21 - 145*	*01/09/19 10:04*	*01/11/19 15:46*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:29	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:29	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:29	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:29	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:29	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:29	1
Aroclor 1260	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:29	1

Client Sample ID: DG-U7S-0.5-1

Date Collected: 01/08/19 14:50
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-31

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/10/19 13:10*	*01/11/19 20:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.75**	**J**	1.5	0.25	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Arsenic	**5.1**		3.0	0.25	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Barium	**72**		1.5	0.21	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Beryllium	ND		0.30	0.096	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Cadmium	**0.94**		0.37	0.037	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Chromium	**19**	**B**	1.5	0.16	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Cobalt	**8.8**		0.59	0.059	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Copper	**110**		4.4	2.1	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Lead	**69**	**^**	1.5	0.31	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Molybdenum	ND		1.5	0.19	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Nickel	**27**	**B**	1.5	0.15	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Selenium	**1.0**	**J**	3.0	0.44	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Silver	ND		0.74	0.15	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Thallium	**0.66**	**J**	1.5	0.43	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Vanadium	**69**		1.5	0.20	mg/Kg		01/09/19 10:14	01/14/19 15:48	4
Zinc	**490**		4.4	1.9	mg/Kg		01/09/19 10:14	01/14/19 15:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.073**		0.015	0.0022	mg/Kg		01/10/19 13:58	01/10/19 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.05	%			01/09/19 11:43	1

Client Sample ID: DG-U7S-3.5-4

Date Collected: 01/08/19 14:52
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-32

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	91		9.6	4.8	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Acenaphthylene	11		4.8	2.3	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Anthracene	11		4.8	1.9	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Benzo[a]anthracene	23		4.8	1.4	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Benzo[a]pyrene	20		4.8	1.8	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Benzo[b]fluoranthene	38		4.8	2.0	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Benzo[g,h,i]perylene	20		4.8	4.1	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Benzo[k]fluoranthene	15		4.8	2.0	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Chrysene	44		4.8	1.3	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Dibenz(a,h)anthracene	4.4	J	4.8	3.4	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Fluoranthene	40		4.8	1.3	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Fluorene	6.5		4.8	2.1	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Indeno[1,2,3-cd]pyrene	14		4.8	4.0	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Naphthalene	79		4.8	3.4	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Phenanthrene	59		4.8	1.7	ug/Kg		01/15/19 10:12	01/17/19 13:34	1
Pyrene	51		4.8	1.6	ug/Kg		01/15/19 10:12	01/17/19 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*33 - 120*	*01/15/19 10:12*	*01/17/19 13:34*	*1*
Terphenyl-d14	*106*		*35 - 146*	*01/15/19 10:12*	*01/17/19 13:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	28	B	2.0	0.73	mg/Kg		01/09/19 09:45	01/10/19 18:32	1
Motor Oil Range Organics [C24-C36]	62		49	9.8	mg/Kg		01/09/19 09:45	01/10/19 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*76*		*40 - 130*	*01/09/19 09:45*	*01/10/19 18:32*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Aldrin	ND		2.0	0.49	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Endrin	ND		2.0	0.45	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Endrin aldehyde	ND	*	2.0	0.62	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/09/19 10:04	01/11/19 16:02	1

Client Sample ID: DG-U7S-3.5-4

Date Collected: 01/08/19 14:52
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-32

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Methoxychlor	ND	*	2.0	0.67	ug/Kg		01/09/19 10:04	01/11/19 16:02	1
Toxaphene	ND		39	6.7	ug/Kg		01/09/19 10:04	01/11/19 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*21 - 136*	*01/09/19 10:04*	*01/11/19 16:02*	*1*
Tetrachloro-m-xylene	*92*		*21 - 145*	*01/09/19 10:04*	*01/11/19 16:02*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:42	1
Aroclor 1221	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:42	1
Aroclor 1232	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:42	1
Aroclor 1242	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:42	1
Aroclor 1248	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:42	1
Aroclor 1254	ND		49	17	ug/Kg		01/10/19 13:10	01/11/19 20:42	1
Aroclor 1260	**19**	**J**	49	17	ug/Kg		01/10/19 13:10	01/11/19 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*01/10/19 13:10*	*01/11/19 20:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**12**		3.0	0.50	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Arsenic	**18**		6.1	0.52	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Barium	**930**		3.0	0.43	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Beryllium	ND		0.61	0.20	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Cadmium	**2.8**		0.76	0.075	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Chromium	**33**	**B**	3.0	0.32	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Cobalt	**8.9**		1.2	0.12	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Copper	**810**		9.1	4.3	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Lead	**2600**	**^**	3.0	0.64	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Molybdenum	**0.55**	**J**	3.0	0.39	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Nickel	**40**	**B**	3.0	0.31	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Selenium	**4.8**	**J**	6.1	0.91	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Silver	**6.7**		1.5	0.31	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Thallium	**1.0**	**J**	3.0	0.88	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Vanadium	**40**		3.0	0.41	mg/Kg		01/09/19 10:14	01/15/19 12:09	10
Zinc	**1800**		9.1	3.8	mg/Kg		01/09/19 10:14	01/15/19 12:09	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**		0.015	0.0021	mg/Kg		01/10/19 13:58	01/10/19 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.2**		0.1	0.05	%			01/09/19 11:43	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: FB-1.18.19
Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-33
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/20/19 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*01/20/19 15:25*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*01/20/19 15:25*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/20/19 15:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	*	0.50	0.25	ug/L			01/20/19 15:25	1
Acetone	ND		20	10	ug/L			01/20/19 15:25	1
Benzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Bromobenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Bromoform	ND		1.0	0.40	ug/L			01/20/19 15:25	1
Bromomethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/20/19 15:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Carbon disulfide	ND	*	1.0	0.50	ug/L			01/20/19 15:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Chloroethane	ND		1.0	0.40	ug/L			01/20/19 15:25	1
Chloroform	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Chloromethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/20/19 15:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Dibromomethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/20/19 15:25	1
1,1-Dichloroethane	ND	*	0.50	0.25	ug/L			01/20/19 15:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
trans-1,2-Dichloroethene	ND	*	0.50	0.25	ug/L			01/20/19 15:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
2-Hexanone	ND		5.0	2.5	ug/L			01/20/19 15:25	1

Client Sample ID: FB-1.18.19
Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-33
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Methylene Chloride	ND	*	2.0	0.88	ug/L			01/20/19 15:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/20/19 15:25	1
Naphthalene	ND		1.0	0.40	ug/L			01/20/19 15:25	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Styrene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Toluene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/20/19 15:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/20/19 15:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Trichloroethene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/20/19 15:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	2.0	0.50	ug/L			01/20/19 15:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Vinyl acetate	ND	*	4.0	2.0	ug/L			01/20/19 15:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/20/19 15:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/20/19 15:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/20/19 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*01/20/19 15:25*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/20/19 15:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/21/19 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*01/21/19 12:59*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*01/21/19 12:59*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	DCA (70-130)	TOL (79-123)										
440-229658-A-1 MS	Matrix Spike	103	111										
440-229658-A-1 MSD	Matrix Spike Duplicate	92	111										
720-90640-1	DG-T5S-0.5-1	119	102										
720-90640-1 - RA	DG-T5S-0.5-1	128	101										
720-90640-2	DG-T5S-3.5-4	116	100										
720-90640-3	DG-V5S-0.5-1	122	101										
720-90640-3 - RA	DG-V5S-0.5-1	126	99										
720-90640-4	DG-V5S-3.5-4	130	99										
720-90640-5	DG-V5S-7.5-8	125	99										
720-90640-6	DG-X5S-0.5-1	125	101										
720-90640-7	DG-X5S-3.5-4	129	97										
720-90640-8	DG-Z5S-0.5-1	124	99										
720-90640-9	DG-Z5S-3.5-4	120	100										
720-90640-10	DG-AD5S-0.5-1	123	101										
720-90640-11	DG-AD5S-3.5-4	130	97										
720-90640-12	DG-AF5S-0.5-1	123	100										
720-90640-13	DG-AF5S-3.5-4	115	103										
720-90640-14	DG-AH5S-0.5-1	126	100										
720-90640-15	DG-AH5S-3.5-4	130	99										
720-90640-16	DG-AH5S-8-8.5	129	99										
720-90640-17	DG-AJ5S-0.5-1	90	122										
720-90640-18	DG-AJ5S-3.5-4	131 X	98										
720-90640-19	DG-P5S-0.5-1	105	135 X										
720-90640-20	DG-P5S-3.5-4	101	126 X										
720-90640-21	DG-N5S-0.5-1	98	122										
720-90640-22	DG-N5S-3.5-4	101	123										
720-90640-23	DUP-125	99	127 X										
720-90640-24	DG-O7S-0.5-1	99	117										
720-90640-25	DG-O7S-3.5-4	117	116										
720-90640-26	DG-Q7S-0.5-1	107	122										
720-90640-27	DG-Q7S-3.5-4	112	108										
720-90640-27 MS	DG-Q7S-3.5-4	118	99										
720-90640-27 MSD	DG-Q7S-3.5-4	104	105										
720-90640-28	DUP-44	99	150 X										
720-90640-29	DG-S7S-0.5-1	105	122										
720-90640-31	DG-U7S-0.5-1	133 X	97										
LCS 440-521859/5	Lab Control Sample	121	98										
LCS 440-521861/5	Lab Control Sample	98	121										
LCS 440-522040/7	Lab Control Sample	128	97										
LCS 440-522083/5	Lab Control Sample	126	98										
LCS 440-522204/5	Lab Control Sample	131 X	96										
LCSD 440-522040/11	Lab Control Sample Dup	126	96										
LCSD 440-522083/6	Lab Control Sample Dup	125	98										
LCSD 440-522204/6	Lab Control Sample Dup	131 X	94										
MB 440-521859/4	Method Blank	123	101										
MB 440-521861/4	Method Blank	93	115										
MB 440-522040/6	Method Blank	126	100										
MB 440-522083/4	Method Blank	124	101										
MB 440-522204/4	Method Blank	129	100										

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCA	TOL								
Lab Sample ID	Client Sample ID	(70-130)	(80-128)								
440-229345-B-1 MS	Matrix Spike	101	103								
440-229345-B-1 MSD	Matrix Spike Duplicate	101	102								
440-230044-C-7 MS	Matrix Spike	103	96								
440-230044-C-7 MSD	Matrix Spike Duplicate	100	98								
720-90640-33	FB-1.18.19	117	98								
720-90640-33 - RA	FB-1.18.19	110	107								
LCS 440-523637/8	Lab Control Sample	100	98								
LCS 440-523695/5	Lab Control Sample	96	106								
MB 440-523637/7	Method Blank	106	100								
MB 440-523695/4	Method Blank	106	111								

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DBFM	BFB	TOL							
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)							
440-229658-A-1 MS	Matrix Spike	101	105	111							
440-229658-A-1 MSD	Matrix Spike Duplicate	100	105	111							
720-90640-1	DG-T5S-0.5-1	102	106	102							
720-90640-2	DG-T5S-3.5-4	106	103	100							
720-90640-3	DG-V5S-0.5-1	105	107	101							
720-90640-4	DG-V5S-3.5-4	112	104	99							
720-90640-5	DG-V5S-7.5-8	109	105	99							
720-90640-6	DG-X5S-0.5-1	107	105	101							
720-90640-7	DG-X5S-3.5-4	108	104	97							
720-90640-8	DG-Z5S-0.5-1	106	106	99							
720-90640-9	DG-Z5S-3.5-4	105	105	100							
720-90640-10	DG-AD5S-0.5-1	108	101	101							
720-90640-11	DG-AD5S-3.5-4	109	102	97							
720-90640-12	DG-AF5S-0.5-1	108	105	100							
720-90640-13	DG-AF5S-3.5-4	104	103	103							
720-90640-14	DG-AH5S-0.5-1	108	101	100							
720-90640-15	DG-AH5S-3.5-4	111	103	99							
720-90640-16	DG-AH5S-8-8.5	113	103	99							
720-90640-17	DG-AJ5S-0.5-1	99	113	122							
720-90640-18	DG-AJ5S-3.5-4	109	104	98							
720-90640-19	DG-P5S-0.5-1	109	121 X	135 X							
720-90640-20	DG-P5S-3.5-4	107	115	126 X							
720-90640-21	DG-N5S-0.5-1	106	113	122							
720-90640-22	DG-N5S-3.5-4	105	114	123							

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (60-120)	BFB (79-120)	TOL (79-123)
720-90640-23	DUP-125	110	121 X	127 X
720-90640-24	DG-O7S-0.5-1	105	114	117
720-90640-25	DG-O7S-3.5-4	128 X	121 X	116
720-90640-26	DG-Q7S-0.5-1	112	115	122
720-90640-27	DG-Q7S-3.5-4	105	119	108
720-90640-27 MS	DG-Q7S-3.5-4	103	104	99
720-90640-27 MSD	DG-Q7S-3.5-4	96	104	105
720-90640-28	DUP-44	106	117	150 X
720-90640-29	DG-S7S-0.5-1	106	134 X	122
720-90640-31	DG-U7S-0.5-1	111	104	97
LCS 440-521860/6	Lab Control Sample	104	107	102
LCS 440-521862/6	Lab Control Sample	113	104	107
LCS 440-522041/8	Lab Control Sample	104	105	99
LCS 440-522084/7	Lab Control Sample	104	105	101
LCS 440-522205/7	Lab Control Sample	107	105	98
LCSD 440-522041/12	Lab Control Sample Dup	104	103	103
LCSD 440-522084/8	Lab Control Sample Dup	105	106	100
LCSD 440-522205/8	Lab Control Sample Dup	106	103	100
MB 440-521860/4	Method Blank	108	104	101
MB 440-521862/4	Method Blank	101	109	115
MB 440-522041/6	Method Blank	108	103	100
MB 440-522084/4	Method Blank	107	104	101
MB 440-522205/4	Method Blank	107	102	100

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (76-132)	BFB (80-120)	TOL (80-128)
440-230044-C-7 MS	Matrix Spike	103	98	96
440-230044-C-7 MSD	Matrix Spike Duplicate	101	101	98
720-90640-33	FB-1.18.19	112	103	98
LCS 440-523638/30	Lab Control Sample	99	100	99
MB 440-523638/7	Method Blank	107	105	100

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)								
720-90640-1	DG-T5S-0.5-1	76	103								
720-90640-2	DG-T5S-3.5-4	74	97								
720-90640-3	DG-V5S-0.5-1	78	113								
720-90640-4	DG-V5S-3.5-4	73	100								
720-90640-5	DG-V5S-7.5-8	73	100								
720-90640-6	DG-X5S-0.5-1	80	111								
720-90640-7	DG-X5S-3.5-4	75	105								
720-90640-8	DG-Z5S-0.5-1	68	105								
720-90640-9	DG-Z5S-3.5-4	77	104								
720-90640-10	DG-AD5S-0.5-1	81	94								
720-90640-11	DG-AD5S-3.5-4	76	103								
720-90640-12	DG-AF5S-0.5-1	76	91								
720-90640-13	DG-AF5S-3.5-4	73	101								
720-90640-14	DG-AH5S-0.5-1	79	116								
720-90640-15	DG-AH5S-3.5-4	74	101								
720-90640-16	DG-AH5S-8-8.5	75	102								
720-90640-17	DG-AJ5S-0.5-1	79	100								
720-90640-18	DG-AJ5S-3.5-4	69	98								
720-90640-19	DG-P5S-0.5-1	81	111								
720-90640-20	DG-P5S-3.5-4	98	130								
720-90640-21	DG-N5S-0.5-1	92	127								
720-90640-21 MS	DG-N5S-0.5-1	82	113								
720-90640-21 MSD	DG-N5S-0.5-1	76	107								
720-90640-22	DG-N5S-3.5-4	74	120								
720-90640-23	DUP-125	91	127								
720-90640-24	DG-O7S-0.5-1	89	117								
720-90640-25	DG-O7S-3.5-4	87	135								
720-90640-26	DG-Q7S-0.5-1	91	124								
720-90640-27	DG-Q7S-3.5-4	75	97								
720-90640-27 MS	DG-Q7S-3.5-4	70	103								
720-90640-27 MSD	DG-Q7S-3.5-4	74	112								
720-90640-28	DUP-44	92	127								
720-90640-29	DG-S7S-0.5-1	89	118								
720-90640-30	DG-S7S-3.5-4	69	86								
720-90640-31	DG-U7S-0.5-1	84	125								
720-90640-32	DG-U7S-3.5-4	79	106								
LCS 720-258213/2-A	Lab Control Sample	75	101								
LCS 720-258535/2-A	Lab Control Sample	75	98								
MB 720-258213/1-A	Method Blank	78	105								
MB 720-258535/1-A	Method Blank	82	107								

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TPH1 (40-130)						
720-90638-D-3-C MS	Matrix Spike	123						
720-90638-D-3-D MSD	Matrix Spike Duplicate	120						
720-90640-1	DG-T5S-0.5-1	108						
720-90640-2	DG-T5S-3.5-4	100						
720-90640-3	DG-V5S-0.5-1	73						
720-90640-4	DG-V5S-3.5-4	95						
720-90640-5	DG-V5S-7.5-8	101						
720-90640-6	DG-X5S-0.5-1	72						
720-90640-7	DG-X5S-3.5-4	100						
720-90640-8	DG-Z5S-0.5-1	104						
720-90640-9	DG-Z5S-3.5-4	109						
720-90640-10	DG-AD5S-0.5-1	94						
720-90640-11	DG-AD5S-3.5-4	105						
720-90640-12	DG-AF5S-0.5-1	98						
720-90640-13	DG-AF5S-3.5-4	104						
720-90640-14	DG-AH5S-0.5-1	79						
720-90640-15	DG-AH5S-3.5-4	71						
720-90640-16	DG-AH5S-8-8.5	101						
720-90640-17	DG-AJ5S-0.5-1	100						
720-90640-18	DG-AJ5S-3.5-4	0 X D						
720-90640-19	DG-P5S-0.5-1	90						
720-90640-20	DG-P5S-3.5-4	0 X D						
720-90640-21	DG-N5S-0.5-1	81						
720-90640-22	DG-N5S-3.5-4	104						
720-90640-23	DUP-125	116						
720-90640-24	DG-O7S-0.5-1	123						
720-90640-25	DG-O7S-3.5-4	110						
720-90640-26	DG-Q7S-0.5-1	107						
720-90640-27	DG-Q7S-3.5-4	87						
720-90640-27 MS	DG-Q7S-3.5-4	87						
720-90640-27 MSD	DG-Q7S-3.5-4	86						
720-90640-28	DUP-44	69						
720-90640-29	DG-S7S-0.5-1	0 X D						
720-90640-30	DG-S7S-3.5-4	65						
720-90640-31	DG-U7S-0.5-1	98						
720-90640-32	DG-U7S-3.5-4	76						
LCS 720-258200/2-A	Lab Control Sample	123						
LCS 720-258201/2-A	Lab Control Sample	109						
MB 720-258200/1-A	Method Blank	107						
MB 720-258201/1-A	Method Blank	98						

Surrogate Legend

TPH = p-Terphenyl

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	DCBP2 (21-136)	TCX1 (21-145)	TCX2 (21-145)
720-90638-D-1-K MS	Matrix Spike	84		82	
720-90638-D-1-L MSD	Matrix Spike Duplicate	83		91	
720-90640-1	DG-T5S-0.5-1		85		84
720-90640-2	DG-T5S-3.5-4		104		79
720-90640-3	DG-V5S-0.5-1		84		86
720-90640-4	DG-V5S-3.5-4		82		83
720-90640-5	DG-V5S-7.5-8		95		77
720-90640-6	DG-X5S-0.5-1		90		99
720-90640-7	DG-X5S-3.5-4		108		85
720-90640-8	DG-Z5S-0.5-1		90		94
720-90640-9	DG-Z5S-3.5-4	99			77
720-90640-10	DG-AD5S-0.5-1		66		86
720-90640-11	DG-AD5S-3.5-4	98			84
720-90640-12	DG-AF5S-0.5-1	67		67	
720-90640-13	DG-AF5S-3.5-4		99		78
720-90640-14	DG-AH5S-0.5-1		79	93	
720-90640-15	DG-AH5S-3.5-4		83		85
720-90640-16	DG-AH5S-8-8.5	103			85
720-90640-17	DG-AJ5S-0.5-1	106			78
720-90640-18	DG-AJ5S-3.5-4	87		77	
720-90640-19	DG-P5S-0.5-1	81		80	
720-90640-20	DG-P5S-3.5-4	81		97	
720-90640-21	DG-N5S-0.5-1	86		91	
720-90640-22	DG-N5S-3.5-4	77			86
720-90640-23	DUP-125	88		85	
720-90640-24	DG-O7S-0.5-1	64		94	
720-90640-25	DG-O7S-3.5-4	78		89	
720-90640-26	DG-Q7S-0.5-1	92 p		73	
720-90640-27	DG-Q7S-3.5-4		72		77
720-90640-27 MS	DG-Q7S-3.5-4	105	76	89	81
720-90640-27 MSD	DG-Q7S-3.5-4	98	69	85	77
720-90640-28	DUP-44	60 p		39 p	
720-90640-29	DG-S7S-0.5-1	157 X			83
720-90640-30	DG-S7S-3.5-4		68 p	82	
720-90640-31	DG-U7S-0.5-1	90		89	
720-90640-32	DG-U7S-3.5-4		92	92	
LCS 720-258204/2-A	Lab Control Sample		88		80
LCS 720-258208/2-A	Lab Control Sample	116			92
MB 720-258204/1-A	Method Blank		93		83
MB 720-258208/1-A	Method Blank	115			94

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DCB2 (45-120)						
720-90640-1	DG-T5S-0.5-1	69						
720-90640-1 MS	DG-T5S-0.5-1	85						
720-90640-1 MSD	DG-T5S-0.5-1	83						
720-90640-2	DG-T5S-3.5-4	70						
720-90640-3	DG-V5S-0.5-1	76						
720-90640-4	DG-V5S-3.5-4	72						
720-90640-5	DG-V5S-7.5-8	80						
720-90640-6	DG-X5S-0.5-1	79						
720-90640-7	DG-X5S-3.5-4	68						
720-90640-8	DG-Z5S-0.5-1	60						
720-90640-9	DG-Z5S-3.5-4	65						
720-90640-10	DG-AD5S-0.5-1	60						
720-90640-11	DG-AD5S-3.5-4	60						
720-90640-12	DG-AF5S-0.5-1	97						
720-90640-12 - DL	DG-AF5S-0.5-1	93						
720-90640-13	DG-AF5S-3.5-4	67						
720-90640-14	DG-AH5S-0.5-1	70						
720-90640-15	DG-AH5S-3.5-4	72						
720-90640-16	DG-AH5S-8-8.5	60						
720-90640-17	DG-AJ5S-0.5-1	93						
720-90640-18	DG-AJ5S-3.5-4	49						
720-90640-19	DG-P5S-0.5-1	77						
720-90640-20	DG-P5S-3.5-4	47						
720-90640-21	DG-N5S-0.5-1	64						
720-90640-22	DG-N5S-3.5-4	58						
720-90640-23	DUP-125	89						
720-90640-24	DG-O7S-0.5-1	42 X						
720-90640-25	DG-O7S-3.5-4	73						
720-90640-26	DG-Q7S-0.5-1	67						
720-90640-27	DG-Q7S-3.5-4	55						
720-90640-27 MS	DG-Q7S-3.5-4	65						
720-90640-27 MSD	DG-Q7S-3.5-4	68						
720-90640-28	DUP-44	119						
720-90640-29	DG-S7S-0.5-1	116						
720-90640-30	DG-S7S-3.5-4	115						
720-90640-30 - DL	DG-S7S-3.5-4	102						
720-90640-31	DG-U7S-0.5-1	58						
720-90640-32	DG-U7S-3.5-4	80						
LCS 440-521728/2-A	Lab Control Sample	96						
LCS 440-521729/2-A	Lab Control Sample	96						
MB 440-521728/1-A	Method Blank	90						
MB 440-521729/1-A	Method Blank	110						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 521687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		34.9	33.7		ug/Kg		96	65 - 145
1,1,1-Trichloroethane	ND	F2	34.9	34.3		ug/Kg		98	65 - 145
1,1,2,2-Tetrachloroethane	ND		34.9	34.6		ug/Kg		99	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		34.9	32.2		ug/Kg		92	60 - 140
1,1,2-Trichloroethane	ND		34.9	35.5		ug/Kg		102	65 - 140
1,1-Dichloroethane	ND		34.9	34.6		ug/Kg		99	65 - 135
1,1-Dichloroethene	ND	F2	34.9	32.5		ug/Kg		93	65 - 135
1,1-Dichloropropene	ND		34.9	31.5		ug/Kg		90	65 - 135
1,2,3-Trichlorobenzene	ND		34.9	22.9		ug/Kg		66	45 - 145
1,2,3-Trichloropropane	ND		34.9	36.5		ug/Kg		104	50 - 150
1,2,4-Trichlorobenzene	ND		34.9	22.7		ug/Kg		65	50 - 140
1,2,4-Trimethylbenzene	ND		34.9	31.4		ug/Kg		90	65 - 140
1,2-Dibromo-3-Chloropropane	ND		34.9	37.4		ug/Kg		107	40 - 150
1,2-Dichlorobenzene	ND		34.9	29.3		ug/Kg		84	70 - 130
1,2-Dichloroethane	ND		34.9	37.6		ug/Kg		108	60 - 150
1,2-Dichloropropane	ND		34.9	36.7		ug/Kg		105	65 - 130
1,3,5-Trimethylbenzene	ND		34.9	30.7		ug/Kg		88	65 - 135
1,3-Dichlorobenzene	ND		34.9	29.6		ug/Kg		85	70 - 130
1,3-Dichloropropane	ND		34.9	34.7		ug/Kg		99	65 - 140
1,4-Dichlorobenzene	ND		34.9	29.1		ug/Kg		83	70 - 130
2,2-Dichloropropane	ND	F2	34.9	33.2		ug/Kg		95	65 - 150
2-Butanone (MEK)	ND		34.9	35.8		ug/Kg		103	25 - 170
2-Chlorotoluene	ND		34.9	30.9		ug/Kg		89	60 - 135
2-Hexanone	ND		34.9	50.0		ug/Kg		143	35 - 160
4-Chlorotoluene	ND		34.9	31.6		ug/Kg		90	65 - 135
4-Isopropyltoluene	ND	F2	34.9	29.6		ug/Kg		85	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		34.9	47.5		ug/Kg		136	40 - 155
Benzene	ND		34.9	31.6		ug/Kg		90	65 - 130
Bromobenzene	ND		34.9	31.1		ug/Kg		89	65 - 140
Bromoform	ND		34.9	33.8		ug/Kg		97	50 - 145
Bromomethane	ND		34.9	35.6		ug/Kg		102	60 - 155
Carbon disulfide	ND	F2	34.9	31.0		ug/Kg		89	40 - 140
Carbon tetrachloride	ND		34.9	33.1		ug/Kg		95	60 - 145
Chlorobenzene	ND		34.9	29.7		ug/Kg		85	70 - 130
Chlorobromomethane	ND		34.9	32.1		ug/Kg		92	65 - 145
Chlorodibromomethane	ND		34.9	35.3		ug/Kg		101	60 - 145
Chloroethane	ND		34.9	34.3		ug/Kg		98	60 - 150
Chloroform	ND		34.9	34.3		ug/Kg		98	65 - 135
Chloromethane	ND		34.9	31.8		ug/Kg		91	40 - 145
cis-1,2-Dichloroethene	ND		34.9	31.1		ug/Kg		89	65 - 135
cis-1,3-Dichloropropene	ND		34.9	36.1		ug/Kg		103	70 - 135
Dibromomethane	ND		34.9	32.3		ug/Kg		93	65 - 140
Dichlorobromomethane	ND		34.9	35.5		ug/Kg		102	65 - 145
Dichlorodifluoromethane	ND		34.9	29.5		ug/Kg		84	30 - 160
Ethylbenzene	ND		34.9	31.1		ug/Kg		89	70 - 135
Ethylene Dibromide	ND		34.9	33.1		ug/Kg		95	65 - 140
Hexachlorobutadiene	ND		34.9	19.6		ug/Kg		56	50 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 521687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	ND		34.9	30.5		ug/Kg		87	70 - 145
Methyl tert-butyl ether	ND		34.9	35.6		ug/Kg		102	55 - 155
Methylene Chloride	ND		34.9	30.8		ug/Kg		88	55 - 145
m-Xylene & p-Xylene	ND		34.9	30.8		ug/Kg		88	70 - 130
Naphthalene	ND		34.9	25.2		ug/Kg		72	40 - 150
n-Butylbenzene	ND		34.9	29.4		ug/Kg		84	55 - 145
N-Propylbenzene	ND	F2	34.9	31.4		ug/Kg		90	65 - 140
o-Xylene	ND		34.9	30.6		ug/Kg		88	65 - 130
sec-Butylbenzene	ND	F2	34.9	29.9		ug/Kg		86	60 - 135
Styrene	ND		34.9	30.8		ug/Kg		88	70 - 140
tert-Butylbenzene	ND	F2	34.9	30.2		ug/Kg		86	60 - 140
Tetrachloroethene	ND	F2	34.9	27.8		ug/Kg		80	65 - 135
Toluene	ND		34.9	29.9		ug/Kg		86	70 - 130
trans-1,2-Dichloroethene	ND		34.9	31.6		ug/Kg		91	70 - 135
trans-1,3-Dichloropropene	ND		34.9	37.2		ug/Kg		106	60 - 145
Trichloroethene	ND		34.9	29.8		ug/Kg		85	65 - 140
Trichlorofluoromethane	ND		34.9	35.5		ug/Kg		102	55 - 155
Vinyl acetate	ND		34.9	42.5		ug/Kg		122	40 - 150
Vinyl chloride	ND		34.9	29.8		ug/Kg		85	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 521687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		39.7	36.8		ug/Kg		93	65 - 145	9	20
1,1,1-Trichloroethane	ND	F2	39.7	42.4	F4	ug/Kg		107	65 - 145	21	20
1,1,2,2-Tetrachloroethane	ND		39.7	37.0		ug/Kg		93	40 - 160	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		39.7	41.7		ug/Kg		105	60 - 140	26	40
1,1,2-Trichloroethane	ND		39.7	34.8		ug/Kg		88	65 - 140	2	30
1,1-Dichloroethane	ND		39.7	40.9		ug/Kg		103	65 - 135	17	25
1,1-Dichloroethene	ND	F2	39.7	43.0	F4	ug/Kg		108	65 - 135	28	25
1,1-Dichloropropene	ND		39.7	38.1		ug/Kg		96	65 - 135	19	20
1,2,3-Trichlorobenzene	ND		39.7	19.1		ug/Kg		48	45 - 145	18	30
1,2,3-Trichloropropane	ND		39.7	38.3		ug/Kg		96	50 - 150	5	30
1,2,4-Trichlorobenzene	ND		39.7	19.8		ug/Kg		50	50 - 140	14	30
1,2,4-Trimethylbenzene	ND		39.7	38.5		ug/Kg		97	65 - 140	20	25
1,2-Dibromo-3-Chloropropane	ND		39.7	35.4		ug/Kg		89	40 - 150	5	30
1,2-Dichlorobenzene	ND		39.7	29.1		ug/Kg		73	70 - 130	1	25
1,2-Dichloroethane	ND		39.7	34.2		ug/Kg		86	60 - 150	10	25
1,2-Dichloropropane	ND		39.7	38.4		ug/Kg		97	65 - 130	4	20
1,3,5-Trimethylbenzene	ND		39.7	39.2		ug/Kg		99	65 - 135	24	25
1,3-Dichlorobenzene	ND		39.7	30.9		ug/Kg		78	70 - 130	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 521687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane	ND		39.7	33.3		ug/Kg		84	65 - 140	4	25
1,4-Dichlorobenzene	ND		39.7	28.8		ug/Kg		73	70 - 130	1	25
2,2-Dichloropropane	ND	F2	39.7	49.9	F4	ug/Kg		126	65 - 150	40	25
2-Butanone (MEK)	ND		39.7	34.9		ug/Kg		88	25 - 170	3	40
2-Chlorotoluene	ND		39.7	37.3		ug/Kg		94	60 - 135	19	25
2-Hexanone	ND		39.7	51.0		ug/Kg		128	35 - 160	2	40
4-Chlorotoluene	ND		39.7	34.6		ug/Kg		87	65 - 135	9	25
4-Isopropyltoluene	ND	F2	39.7	39.0	F4	ug/Kg		98	60 - 140	28	25
4-Methyl-2-pentanone (MIBK)	ND		39.7	50.8		ug/Kg		128	40 - 155	7	40
Benzene	ND		39.7	35.0		ug/Kg		88	65 - 130	10	20
Bromobenzene	ND		39.7	31.7		ug/Kg		80	65 - 140	2	25
Bromoform	ND		39.7	32.1		ug/Kg		81	50 - 145	5	30
Bromomethane	ND		39.7	40.3		ug/Kg		102	60 - 155	12	25
Carbon disulfide	ND	F2	39.7	41.5	F4	ug/Kg		105	40 - 140	29	20
Carbon tetrachloride	ND		39.7	41.9		ug/Kg		106	60 - 145	24	25
Chlorobenzene	ND		39.7	31.8		ug/Kg		80	70 - 130	7	25
Chlorobromomethane	ND		39.7	32.2		ug/Kg		81	65 - 145	0	25
Chlorodibromomethane	ND		39.7	33.4		ug/Kg		84	60 - 145	5	25
Chloroethane	ND		39.7	42.6		ug/Kg		107	60 - 150	22	25
Chloroform	ND		39.7	37.3		ug/Kg		94	65 - 135	8	20
Chloromethane	ND		39.7	38.6		ug/Kg		97	40 - 145	19	25
cis-1,2-Dichloroethene	ND		39.7	33.4		ug/Kg		84	65 - 135	7	25
cis-1,3-Dichloropropene	ND		39.7	35.9		ug/Kg		90	70 - 135	1	25
Dibromomethane	ND		39.7	31.1		ug/Kg		78	65 - 140	4	25
Dichlorobromomethane	ND		39.7	34.1		ug/Kg		86	65 - 145	4	20
Dichlorodifluoromethane	ND		39.7	39.4		ug/Kg		99	30 - 160	29	35
Ethylbenzene	ND		39.7	37.6		ug/Kg		95	70 - 135	19	25
Ethylene Dibromide	ND		39.7	31.6		ug/Kg		80	65 - 140	4	25
Hexachlorobutadiene	ND		39.7	25.7		ug/Kg		65	50 - 145	27	35
Isopropylbenzene	ND		39.7	38.0		ug/Kg		96	70 - 145	22	25
Methyl tert-butyl ether	ND		39.7	38.3		ug/Kg		97	55 - 155	7	35
Methylene Chloride	ND		39.7	33.6		ug/Kg		85	55 - 145	9	25
m-Xylene & p-Xylene	ND		39.7	37.0		ug/Kg		93	70 - 130	18	25
Naphthalene	ND		39.7	20.0		ug/Kg		50	40 - 150	23	40
n-Butylbenzene	ND		39.7	38.3		ug/Kg		97	55 - 145	27	30
N-Propylbenzene	ND	F2	39.7	41.5	F4	ug/Kg		105	65 - 140	28	25
o-Xylene	ND		39.7	34.8		ug/Kg		88	65 - 130	13	25
sec-Butylbenzene	ND	F2	39.7	40.4	F4	ug/Kg		102	60 - 135	30	25
Styrene	ND		39.7	31.1		ug/Kg		78	70 - 140	1	25
tert-Butylbenzene	ND	F2	39.7	40.7	F4	ug/Kg		103	60 - 140	30	25
Tetrachloroethene	ND	F2	39.7	36.2	F4	ug/Kg		91	65 - 135	26	25
Toluene	ND		39.7	34.8		ug/Kg		88	70 - 130	15	20
trans-1,2-Dichloroethene	ND		39.7	38.3		ug/Kg		97	70 - 135	19	25
trans-1,3-Dichloropropene	ND		39.7	32.9		ug/Kg		83	60 - 145	12	25
Trichloroethene	ND		39.7	33.3		ug/Kg		84	65 - 140	11	25
Trichlorofluoromethane	ND		39.7	45.7		ug/Kg		115	55 - 155	25	25
Vinyl acetate	ND		39.7	33.6		ug/Kg		85	40 - 150	23	30
Vinyl chloride	ND		39.7	37.7		ug/Kg		95	55 - 140	23	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 521687

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: MB 440-521859/4
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/11/19 08:13	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/11/19 08:13	1
Benzene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Bromoform	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/11/19 08:13	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/11/19 08:13	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Chloroform	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
2-Hexanone	ND		10	5.0	ug/Kg			01/11/19 08:13	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/11/19 08:13	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-521859/4
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		10	5.0	ug/Kg			01/11/19 08:13	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/11/19 08:13	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Styrene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/11/19 08:13	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/11/19 08:13	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Toluene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/11/19 08:13	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/11/19 08:13	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/11/19 08:13	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/11/19 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*		*01/11/19 08:13*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*		*01/11/19 08:13*	*1*

Lab Sample ID: LCS 440-521859/5
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	44.7		ug/Kg		89	75 - 120
1,3-Dichlorobenzene	50.0	44.7		ug/Kg		89	75 - 125
2-Butanone (MEK)	50.0	51.1		ug/Kg		102	40 - 145
1,4-Dichlorobenzene	50.0	44.6		ug/Kg		89	75 - 120
2-Chlorotoluene	50.0	46.3		ug/Kg		93	70 - 125
1,3-Dichloropropane	50.0	48.2		ug/Kg		96	70 - 125
1,1-Dichloropropene	50.0	46.5		ug/Kg		93	70 - 130
4-Chlorotoluene	50.0	47.2		ug/Kg		94	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.9		ug/Kg		106	50 - 135
Benzene	50.0	44.5		ug/Kg		89	65 - 120
Bromobenzene	50.0	47.3		ug/Kg		95	75 - 120
1,1-Dichloroethane	50.0	48.5		ug/Kg		97	70 - 130
Bromoform	50.0	47.7		ug/Kg		95	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-521859/5
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	51.8		ug/Kg		104	60 - 140
Bromomethane	50.0	49.8		ug/Kg		100	60 - 145
1,1-Dichloroethene	50.0	45.6		ug/Kg		91	70 - 125
Carbon disulfide	50.0	44.4		ug/Kg		89	50 - 130
Carbon tetrachloride	50.0	48.6		ug/Kg		97	65 - 140
Chlorobenzene	50.0	42.5		ug/Kg		85	75 - 120
1,2-Dichloropropane	50.0	51.4		ug/Kg		103	70 - 130
Chlorobromomethane	50.0	47.2		ug/Kg		94	70 - 135
Chlorodibromomethane	50.0	48.6		ug/Kg		97	65 - 140
Chloroethane	50.0	49.3		ug/Kg		99	60 - 140
Chloroform	50.0	47.4		ug/Kg		95	70 - 130
Chloromethane	50.0	43.6		ug/Kg		87	45 - 145
2-Hexanone	50.0	69.4		ug/Kg		139	40 - 150
cis-1,2-Dichloroethene	50.0	43.7		ug/Kg		87	70 - 125
cis-1,3-Dichloropropene	50.0	50.4		ug/Kg		101	75 - 125
4-Isopropyltoluene	50.0	45.4		ug/Kg		91	75 - 125
Dibromomethane	50.0	45.5		ug/Kg		91	70 - 130
Dichlorobromomethane	50.0	50.6		ug/Kg		101	70 - 135
4-Methyl-2-pentanone (MIBK)	50.0	70.1		ug/Kg		140	40 - 145
Dichlorodifluoromethane	50.0	39.9		ug/Kg		80	35 - 160
Ethylbenzene	50.0	44.5		ug/Kg		89	70 - 125
Ethylene Dibromide	50.0	47.2		ug/Kg		94	70 - 130
Hexachlorobutadiene	50.0	36.2		ug/Kg		72	60 - 135
1,1,1,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	70 - 130
Isopropylbenzene	50.0	44.7		ug/Kg		89	75 - 130
1,1,2,2-Tetrachloroethane	50.0	49.5		ug/Kg		99	55 - 140
Methyl tert-butyl ether	50.0	49.3		ug/Kg		99	60 - 140
Methylene Chloride	50.0	42.5		ug/Kg		85	55 - 135
1,2,3-Trichlorobenzene	50.0	40.5		ug/Kg		81	60 - 130
Naphthalene	50.0	42.4		ug/Kg		85	55 - 135
1,2,4-Trichlorobenzene	50.0	40.5		ug/Kg		81	70 - 135
n-Butylbenzene	50.0	47.3		ug/Kg		95	70 - 130
1,1,1-Trichloroethane	50.0	49.3		ug/Kg		99	65 - 135
N-Propylbenzene	50.0	48.0		ug/Kg		96	70 - 130
1,1,2-Trichloroethane	50.0	50.1		ug/Kg		100	65 - 135
sec-Butylbenzene	50.0	46.3		ug/Kg		93	70 - 125
Styrene	50.0	43.9		ug/Kg		88	75 - 130
1,2,3-Trichloropropane	50.0	52.3		ug/Kg		105	60 - 135
tert-Butylbenzene	50.0	45.5		ug/Kg		91	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.4		ug/Kg		93	60 - 140
Tetrachloroethene	50.0	42.1		ug/Kg		84	70 - 125
1,2,4-Trimethylbenzene	50.0	46.6		ug/Kg		93	70 - 125
Toluene	50.0	42.0		ug/Kg		84	70 - 125
1,3,5-Trimethylbenzene	50.0	45.9		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	45.3		ug/Kg		91	70 - 125
trans-1,3-Dichloropropene	50.0	51.7		ug/Kg		103	70 - 135
m-Xylene & p-Xylene	50.0	43.8		ug/Kg		88	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-521859/5
Matrix: Solid
Analysis Batch: 521859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	43.1		ug/Kg		86	70 - 125
o-Xylene	50.0	43.1		ug/Kg		86	70 - 125
Trichlorofluoromethane	50.0	51.0		ug/Kg		102	60 - 145
Vinyl acetate	50.0	67.4		ug/Kg		135	45 - 145
Vinyl chloride	50.0	42.4		ug/Kg		85	55 - 135
2,2-Dichloropropane	50.0	48.8		ug/Kg		98	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-521861/4
Matrix: Solid
Analysis Batch: 521861

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/11/19 10:17	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/11/19 10:17	1
Benzene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Bromoform	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/11/19 10:17	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/11/19 10:17	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Chloroform	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
2-Hexanone	ND		10	5.0	ug/Kg			01/11/19 10:17	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/11/19 10:17	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-521861/4
Matrix: Solid
Analysis Batch: 521861

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/11/19 10:17	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/11/19 10:17	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Styrene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/11/19 10:17	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/11/19 10:17	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Toluene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/11/19 10:17	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/11/19 10:17	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/11/19 10:17	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/11/19 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*01/11/19 10:17*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*		*01/11/19 10:17*	*1*

Lab Sample ID: LCS 440-521861/5
Matrix: Solid
Analysis Batch: 521861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	50.4		ug/Kg		101	75 - 120
1,3-Dichlorobenzene	50.0	49.5		ug/Kg		99	75 - 125
2-Butanone (MEK)	50.0	51.3		ug/Kg		103	40 - 145
1,4-Dichlorobenzene	50.0	50.1		ug/Kg		100	75 - 120
2-Chlorotoluene	50.0	46.7		ug/Kg		93	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-521861/5
Matrix: Solid
Analysis Batch: 521861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	56.0		ug/Kg		112	70 - 125
1,1-Dichloropropene	50.0	54.5		ug/Kg		109	70 - 130
4-Chlorotoluene	50.0	47.5		ug/Kg		95	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.9		ug/Kg		82	50 - 135
Benzene	50.0	52.8		ug/Kg		106	65 - 120
Bromobenzene	50.0	53.7		ug/Kg		107	75 - 120
1,1-Dichloroethane	50.0	51.1		ug/Kg		102	70 - 130
Bromoform	50.0	50.9		ug/Kg		102	55 - 135
1,2-Dichloroethane	50.0	45.4		ug/Kg		91	60 - 140
Bromomethane	50.0	52.4		ug/Kg		105	60 - 145
1,1-Dichloroethene	50.0	58.8		ug/Kg		118	70 - 125
Carbon disulfide	50.0	55.7		ug/Kg		111	50 - 130
Carbon tetrachloride	50.0	48.1		ug/Kg		96	65 - 140
Chlorobenzene	50.0	49.8		ug/Kg		100	75 - 120
1,2-Dichloropropane	50.0	54.8		ug/Kg		110	70 - 130
Chlorobromomethane	50.0	50.1		ug/Kg		100	70 - 135
Chlorodibromomethane	50.0	55.8		ug/Kg		112	65 - 140
Chloroethane	50.0	57.7		ug/Kg		115	60 - 140
Chloroform	50.0	47.0		ug/Kg		94	70 - 130
Chloromethane	50.0	55.8		ug/Kg		112	45 - 145
2-Hexanone	50.0	48.7		ug/Kg		97	40 - 150
cis-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	70 - 125
cis-1,3-Dichloropropene	50.0	61.2		ug/Kg		122	75 - 125
4-Isopropyltoluene	50.0	48.1		ug/Kg		96	75 - 125
Dibromomethane	50.0	51.5		ug/Kg		103	70 - 130
Dichlorobromomethane	50.0	48.3		ug/Kg		97	70 - 135
4-Methyl-2-pentanone (MIBK)	50.0	57.4		ug/Kg		115	40 - 145
Dichlorodifluoromethane	50.0	41.4		ug/Kg		83	35 - 160
Ethylbenzene	50.0	50.7		ug/Kg		101	70 - 125
Ethylene Dibromide	50.0	55.7		ug/Kg		111	70 - 130
Hexachlorobutadiene	50.0	42.0		ug/Kg		84	60 - 135
1,1,1,2-Tetrachloroethane	50.0	50.3		ug/Kg		101	70 - 130
Isopropylbenzene	50.0	51.4		ug/Kg		103	75 - 130
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/Kg		95	55 - 140
Methyl tert-butyl ether	50.0	46.4		ug/Kg		93	60 - 140
Methylene Chloride	50.0	51.7		ug/Kg		103	55 - 135
1,2,3-Trichlorobenzene	50.0	44.0		ug/Kg		88	60 - 130
Naphthalene	50.0	40.3		ug/Kg		81	55 - 135
1,2,4-Trichlorobenzene	50.0	43.5		ug/Kg		87	70 - 135
n-Butylbenzene	50.0	47.6		ug/Kg		95	70 - 130
1,1,1-Trichloroethane	50.0	47.6		ug/Kg		95	65 - 135
N-Propylbenzene	50.0	50.7		ug/Kg		101	70 - 130
1,1,2-Trichloroethane	50.0	62.5		ug/Kg		125	65 - 135
sec-Butylbenzene	50.0	47.7		ug/Kg		95	70 - 125
Styrene	50.0	50.6		ug/Kg		101	75 - 130
1,2,3-Trichloropropane	50.0	47.0		ug/Kg		94	60 - 135
tert-Butylbenzene	50.0	46.1		ug/Kg		92	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-521861/5
Matrix: Solid
Analysis Batch: 521861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.9		ug/Kg		108	60 - 140
Tetrachloroethene	50.0	61.3		ug/Kg		123	70 - 125
1,2,4-Trimethylbenzene	50.0	46.9		ug/Kg		94	70 - 125
Toluene	50.0	57.8		ug/Kg		116	70 - 125
1,3,5-Trimethylbenzene	50.0	47.9		ug/Kg		96	70 - 125
trans-1,2-Dichloroethene	50.0	56.2		ug/Kg		112	70 - 125
trans-1,3-Dichloropropene	50.0	55.8		ug/Kg		112	70 - 135
m-Xylene & p-Xylene	50.0	54.1		ug/Kg		108	70 - 125
Trichloroethene	50.0	53.2		ug/Kg		106	70 - 125
o-Xylene	50.0	52.6		ug/Kg		105	70 - 125
Trichlorofluoromethane	50.0	45.1		ug/Kg		90	60 - 145
Vinyl acetate	50.0	52.3		ug/Kg		105	45 - 145
Vinyl chloride	50.0	57.7		ug/Kg		115	55 - 135
2,2-Dichloropropane	50.0	48.5		ug/Kg		97	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*121*		*79 - 123*

Lab Sample ID: 440-229658-A-1 MS
Matrix: Solid
Analysis Batch: 521861

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		49.4	48.4		ug/Kg		98	70 - 130
1,3-Dichlorobenzene	ND		49.4	46.7		ug/Kg		94	70 - 130
2-Butanone (MEK)	ND		49.4	53.2		ug/Kg		108	25 - 170
1,4-Dichlorobenzene	ND		49.4	47.0		ug/Kg		95	70 - 130
2-Chlorotoluene	ND		49.4	43.8		ug/Kg		89	60 - 135
1,3-Dichloropropane	ND		49.4	51.3		ug/Kg		104	65 - 140
1,1-Dichloropropene	ND		49.4	47.5		ug/Kg		96	65 - 135
4-Chlorotoluene	ND		49.4	45.0		ug/Kg		91	65 - 135
1,2-Dibromo-3-Chloropropane	ND		49.4	46.2		ug/Kg		93	40 - 150
Benzene	ND		49.4	48.3		ug/Kg		98	65 - 130
Bromobenzene	ND		49.4	51.5		ug/Kg		104	65 - 140
1,1-Dichloroethane	ND		49.4	47.3		ug/Kg		96	65 - 135
Bromoform	ND		49.4	49.1		ug/Kg		99	50 - 145
1,2-Dichloroethane	ND		49.4	44.7		ug/Kg		90	60 - 150
Bromomethane	ND		49.4	46.3		ug/Kg		94	60 - 155
1,1-Dichloroethene	ND		49.4	52.6		ug/Kg		107	65 - 135
Carbon disulfide	ND		49.4	50.6		ug/Kg		102	40 - 140
Carbon tetrachloride	ND		49.4	42.3		ug/Kg		86	60 - 145
Chlorobenzene	ND		49.4	47.4		ug/Kg		96	70 - 130
1,2-Dichloropropane	ND		49.4	52.4		ug/Kg		106	65 - 130
Chlorobromomethane	ND		49.4	49.9		ug/Kg		101	65 - 145
Chlorodibromomethane	ND		49.4	49.5		ug/Kg		100	60 - 145
Chloroethane	ND		49.4	49.8		ug/Kg		101	60 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-229658-A-1 MS
Matrix: Solid
Analysis Batch: 521861

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	ND		49.4	43.4		ug/Kg		88	65 - 135
Chloromethane	ND		49.4	48.7		ug/Kg		99	40 - 145
2-Hexanone	ND		49.4	54.1		ug/Kg		110	35 - 160
cis-1,2-Dichloroethene	ND		49.4	49.7		ug/Kg		101	65 - 135
cis-1,3-Dichloropropene	ND		49.4	53.9		ug/Kg		109	70 - 135
4-Isopropyltoluene	ND		49.4	42.8		ug/Kg		87	60 - 140
Dibromomethane	ND		49.4	52.2		ug/Kg		106	65 - 140
Dichlorobromomethane	ND		49.4	45.7		ug/Kg		92	65 - 145
4-Methyl-2-pentanone (MIBK)	ND		49.4	57.8		ug/Kg		117	40 - 155
Dichlorodifluoromethane	ND		49.4	37.0		ug/Kg		75	30 - 160
Ethylbenzene	ND		49.4	45.5		ug/Kg		92	70 - 135
Ethylene Dibromide	ND		49.4	52.1		ug/Kg		105	65 - 140
Hexachlorobutadiene	ND		49.4	32.3		ug/Kg		65	50 - 145
1,1,1,2-Tetrachloroethane	ND		49.4	46.5		ug/Kg		94	65 - 145
Isopropylbenzene	ND		49.4	44.7		ug/Kg		90	70 - 145
1,1,2,2-Tetrachloroethane	ND		49.4	52.7		ug/Kg		107	40 - 160
Methyl tert-butyl ether	ND		49.4	46.4		ug/Kg		94	55 - 155
Methylene Chloride	ND		49.4	49.2		ug/Kg		99	55 - 145
1,2,3-Trichlorobenzene	ND		49.4	39.3		ug/Kg		80	45 - 145
Naphthalene	ND		49.4	38.3		ug/Kg		78	40 - 150
1,2,4-Trichlorobenzene	ND		49.4	39.9		ug/Kg		81	50 - 140
n-Butylbenzene	ND		49.4	43.9		ug/Kg		89	55 - 145
1,1,1-Trichloroethane	ND		49.4	41.7		ug/Kg		84	65 - 145
N-Propylbenzene	ND		49.4	47.3		ug/Kg		96	65 - 140
1,1,2-Trichloroethane	ND		49.4	57.7		ug/Kg		117	65 - 140
sec-Butylbenzene	ND		49.4	42.7		ug/Kg		86	60 - 135
Styrene	ND		49.4	44.3		ug/Kg		90	70 - 140
1,2,3-Trichloropropane	ND		49.4	50.0		ug/Kg		101	50 - 150
tert-Butylbenzene	ND		49.4	43.0		ug/Kg		87	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.4	47.4		ug/Kg		96	60 - 140
Tetrachloroethene	ND		49.4	51.9		ug/Kg		105	65 - 135
1,2,4-Trimethylbenzene	ND		49.4	43.9		ug/Kg		89	65 - 140
Toluene	ND		49.4	48.7		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	ND		49.4	44.1		ug/Kg		89	65 - 135
trans-1,2-Dichloroethene	ND		49.4	51.7		ug/Kg		105	70 - 135
trans-1,3-Dichloropropene	ND		49.4	50.4		ug/Kg		102	60 - 145
m-Xylene & p-Xylene	ND		49.4	48.1		ug/Kg		97	70 - 130
Trichloroethene	ND		49.4	48.0		ug/Kg		97	65 - 140
o-Xylene	ND		49.4	46.7		ug/Kg		95	65 - 130
Trichlorofluoromethane	ND		49.4	39.9		ug/Kg		81	55 - 155
Vinyl acetate	ND		49.4	49.7		ug/Kg		101	40 - 150
Vinyl chloride	ND		49.4	48.2		ug/Kg		98	55 - 140
2,2-Dichloropropane	ND		49.4	46.2		ug/Kg		93	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*111*		*79 - 123*

Lab Sample ID: 440-229658-A-1 MSD
Matrix: Solid
Analysis Batch: 521861

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		49.5	51.2		ug/Kg		103	70 - 130	6	25
1,3-Dichlorobenzene	ND		49.5	50.3		ug/Kg		102	70 - 130	7	25
2-Butanone (MEK)	ND		49.5	50.7		ug/Kg		102	25 - 170	5	40
1,4-Dichlorobenzene	ND		49.5	50.8		ug/Kg		103	70 - 130	8	25
2-Chlorotoluene	ND		49.5	48.3		ug/Kg		98	60 - 135	10	25
1,3-Dichloropropane	ND		49.5	54.4		ug/Kg		110	65 - 140	6	25
1,1-Dichloropropene	ND		49.5	52.6		ug/Kg		106	65 - 135	10	20
4-Chlorotoluene	ND		49.5	49.6		ug/Kg		100	65 - 135	10	25
1,2-Dibromo-3-Chloropropane	ND		49.5	42.7		ug/Kg		86	40 - 150	8	30
Benzene	ND		49.5	53.3		ug/Kg		108	65 - 130	10	20
Bromobenzene	ND		49.5	55.4		ug/Kg		112	65 - 140	7	25
1,1-Dichloroethane	ND		49.5	50.5		ug/Kg		102	65 - 135	7	25
Bromoform	ND		49.5	49.6		ug/Kg		100	50 - 145	1	30
1,2-Dichloroethane	ND		49.5	46.1		ug/Kg		93	60 - 150	3	25
Bromomethane	ND		49.5	50.7		ug/Kg		102	60 - 155	9	25
1,1-Dichloroethene	ND		49.5	57.1		ug/Kg		115	65 - 135	8	25
Carbon disulfide	ND		49.5	54.2		ug/Kg		109	40 - 140	7	20
Carbon tetrachloride	ND		49.5	46.2		ug/Kg		93	60 - 145	9	25
Chlorobenzene	ND		49.5	50.8		ug/Kg		103	70 - 130	7	25
1,2-Dichloropropane	ND		49.5	56.6		ug/Kg		114	65 - 130	8	20
Chlorobromomethane	ND		49.5	52.0		ug/Kg		105	65 - 145	4	25
Chlorodibromomethane	ND		49.5	53.2		ug/Kg		107	60 - 145	7	25
Chloroethane	ND		49.5	57.0		ug/Kg		115	60 - 150	13	25
Chloroform	ND		49.5	46.9		ug/Kg		95	65 - 135	8	20
Chloromethane	ND		49.5	53.6		ug/Kg		108	40 - 145	10	25
2-Hexanone	ND		49.5	49.8		ug/Kg		101	35 - 160	8	40
cis-1,2-Dichloroethene	ND		49.5	52.1		ug/Kg		105	65 - 135	5	25
cis-1,3-Dichloropropene	ND		49.5	57.7		ug/Kg		117	70 - 135	7	25
4-Isopropyltoluene	ND		49.5	48.2		ug/Kg		97	60 - 140	12	25
Dibromomethane	ND		49.5	52.9		ug/Kg		107	65 - 140	1	25
Dichlorobromomethane	ND		49.5	48.6		ug/Kg		98	65 - 145	6	20
4-Methyl-2-pentanone (MIBK)	ND		49.5	58.1		ug/Kg		117	40 - 155	0	40
Dichlorodifluoromethane	ND		49.5	39.0		ug/Kg		79	30 - 160	5	35
Ethylbenzene	ND		49.5	50.4		ug/Kg		102	70 - 135	10	25
Ethylene Dibromide	ND		49.5	53.6		ug/Kg		108	65 - 140	3	25
Hexachlorobutadiene	ND		49.5	33.3		ug/Kg		67	50 - 145	3	35
1,1,1,2-Tetrachloroethane	ND		49.5	50.3		ug/Kg		102	65 - 145	8	20
Isopropylbenzene	ND		49.5	49.2		ug/Kg		99	70 - 145	10	25
1,1,2,2-Tetrachloroethane	ND		49.5	54.5		ug/Kg		110	40 - 160	3	30
Methyl tert-butyl ether	ND		49.5	49.6		ug/Kg		100	55 - 155	7	35
Methylene Chloride	ND		49.5	51.5		ug/Kg		104	55 - 145	5	25
1,2,3-Trichlorobenzene	ND		49.5	34.9		ug/Kg		71	45 - 145	12	30
Naphthalene	ND		49.5	34.8		ug/Kg		70	40 - 150	10	40
1,2,4-Trichlorobenzene	ND		49.5	36.6		ug/Kg		74	50 - 140	9	30
n-Butylbenzene	ND		49.5	47.5		ug/Kg		96	55 - 145	8	30
1,1,1-Trichloroethane	ND		49.5	45.3		ug/Kg		91	65 - 145	8	20
N-Propylbenzene	ND		49.5	52.3		ug/Kg		106	65 - 140	10	25
1,1,2-Trichloroethane	ND		49.5	59.2		ug/Kg		120	65 - 140	3	30
sec-Butylbenzene	ND		49.5	49.5		ug/Kg		100	60 - 135	15	25
Styrene	ND		49.5	48.3		ug/Kg		98	70 - 140	9	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-229658-A-1 MSD
Matrix: Solid
Analysis Batch: 521861

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		49.5	49.2		ug/Kg		99	50 - 150	2	30
tert-Butylbenzene	ND		49.5	47.7		ug/Kg		96	60 - 140	10	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.5	51.2		ug/Kg		103	60 - 140	8	40
Tetrachloroethene	ND		49.5	54.7		ug/Kg		110	65 - 135	5	25
1,2,4-Trimethylbenzene	ND		49.5	48.7		ug/Kg		98	65 - 140	10	25
Toluene	ND		49.5	52.8		ug/Kg		107	70 - 130	8	20
1,3,5-Trimethylbenzene	ND		49.5	48.5		ug/Kg		98	65 - 135	10	25
trans-1,2-Dichloroethene	ND		49.5	56.2		ug/Kg		114	70 - 135	8	25
trans-1,3-Dichloropropene	ND		49.5	53.3		ug/Kg		108	60 - 145	5	25
m-Xylene & p-Xylene	ND		49.5	52.3		ug/Kg		106	70 - 130	8	25
Trichloroethene	ND		49.5	52.2		ug/Kg		105	65 - 140	8	25
o-Xylene	ND		49.5	52.3		ug/Kg		106	65 - 130	11	25
Trichlorofluoromethane	ND		49.5	42.7		ug/Kg		86	55 - 155	7	25
Vinyl acetate	ND		49.5	38.4		ug/Kg		78	40 - 150	26	30
Vinyl chloride	ND		49.5	55.2		ug/Kg		112	55 - 140	14	30
2,2-Dichloropropane	ND		49.5	49.6		ug/Kg		100	65 - 150	7	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*111*		*79 - 123*

Lab Sample ID: MB 440-522040/6
Matrix: Solid
Analysis Batch: 522040

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/11/19 19:47	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/11/19 19:47	1
Benzene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Bromoform	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/11/19 19:47	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/11/19 19:47	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522040/6
Matrix: Solid
Analysis Batch: 522040

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Chloroform	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
2-Hexanone	ND		10	5.0	ug/Kg			01/11/19 19:47	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/11/19 19:47	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/11/19 19:47	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/11/19 19:47	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Styrene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/11/19 19:47	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/11/19 19:47	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Toluene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/11/19 19:47	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/11/19 19:47	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/11/19 19:47	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/11/19 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*		*01/11/19 19:47*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/11/19 19:47*	*1*

Lab Sample ID: LCS 440-522040/7
Matrix: Solid
Analysis Batch: 522040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	44.6		ug/Kg		89	75 - 120
1,3-Dichlorobenzene	50.0	44.6		ug/Kg		89	75 - 125
2-Butanone (MEK)	50.0	52.4		ug/Kg		105	40 - 145
1,4-Dichlorobenzene	50.0	44.8		ug/Kg		90	75 - 120
2-Chlorotoluene	50.0	45.4		ug/Kg		91	70 - 125
1,3-Dichloropropane	50.0	46.0		ug/Kg		92	70 - 125
1,1-Dichloropropene	50.0	46.9		ug/Kg		94	70 - 130
4-Chlorotoluene	50.0	46.5		ug/Kg		93	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.4		ug/Kg		105	50 - 135
Benzene	50.0	45.3		ug/Kg		91	65 - 120
Bromobenzene	50.0	45.9		ug/Kg		92	75 - 120
1,1-Dichloroethane	50.0	50.7		ug/Kg		101	70 - 130
Bromoform	50.0	49.6		ug/Kg		99	55 - 135
1,2-Dichloroethane	50.0	55.1		ug/Kg		110	60 - 140
Bromomethane	50.0	51.6		ug/Kg		103	60 - 145
1,1-Dichloroethene	50.0	48.5		ug/Kg		97	70 - 125
Carbon disulfide	50.0	45.9		ug/Kg		92	50 - 130
Carbon tetrachloride	50.0	52.3		ug/Kg		105	65 - 140
Chlorobenzene	50.0	44.1		ug/Kg		88	75 - 120
1,2-Dichloropropane	50.0	51.9		ug/Kg		104	70 - 130
Chlorobromomethane	50.0	49.4		ug/Kg		99	70 - 135
Chlorodibromomethane	50.0	49.7		ug/Kg		99	65 - 140
Chloroethane	50.0	48.9		ug/Kg		98	60 - 140
Chloroform	50.0	51.6		ug/Kg		103	70 - 130
Chloromethane	50.0	44.7		ug/Kg		89	45 - 145
2-Hexanone	50.0	69.1		ug/Kg		138	40 - 150
cis-1,2-Dichloroethene	50.0	46.0		ug/Kg		92	70 - 125
cis-1,3-Dichloropropene	50.0	50.3		ug/Kg		101	75 - 125
4-Isopropyltoluene	50.0	46.1		ug/Kg		92	75 - 125
Dibromomethane	50.0	46.2		ug/Kg		92	70 - 130
Dichlorobromomethane	50.0	53.3		ug/Kg		107	70 - 135
4-Methyl-2-pentanone (MIBK)	50.0	64.9		ug/Kg		130	40 - 145
Dichlorodifluoromethane	50.0	43.1		ug/Kg		86	35 - 160
Ethylbenzene	50.0	46.4		ug/Kg		93	70 - 125
Ethylene Dibromide	50.0	46.2		ug/Kg		92	70 - 130
Hexachlorobutadiene	50.0	39.2		ug/Kg		78	60 - 135
1,1,1,2-Tetrachloroethane	50.0	48.8		ug/Kg		98	70 - 130
Isopropylbenzene	50.0	46.1		ug/Kg		92	75 - 130
1,1,2,2-Tetrachloroethane	50.0	45.9		ug/Kg		92	55 - 140
Methyl tert-butyl ether	50.0	49.5		ug/Kg		99	60 - 140
Methylene Chloride	50.0	43.1		ug/Kg		86	55 - 135
1,2,3-Trichlorobenzene	50.0	40.5		ug/Kg		81	60 - 130
Naphthalene	50.0	41.5		ug/Kg		83	55 - 135
1,2,4-Trichlorobenzene	50.0	41.0		ug/Kg		82	70 - 135
n-Butylbenzene	50.0	47.9		ug/Kg		96	70 - 130
1,1,1-Trichloroethane	50.0	52.8		ug/Kg		106	65 - 135
N-Propylbenzene	50.0	46.2		ug/Kg		92	70 - 130
1,1,2-Trichloroethane	50.0	49.2		ug/Kg		98	65 - 135
sec-Butylbenzene	50.0	47.1		ug/Kg		94	70 - 125
Styrene	50.0	44.8		ug/Kg		90	75 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522040/7
Matrix: Solid
Analysis Batch: 522040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	60 - 135
tert-Butylbenzene	50.0	46.1		ug/Kg		92	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.3		ug/Kg		99	60 - 140
Tetrachloroethene	50.0	43.2		ug/Kg		86	70 - 125
1,2,4-Trimethylbenzene	50.0	46.7		ug/Kg		93	70 - 125
Toluene	50.0	43.4		ug/Kg		87	70 - 125
1,3,5-Trimethylbenzene	50.0	46.0		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	70 - 125
trans-1,3-Dichloropropene	50.0	51.2		ug/Kg		102	70 - 135
m-Xylene & p-Xylene	50.0	46.0		ug/Kg		92	70 - 125
Trichloroethene	50.0	45.5		ug/Kg		91	70 - 125
o-Xylene	50.0	44.8		ug/Kg		90	70 - 125
Trichlorofluoromethane	50.0	54.9		ug/Kg		110	60 - 145
Vinyl acetate	50.0	63.1		ug/Kg		126	45 - 145
Vinyl chloride	50.0	42.3		ug/Kg		85	55 - 135
2,2-Dichloropropane	50.0	50.8		ug/Kg		102	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-522040/11
Matrix: Solid
Analysis Batch: 522040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	47.2		ug/Kg		94	75 - 120	6	20
1,3-Dichlorobenzene	50.0	47.7		ug/Kg		95	75 - 125	7	20
2-Butanone (MEK)	50.0	48.2		ug/Kg		96	40 - 145	8	35
1,4-Dichlorobenzene	50.0	47.3		ug/Kg		95	75 - 120	5	20
2-Chlorotoluene	50.0	47.5		ug/Kg		95	70 - 125	5	20
1,3-Dichloropropane	50.0	46.7		ug/Kg		93	70 - 125	1	20
1,1-Dichloropropene	50.0	47.8		ug/Kg		96	70 - 130	2	20
4-Chlorotoluene	50.0	49.1		ug/Kg		98	75 - 125	6	20
1,2-Dibromo-3-Chloropropane	50.0	54.7		ug/Kg		109	50 - 135	4	30
Benzene	50.0	46.0		ug/Kg		92	65 - 120	1	20
Bromobenzene	50.0	47.9		ug/Kg		96	75 - 120	4	20
1,1-Dichloroethane	50.0	50.3		ug/Kg		101	70 - 130	1	20
Bromoform	50.0	47.4		ug/Kg		95	55 - 135	5	25
1,2-Dichloroethane	50.0	54.9		ug/Kg		110	60 - 140	0	20
Bromomethane	50.0	51.4		ug/Kg		103	60 - 145	1	20
1,1-Dichloroethene	50.0	49.7		ug/Kg		99	70 - 125	2	20
Carbon disulfide	50.0	46.8		ug/Kg		94	50 - 130	2	20
Carbon tetrachloride	50.0	53.6		ug/Kg		107	65 - 140	2	20
Chlorobenzene	50.0	44.1		ug/Kg		88	75 - 120	0	20
1,2-Dichloropropane	50.0	51.7		ug/Kg		103	70 - 130	0	20
Chlorobromomethane	50.0	49.3		ug/Kg		99	70 - 135	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522040/11
Matrix: Solid
Analysis Batch: 522040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorodibromomethane	50.0	50.1		ug/Kg		100	65 - 140	1	20
Chloroethane	50.0	51.7		ug/Kg		103	60 - 140	6	25
Chloroform	50.0	51.4		ug/Kg		103	70 - 130	0	20
Chloromethane	50.0	46.4		ug/Kg		93	45 - 145	4	25
2-Hexanone	50.0	68.4		ug/Kg		137	40 - 150	1	35
cis-1,2-Dichloroethene	50.0	46.1		ug/Kg		92	70 - 125	0	20
cis-1,3-Dichloropropene	50.0	50.3		ug/Kg		101	75 - 125	0	20
4-Isopropyltoluene	50.0	49.3		ug/Kg		99	75 - 125	7	20
Dibromomethane	50.0	46.8		ug/Kg		94	70 - 130	1	20
Dichlorobromomethane	50.0	52.8		ug/Kg		106	70 - 135	1	20
4-Methyl-2-pentanone (MIBK)	50.0	65.8		ug/Kg		132	40 - 145	1	35
Dichlorodifluoromethane	50.0	43.8		ug/Kg		88	35 - 160	2	30
Ethylbenzene	50.0	46.4		ug/Kg		93	70 - 125	0	20
Ethylene Dibromide	50.0	45.5		ug/Kg		91	70 - 130	1	20
Hexachlorobutadiene	50.0	41.7		ug/Kg		83	60 - 135	6	20
1,1,1,2-Tetrachloroethane	50.0	48.7		ug/Kg		97	70 - 130	0	20
Isopropylbenzene	50.0	47.0		ug/Kg		94	75 - 130	2	20
1,1,2,2-Tetrachloroethane	50.0	47.1		ug/Kg		94	55 - 140	2	30
Methyl tert-butyl ether	50.0	51.9		ug/Kg		104	60 - 140	5	25
Methylene Chloride	50.0	46.4		ug/Kg		93	55 - 135	7	20
1,2,3-Trichlorobenzene	50.0	43.1		ug/Kg		86	60 - 130	6	20
Naphthalene	50.0	43.7		ug/Kg		87	55 - 135	5	25
1,2,4-Trichlorobenzene	50.0	43.8		ug/Kg		88	70 - 135	7	20
n-Butylbenzene	50.0	51.1		ug/Kg		102	70 - 130	6	20
1,1,1-Trichloroethane	50.0	55.3		ug/Kg		111	65 - 135	5	20
N-Propylbenzene	50.0	49.5		ug/Kg		99	70 - 130	7	20
1,1,2-Trichloroethane	50.0	47.3		ug/Kg		95	65 - 135	4	20
sec-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 125	5	20
Styrene	50.0	45.9		ug/Kg		92	75 - 130	2	20
1,2,3-Trichloropropane	50.0	49.9		ug/Kg		100	60 - 135	2	25
tert-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 125	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.8		ug/Kg		98	60 - 140	1	40
Tetrachloroethene	50.0	45.0		ug/Kg		90	70 - 125	4	20
1,2,4-Trimethylbenzene	50.0	49.3		ug/Kg		99	70 - 125	5	20
Toluene	50.0	44.2		ug/Kg		88	70 - 125	2	20
1,3,5-Trimethylbenzene	50.0	48.1		ug/Kg		96	70 - 125	4	20
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	70 - 125	3	20
trans-1,3-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 135	1	20
m-Xylene & p-Xylene	50.0	46.3		ug/Kg		93	70 - 125	1	20
Trichloroethene	50.0	47.5		ug/Kg		95	70 - 125	4	20
o-Xylene	50.0	46.0		ug/Kg		92	70 - 125	3	20
Trichlorofluoromethane	50.0	56.6		ug/Kg		113	60 - 145	3	25
Vinyl acetate	50.0	62.3		ug/Kg		125	45 - 145	1	20
Vinyl chloride	50.0	42.3		ug/Kg		85	55 - 135	0	25
2,2-Dichloropropane	50.0	53.2		ug/Kg		106	60 - 145	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522040/11
Matrix: Solid
Analysis Batch: 522040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: MB 440-522083/4
Matrix: Solid
Analysis Batch: 522083

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/12/19 09:45	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/12/19 09:45	1
Benzene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Bromoform	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/12/19 09:45	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/12/19 09:45	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Chloroform	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
2-Hexanone	ND		10	5.0	ug/Kg			01/12/19 09:45	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/12/19 09:45	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522083/4
Matrix: Solid
Analysis Batch: 522083

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		10	5.0	ug/Kg			01/12/19 09:45	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/12/19 09:45	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Styrene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/12/19 09:45	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/12/19 09:45	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Toluene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/12/19 09:45	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/12/19 09:45	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/12/19 09:45	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/12/19 09:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*		*01/12/19 09:45*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*		*01/12/19 09:45*	*1*

Lab Sample ID: LCS 440-522083/5
Matrix: Solid
Analysis Batch: 522083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	44.0		ug/Kg		88	75 - 120
1,3-Dichlorobenzene	50.0	44.6		ug/Kg		89	75 - 125
2-Butanone (MEK)	50.0	45.5		ug/Kg		91	40 - 145
1,4-Dichlorobenzene	50.0	44.0		ug/Kg		88	75 - 120
2-Chlorotoluene	50.0	45.3		ug/Kg		91	70 - 125
1,3-Dichloropropane	50.0	47.7		ug/Kg		95	70 - 125
1,1-Dichloropropene	50.0	45.8		ug/Kg		92	70 - 130
4-Chlorotoluene	50.0	46.6		ug/Kg		93	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	47.9		ug/Kg		96	50 - 135
Benzene	50.0	44.3		ug/Kg		89	65 - 120
Bromobenzene	50.0	44.8		ug/Kg		90	75 - 120
1,1-Dichloroethane	50.0	48.5		ug/Kg		97	70 - 130
Bromoform	50.0	48.9		ug/Kg		98	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522083/5
Matrix: Solid
Analysis Batch: 522083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	53.3		ug/Kg		107	60 - 140
Bromomethane	50.0	49.2		ug/Kg		98	60 - 145
1,1-Dichloroethene	50.0	46.5		ug/Kg		93	70 - 125
Carbon disulfide	50.0	44.1		ug/Kg		88	50 - 130
Carbon tetrachloride	50.0	52.3		ug/Kg		105	65 - 140
Chlorobenzene	50.0	43.0		ug/Kg		86	75 - 120
1,2-Dichloropropane	50.0	49.5		ug/Kg		99	70 - 130
Chlorobromomethane	50.0	47.1		ug/Kg		94	70 - 135
Chlorodibromomethane	50.0	49.8		ug/Kg		100	65 - 140
Chloroethane	50.0	48.3		ug/Kg		97	60 - 140
Chloroform	50.0	48.3		ug/Kg		97	70 - 130
Chloromethane	50.0	41.9		ug/Kg		84	45 - 145
2-Hexanone	50.0	66.0		ug/Kg		132	40 - 150
cis-1,2-Dichloroethene	50.0	44.1		ug/Kg		88	70 - 125
cis-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	75 - 125
4-Isopropyltoluene	50.0	45.2		ug/Kg		90	75 - 125
Dibromomethane	50.0	45.0		ug/Kg		90	70 - 130
Dichlorobromomethane	50.0	52.1		ug/Kg		104	70 - 135
4-Methyl-2-pentanone (MIBK)	50.0	64.5		ug/Kg		129	40 - 145
Dichlorodifluoromethane	50.0	41.7		ug/Kg		83	35 - 160
Ethylbenzene	50.0	45.2		ug/Kg		90	70 - 125
Ethylene Dibromide	50.0	46.0		ug/Kg		92	70 - 130
Hexachlorobutadiene	50.0	37.6		ug/Kg		75	60 - 135
1,1,1,2-Tetrachloroethane	50.0	47.1		ug/Kg		94	70 - 130
Isopropylbenzene	50.0	46.2		ug/Kg		92	75 - 130
1,1,2,2-Tetrachloroethane	50.0	45.9		ug/Kg		92	55 - 140
Methyl tert-butyl ether	50.0	48.0		ug/Kg		96	60 - 140
Methylene Chloride	50.0	42.4		ug/Kg		85	55 - 135
1,2,3-Trichlorobenzene	50.0	39.7		ug/Kg		79	60 - 130
Naphthalene	50.0	41.0		ug/Kg		82	55 - 135
1,2,4-Trichlorobenzene	50.0	39.1		ug/Kg		78	70 - 135
n-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 130
1,1,1-Trichloroethane	50.0	51.5		ug/Kg		103	65 - 135
N-Propylbenzene	50.0	46.6		ug/Kg		93	70 - 130
1,1,2-Trichloroethane	50.0	49.4		ug/Kg		99	65 - 135
sec-Butylbenzene	50.0	46.1		ug/Kg		92	70 - 125
Styrene	50.0	44.9		ug/Kg		90	75 - 130
1,2,3-Trichloropropane	50.0	49.7		ug/Kg		99	60 - 135
tert-Butylbenzene	50.0	45.9		ug/Kg		92	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.5		ug/Kg		95	60 - 140
Tetrachloroethene	50.0	43.8		ug/Kg		88	70 - 125
1,2,4-Trimethylbenzene	50.0	46.0		ug/Kg		92	70 - 125
Toluene	50.0	43.2		ug/Kg		86	70 - 125
1,3,5-Trimethylbenzene	50.0	45.3		ug/Kg		91	70 - 125
trans-1,2-Dichloroethene	50.0	46.3		ug/Kg		93	70 - 125
trans-1,3-Dichloropropene	50.0	51.1		ug/Kg		102	70 - 135
m-Xylene & p-Xylene	50.0	44.7		ug/Kg		89	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522083/5
Matrix: Solid
Analysis Batch: 522083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichloroethene			50.0	43.6		ug/Kg		87	70 - 125		
o-Xylene			50.0	44.5		ug/Kg		89	70 - 125		
Trichlorofluoromethane			50.0	54.0		ug/Kg		108	60 - 145		
Vinyl acetate			50.0	62.9		ug/Kg		126	45 - 145		
Vinyl chloride			50.0	40.8		ug/Kg		82	55 - 135		
2,2-Dichloropropane			50.0	48.7		ug/Kg		97	60 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: LCSD 440-522083/6
Matrix: Solid
Analysis Batch: 522083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	44.8		ug/Kg		90	75 - 120	2	20
1,3-Dichlorobenzene			50.0	45.6		ug/Kg		91	75 - 125	2	20
2-Butanone (MEK)			50.0	49.3		ug/Kg		99	40 - 145	8	35
1,4-Dichlorobenzene			50.0	45.7		ug/Kg		91	75 - 120	4	20
2-Chlorotoluene			50.0	46.1		ug/Kg		92	70 - 125	2	20
1,3-Dichloropropane			50.0	48.7		ug/Kg		97	70 - 125	2	20
1,1-Dichloropropene			50.0	46.4		ug/Kg		93	70 - 130	1	20
4-Chlorotoluene			50.0	47.7		ug/Kg		95	75 - 125	2	20
1,2-Dibromo-3-Chloropropane			50.0	51.0		ug/Kg		102	50 - 135	6	30
Benzene			50.0	45.1		ug/Kg		90	65 - 120	2	20
Bromobenzene			50.0	46.4		ug/Kg		93	75 - 120	4	20
1,1-Dichloroethane			50.0	49.3		ug/Kg		99	70 - 130	1	20
Bromoform			50.0	49.5		ug/Kg		99	55 - 135	1	25
1,2-Dichloroethane			50.0	53.8		ug/Kg		108	60 - 140	1	20
Bromomethane			50.0	50.5		ug/Kg		101	60 - 145	3	20
1,1-Dichloroethene			50.0	46.7		ug/Kg		93	70 - 125	0	20
Carbon disulfide			50.0	44.3		ug/Kg		89	50 - 130	0	20
Carbon tetrachloride			50.0	51.9		ug/Kg		104	65 - 140	1	20
Chlorobenzene			50.0	44.3		ug/Kg		89	75 - 120	3	20
1,2-Dichloropropane			50.0	51.7		ug/Kg		103	70 - 130	4	20
Chlorobromomethane			50.0	47.0		ug/Kg		94	70 - 135	0	20
Chlorodibromomethane			50.0	50.8		ug/Kg		102	65 - 140	2	20
Chloroethane			50.0	48.0		ug/Kg		96	60 - 140	1	25
Chloroform			50.0	49.3		ug/Kg		99	70 - 130	2	20
Chloromethane			50.0	45.1		ug/Kg		90	45 - 145	7	25
2-Hexanone			50.0	68.5		ug/Kg		137	40 - 150	4	35
cis-1,2-Dichloroethene			50.0	45.3		ug/Kg		91	70 - 125	3	20
cis-1,3-Dichloropropene			50.0	50.6		ug/Kg		101	75 - 125	3	20
4-Isopropyltoluene			50.0	45.9		ug/Kg		92	75 - 125	2	20
Dibromomethane			50.0	46.3		ug/Kg		93	70 - 130	3	20
Dichlorobromomethane			50.0	53.5		ug/Kg		107	70 - 135	3	20
4-Methyl-2-pentanone (MIBK)			50.0	65.9		ug/Kg		132	40 - 145	2	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522083/6
Matrix: Solid
Analysis Batch: 522083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			50.0	45.2		ug/Kg		90	35 - 160	8	30
Ethylbenzene			50.0	46.2		ug/Kg		92	70 - 125	2	20
Ethylene Dibromide			50.0	47.3		ug/Kg		95	70 - 130	3	20
Hexachlorobutadiene			50.0	38.5		ug/Kg		77	60 - 135	2	20
1,1,1,2-Tetrachloroethane			50.0	46.9		ug/Kg		94	70 - 130	1	20
Isopropylbenzene			50.0	46.2		ug/Kg		92	75 - 130	0	20
1,1,2,2-Tetrachloroethane			50.0	47.3		ug/Kg		95	55 - 140	3	30
Methyl tert-butyl ether			50.0	50.2		ug/Kg		100	60 - 140	4	25
Methylene Chloride			50.0	42.3		ug/Kg		85	55 - 135	0	20
1,2,3-Trichlorobenzene			50.0	41.8		ug/Kg		84	60 - 130	5	20
Naphthalene			50.0	44.0		ug/Kg		88	55 - 135	7	25
1,2,4-Trichlorobenzene			50.0	40.0		ug/Kg		80	70 - 135	2	20
n-Butylbenzene			50.0	47.9		ug/Kg		96	70 - 130	1	20
1,1,1-Trichloroethane			50.0	51.1		ug/Kg		102	65 - 135	1	20
N-Propylbenzene			50.0	47.7		ug/Kg		95	70 - 130	2	20
1,1,2-Trichloroethane			50.0	50.8		ug/Kg		102	65 - 135	3	20
sec-Butylbenzene			50.0	47.1		ug/Kg		94	70 - 125	2	20
Styrene			50.0	45.8		ug/Kg		92	75 - 130	2	20
1,2,3-Trichloropropane			50.0	50.2		ug/Kg		100	60 - 135	1	25
tert-Butylbenzene			50.0	46.2		ug/Kg		92	70 - 125	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	47.7		ug/Kg		95	60 - 140	1	40
Tetrachloroethene			50.0	43.9		ug/Kg		88	70 - 125	0	20
1,2,4-Trimethylbenzene			50.0	47.0		ug/Kg		94	70 - 125	2	20
Toluene			50.0	43.5		ug/Kg		87	70 - 125	1	20
1,3,5-Trimethylbenzene			50.0	45.9		ug/Kg		92	70 - 125	1	20
trans-1,2-Dichloroethene			50.0	47.4		ug/Kg		95	70 - 125	2	20
trans-1,3-Dichloropropene			50.0	52.8		ug/Kg		106	70 - 135	3	20
m-Xylene & p-Xylene			50.0	46.1		ug/Kg		92	70 - 125	3	20
Trichloroethene			50.0	45.0		ug/Kg		90	70 - 125	3	20
o-Xylene			50.0	45.2		ug/Kg		90	70 - 125	2	20
Trichlorofluoromethane			50.0	53.6		ug/Kg		107	60 - 145	1	25
Vinyl acetate			50.0	66.0		ug/Kg		132	45 - 145	5	20
Vinyl chloride			50.0	42.2		ug/Kg		84	55 - 135	3	25
2,2-Dichloropropane			50.0	47.8		ug/Kg		96	60 - 145	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-522204/4
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/14/19 08:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522204/4
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/14/19 08:23	1
Benzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Bromoform	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/14/19 08:23	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/14/19 08:23	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Chloroform	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
2-Hexanone	ND		10	5.0	ug/Kg			01/14/19 08:23	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/14/19 08:23	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/14/19 08:23	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/14/19 08:23	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Styrene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/14/19 08:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522204/4
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/14/19 08:23	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Toluene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/14/19 08:23	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/14/19 08:23	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*01/14/19 08:23*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/14/19 08:23*	*1*

Lab Sample ID: LCS 440-522204/5
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	43.7		ug/Kg		87	75 - 120
1,3-Dichlorobenzene	50.0	45.0		ug/Kg		90	75 - 125
2-Butanone (MEK)	50.0	48.8		ug/Kg		98	40 - 145
1,4-Dichlorobenzene	50.0	46.1		ug/Kg		92	75 - 120
2-Chlorotoluene	50.0	44.9		ug/Kg		90	70 - 125
1,3-Dichloropropane	50.0	47.3		ug/Kg		95	70 - 125
1,1-Dichloropropene	50.0	46.0		ug/Kg		92	70 - 130
4-Chlorotoluene	50.0	46.7		ug/Kg		93	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/Kg		99	50 - 135
Benzene	50.0	45.4		ug/Kg		91	65 - 120
Bromobenzene	50.0	46.0		ug/Kg		92	75 - 120
1,1-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 130
Bromoform	50.0	49.9		ug/Kg		100	55 - 135
1,2-Dichloroethane	50.0	56.6		ug/Kg		113	60 - 140
Bromomethane	50.0	48.8		ug/Kg		98	60 - 145
1,1-Dichloroethene	50.0	45.5		ug/Kg		91	70 - 125
Carbon disulfide	50.0	43.4		ug/Kg		87	50 - 130
Carbon tetrachloride	50.0	53.6		ug/Kg		107	65 - 140
Chlorobenzene	50.0	42.5		ug/Kg		85	75 - 120
1,2-Dichloropropane	50.0	49.9		ug/Kg		100	70 - 130
Chlorobromomethane	50.0	48.5		ug/Kg		97	70 - 135
Chlorodibromomethane	50.0	49.8		ug/Kg		100	65 - 140
Chloroethane	50.0	49.5		ug/Kg		99	60 - 140
Chloroform	50.0	50.0		ug/Kg		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522204/5
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	40.2		ug/Kg		80	45 - 145
2-Hexanone	50.0	66.3		ug/Kg		133	40 - 150
cis-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	70 - 125
cis-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	75 - 125
4-Isopropyltoluene	50.0	46.0		ug/Kg		92	75 - 125
Dibromomethane	50.0	46.7		ug/Kg		93	70 - 130
Dichlorobromomethane	50.0	52.4		ug/Kg		105	70 - 135
4-Methyl-2-pentanone (MIBK)	50.0	62.4		ug/Kg		125	40 - 145
Dichlorodifluoromethane	50.0	42.0		ug/Kg		84	35 - 160
Ethylbenzene	50.0	45.0		ug/Kg		90	70 - 125
Ethylene Dibromide	50.0	46.0		ug/Kg		92	70 - 130
Hexachlorobutadiene	50.0	38.3		ug/Kg		77	60 - 135
1,1,1,2-Tetrachloroethane	50.0	47.4		ug/Kg		95	70 - 130
Isopropylbenzene	50.0	45.3		ug/Kg		91	75 - 130
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	55 - 140
Methyl tert-butyl ether	50.0	48.9		ug/Kg		98	60 - 140
Methylene Chloride	50.0	42.8		ug/Kg		86	55 - 135
1,2,3-Trichlorobenzene	50.0	39.1		ug/Kg		78	60 - 130
Naphthalene	50.0	40.8		ug/Kg		82	55 - 135
1,2,4-Trichlorobenzene	50.0	39.4		ug/Kg		79	70 - 135
n-Butylbenzene	50.0	46.7		ug/Kg		93	70 - 130
1,1,1-Trichloroethane	50.0	52.3		ug/Kg		105	65 - 135
N-Propylbenzene	50.0	45.9		ug/Kg		92	70 - 130
1,1,2-Trichloroethane	50.0	47.5		ug/Kg		95	65 - 135
sec-Butylbenzene	50.0	45.5		ug/Kg		91	70 - 125
Styrene	50.0	44.9		ug/Kg		90	75 - 130
1,2,3-Trichloropropane	50.0	51.9		ug/Kg		104	60 - 135
tert-Butylbenzene	50.0	45.3		ug/Kg		91	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/Kg		94	60 - 140
Tetrachloroethene	50.0	41.8		ug/Kg		84	70 - 125
1,2,4-Trimethylbenzene	50.0	46.3		ug/Kg		93	70 - 125
Toluene	50.0	42.3		ug/Kg		85	70 - 125
1,3,5-Trimethylbenzene	50.0	45.8		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	70 - 125
trans-1,3-Dichloropropene	50.0	50.0		ug/Kg		100	70 - 135
m-Xylene & p-Xylene	50.0	44.5		ug/Kg		89	70 - 125
Trichloroethene	50.0	44.9		ug/Kg		90	70 - 125
o-Xylene	50.0	44.6		ug/Kg		89	70 - 125
Trichlorofluoromethane	50.0	54.4		ug/Kg		109	60 - 145
Vinyl acetate	50.0	65.0		ug/Kg		130	45 - 145
Vinyl chloride	50.0	39.8		ug/Kg		80	55 - 135
2,2-Dichloropropane	50.0	50.8		ug/Kg		102	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*
Toluene-d8 (Surr)	*96*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522204/6
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	44.2		ug/Kg		88	75 - 120	1	20
1,3-Dichlorobenzene	50.0	44.7		ug/Kg		89	75 - 125	1	20
2-Butanone (MEK)	50.0	52.4		ug/Kg		105	40 - 145	7	35
1,4-Dichlorobenzene	50.0	44.8		ug/Kg		90	75 - 120	3	20
2-Chlorotoluene	50.0	44.7		ug/Kg		89	70 - 125	1	20
1,3-Dichloropropane	50.0	47.4		ug/Kg		95	70 - 125	0	20
1,1-Dichloropropene	50.0	47.2		ug/Kg		94	70 - 130	2	20
4-Chlorotoluene	50.0	46.3		ug/Kg		93	75 - 125	1	20
1,2-Dibromo-3-Chloropropane	50.0	52.0		ug/Kg		104	50 - 135	5	30
Benzene	50.0	45.9		ug/Kg		92	65 - 120	1	20
Bromobenzene	50.0	45.9		ug/Kg		92	75 - 120	0	20
1,1-Dichloroethane	50.0	49.6		ug/Kg		99	70 - 130	3	20
Bromoform	50.0	48.4		ug/Kg		97	55 - 135	3	25
1,2-Dichloroethane	50.0	57.1		ug/Kg		114	60 - 140	1	20
Bromomethane	50.0	48.4		ug/Kg		97	60 - 145	1	20
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	70 - 125	5	20
Carbon disulfide	50.0	44.4		ug/Kg		89	50 - 130	2	20
Carbon tetrachloride	50.0	53.8		ug/Kg		108	65 - 140	0	20
Chlorobenzene	50.0	43.8		ug/Kg		88	75 - 120	3	20
1,2-Dichloropropane	50.0	52.2		ug/Kg		104	70 - 130	5	20
Chlorobromomethane	50.0	48.9		ug/Kg		98	70 - 135	1	20
Chlorodibromomethane	50.0	50.9		ug/Kg		102	65 - 140	2	20
Chloroethane	50.0	47.9		ug/Kg		96	60 - 140	3	25
Chloroform	50.0	51.1		ug/Kg		102	70 - 130	2	20
Chloromethane	50.0	44.4		ug/Kg		89	45 - 145	10	25
2-Hexanone	50.0	64.6		ug/Kg		129	40 - 150	3	35
cis-1,2-Dichloroethene	50.0	45.0		ug/Kg		90	70 - 125	1	20
cis-1,3-Dichloropropene	50.0	49.2		ug/Kg		98	75 - 125	2	20
4-Isopropyltoluene	50.0	44.9		ug/Kg		90	75 - 125	2	20
Dibromomethane	50.0	47.4		ug/Kg		95	70 - 130	2	20
Dichlorobromomethane	50.0	54.8		ug/Kg		110	70 - 135	5	20
4-Methyl-2-pentanone (MIBK)	50.0	62.1		ug/Kg		124	40 - 145	1	35
Dichlorodifluoromethane	50.0	44.9		ug/Kg		90	35 - 160	7	30
Ethylbenzene	50.0	45.6		ug/Kg		91	70 - 125	1	20
Ethylene Dibromide	50.0	45.9		ug/Kg		92	70 - 130	0	20
Hexachlorobutadiene	50.0	38.7		ug/Kg		77	60 - 135	1	20
1,1,1,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	70 - 130	1	20
Isopropylbenzene	50.0	46.1		ug/Kg		92	75 - 130	2	20
1,1,2,2-Tetrachloroethane	50.0	44.0		ug/Kg		88	55 - 140	5	30
Methyl tert-butyl ether	50.0	51.3		ug/Kg		103	60 - 140	5	25
Methylene Chloride	50.0	45.0		ug/Kg		90	55 - 135	5	20
1,2,3-Trichlorobenzene	50.0	40.7		ug/Kg		81	60 - 130	4	20
Naphthalene	50.0	42.2		ug/Kg		84	55 - 135	4	25
1,2,4-Trichlorobenzene	50.0	40.7		ug/Kg		81	70 - 135	3	20
n-Butylbenzene	50.0	46.7		ug/Kg		93	70 - 130	0	20
1,1,1-Trichloroethane	50.0	54.4		ug/Kg		109	65 - 135	4	20
N-Propylbenzene	50.0	45.9		ug/Kg		92	70 - 130	0	20
1,1,2-Trichloroethane	50.0	48.5		ug/Kg		97	65 - 135	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522204/6
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene			50.0	45.3		ug/Kg		91	70 - 125	0	20
Styrene			50.0	46.1		ug/Kg		92	75 - 130	3	20
1,2,3-Trichloropropane			50.0	47.9		ug/Kg		96	60 - 135	8	25
tert-Butylbenzene			50.0	44.6		ug/Kg		89	70 - 125	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.3		ug/Kg		97	60 - 140	3	40
Tetrachloroethene			50.0	42.2		ug/Kg		84	70 - 125	1	20
1,2,4-Trimethylbenzene			50.0	46.6		ug/Kg		93	70 - 125	0	20
Toluene			50.0	43.0		ug/Kg		86	70 - 125	2	20
1,3,5-Trimethylbenzene			50.0	45.0		ug/Kg		90	70 - 125	2	20
trans-1,2-Dichloroethene			50.0	47.2		ug/Kg		94	70 - 125	1	20
trans-1,3-Dichloropropene			50.0	51.8		ug/Kg		104	70 - 135	3	20
m-Xylene & p-Xylene			50.0	45.4		ug/Kg		91	70 - 125	2	20
Trichloroethene			50.0	46.4		ug/Kg		93	70 - 125	3	20
o-Xylene			50.0	44.2		ug/Kg		88	70 - 125	1	20
Trichlorofluoromethane			50.0	54.9		ug/Kg		110	60 - 145	1	25
Vinyl acetate			50.0	65.6		ug/Kg		131	45 - 145	1	20
Vinyl chloride			50.0	40.5		ug/Kg		81	55 - 135	2	25
2,2-Dichloropropane			50.0	52.8		ug/Kg		106	60 - 145	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: MB 440-523637/7
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			01/20/19 11:12	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/20/19 11:12	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/20/19 11:12	1
Benzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Bromobenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Bromoform	ND		1.0	0.40	ug/L			01/20/19 11:12	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Bromomethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/20/19 11:12	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/20/19 11:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523637/7
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Chloroethane	ND		1.0	0.40	ug/L			01/20/19 11:12	1
Chloroform	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Chloromethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
2-Hexanone	ND		5.0	2.5	ug/L			01/20/19 11:12	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Dibromomethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/20/19 11:12	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/20/19 11:12	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/20/19 11:12	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/20/19 11:12	1
Naphthalene	ND		1.0	0.40	ug/L			01/20/19 11:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/20/19 11:12	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/20/19 11:12	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Styrene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/20/19 11:12	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/20/19 11:12	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Toluene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Trichloroethene	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/20/19 11:12	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/20/19 11:12	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/20/19 11:12	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/20/19 11:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523637/7
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		01/20/19 11:12	1
Toluene-d8 (Surr)	100		80 - 128		01/20/19 11:12	1

Lab Sample ID: LCS 440-523637/8
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	33.7		ug/L		135	10 - 150
1,2-Dichlorobenzene	25.0	29.3		ug/L		117	70 - 130
1,3-Dichlorobenzene	25.0	27.4		ug/L		110	70 - 130
2-Butanone (MEK)	25.0	24.2		ug/L		97	44 - 150
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
2-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	25.1		ug/L		101	70 - 130
4-Chlorotoluene	25.0	28.2		ug/L		113	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.7		ug/L		87	52 - 140
Benzene	25.0	24.8		ug/L		99	68 - 130
Bromobenzene	25.0	27.3		ug/L		109	70 - 130
1,1-Dichloroethane	25.0	38.9	*	ug/L		156	64 - 130
Bromoform	25.0	29.0		ug/L		116	60 - 148
1,2-Dichloroethane	25.0	23.8		ug/L		95	57 - 138
Bromomethane	25.0	24.2		ug/L		97	64 - 139
1,1-Dichloroethene	25.0	31.1		ug/L		125	70 - 130
Carbon disulfide	25.0	39.3	*	ug/L		157	52 - 136
Carbon tetrachloride	25.0	28.9		ug/L		116	60 - 150
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,2-Dichloropropane	25.0	25.0		ug/L		100	67 - 130
Chlorobromomethane	25.0	26.7		ug/L		107	70 - 130
Chlorodibromomethane	25.0	29.1		ug/L		117	69 - 145
Chloroethane	25.0	23.8		ug/L		95	64 - 135
Chloroform	25.0	25.3		ug/L		101	70 - 130
Chloromethane	25.0	18.9		ug/L		76	47 - 140
2-Hexanone	25.0	22.4		ug/L		90	10 - 150
cis-1,2-Dichloroethene	25.0	27.2		ug/L		109	70 - 133
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 133
4-Isopropyltoluene	25.0	30.0		ug/L		120	70 - 132
Dibromomethane	25.0	26.5		ug/L		106	70 - 130
Dichlorobromomethane	25.0	27.7		ug/L		111	70 - 132
4-Methyl-2-pentanone (MIBK)	25.0	22.4		ug/L		90	59 - 149
Dichlorodifluoromethane	25.0	16.2		ug/L		65	29 - 150
Ethylbenzene	25.0	30.7		ug/L		123	70 - 130
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	29.2		ug/L		117	10 - 150
1,1,1,2-Tetrachloroethane	25.0	27.6		ug/L		110	60 - 141
Isopropylbenzene	25.0	27.9		ug/L		111	70 - 136
1,1,2,2-Tetrachloroethane	25.0	23.4		ug/L		93	63 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523637/8
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	35.7	*	ug/L		143	63 - 131
Methylene Chloride	25.0	38.2	*	ug/L		153	52 - 130
1,2,3-Trichlorobenzene	25.0	30.3		ug/L		121	60 - 140
Naphthalene	25.0	25.7		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	25.0	26.6		ug/L		106	60 - 140
n-Butylbenzene	25.0	30.7		ug/L		123	65 - 150
1,1,1-Trichloroethane	25.0	28.0		ug/L		112	70 - 130
N-Propylbenzene	25.0	29.1		ug/L		116	67 - 139
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	70 - 130
sec-Butylbenzene	25.0	28.8		ug/L		115	70 - 138
Styrene	25.0	25.9		ug/L		104	70 - 134
1,2,3-Trichloropropane	25.0	24.0		ug/L		96	63 - 130
tert-Butylbenzene	25.0	28.8		ug/L		115	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	38.0	*	ug/L		152	60 - 140
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	25.0	27.8		ug/L		111	70 - 135
Toluene	25.0	26.2		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	25.0	28.2		ug/L		113	70 - 136
trans-1,2-Dichloroethene	25.0	44.0	*	ug/L		176	70 - 130
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 132
m-Xylene & p-Xylene	25.0	27.3		ug/L		109	70 - 130
Trichloroethene	25.0	27.6		ug/L		110	70 - 130
o-Xylene	25.0	26.6		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	27.9		ug/L		111	60 - 150
Vinyl acetate	25.0	37.1	*	ug/L		148	48 - 140
Vinyl chloride	25.0	26.6		ug/L		106	59 - 133
2,2-Dichloropropane	25.0	29.5		ug/L		118	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-230044-C-7 MS
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	32.3		ug/L		129	10 - 150
1,2-Dichlorobenzene	ND		25.0	29.5		ug/L		118	70 - 130
1,3-Dichlorobenzene	ND		25.0	27.6		ug/L		111	70 - 130
2-Butanone (MEK)	ND		25.0	25.7		ug/L		103	48 - 140
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		103	70 - 130
2-Chlorotoluene	ND		25.0	28.1		ug/L		112	70 - 130
1,3-Dichloropropane	ND		25.0	24.5		ug/L		98	70 - 130
1,1-Dichloropropene	ND		25.0	25.5		ug/L		102	64 - 130
4-Chlorotoluene	ND		25.0	28.5		ug/L		114	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	24.9		ug/L		100	48 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230044-C-7 MS
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	25.9		ug/L		104	66 - 130
Bromobenzene	ND		25.0	27.6		ug/L		110	70 - 130
1,1-Dichloroethane	ND	*	25.0	24.7		ug/L		99	65 - 130
Bromoform	ND		25.0	29.0		ug/L		116	59 - 150
1,2-Dichloroethane	ND		25.0	24.1		ug/L		96	56 - 146
Bromomethane	ND		25.0	24.1		ug/L		97	62 - 131
1,1-Dichloroethene	ND		25.0	28.0		ug/L		112	70 - 130
Carbon disulfide	ND	*	25.0	21.3		ug/L		85	49 - 140
Carbon tetrachloride	ND		25.0	29.7		ug/L		119	60 - 150
Chlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
1,2-Dichloropropane	ND		25.0	25.5		ug/L		102	69 - 130
Chlorobromomethane	ND		25.0	27.4		ug/L		109	70 - 130
Chlorodibromomethane	ND		25.0	29.9		ug/L		119	70 - 148
Chloroethane	ND		25.0	22.5		ug/L		90	68 - 130
Chloroform	ND		25.0	25.8		ug/L		103	70 - 130
Chloromethane	ND		25.0	23.0		ug/L		92	39 - 144
2-Hexanone	ND		25.0	23.4		ug/L		94	10 - 150
cis-1,2-Dichloroethene	0.61		25.0	28.7		ug/L		112	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.5		ug/L		110	70 - 133
4-Isopropyltoluene	ND		25.0	30.6		ug/L		123	70 - 130
Dibromomethane	ND		25.0	28.0		ug/L		112	70 - 130
Dichlorobromomethane	ND		25.0	28.5		ug/L		114	70 - 138
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.7		ug/L		95	52 - 150
Dichlorodifluoromethane	9.7		25.0	27.1		ug/L		70	25 - 142
Ethylbenzene	ND		25.0	31.7		ug/L		127	70 - 130
Ethylene Dibromide	ND		25.0	25.4		ug/L		102	70 - 131
Hexachlorobutadiene	ND		25.0	30.1		ug/L		120	10 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	28.6		ug/L		114	60 - 149
Isopropylbenzene	ND		25.0	28.6		ug/L		114	70 - 132
1,1,2,2-Tetrachloroethane	ND		25.0	23.3		ug/L		93	63 - 130
Methyl tert-butyl ether	ND	*	25.0	26.2		ug/L		105	70 - 130
Methylene Chloride	ND	*	25.0	21.9		ug/L		88	52 - 130
1,2,3-Trichlorobenzene	ND		25.0	31.8		ug/L		127	60 - 140
Naphthalene	ND		25.0	26.3		ug/L		105	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	28.2		ug/L		113	60 - 140
n-Butylbenzene	ND		25.0	32.0		ug/L		128	61 - 149
1,1,1-Trichloroethane	ND		25.0	30.0		ug/L		120	70 - 130
N-Propylbenzene	ND		25.0	29.7		ug/L		119	66 - 135
1,1,2-Trichloroethane	ND		25.0	26.2		ug/L		105	70 - 130
sec-Butylbenzene	ND		25.0	29.3		ug/L		117	67 - 134
Styrene	ND		25.0	20.1		ug/L		80	29 - 150
1,2,3-Trichloropropane	ND		25.0	23.4		ug/L		94	60 - 130
tert-Butylbenzene	ND		25.0	28.9		ug/L		116	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	25.0	24.7		ug/L		99	60 - 140
Tetrachloroethene	1.7		25.0	29.3		ug/L		111	70 - 137
1,2,4-Trimethylbenzene	ND		25.0	28.5		ug/L		114	70 - 130
Toluene	ND		25.0	26.8		ug/L		107	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230044-C-7 MS
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		25.0	28.2		ug/L		113	70 - 130
trans-1,2-Dichloroethene	ND	*	25.0	26.4		ug/L		106	70 - 130
trans-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	70 - 138
m-Xylene & p-Xylene	ND		25.0	28.1		ug/L		113	70 - 133
Trichloroethene	0.51		25.0	29.2		ug/L		115	70 - 130
o-Xylene	ND		25.0	27.5		ug/L		110	70 - 133
Trichlorofluoromethane	ND		25.0	26.3		ug/L		105	60 - 150
Vinyl acetate	ND	*	25.0	19.9		ug/L		80	23 - 150
Vinyl chloride	ND		25.0	28.4		ug/L		113	50 - 137
2,2-Dichloropropane	ND		25.0	29.6		ug/L		118	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-230044-C-7 MSD
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	33.5		ug/L		134	10 - 150	4	35
1,2-Dichlorobenzene	ND		25.0	28.9		ug/L		116	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	27.2		ug/L		109	70 - 130	2	20
2-Butanone (MEK)	ND		25.0	23.9		ug/L		96	48 - 140	7	40
1,4-Dichlorobenzene	ND		25.0	25.5		ug/L		102	70 - 130	1	20
2-Chlorotoluene	ND		25.0	27.6		ug/L		111	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	24.3		ug/L		97	70 - 130	1	25
1,1-Dichloropropene	ND		25.0	24.2		ug/L		97	64 - 130	5	20
4-Chlorotoluene	ND		25.0	27.9		ug/L		112	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	21.9		ug/L		88	48 - 140	13	30
Benzene	ND		25.0	24.9		ug/L		100	66 - 130	4	20
Bromobenzene	ND		25.0	27.5		ug/L		110	70 - 130	0	20
1,1-Dichloroethane	ND	*	25.0	23.3		ug/L		93	65 - 130	6	20
Bromoform	ND		25.0	29.0		ug/L		116	59 - 150	0	25
1,2-Dichloroethane	ND		25.0	23.2		ug/L		93	56 - 146	4	20
Bromomethane	ND		25.0	23.4		ug/L		93	62 - 131	3	25
1,1-Dichloroethene	ND		25.0	27.1		ug/L		108	70 - 130	3	20
Carbon disulfide	ND	*	25.0	19.9		ug/L		79	49 - 140	7	20
Carbon tetrachloride	ND		25.0	27.2		ug/L		109	60 - 150	9	25
Chlorobenzene	ND		25.0	26.3		ug/L		105	70 - 130	0	20
1,2-Dichloropropane	ND		25.0	25.2		ug/L		101	69 - 130	1	20
Chlorobromomethane	ND		25.0	26.0		ug/L		104	70 - 130	5	25
Chlorodibromomethane	ND		25.0	28.9		ug/L		116	70 - 148	3	25
Chloroethane	ND		25.0	22.4		ug/L		89	68 - 130	1	25
Chloroform	ND		25.0	25.1		ug/L		100	70 - 130	3	20
Chloromethane	ND		25.0	18.7		ug/L		75	39 - 144	21	25
2-Hexanone	ND		25.0	22.8		ug/L		91	10 - 150	3	35
cis-1,2-Dichloroethene	0.61		25.0	27.7		ug/L		108	70 - 130	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230044-C-7 MSD
Matrix: Water
Analysis Batch: 523637

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND		25.0	26.7		ug/L		107	70 - 133	3	20
4-Isopropyltoluene	ND		25.0	29.4		ug/L		118	70 - 130	4	20
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130	6	25
Dichlorobromomethane	ND		25.0	26.7		ug/L		107	70 - 138	6	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.3		ug/L		93	52 - 150	2	35
Dichlorodifluoromethane	9.7		25.0	21.9		ug/L		49	25 - 142	21	30
Ethylbenzene	ND		25.0	31.2		ug/L		125	70 - 130	2	20
Ethylene Dibromide	ND		25.0	25.0		ug/L		100	70 - 131	1	25
Hexachlorobutadiene	ND		25.0	28.0		ug/L		112	10 - 150	7	20
1,1,1,2-Tetrachloroethane	ND		25.0	28.1		ug/L		112	60 - 149	2	20
Isopropylbenzene	ND		25.0	27.5		ug/L		110	70 - 132	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	23.1		ug/L		92	63 - 130	1	30
Methyl tert-butyl ether	ND	*	25.0	24.2		ug/L		97	70 - 130	8	25
Methylene Chloride	ND	*	25.0	21.4		ug/L		86	52 - 130	2	20
1,2,3-Trichlorobenzene	ND		25.0	31.3		ug/L		125	60 - 140	2	20
Naphthalene	ND		25.0	26.3		ug/L		105	60 - 140	0	30
1,2,4-Trichlorobenzene	ND		25.0	27.8		ug/L		111	60 - 140	1	20
n-Butylbenzene	ND		25.0	30.2		ug/L		121	61 - 149	6	20
1,1,1-Trichloroethane	ND		25.0	27.6		ug/L		110	70 - 130	8	20
N-Propylbenzene	ND		25.0	28.9		ug/L		116	66 - 135	3	20
1,1,2-Trichloroethane	ND		25.0	25.7		ug/L		103	70 - 130	2	25
sec-Butylbenzene	ND		25.0	27.8		ug/L		111	67 - 134	6	20
Styrene	ND		25.0	17.8		ug/L		71	29 - 150	12	35
1,2,3-Trichloropropane	ND		25.0	23.4		ug/L		93	60 - 130	0	30
tert-Butylbenzene	ND		25.0	27.6		ug/L		110	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	25.0	22.2		ug/L		89	60 - 140	11	20
Tetrachloroethene	1.7		25.0	27.8		ug/L		105	70 - 137	5	20
1,2,4-Trimethylbenzene	ND		25.0	27.1		ug/L		108	70 - 130	5	25
Toluene	ND		25.0	26.5		ug/L		106	70 - 130	1	20
1,3,5-Trimethylbenzene	ND		25.0	28.0		ug/L		112	70 - 130	1	20
trans-1,2-Dichloroethene	ND	*	25.0	25.5		ug/L		102	70 - 130	3	20
trans-1,3-Dichloropropene	ND		25.0	27.3		ug/L		109	70 - 138	1	25
m-Xylene & p-Xylene	ND		25.0	27.5		ug/L		110	70 - 133	2	25
Trichloroethene	0.51		25.0	27.4		ug/L		108	70 - 130	6	20
o-Xylene	ND		25.0	26.9		ug/L		108	70 - 133	2	20
Trichlorofluoromethane	ND		25.0	24.5		ug/L		98	60 - 150	7	25
Vinyl acetate	ND	*	25.0	18.8		ug/L		75	23 - 150	6	30
Vinyl chloride	ND		25.0	26.6		ug/L		106	50 - 137	7	30
2,2-Dichloropropane	ND		25.0	26.2		ug/L		105	69 - 138	12	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523695/4
Matrix: Water
Analysis Batch: 523695

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/21/19 08:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/21/19 08:53*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*01/21/19 08:53*	*1*

Lab Sample ID: LCS 440-523695/5
Matrix: Water
Analysis Batch: 523695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Butanone (MEK)			25.0	33.7		ug/L		135	44 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*106*		*80 - 128*

Lab Sample ID: 440-229345-B-1 MS
Matrix: Water
Analysis Batch: 523695

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Butanone (MEK)	ND		25.0	30.8		ug/L		123	48 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*80 - 128*

Lab Sample ID: 440-229345-B-1 MSD
Matrix: Water
Analysis Batch: 523695

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	ND		25.0	29.2		ug/L		117	48 - 140	5	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 521860

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 521687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2410	2270		ug/Kg		94	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 521860

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 521687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		2740	2360		ug/Kg		86	55 - 140	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*96*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: MB 440-521860/4
Matrix: Solid
Analysis Batch: 521860

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/11/19 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*		*01/11/19 08:13*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*01/11/19 08:13*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*		*01/11/19 08:13*	*1*

Lab Sample ID: LCS 440-521860/6
Matrix: Solid
Analysis Batch: 521860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			1000	873		ug/Kg		87	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*
Toluene-d8 (Surr)	*102*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-521862/4
Matrix: Solid
Analysis Batch: 521862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/11/19 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*01/11/19 10:17*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*		*01/11/19 10:17*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*		*01/11/19 10:17*	*1*

Lab Sample ID: LCS 440-521862/6
Matrix: Solid
Analysis Batch: 521862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	885		ug/Kg		88	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: 440-229658-A-1 MS
Matrix: Solid
Analysis Batch: 521862

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		3410	2900		ug/Kg		85	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*111*		*79 - 123*

Lab Sample ID: 440-229658-A-1 MSD
Matrix: Solid
Analysis Batch: 521862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3420	3000		ug/Kg		88	55 - 140	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*111*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-522041/6
Matrix: Solid
Analysis Batch: 522041

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/11/19 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*		*01/11/19 19:47*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*		*01/11/19 19:47*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/11/19 19:47*	*1*

Lab Sample ID: LCS 440-522041/8
Matrix: Solid
Analysis Batch: 522041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	811		ug/Kg		81	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: LCSD 440-522041/12
Matrix: Solid
Analysis Batch: 522041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	828		ug/Kg		83	60 - 135	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: MB 440-522084/4
Matrix: Solid
Analysis Batch: 522084

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/12/19 09:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*		*01/12/19 09:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*01/12/19 09:45*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*		*01/12/19 09:45*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-522084/7
Matrix: Solid
Analysis Batch: 522084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	835		ug/Kg		84	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: LCSD 440-522084/8
Matrix: Solid
Analysis Batch: 522084

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	751		ug/Kg		75	60 - 135	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-522205/4
Matrix: Solid
Analysis Batch: 522205

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/14/19 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*		*01/14/19 08:23*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*01/14/19 08:23*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/14/19 08:23*	*1*

Lab Sample ID: LCS 440-522205/7
Matrix: Solid
Analysis Batch: 522205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	810		ug/Kg		81	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 440-522205/8
Matrix: Solid
Analysis Batch: 522205

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	747		ug/Kg		75	60 - 135	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-523638/7
Matrix: Water
Analysis Batch: 523638

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/20/19 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*01/20/19 11:12*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/20/19 11:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/20/19 11:12*	*1*

Lab Sample ID: LCS 440-523638/30
Matrix: Water
Analysis Batch: 523638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	510		ug/L		102	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-230044-C-7 MS
Matrix: Water
Analysis Batch: 523638

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		1730	2330		ug/L		135	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-230044-C-7 MSD
Matrix: Water
Analysis Batch: 523638

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	2170		ug/L		126	50 - 145	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-258213/1-A
Matrix: Solid
Analysis Batch: 258376

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Anthracene	ND		5.0	2.0	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Chrysene	ND		5.0	1.4	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Fluorene	ND		5.0	2.2	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/09/19 10:18	01/11/19 14:04	1
Pyrene	ND		5.0	1.7	ug/Kg		01/09/19 10:18	01/11/19 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*01/09/19 10:18*	*01/11/19 14:04*	*1*
Terphenyl-d14	*105*		*35 - 146*	*01/09/19 10:18*	*01/11/19 14:04*	*1*

Lab Sample ID: LCS 720-258213/2-A
Matrix: Solid
Analysis Batch: 258376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	521		ug/Kg		78	46 - 110
Acenaphthene	667	543		ug/Kg		82	46 - 106
Acenaphthylene	667	541		ug/Kg		81	46 - 108
Anthracene	667	573		ug/Kg		86	55 - 103
Benzo[a]anthracene	667	581		ug/Kg		87	54 - 110

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-258213/2-A
Matrix: Solid
Analysis Batch: 258376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	667	632		ug/Kg		95	62 - 111
Benzo[b]fluoranthene	667	589		ug/Kg		88	60 - 109
Benzo[g,h,i]perylene	667	642		ug/Kg		96	52 - 114
Benzo[k]fluoranthene	667	629		ug/Kg		94	58 - 109
Chrysene	667	657		ug/Kg		99	54 - 108
Dibenz(a,h)anthracene	667	626		ug/Kg		94	58 - 112
Fluoranthene	667	594		ug/Kg		89	59 - 109
Fluorene	667	563		ug/Kg		85	52 - 106
Indeno[1,2,3-cd]pyrene	667	620		ug/Kg		93	55 - 120
Naphthalene	667	512		ug/Kg		77	49 - 110
Phenanthrene	667	542		ug/Kg		81	57 - 110
Pyrene	667	600		ug/Kg		90	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*33 - 120*
Terphenyl-d14	*101*		*35 - 146*

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 258376

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	27		658	498		ug/Kg		71	46 - 110
Acenaphthene	ND		658	504		ug/Kg		77	46 - 106
Acenaphthylene	7.5		658	514		ug/Kg		77	46 - 108
Anthracene	20		658	536		ug/Kg		78	55 - 103
Benzo[a]anthracene	11		658	526		ug/Kg		78	54 - 110
Benzo[a]pyrene	11		658	526		ug/Kg		78	62 - 111
Benzo[b]fluoranthene	32		658	599		ug/Kg		86	60 - 109
Benzo[g,h,i]perylene	13	F1	658	292	F1	ug/Kg		42	52 - 114
Benzo[k]fluoranthene	9.4		658	549		ug/Kg		82	58 - 109
Chrysene	27		658	606		ug/Kg		88	54 - 108
Dibenz(a,h)anthracene	4.4	J F1	658	343	F1	ug/Kg		51	58 - 112
Fluoranthene	28		658	618		ug/Kg		90	59 - 109
Fluorene	ND		658	534		ug/Kg		81	52 - 106
Indeno[1,2,3-cd]pyrene	10	F1	658	319	F1	ug/Kg		47	55 - 120
Naphthalene	40		658	503		ug/Kg		70	49 - 110
Phenanthrene	44		658	544		ug/Kg		76	57 - 110
Pyrene	27		658	630		ug/Kg		92	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*33 - 120*
Terphenyl-d14	*103*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 258376

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	27		659	506		ug/Kg		73	46 - 110	2	35
Acenaphthene	ND		659	538		ug/Kg		82	46 - 106	7	35
Acenaphthylene	7.5		659	540		ug/Kg		81	46 - 108	5	35
Anthracene	20		659	584		ug/Kg		86	55 - 103	9	35
Benzo[a]anthracene	11		659	572		ug/Kg		85	54 - 110	8	35
Benzo[a]pyrene	11		659	592		ug/Kg		88	62 - 111	12	35
Benzo[b]fluoranthene	32		659	675		ug/Kg		98	60 - 109	12	35
Benzo[g,h,i]perylene	13	F1	659	307	F1	ug/Kg		45	52 - 114	5	35
Benzo[k]fluoranthene	9.4		659	614		ug/Kg		92	58 - 109	11	35
Chrysene	27		659	654		ug/Kg		95	54 - 108	8	35
Dibenz(a,h)anthracene	4.4	J F1	659	368	F1	ug/Kg		55	58 - 112	7	35
Fluoranthene	28		659	610		ug/Kg		88	59 - 109	1	35
Fluorene	ND		659	569		ug/Kg		86	52 - 106	6	35
Indeno[1,2,3-cd]pyrene	10	F1	659	341	F1	ug/Kg		50	55 - 120	6	35
Naphthalene	40		659	510		ug/Kg		71	49 - 110	1	35
Phenanthrene	44		659	583		ug/Kg		82	57 - 110	7	35
Pyrene	27		659	675		ug/Kg		98	50 - 120	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*33 - 120*
Terphenyl-d14	*112*		*35 - 146*

Lab Sample ID: MB 720-258535/1-A
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Anthracene	ND		5.0	2.0	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Chrysene	ND		5.0	1.4	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Fluorene	ND		5.0	2.2	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Pyrene	ND		5.0	1.7	ug/Kg		01/15/19 10:12	01/17/19 01:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*01/15/19 10:12*	*01/17/19 01:25*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-258535/1-A
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258535

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	107		35 - 146	01/15/19 10:12	01/17/19 01:25	1

Lab Sample ID: LCS 720-258535/2-A
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	553		ug/Kg		83	46 - 110
Acenaphthene	667	616		ug/Kg		92	46 - 106
Acenaphthylene	667	620		ug/Kg		93	46 - 108
Anthracene	667	642		ug/Kg		96	55 - 103
Benzo[a]anthracene	667	611		ug/Kg		92	54 - 110
Benzo[a]pyrene	667	645		ug/Kg		97	62 - 111
Benzo[b]fluoranthene	667	605		ug/Kg		91	60 - 109
Benzo[g,h,i]perylene	667	618		ug/Kg		93	52 - 114
Benzo[k]fluoranthene	667	640		ug/Kg		96	58 - 109
Chrysene	667	706		ug/Kg		106	54 - 108
Dibenz(a,h)anthracene	667	639		ug/Kg		96	58 - 112
Fluoranthene	667	639		ug/Kg		96	59 - 109
Fluorene	667	653		ug/Kg		98	52 - 106
Indeno[1,2,3-cd]pyrene	667	635		ug/Kg		95	55 - 120
Naphthalene	667	549		ug/Kg		82	49 - 110
Phenanthrene	667	613		ug/Kg		92	57 - 110
Pyrene	667	642		ug/Kg		96	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	75		33 - 120
Terphenyl-d14	98		35 - 146

Lab Sample ID: 720-90640-21 MS
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: DG-N5S-0.5-1
Prep Type: Total/NA
Prep Batch: 258535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	27		649	602		ug/Kg		89	46 - 110
Acenaphthene	ND		649	643		ug/Kg		99	46 - 106
Acenaphthylene	24		649	664		ug/Kg		99	46 - 108
Anthracene	48		649	689		ug/Kg		99	55 - 103
Benzo[a]anthracene	88		649	660		ug/Kg		88	54 - 110
Benzo[a]pyrene	100		649	689		ug/Kg		91	62 - 111
Benzo[b]fluoranthene	170		649	750		ug/Kg		90	60 - 109
Benzo[g,h,i]perylene	58	F1	649	355	F1	ug/Kg		46	52 - 114
Benzo[k]fluoranthene	67		649	744		ug/Kg		104	58 - 109
Chrysene	120		649	763		ug/Kg		100	54 - 108
Dibenz(a,h)anthracene	14	F1	649	397		ug/Kg		59	58 - 112
Fluoranthene	130		649	716		ug/Kg		90	59 - 109
Fluorene	ND		649	677		ug/Kg		104	52 - 106
Indeno[1,2,3-cd]pyrene	48	F1	649	397	F1	ug/Kg		54	55 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90640-21 MS
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: DG-N5S-0.5-1
Prep Type: Total/NA
Prep Batch: 258535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	23		649	579		ug/Kg		86	49 - 110
Phenanthrene	60		649	681		ug/Kg		96	57 - 110
Pyrene	140		649	801		ug/Kg		102	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*33 - 120*
Terphenyl-d14	*113*		*35 - 146*

Lab Sample ID: 720-90640-21 MSD
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: DG-N5S-0.5-1
Prep Type: Total/NA
Prep Batch: 258535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	27		649	551		ug/Kg		81	46 - 110	9	35
Acenaphthene	ND		649	600		ug/Kg		92	46 - 106	7	35
Acenaphthylene	24		649	621		ug/Kg		92	46 - 108	7	35
Anthracene	48		649	650		ug/Kg		93	55 - 103	6	35
Benzo[a]anthracene	88		649	622		ug/Kg		82	54 - 110	6	35
Benzo[a]pyrene	100		649	647		ug/Kg		84	62 - 111	6	35
Benzo[b]fluoranthene	170		649	720		ug/Kg		85	60 - 109	4	35
Benzo[g,h,i]perylene	58	F1	649	316	F1	ug/Kg		40	52 - 114	12	35
Benzo[k]fluoranthene	67		649	717		ug/Kg		100	58 - 109	4	35
Chrysene	120		649	716		ug/Kg		92	54 - 108	6	35
Dibenz(a,h)anthracene	14	F1	649	359	F1	ug/Kg		53	58 - 112	10	35
Fluoranthene	130		649	683		ug/Kg		85	59 - 109	5	35
Fluorene	ND		649	635		ug/Kg		98	52 - 106	6	35
Indeno[1,2,3-cd]pyrene	48	F1	649	358	F1	ug/Kg		48	55 - 120	10	35
Naphthalene	23		649	529		ug/Kg		78	49 - 110	9	35
Phenanthrene	60		649	634		ug/Kg		89	57 - 110	7	35
Pyrene	140		649	764		ug/Kg		96	50 - 120	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*33 - 120*
Terphenyl-d14	*107*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-258200/1-A
Matrix: Solid
Analysis Batch: 258187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.779	J	2.0	0.75	mg/Kg		01/09/19 09:34	01/09/19 22:55	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/09/19 09:34	01/09/19 22:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*01/09/19 09:34*	*01/09/19 22:55*	*1*

Lab Sample ID: LCS 720-258200/2-A
Matrix: Solid
Analysis Batch: 258187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258200

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	161		mg/Kg		97	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*123*		*40 - 130*

Lab Sample ID: 720-90638-D-3-C MS
Matrix: Solid
Analysis Batch: 258186

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258200

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	1.3	J B	166	165		mg/Kg		98	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*123*		*40 - 130*

Lab Sample ID: 720-90638-D-3-D MSD
Matrix: Solid
Analysis Batch: 258186

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258200

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1.3	J B	166	157		mg/Kg		94	50 - 150	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*120*		*40 - 130*

Lab Sample ID: MB 720-258201/1-A
Matrix: Solid
Analysis Batch: 258273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.87	J	2.0	0.75	mg/Kg		01/09/19 09:45	01/10/19 17:34	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/09/19 09:45	01/10/19 17:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*98*		*40 - 130*	*01/09/19 09:45*	*01/10/19 17:34*	*1*

Lab Sample ID: LCS 720-258201/2-A
Matrix: Solid
Analysis Batch: 258273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	182		mg/Kg		109	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*109*		*40 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 258273

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258201

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	61	B	165	232		mg/Kg		103	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*87*		*40 - 130*

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 258273

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258201

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	61	B	165	276		mg/Kg		130	50 - 150	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*86*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-258204/1-A
Matrix: Solid
Analysis Batch: 258312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Aldrin	ND		2.0	0.50	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Endrin	ND		2.0	0.46	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/09/19 09:56	01/10/19 17:56	1
Toxaphene	ND		40	6.8	ug/Kg		01/09/19 09:56	01/10/19 17:56	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-258204/1-A
Matrix: Solid
Analysis Batch: 258312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258204

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		21 - 136	01/09/19 09:56	01/10/19 17:56	1
Tetrachloro-m-xylene	83		21 - 145	01/09/19 09:56	01/10/19 17:56	1

Lab Sample ID: LCS 720-258204/2-A
Matrix: Solid
Analysis Batch: 258312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	14.4		ug/Kg		86	75 - 128
4,4'-DDE	16.7	13.8		ug/Kg		83	76 - 126
4,4'-DDT	16.7	13.7		ug/Kg		82	63 - 127
Aldrin	16.7	12.7		ug/Kg		76	65 - 120
alpha-BHC	16.7	12.6		ug/Kg		76	46 - 122
alpha-Chlordane	16.7	13.9		ug/Kg		83	70 - 120
beta-BHC	16.7	15.3		ug/Kg		92	78 - 136
delta-BHC	16.7	11.7		ug/Kg		70	43 - 125
Dieldrin	16.7	14.5		ug/Kg		87	72 - 120
Endosulfan I	16.7	14.7		ug/Kg		88	62 - 120
Endosulfan II	16.7	15.2		ug/Kg		91	65 - 120
Endosulfan sulfate	16.7	14.6		ug/Kg		88	72 - 121
Endrin	16.7	15.6		ug/Kg		94	68 - 120
Endrin aldehyde	16.7	16.9		ug/Kg		101	68 - 120
Endrin ketone	16.7	15.8		ug/Kg		95	75 - 136
gamma-BHC (Lindane)	16.7	13.3		ug/Kg		80	72 - 120
gamma-Chlordane	16.7	13.7		ug/Kg		82	68 - 120
Heptachlor	16.7	13.3		ug/Kg		80	69 - 120
Heptachlor epoxide	16.7	13.8		ug/Kg		83	68 - 120
Methoxychlor	16.7	15.7		ug/Kg		94	71 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	88		21 - 136
Tetrachloro-m-xylene	80		21 - 145

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 258312

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.1	13.1		ug/Kg		81	40 - 120
4,4'-DDE	ND		16.1	12.6		ug/Kg		78	40 - 120
4,4'-DDT	ND		16.1	13.7		ug/Kg		85	17 - 144
Aldrin	ND		16.1	13.1		ug/Kg		81	53 - 120
alpha-BHC	ND		16.1	12.9		ug/Kg		80	40 - 120
alpha-Chlordane	ND		16.1	12.8		ug/Kg		79	40 - 120
beta-BHC	ND		16.1	14.6		ug/Kg		90	40 - 120
delta-BHC	ND		16.1	11.5		ug/Kg		71	40 - 120
Dieldrin	ND		16.1	14.4		ug/Kg		89	46 - 130
Endosulfan I	ND		16.1	13.8		ug/Kg		85	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 258312

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan II	ND		16.1	14.3		ug/Kg		89	40 - 120
Endosulfan sulfate	ND		16.1	13.8		ug/Kg		85	40 - 120
Endrin	ND		16.1	15.2		ug/Kg		94	32 - 143
Endrin aldehyde	ND		16.1	12.5		ug/Kg		78	40 - 120
Endrin ketone	ND		16.1	13.3		ug/Kg		82	40 - 120
gamma-BHC (Lindane)	ND	F1	16.1	13.7		ug/Kg		85	58 - 120
gamma-Chlordane	ND		16.1	12.8		ug/Kg		79	40 - 120
Heptachlor	ND		16.1	13.5		ug/Kg		84	52 - 120
Heptachlor epoxide	ND		16.1	12.9		ug/Kg		80	40 - 120
Methoxychlor	ND		16.1	17.6		ug/Kg		109	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*105*		*21 - 136*
DCB Decachlorobiphenyl	*76*		*21 - 136*
Tetrachloro-m-xylene	*89*		*21 - 145*
Tetrachloro-m-xylene	*81*		*21 - 145*

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 258312

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258204

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.2	12.8		ug/Kg		79	40 - 120	3	20
4,4'-DDE	ND		16.2	12.4		ug/Kg		76	40 - 120	2	20
4,4'-DDT	ND		16.2	13.7		ug/Kg		85	17 - 144	0	20
Aldrin	ND		16.2	12.7		ug/Kg		78	53 - 120	3	20
alpha-BHC	ND		16.2	12.8		ug/Kg		79	40 - 120	1	20
alpha-Chlordane	ND		16.2	12.5		ug/Kg		77	40 - 120	2	20
beta-BHC	ND		16.2	14.5		ug/Kg		90	40 - 120	0	20
delta-BHC	ND		16.2	11.5		ug/Kg		71	40 - 120	0	20
Dieldrin	ND		16.2	14.0		ug/Kg		86	46 - 130	3	20
Endosulfan I	ND		16.2	13.4		ug/Kg		83	40 - 120	3	20
Endosulfan II	ND		16.2	13.7		ug/Kg		84	40 - 120	4	30
Endosulfan sulfate	ND		16.2	13.5		ug/Kg		83	40 - 120	2	20
Endrin	ND		16.2	14.8		ug/Kg		91	32 - 143	3	20
Endrin aldehyde	ND		16.2	12.7		ug/Kg		78	40 - 120	1	20
Endrin ketone	ND		16.2	12.9		ug/Kg		80	40 - 120	3	20
gamma-BHC (Lindane)	ND	F1	16.2	13.5		ug/Kg		83	58 - 120	2	20
gamma-Chlordane	ND		16.2	12.6		ug/Kg		78	40 - 120	2	20
Heptachlor	ND		16.2	13.4		ug/Kg		82	52 - 120	1	20
Heptachlor epoxide	ND		16.2	12.7		ug/Kg		79	40 - 120	1	20
Methoxychlor	ND		16.2	17.4		ug/Kg		108	40 - 120	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*98*		*21 - 136*
DCB Decachlorobiphenyl	*69*		*21 - 136*
Tetrachloro-m-xylene	*85*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 258312

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258204

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*77*		*21 - 145*

Lab Sample ID: MB 720-258208/1-A
Matrix: Solid
Analysis Batch: 258325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Aldrin	ND		2.0	0.50	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Endrin	ND		2.0	0.46	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/09/19 10:04	01/11/19 10:02	1
Toxaphene	ND		40	6.8	ug/Kg		01/09/19 10:04	01/11/19 10:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*115*		*21 - 136*	*01/09/19 10:04*	*01/11/19 10:02*	*1*
Tetrachloro-m-xylene	*94*		*21 - 145*	*01/09/19 10:04*	*01/11/19 10:02*	*1*

Lab Sample ID: LCS 720-258208/2-A
Matrix: Solid
Analysis Batch: 258325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258208

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	18.2		ug/Kg		109	75 - 128
4,4'-DDE	16.7	17.7		ug/Kg		106	76 - 126
4,4'-DDT	16.7	17.2		ug/Kg		103	63 - 127
Aldrin	16.7	15.5		ug/Kg		93	65 - 120
alpha-BHC	16.7	15.7		ug/Kg		94	46 - 122
alpha-Chlordane	16.7	17.4		ug/Kg		104	70 - 120
beta-BHC	16.7	17.8		ug/Kg		107	78 - 136
delta-BHC	16.7	14.0		ug/Kg		84	43 - 125

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-258208/2-A
Matrix: Solid
Analysis Batch: 258325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258208

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dieldrin	16.7	17.4		ug/Kg		104	72 - 120
Endosulfan I	16.7	17.6		ug/Kg		105	62 - 120
Endosulfan II	16.7	18.5		ug/Kg		111	65 - 120
Endosulfan sulfate	16.7	18.9		ug/Kg		114	72 - 121
Endrin	16.7	18.9		ug/Kg		114	68 - 120
Endrin aldehyde	16.7	19.8		ug/Kg		119	68 - 120
Endrin ketone	16.7	19.1		ug/Kg		115	75 - 136
gamma-BHC (Lindane)	16.7	16.3		ug/Kg		98	72 - 120
gamma-Chlordane	16.7	17.1		ug/Kg		103	68 - 120
Heptachlor	16.7	16.5		ug/Kg		99	69 - 120
Heptachlor epoxide	16.7	17.2		ug/Kg		103	68 - 120
Methoxychlor	16.7	20.6		ug/Kg		124	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*116*		*21 - 136*
Tetrachloro-m-xylene	*92*		*21 - 145*

Lab Sample ID: 720-90638-D-1-K MS
Matrix: Solid
Analysis Batch: 258325

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258208

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	1.0	J	16.5	19.0		ug/Kg		109	40 - 120
4,4'-DDE	45	F2 F1	16.5	127	F1	ug/Kg		496	40 - 120
4,4'-DDT	11	F2 F1	16.5	43.4	F1	ug/Kg		199	17 - 144
Aldrin	ND		16.5	14.8		ug/Kg		90	53 - 120
alpha-BHC	ND		16.5	15.5		ug/Kg		94	40 - 120
alpha-Chlordane	ND	F1	16.5	16.4		ug/Kg		100	40 - 120
beta-BHC	ND		16.5	18.1		ug/Kg		110	40 - 120
delta-BHC	ND		16.5	13.2		ug/Kg		80	40 - 120
Dieldrin	ND		16.5	16.5		ug/Kg		100	46 - 130
Endosulfan I	ND		16.5	15.8		ug/Kg		96	40 - 120
Endosulfan II	ND		16.5	16.5		ug/Kg		100	40 - 120
Endosulfan sulfate	ND		16.5	16.5		ug/Kg		100	40 - 120
Endrin	ND		16.5	18.3		ug/Kg		111	32 - 143
Endrin aldehyde	ND	F1 *	16.5	17.3		ug/Kg		105	40 - 120
Endrin ketone	ND		16.5	15.5		ug/Kg		94	40 - 120
gamma-BHC (Lindane)	ND		16.5	15.5		ug/Kg		94	58 - 120
gamma-Chlordane	ND		16.5	16.8		ug/Kg		102	40 - 120
Heptachlor	ND		16.5	15.2		ug/Kg		92	52 - 120
Heptachlor epoxide	ND		16.5	15.8		ug/Kg		96	40 - 120
Methoxychlor	ND	*	16.5	16.4		ug/Kg		100	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*21 - 136*
Tetrachloro-m-xylene	*82*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90638-D-1-L MSD
Matrix: Solid
Analysis Batch: 258325

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258208

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	1.0	J	15.7	17.2		ug/Kg		103	40 - 120	10	20
4,4'-DDE	45	F2 F1	15.7	81.2	F1 F2	ug/Kg		229	40 - 120	44	20
4,4'-DDT	11	F2 F1	15.7	31.3	F2	ug/Kg		132	17 - 144	32	20
Aldrin	ND		15.7	14.4		ug/Kg		92	53 - 120	2	20
alpha-BHC	ND		15.7	14.5		ug/Kg		92	40 - 120	7	20
alpha-Chlordane	ND	F1	15.7	15.7		ug/Kg		100	40 - 120	4	20
beta-BHC	ND		15.7	15.7		ug/Kg		100	40 - 120	14	20
delta-BHC	ND		15.7	12.1		ug/Kg		78	40 - 120	8	20
Dieldrin	ND		15.7	15.6		ug/Kg		100	46 - 130	6	20
Endosulfan I	ND		15.7	15.3		ug/Kg		98	40 - 120	4	20
Endosulfan II	ND		15.7	15.6		ug/Kg		100	40 - 120	5	30
Endosulfan sulfate	ND		15.7	14.2		ug/Kg		90	40 - 120	15	20
Endrin	ND		15.7	17.3		ug/Kg		110	32 - 143	6	20
Endrin aldehyde	ND	F1 *	15.7	16.0		ug/Kg		102	40 - 120	8	20
Endrin ketone	ND		15.7	13.9		ug/Kg		89	40 - 120	11	20
gamma-BHC (Lindane)	ND		15.7	15.0		ug/Kg		96	58 - 120	4	20
gamma-Chlordane	ND		15.7	16.2		ug/Kg		103	40 - 120	4	20
Heptachlor	ND		15.7	14.6		ug/Kg		93	52 - 120	4	20
Heptachlor epoxide	ND		15.7	15.0		ug/Kg		96	40 - 120	5	20
Methoxychlor	ND	*	15.7	14.3		ug/Kg		91	40 - 120	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*83*		*21 - 136*
Tetrachloro-m-xylene	*91*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-521728/1-A
Matrix: Solid
Analysis Batch: 521970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 521728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 15:30	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 15:30	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 15:30	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 15:30	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 15:30	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 15:30	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:06	01/11/19 15:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*	*01/10/19 13:06*	*01/11/19 15:30*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-521728/2-A
Matrix: Solid
Analysis Batch: 521970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 521728

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	244		ug/Kg		92	65 - 115		
Aroclor 1260			267	243		ug/Kg		91	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*45 - 120*

Lab Sample ID: 720-90640-1 MS
Matrix: Solid
Analysis Batch: 521970

Client Sample ID: DG-T5S-0.5-1
Prep Type: Total/NA
Prep Batch: 521728

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		261	235		ug/Kg		90	50 - 120		
Aroclor 1260	ND		261	218		ug/Kg		84	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*

Lab Sample ID: 720-90640-1 MSD
Matrix: Solid
Analysis Batch: 521970

Client Sample ID: DG-T5S-0.5-1
Prep Type: Total/NA
Prep Batch: 521728

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		261	232		ug/Kg		89	50 - 120	2	30
Aroclor 1260	ND		261	214		ug/Kg		82	50 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Lab Sample ID: MB 440-521729/1-A
Matrix: Solid
Analysis Batch: 521900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 521729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 17:22	1
Aroclor 1221	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 17:22	1
Aroclor 1232	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 17:22	1
Aroclor 1242	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 17:22	1
Aroclor 1248	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 17:22	1
Aroclor 1254	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 17:22	1
Aroclor 1260	ND		50	17	ug/Kg		01/10/19 13:10	01/11/19 17:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*110*		*45 - 120*	*01/10/19 13:10*	*01/11/19 17:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-521729/2-A
Matrix: Solid
Analysis Batch: 521900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 521729

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	223		ug/Kg		84	65 - 115		
Aroclor 1260			267	248		ug/Kg		93	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*45 - 120*

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 521900

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 521729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		264	164		ug/Kg		62	50 - 120		
Aroclor 1260	ND		264	171		ug/Kg		65	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 521900

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 521729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		262	171		ug/Kg		65	50 - 120	4	30
Aroclor 1260	ND		262	179		ug/Kg		68	50 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258195/1-A
Matrix: Solid
Analysis Batch: 258268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.145	J	0.50	0.083	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Arsenic	ND		1.0	0.085	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Barium	ND		0.50	0.071	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Beryllium	ND		0.10	0.033	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Cadmium	ND		0.13	0.012	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Chromium	ND		0.50	0.053	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Cobalt	ND		0.20	0.020	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Copper	ND		1.5	0.71	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Lead	ND		0.50	0.11	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Nickel	ND		0.50	0.051	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Selenium	ND		1.0	0.15	mg/Kg		01/09/19 08:37	01/09/19 16:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-258195/1-A
Matrix: Solid
Analysis Batch: 258268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.25	0.051	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Thallium	ND		0.50	0.15	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Vanadium	ND		0.50	0.068	mg/Kg		01/09/19 08:37	01/09/19 16:23	1
Zinc	ND		1.5	0.64	mg/Kg		01/09/19 08:37	01/09/19 16:23	1

Lab Sample ID: LCS 720-258195/2-A
Matrix: Solid
Analysis Batch: 258268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.3		mg/Kg		91	80 - 120
Arsenic	50.0	46.8		mg/Kg		94	80 - 120
Barium	50.0	45.2		mg/Kg		90	80 - 120
Beryllium	50.0	43.1		mg/Kg		86	80 - 120
Cadmium	50.0	42.4		mg/Kg		85	80 - 120
Chromium	50.0	47.9		mg/Kg		96	80 - 120
Cobalt	50.0	45.4		mg/Kg		91	80 - 120
Copper	50.0	47.2		mg/Kg		94	80 - 120
Lead	50.0	46.2		mg/Kg		92	80 - 120
Molybdenum	50.0	48.0		mg/Kg		96	80 - 120
Nickel	50.0	46.4		mg/Kg		93	80 - 120
Selenium	50.0	44.3		mg/Kg		89	80 - 120
Silver	25.0	21.5		mg/Kg		86	80 - 120
Thallium	50.0	43.8		mg/Kg		88	80 - 120
Vanadium	50.0	46.6		mg/Kg		93	80 - 120
Zinc	50.0	46.9		mg/Kg		94	80 - 120

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 258268

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	18	B F1 F2	44.6	26.4	F1	mg/Kg		18	75 - 125
Arsenic	12		44.6	59.5		mg/Kg		107	75 - 125
Barium	51	F1	44.6	106		mg/Kg		125	75 - 125
Beryllium	ND	F2	44.6	41.4		mg/Kg		93	75 - 125
Cadmium	1.7		44.6	41.7		mg/Kg		90	75 - 125
Chromium	17	F1	44.6	69.5		mg/Kg		117	75 - 125
Cobalt	4.5	F2	44.6	47.3		mg/Kg		96	75 - 125
Copper	210		44.6	348	4	mg/Kg		301	75 - 125
Lead	940	^	44.6	896	4	mg/Kg		-89	75 - 125
Molybdenum	0.39	J F2	44.6	43.5		mg/Kg		97	75 - 125
Nickel	13	F1 F2	44.6	58.2		mg/Kg		101	75 - 125
Selenium	2.0	J F2	44.6	43.4		mg/Kg		93	75 - 125
Silver	0.42	J	22.3	21.4		mg/Kg		94	75 - 125
Thallium	ND		44.6	43.3		mg/Kg		97	75 - 125
Vanadium	27	F1 F2	44.6	73.8		mg/Kg		104	75 - 125
Zinc	900		44.6	1140	4	mg/Kg		534	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 258268

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	18	B F1 F2	45.5	33.6	F1 F2	mg/Kg		33	75 - 125	24	20
Arsenic	12		45.5	68.6		mg/Kg		125	75 - 125	14	20
Barium	51	F1	45.5	121	F1	mg/Kg		156	75 - 125	13	20
Beryllium	ND	F2	45.5	50.9	F2	mg/Kg		112	75 - 125	21	20
Cadmium	1.7		45.5	51.1		mg/Kg		109	75 - 125	20	20
Chromium	17	F1	45.5	80.3	F1	mg/Kg		139	75 - 125	15	20
Cobalt	4.5	F2	45.5	59.1	F2	mg/Kg		120	75 - 125	22	20
Copper	210		45.5	368	4	mg/Kg		339	75 - 125	6	20
Lead	940	^	45.5	950	4	mg/Kg		32	75 - 125	6	20
Molybdenum	0.39	J F2	45.5	55.5	F2	mg/Kg		121	75 - 125	24	20
Nickel	13	F1 F2	45.5	75.3	F1 F2	mg/Kg		136	75 - 125	26	20
Selenium	2.0	J F2	45.5	54.0	F2	mg/Kg		114	75 - 125	22	20
Silver	0.42	J	22.7	26.0		mg/Kg		113	75 - 125	19	20
Thallium	ND		45.5	50.5		mg/Kg		111	75 - 125	15	20
Vanadium	27	F1 F2	45.5	94.0	F1 F2	mg/Kg		147	75 - 125	24	20
Zinc	900		45.5	1150	4	mg/Kg		533	75 - 125	0	20

Lab Sample ID: MB 720-258198/1-A
Matrix: Solid
Analysis Batch: 258537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Arsenic	ND		1.0	0.085	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Barium	ND		0.50	0.071	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Beryllium	ND		0.10	0.033	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Cadmium	ND		0.13	0.012	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Chromium	0.291	J	0.50	0.053	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Cobalt	ND		0.20	0.020	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Copper	ND		1.5	0.71	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Lead	ND		0.50	0.11	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Nickel	0.263	J	0.50	0.051	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Selenium	ND		1.0	0.15	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Silver	ND		0.25	0.051	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Thallium	ND		0.50	0.15	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Vanadium	ND		0.50	0.068	mg/Kg		01/09/19 10:14	01/14/19 14:23	1
Zinc	ND		1.5	0.64	mg/Kg		01/09/19 10:14	01/14/19 14:23	1

Lab Sample ID: LCS 720-258198/2-A
Matrix: Solid
Analysis Batch: 258537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.1		mg/Kg		92	80 - 120
Arsenic	50.0	45.9		mg/Kg		92	80 - 120
Barium	50.0	44.9		mg/Kg		90	80 - 120
Beryllium	50.0	45.0		mg/Kg		90	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-258198/2-A
Matrix: Solid
Analysis Batch: 258537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	45.6		mg/Kg		91	80 - 120
Chromium	50.0	46.4		mg/Kg		93	80 - 120
Cobalt	50.0	46.0		mg/Kg		92	80 - 120
Copper	50.0	47.4		mg/Kg		95	80 - 120
Lead	50.0	46.3		mg/Kg		93	80 - 120
Molybdenum	50.0	46.2		mg/Kg		92	80 - 120
Nickel	50.0	45.9		mg/Kg		92	80 - 120
Selenium	50.0	45.1		mg/Kg		90	80 - 120
Silver	25.0	23.0		mg/Kg		92	80 - 120
Thallium	50.0	47.0		mg/Kg		94	80 - 120
Vanadium	50.0	46.1		mg/Kg		92	80 - 120
Zinc	50.0	45.9		mg/Kg		92	80 - 120

Lab Sample ID: 720-90640-20 MS
Matrix: Solid
Analysis Batch: 258537

Client Sample ID: DG-P5S-3.5-4
Prep Type: Total/NA
Prep Batch: 258198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.4	J F1	37.6	19.0	F1	mg/Kg		47	75 - 125
Arsenic	150		37.6	196		mg/Kg		125	75 - 125
Barium	100	F1 F2	37.6	189	F1	mg/Kg		236	75 - 125
Beryllium	0.41		37.6	39.0		mg/Kg		103	75 - 125
Cadmium	0.24	J	37.6	38.0		mg/Kg		100	75 - 125
Chromium	26	B	37.6	72.4		mg/Kg		123	75 - 125
Cobalt	7.2		37.6	43.5		mg/Kg		97	75 - 125
Copper	35	F1	37.6	82.7	F1	mg/Kg		127	75 - 125
Lead	170	^	37.6	208	4	mg/Kg		101	75 - 125
Molybdenum	0.19	J	37.6	37.0		mg/Kg		98	75 - 125
Nickel	34	B	37.6	69.8		mg/Kg		94	75 - 125
Selenium	1.1	J	37.6	37.7		mg/Kg		97	75 - 125
Silver	0.18	J	18.8	19.6		mg/Kg		104	75 - 125
Thallium	0.67	J	37.6	36.6		mg/Kg		96	75 - 125
Vanadium	26		37.6	66.3		mg/Kg		107	75 - 125
Zinc	120	F1	37.6	197	F1	mg/Kg		205	75 - 125

Lab Sample ID: 720-90640-20 MSD
Matrix: Solid
Analysis Batch: 258537

Client Sample ID: DG-P5S-3.5-4
Prep Type: Total/NA
Prep Batch: 258198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.4	J F1	37.3	17.3	F1	mg/Kg		42	75 - 125	9	20
Arsenic	150		37.3	175	4	mg/Kg		70	75 - 125	11	20
Barium	100	F1 F2	37.3	152	F1 F2	mg/Kg		139	75 - 125	22	20
Beryllium	0.41		37.3	34.0		mg/Kg		90	75 - 125	14	20
Cadmium	0.24	J	37.3	33.8		mg/Kg		90	75 - 125	12	20
Chromium	26	B	37.3	64.1		mg/Kg		102	75 - 125	12	20
Cobalt	7.2		37.3	39.9		mg/Kg		88	75 - 125	9	20
Copper	35	F1	37.3	78.6		mg/Kg		117	75 - 125	5	20
Lead	170	^	37.3	188	4	mg/Kg		48	75 - 125	10	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90640-20 MSD
Matrix: Solid
Analysis Batch: 258537

Client Sample ID: DG-P5S-3.5-4
Prep Type: Total/NA
Prep Batch: 258198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	0.19	J	37.3	31.8		mg/Kg		85	75 - 125	15	20
Nickel	34	B	37.3	68.3		mg/Kg		91	75 - 125	2	20
Selenium	1.1	J	37.3	33.2		mg/Kg		86	75 - 125	13	20
Silver	0.18	J	18.7	17.3		mg/Kg		92	75 - 125	13	20
Thallium	0.67	J	37.3	32.2		mg/Kg		85	75 - 125	13	20
Vanadium	26		37.3	59.0		mg/Kg		88	75 - 125	12	20
Zinc	120	F1	37.3	199	F1	mg/Kg		210	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-258199/1-A
Matrix: Solid
Analysis Batch: 258318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/10/19 13:58	01/10/19 15:12	1

Lab Sample ID: LCS 720-258199/2-A
Matrix: Solid
Analysis Batch: 258318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.898		mg/Kg		108	80 - 120

Lab Sample ID: 720-90640-20 MS
Matrix: Solid
Analysis Batch: 258318

Client Sample ID: DG-P5S-3.5-4
Prep Type: Total/NA
Prep Batch: 258199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.21		0.794	1.19		mg/Kg		123	75 - 125

Lab Sample ID: 720-90640-20 MSD
Matrix: Solid
Analysis Batch: 258318

Client Sample ID: DG-P5S-3.5-4
Prep Type: Total/NA
Prep Batch: 258199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.21		0.820	1.21		mg/Kg		122	75 - 125	2	20

Lab Sample ID: MB 720-258212/1-A
Matrix: Solid
Analysis Batch: 258932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/21/19 14:13	01/21/19 15:45	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-258212/2-A
Matrix: Solid
Analysis Batch: 258932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.776		mg/Kg		93	80 - 120

Lab Sample ID: 720-90640-27 MS
Matrix: Solid
Analysis Batch: 258932

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.27		0.725	0.838		mg/Kg		78	75 - 125

Lab Sample ID: 720-90640-27 MSD
Matrix: Solid
Analysis Batch: 258932

Client Sample ID: DG-Q7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258212

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.27		0.714	0.809		mg/Kg		75	75 - 125	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90640-1 DU
Matrix: Solid
Analysis Batch: 258219

Client Sample ID: DG-T5S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	7.7		6.6		%		14	20

Lab Sample ID: 720-90640-20 DU
Matrix: Solid
Analysis Batch: 258222

Client Sample ID: DG-P5S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.0		8.8		%		9	20

GC/MS VOA

Prep Batch: 521687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1 - RA	DG-T5S-0.5-1	Total/NA	Solid	5035	
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	5035	
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	5035	
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	5035	
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	5035	
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	5035	
720-90640-28	DUP-44	Total/NA	Solid	5035	
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	5035	
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	5035	
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	5035	

Prep Batch: 521831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	5035	
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	5035	
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	5035	
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	5035	
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	5035	
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	5035	
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	5035	
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 521859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	8260B	521831
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	8260B	521831
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	8260B	521831
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	8260B	521831
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	8260B	521831
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	8260B	521831
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	8260B	521831
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	8260B	521831
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	8260B	521687
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	8260B	521914
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	8260B	521914
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	8260B	521914
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	8260B	521687
MB 440-521859/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-521859/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	8260B	521687
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	8260B	521687

Analysis Batch: 521860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521831
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521831
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521831
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	521831

GC/MS VOA (Continued)

Analysis Batch: 521860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521831
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521831
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521831
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521831
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521687
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521914
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521914
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	8260B/CA_LUFT MS	521914
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521687
MB 440-521860/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-521860/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521687
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521687

Analysis Batch: 521861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	8260B	521914
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	8260B	521914
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	8260B	521914
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	8260B	521914
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	8260B	521914
720-90640-23	DUP-125	Total/NA	Solid	8260B	521914
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	8260B	521914
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	8260B	521687
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	8260B	521687
720-90640-28	DUP-44	Total/NA	Solid	8260B	521687
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	8260B	521687
MB 440-521861/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-521861/5	Lab Control Sample	Total/NA	Solid	8260B	
440-229658-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-229658-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 521862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521914
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521914
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521914
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521914

GC/MS VOA (Continued)

Analysis Batch: 521862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521914
720-90640-23	DUP-125	Total/NA	Solid	8260B/CA_LUFT MS	521914
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521914
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	521687
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521687
720-90640-28	DUP-44	Total/NA	Solid	8260B/CA_LUFT MS	521687
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521687
MB 440-521862/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-521862/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-229658-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-229658-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 521914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	5035	
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	5035	
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	5035	
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	5035	
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	5035	
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	5035	
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	5035	
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	5035	
720-90640-23	DUP-125	Total/NA	Solid	5035	
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 522040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	8260B	522060
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	8260B	522060
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	8260B	522060
MB 440-522040/6	Method Blank	Total/NA	Solid	8260B	
LCS 440-522040/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-522040/11	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 522041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522060
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522060
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522060

GC/MS VOA (Continued)

Analysis Batch: 522041 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-522041/6	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-522041/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-522041/12	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 522060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	5035	
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	5035	
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 522083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	8260B	521687
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	8260B	522096
MB 440-522083/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-522083/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-522083/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 522084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	521687
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522096
MB 440-522084/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-522084/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-522084/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 522096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 522204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1 - RA	DG-T5S-0.5-1	Total/NA	Solid	8260B	521687
720-90640-3 - RA	DG-V5S-0.5-1	Total/NA	Solid	8260B	522259
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	8260B	522259
MB 440-522204/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-522204/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-522204/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 522205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522259
MB 440-522205/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 522205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-522205/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-522205/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 522259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-3 - RA	DG-V5S-0.5-1	Total/NA	Solid	5035	
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 523637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-33	FB-1.18.19	Total/NA	Water	8260B	
MB 440-523637/7	Method Blank	Total/NA	Water	8260B	
LCS 440-523637/8	Lab Control Sample	Total/NA	Water	8260B	
440-230044-C-7 MS	Matrix Spike	Total/NA	Water	8260B	
440-230044-C-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 523638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-33	FB-1.18.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-523638/7	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-523638/30	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-230044-C-7 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-230044-C-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 523695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-33 - RA	FB-1.18.19	Total/NA	Water	8260B	
MB 440-523695/4	Method Blank	Total/NA	Water	8260B	
LCS 440-523695/5	Lab Control Sample	Total/NA	Water	8260B	
440-229345-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-229345-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 258213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	3546	
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	3546	
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	3546	
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	3546	
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	3546	
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	3546	
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	3546	
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	3546	
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 258213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	3546	
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	3546	
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	3546	
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	3546	
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	3546	
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	3546	
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	3546	
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	3546	
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	3546	
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	3546	
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	3546	
MB 720-258213/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258213/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	3546	
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 258376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	8270C SIM	258213
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	8270C SIM	258213
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	8270C SIM	258213
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	8270C SIM	258213
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	8270C SIM	258213
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	8270C SIM	258213
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	8270C SIM	258213
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	8270C SIM	258213
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	8270C SIM	258213
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	8270C SIM	258213
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	8270C SIM	258213
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	8270C SIM	258213
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	8270C SIM	258213
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	8270C SIM	258213
MB 720-258213/1-A	Method Blank	Total/NA	Solid	8270C SIM	258213
LCS 720-258213/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258213
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	8270C SIM	258213
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	8270C SIM	258213

Analysis Batch: 258453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	8270C SIM	258213
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	8270C SIM	258213
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	8270C SIM	258213
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	8270C SIM	258213
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	8270C SIM	258213
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	8270C SIM	258213

Prep Batch: 258535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	3546	
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	3546	
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 258535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-23	DUP-125	Total/NA	Solid	3546	
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	3546	
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	3546	
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	3546	
720-90640-28	DUP-44	Total/NA	Solid	3546	
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	3546	
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	3546	
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	3546	
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	3546	
MB 720-258535/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258535/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90640-21 MS	DG-N5S-0.5-1	Total/NA	Solid	3546	
720-90640-21 MSD	DG-N5S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 258666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	8270C SIM	258535
MB 720-258535/1-A	Method Blank	Total/NA	Solid	8270C SIM	258535
LCS 720-258535/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258535
720-90640-21 MS	DG-N5S-0.5-1	Total/NA	Solid	8270C SIM	258535
720-90640-21 MSD	DG-N5S-0.5-1	Total/NA	Solid	8270C SIM	258535

Analysis Batch: 258699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	8270C SIM	258535
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	8270C SIM	258535
720-90640-23	DUP-125	Total/NA	Solid	8270C SIM	258535
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	8270C SIM	258535
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	8270C SIM	258535
720-90640-28	DUP-44	Total/NA	Solid	8270C SIM	258535
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	8270C SIM	258535
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	8270C SIM	258535
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	8270C SIM	258535
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	8270C SIM	258535

Analysis Batch: 258768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	8270C SIM	258535

GC Semi VOA

Analysis Batch: 258186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90638-D-3-C MS	Matrix Spike	Total/NA	Solid	8015B	258200
720-90638-D-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	258200

Analysis Batch: 258187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258200/1-A	Method Blank	Total/NA	Solid	8015B	258200
LCS 720-258200/2-A	Lab Control Sample	Total/NA	Solid	8015B	258200

GC Semi VOA (Continued)

Prep Batch: 258200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	3546	
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	3546	
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	3546	
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	3546	
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	3546	
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	3546	
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	3546	
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	3546	
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	3546	
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	3546	
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	3546	
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	3546	
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	3546	
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	3546	
MB 720-258200/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258200/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90638-D-3-C MS	Matrix Spike	Total/NA	Solid	3546	
720-90638-D-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	3546	
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	3546	
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	3546	
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	3546	
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	3546	
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	3546	
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	3546	
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	3546	
720-90640-23	DUP-125	Total/NA	Solid	3546	
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	3546	
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	3546	
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	3546	
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	3546	
720-90640-28	DUP-44	Total/NA	Solid	3546	
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	3546	
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	3546	
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	3546	
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	3546	
MB 720-258201/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258201/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	3546	
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 258204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	3546	
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	3546	
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	3546	
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	3546	
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 258204 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	3546	
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	3546	
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	3546	
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	3546	
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	3546	
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	3546	
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	3546	
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	3546	
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	3546	
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	3546	
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	3546	
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	3546	
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	3546	
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	3546	
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	3546	
MB 720-258204/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258204/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	3546	
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 258208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	3546	
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	3546	
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	3546	
720-90640-23	DUP-125	Total/NA	Solid	3546	
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	3546	
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	3546	
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	3546	
720-90640-28	DUP-44	Total/NA	Solid	3546	
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	3546	
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	3546	
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	3546	
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	3546	
MB 720-258208/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258208/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90638-D-1-K MS	Matrix Spike	Total/NA	Solid	3546	
720-90638-D-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 258273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	8015B	258201
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	8015B	258200
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	8015B	258200
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	8015B	258201
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	8015B	258201
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	8015B	258201
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	8015B	258201
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	8015B	258201
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	8015B	258201
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	8015B	258201

GC Semi VOA (Continued)

Analysis Batch: 258273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258201/1-A	Method Blank	Total/NA	Solid	8015B	258201
LCS 720-258201/2-A	Lab Control Sample	Total/NA	Solid	8015B	258201
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	8015B	258201
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	8015B	258201

Analysis Batch: 258284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	8015B	258200
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	8015B	258200
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	8015B	258200
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	8015B	258200
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	8015B	258200
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	8015B	258200
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	8015B	258201
720-90640-23	DUP-125	Total/NA	Solid	8015B	258201
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	8015B	258201
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	8015B	258201
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	8015B	258201

Analysis Batch: 258285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	8015B	258200
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	8015B	258200
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	8015B	258200
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	8015B	258200
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	8015B	258200
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	8015B	258200
720-90640-28	DUP-44	Total/NA	Solid	8015B	258201
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	8015B	258201
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	8015B	258201
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	8015B	258201
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	8015B	258201

Analysis Batch: 258312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	8081A	258204
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	8081A	258204
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	8081A	258204
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	8081A	258204
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	8081A	258204
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	8081A	258204
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	8081A	258204
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	8081A	258204
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	8081A	258204
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	8081A	258204
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	8081A	258204
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	8081A	258204
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	8081A	258204
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	8081A	258204
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	8081A	258204
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	8081A	258204

GC Semi VOA (Continued)

Analysis Batch: 258312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258204/1-A	Method Blank	Total/NA	Solid	8081A	258204
LCS 720-258204/2-A	Lab Control Sample	Total/NA	Solid	8081A	258204
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	8081A	258204
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	8081A	258204

Analysis Batch: 258325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	8081A	258204
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	8081A	258204
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	8081A	258204
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	8081A	258204
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	8081A	258208
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	8081A	258208
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	8081A	258208
720-90640-23	DUP-125	Total/NA	Solid	8081A	258208
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	8081A	258208
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	8081A	258208
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	8081A	258208
720-90640-28	DUP-44	Total/NA	Solid	8081A	258208
MB 720-258208/1-A	Method Blank	Total/NA	Solid	8081A	258208
LCS 720-258208/2-A	Lab Control Sample	Total/NA	Solid	8081A	258208
720-90638-D-1-K MS	Matrix Spike	Total/NA	Solid	8081A	258208
720-90638-D-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	258208

Analysis Batch: 258354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	8081A	258208
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	8081A	258208
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	8081A	258208
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	8081A	258208

Prep Batch: 521728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	3546	
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	3546	
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	3546	
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	3546	
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	3546	
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	3546	
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	3546	
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	3546	
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	3546	
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	3546	
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	3546	
720-90640-12 - DL	DG-AF5S-0.5-1	Total/NA	Solid	3546	
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	3546	
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	3546	
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	3546	
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	3546	
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	3546	
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 521728 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	3546	
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	3546	
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	3546	
MB 440-521728/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-521728/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90640-1 MS	DG-T5S-0.5-1	Total/NA	Solid	3546	
720-90640-1 MSD	DG-T5S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 521729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	3546	
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	3546	
720-90640-23	DUP-125	Total/NA	Solid	3546	
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	3546	
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	3546	
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	3546	
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	3546	
720-90640-28	DUP-44	Total/NA	Solid	3546	
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	3546	
720-90640-30 - DL	DG-S7S-3.5-4	Total/NA	Solid	3546	
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	3546	
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	3546	
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	3546	
MB 440-521729/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-521729/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	3546	
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 521900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	8082	521729
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	8082	521729
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	8082	521729
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	8082	521729
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	8082	521729
720-90640-28	DUP-44	Total/NA	Solid	8082	521729
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	8082	521729
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	8082	521729
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	8082	521729
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	8082	521729
MB 440-521729/1-A	Method Blank	Total/NA	Solid	8082	521729
LCS 440-521729/2-A	Lab Control Sample	Total/NA	Solid	8082	521729
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	8082	521729
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	8082	521729

Analysis Batch: 521970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	8082	521728
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	8082	521728

GC Semi VOA (Continued)

Analysis Batch: 521970 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	8082	521728
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	8082	521728
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	8082	521728
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	8082	521728
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	8082	521728
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	8082	521728
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	8082	521728
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	8082	521728
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	8082	521728
MB 440-521728/1-A	Method Blank	Total/NA	Solid	8082	521728
LCS 440-521728/2-A	Lab Control Sample	Total/NA	Solid	8082	521728
720-90640-1 MS	DG-T5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-1 MSD	DG-T5S-0.5-1	Total/NA	Solid	8082	521728

Analysis Batch: 522268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-12 - DL	DG-AF5S-0.5-1	Total/NA	Solid	8082	521728
720-90640-23	DUP-125	Total/NA	Solid	8082	521729
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	8082	521729
720-90640-30 - DL	DG-S7S-3.5-4	Total/NA	Solid	8082	521729

Metals

Prep Batch: 258195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	3050B	
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	3050B	
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	3050B	
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	3050B	
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	3050B	
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	3050B	
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	3050B	
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	3050B	
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	3050B	
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	3050B	
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	3050B	
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	3050B	
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	3050B	
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	3050B	
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	3050B	
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	3050B	
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	3050B	
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 258195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	3050B	
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	3050B	
MB 720-258195/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258195/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	3050B	
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 258198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	3050B	
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	3050B	
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	3050B	
720-90640-23	DUP-125	Total/NA	Solid	3050B	
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	3050B	
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	3050B	
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	3050B	
720-90640-28	DUP-44	Total/NA	Solid	3050B	
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	3050B	
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	3050B	
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	3050B	
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	3050B	
MB 720-258198/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258198/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90640-20 MS	DG-P5S-3.5-4	Total/NA	Solid	3050B	
720-90640-20 MSD	DG-P5S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 258199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	7471A	
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	7471A	
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	7471A	
720-90640-23	DUP-125	Total/NA	Solid	7471A	
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	7471A	
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	7471A	
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	7471A	
720-90640-28	DUP-44	Total/NA	Solid	7471A	
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	7471A	
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	7471A	
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	7471A	
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	7471A	
MB 720-258199/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258199/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90640-20 MS	DG-P5S-3.5-4	Total/NA	Solid	7471A	
720-90640-20 MSD	DG-P5S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 258212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	7471A	
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	7471A	
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	7471A	
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 258212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	7471A	
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	7471A	
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	7471A	
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	7471A	
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	7471A	
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	7471A	
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	7471A	
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	7471A	
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	7471A	
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	7471A	
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	7471A	
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	7471A	
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	7471A	
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	7471A	
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	7471A	
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	7471A	
MB 720-258212/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258212/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	7471A	
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 258268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	6010B	258195
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	6010B	258195
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	6010B	258195
MB 720-258195/1-A	Method Blank	Total/NA	Solid	6010B	258195
LCS 720-258195/2-A	Lab Control Sample	Total/NA	Solid	6010B	258195
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	6010B	258195

Analysis Batch: 258318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	7471A	258199

Metals (Continued)

Analysis Batch: 258318 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	7471A	258199
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	7471A	258199
720-90640-23	DUP-125	Total/NA	Solid	7471A	258199
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	7471A	258199
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	7471A	258199
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	7471A	258199
720-90640-28	DUP-44	Total/NA	Solid	7471A	258199
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	7471A	258199
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	7471A	258199
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	7471A	258199
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	7471A	258199
MB 720-258199/1-A	Method Blank	Total/NA	Solid	7471A	258199
LCS 720-258199/2-A	Lab Control Sample	Total/NA	Solid	7471A	258199
720-90640-20 MS	DG-P5S-3.5-4	Total/NA	Solid	7471A	258199
720-90640-20 MSD	DG-P5S-3.5-4	Total/NA	Solid	7471A	258199

Analysis Batch: 258345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	6010B	258195
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	6010B	258195
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	6010B	258195
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	6010B	258195
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	6010B	258195

Analysis Batch: 258537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	6010B	258198
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	6010B	258198
720-90640-23	DUP-125	Total/NA	Solid	6010B	258198
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	6010B	258198
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	6010B	258198
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	6010B	258198
720-90640-28	DUP-44	Total/NA	Solid	6010B	258198
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	6010B	258198
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	6010B	258198
MB 720-258198/1-A	Method Blank	Total/NA	Solid	6010B	258198
LCS 720-258198/2-A	Lab Control Sample	Total/NA	Solid	6010B	258198
720-90640-20 MS	DG-P5S-3.5-4	Total/NA	Solid	6010B	258198
720-90640-20 MSD	DG-P5S-3.5-4	Total/NA	Solid	6010B	258198

Analysis Batch: 258553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	6010B	258198
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	6010B	258198
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	6010B	258198

Metals (Continued)

Analysis Batch: 258637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	6010B	258198
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	6010B	258198

Analysis Batch: 258932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	7471A	258212
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	7471A	258212
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	7471A	258212
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	7471A	258212
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	7471A	258212
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	7471A	258212
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	7471A	258212
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	7471A	258212
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	7471A	258212
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	7471A	258212
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	7471A	258212
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	7471A	258212
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	7471A	258212
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	7471A	258212
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	7471A	258212
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	7471A	258212
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	7471A	258212
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	7471A	258212
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	7471A	258212
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	7471A	258212
MB 720-258212/1-A	Method Blank	Total/NA	Solid	7471A	258212
LCS 720-258212/2-A	Lab Control Sample	Total/NA	Solid	7471A	258212
720-90640-27 MS	DG-Q7S-3.5-4	Total/NA	Solid	7471A	258212
720-90640-27 MSD	DG-Q7S-3.5-4	Total/NA	Solid	7471A	258212

General Chemistry

Analysis Batch: 258219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-1	DG-T5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-2	DG-T5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-3	DG-V5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-4	DG-V5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-5	DG-V5S-7.5-8	Total/NA	Solid	Moisture	
720-90640-6	DG-X5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-7	DG-X5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-8	DG-Z5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-9	DG-Z5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-10	DG-AD5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-11	DG-AD5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-12	DG-AF5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-13	DG-AF5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-14	DG-AH5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-15	DG-AH5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-16	DG-AH5S-8-8.5	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 258219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-17	DG-AJ5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-18	DG-AJ5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-19	DG-P5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-1 DU	DG-T5S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 258222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90640-20	DG-P5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-21	DG-N5S-0.5-1	Total/NA	Solid	Moisture	
720-90640-22	DG-N5S-3.5-4	Total/NA	Solid	Moisture	
720-90640-23	DUP-125	Total/NA	Solid	Moisture	
720-90640-24	DG-O7S-0.5-1	Total/NA	Solid	Moisture	
720-90640-25	DG-O7S-3.5-4	Total/NA	Solid	Moisture	
720-90640-26	DG-Q7S-0.5-1	Total/NA	Solid	Moisture	
720-90640-27	DG-Q7S-3.5-4	Total/NA	Solid	Moisture	
720-90640-28	DUP-44	Total/NA	Solid	Moisture	
720-90640-29	DG-S7S-0.5-1	Total/NA	Solid	Moisture	
720-90640-30	DG-S7S-3.5-4	Total/NA	Solid	Moisture	
720-90640-31	DG-U7S-0.5-1	Total/NA	Solid	Moisture	
720-90640-32	DG-U7S-3.5-4	Total/NA	Solid	Moisture	
720-90640-20 DU	DG-P5S-3.5-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-T5S-0.5-1

Date Collected: 01/08/19 07:45
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 10:37	AYL	TAL IRV
Total/NA	Prep	5035	RA		521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B	RA	1	522204	01/14/19 10:22	WC	TAL IRV
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 10:37	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 17:37	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258273	01/10/19 18:23	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 19:20	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 16:25	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 16:56	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 15:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-T5S-3.5-4

Date Collected: 01/08/19 07:47
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 11:00	AYL	TAL IRV
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 11:00	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 14:28	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258285	01/10/19 19:01	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 19:36	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 16:38	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:01	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 15:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-V5S-0.5-1

Date Collected: 01/08/19 08:05
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522083	01/12/19 11:44	AYL	TAL IRV
Total/NA	Prep	5035	RA		522259	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B	RA	1	522204	01/14/19 10:57	WC	TAL IRV
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522084	01/12/19 11:44	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 19:11	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258285	01/10/19 21:27	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 19:53	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 16:52	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:06	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-V5S-3.5-4

Date Collected: 01/08/19 08:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 12:12	AYL	TAL IRV
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 12:12	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 14:51	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258285	01/10/19 20:29	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 20:10	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 17:05	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:20	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-V5S-7.5-8

Date Collected: 01/08/19 08:10
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 12:36	AYL	TAL IRV
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 12:36	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 15:15	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258285	01/10/19 19:30	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 20:27	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 17:19	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258345	01/10/19 18:15	BKR	TAL PLS
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:25	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-X5S-0.5-1

Date Collected: 01/08/19 08:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 13:00	AYL	TAL IRV
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 13:00	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 19:35	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258285	01/10/19 22:26	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 20:43	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 17:32	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:29	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-X5S-3.5-4

Date Collected: 01/08/19 08:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 13:24	AYL	TAL IRV
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 13:24	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 15:39	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258285	01/10/19 19:59	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 21:00	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 17:46	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258345	01/10/19 18:19	BKR	TAL PLS
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:34	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-Z5S-0.5-1

Date Collected: 01/08/19 08:40
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521831	01/09/19 21:37	WC	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 13:48	AYL	TAL IRV
Total/NA	Prep	5035			521831	01/09/19 21:37	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 13:48	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		4	258376	01/11/19 21:09	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258284	01/10/19 21:27	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 21:17	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 17:59	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:39	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-Z5S-3.5-4

Lab Sample ID: 720-90640-9

Date Collected: 01/08/19 08:42

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 14:12	AYL	TAL IRV
Total/NA	Prep	5035			521831	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 14:12	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 16:02	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258284	01/10/19 19:01	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 21:33	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 18:13	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258345	01/10/19 18:24	BKR	TAL PLS
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:44	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-AD5S-0.5-1

Lab Sample ID: 720-90640-10

Date Collected: 01/08/19 09:20

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522060	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	522040	01/11/19 23:45	AYL	TAL IRV
Total/NA	Prep	5035			522060	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522041	01/11/19 23:45	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		4	258453	01/14/19 12:03	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		2	258284	01/10/19 21:57	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 21:50	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 18:27	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:48	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-AD5S-3.5-4

Lab Sample ID: 720-90640-11

Date Collected: 01/08/19 09:22

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522060	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	522040	01/12/19 00:09	AYL	TAL IRV
Total/NA	Prep	5035			522060	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522041	01/12/19 00:09	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 16:26	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258284	01/10/19 19:30	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 22:07	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 18:40	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:53	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-AF5S-0.5-1

Lab Sample ID: 720-90640-12

Date Collected: 01/08/19 09:35

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 15:24	AYL	TAL IRV
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 15:24	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		4	258453	01/14/19 12:26	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		2	258284	01/10/19 22:26	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 22:23	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 18:54	JM	TAL IRV
Total/NA	Prep	3546	DL		521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082	DL	2	522268	01/14/19 15:31	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 17:58	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-AF5S-3.5-4

Lab Sample ID: 720-90640-13

Date Collected: 01/08/19 09:37

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522096	01/08/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	522083	01/12/19 12:17	AYL	TAL IRV
Total/NA	Prep	5035			522096	01/08/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522084	01/12/19 12:17	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 16:49	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258284	01/10/19 19:59	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 22:40	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 19:07	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 18:02	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-AH5S-0.5-1

Lab Sample ID: 720-90640-14

Date Collected: 01/08/19 09:55

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 16:11	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 16:11	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 19:59	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258273	01/11/19 00:27	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 22:57	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 19:21	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258345	01/10/19 18:29	BKR	TAL PLS
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 18:17	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-AH5S-3.5-4

Date Collected: 01/08/19 09:57
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 16:35	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 16:35	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		5	258453	01/14/19 13:37	LPL	TAL PLS
Total/NA	Prep	3546			258200	01/09/19 09:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258273	01/11/19 00:03	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 23:13	JZT	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 19:34	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258345	01/10/19 18:43	BKR	TAL PLS
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 18:21	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-AH5S-8-8.5

Date Collected: 01/08/19 10:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 16:59	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 16:59	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 17:13	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258273	01/10/19 17:58	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 11:12	MQL	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 19:48	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258345	01/10/19 18:48	BKR	TAL PLS
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 18:26	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:40	MAG	TAL PLS

Client Sample ID: DG-AH5S-8-8.5

Lab Sample ID: 720-90640-16

Date Collected: 01/08/19 10:00

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-AJ5S-0.5-1

Lab Sample ID: 720-90640-17

Date Collected: 01/08/19 10:20

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 11:43	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 11:43	WC	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		2	258453	01/14/19 12:50	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258273	01/10/19 19:11	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 11:29	MQL	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 20:02	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258345	01/10/19 18:52	BKR	TAL PLS
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 18:31	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-AJ5S-3.5-4

Lab Sample ID: 720-90640-18

Date Collected: 01/08/19 10:22

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 11:21	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 11:21	WC	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		2	258453	01/14/19 13:14	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		10	258273	01/10/19 23:39	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 11:47	MQL	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV

Client Sample ID: DG-AJ5S-3.5-4

Lab Sample ID: 720-90640-18

Date Collected: 01/08/19 10:22

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	521970	01/11/19 20:15	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258345	01/10/19 18:57	BKR	TAL PLS
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 18:36	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-P5S-0.5-1

Lab Sample ID: 720-90640-19

Date Collected: 01/08/19 11:15

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 14:05	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 14:05	WC	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258453	01/14/19 14:01	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258273	01/10/19 19:35	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 12:04	MQL	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 20:29	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258345	01/10/19 19:02	BKR	TAL PLS
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258268	01/09/19 18:40	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 16:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258219	01/09/19 11:02	TNL	TAL PLS

Client Sample ID: DG-P5S-3.5-4

Lab Sample ID: 720-90640-20

Date Collected: 01/08/19 11:17

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 14:34	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 14:34	WC	TAL IRV

Client Sample ID: DG-P5S-3.5-4

Lab Sample ID: 720-90640-20

Date Collected: 01/08/19 11:17
Matrix: Solid
Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258699	01/17/19 16:19	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		5	258273	01/10/19 21:13	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 13:32	MQL	TAL PLS
Total/NA	Prep	3546			521728	01/10/19 13:06	EGC	TAL IRV
Total/NA	Analysis	8082		1	521970	01/11/19 20:42	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258537	01/14/19 14:51	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DG-N5S-0.5-1

Lab Sample ID: 720-90640-21

Date Collected: 01/08/19 12:05
Matrix: Solid
Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 15:02	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 15:02	WC	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		2	258666	01/17/19 07:43	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258273	01/10/19 20:00	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 13:50	MQL	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 18:29	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258537	01/14/19 14:56	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DG-N5S-3.5-4

Lab Sample ID: 720-90640-22

Date Collected: 01/08/19 12:07
Matrix: Solid
Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-N5S-3.5-4

Date Collected: 01/08/19 12:07
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	521861	01/11/19 15:31	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 15:31	WC	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258699	01/17/19 12:46	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258284	01/10/19 18:32	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 14:07	MQL	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 18:42	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258553	01/15/19 11:50	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DUP-125

Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 16:28	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 16:28	WC	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258699	01/17/19 14:44	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258284	01/10/19 20:29	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 14:25	MQL	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	522268	01/14/19 16:12	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258537	01/14/19 15:05	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-O7S-0.5-1

Date Collected: 01/08/19 13:25
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 16:56	AYL	TAL IRV
Total/NA	Prep	5035			521914	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 16:56	WC	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258768	01/18/19 14:30	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		3	258284	01/10/19 23:25	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 14:42	MQL	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	522268	01/14/19 16:25	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258637	01/16/19 12:36	BKR	TAL PLS
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258537	01/14/19 15:19	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DG-O7S-3.5-4

Date Collected: 01/08/19 13:27
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 17:25	AYL	TAL IRV
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 17:25	WC	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258699	01/17/19 13:57	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258284	01/10/19 20:58	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 15:00	MQL	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 19:22	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258637	01/16/19 12:40	BKR	TAL PLS
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258537	01/14/19 15:24	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:32	MAG	TAL PLS

Client Sample ID: DG-O7S-3.5-4

Lab Sample ID: 720-90640-25

Date Collected: 01/08/19 13:27

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DG-Q7S-0.5-1

Lab Sample ID: 720-90640-26

Date Collected: 01/08/19 13:43

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 17:53	AYL	TAL IRV
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 17:53	WC	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258699	01/17/19 15:08	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		2	258284	01/10/19 22:55	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 15:17	MQL	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 19:36	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258537	01/14/19 15:29	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DG-Q7S-3.5-4

Lab Sample ID: 720-90640-27

Date Collected: 01/08/19 13:45

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521859	01/11/19 09:25	AYL	TAL IRV
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521860	01/11/19 09:25	AYL	TAL IRV
Total/NA	Prep	3546			258213	01/09/19 10:18	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258376	01/11/19 18:00	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258273	01/10/19 18:47	JXL	TAL PLS
Total/NA	Prep	3546			258204	01/09/19 09:56	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258312	01/10/19 19:03	JZT	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 18:16	JM	TAL IRV
Total/NA	Prep	3050B			258195	01/09/19 08:37	SUN	TAL PLS

Client Sample ID: DG-Q7S-3.5-4

Lab Sample ID: 720-90640-27

Date Collected: 01/08/19 13:45

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		4	258268	01/09/19 16:51	BKR	TAL PLS
Total/NA	Prep	7471A			258212	01/21/19 14:13	SUN	TAL PLS
Total/NA	Analysis	7471A		1	258932	01/21/19 15:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DUP-44

Lab Sample ID: 720-90640-28

Date Collected: 01/08/19 00:00

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 18:21	AYL	TAL IRV
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 18:21	WC	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258699	01/17/19 15:31	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		2	258285	01/10/19 22:55	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258325	01/11/19 15:35	MQL	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 19:49	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258537	01/14/19 15:33	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DG-S7S-0.5-1

Lab Sample ID: 720-90640-29

Date Collected: 01/08/19 14:20

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	521861	01/11/19 18:50	AYL	TAL IRV
Total/NA	Prep	5035			521687	01/08/19 18:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	521862	01/11/19 18:50	WC	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258699	01/17/19 15:55	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		5	258285	01/10/19 23:25	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258354	01/11/19 15:13	MQL	TAL PLS

Client Sample ID: DG-S7S-0.5-1

Lab Sample ID: 720-90640-29

Date Collected: 01/08/19 14:20

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 20:02	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258537	01/14/19 15:38	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DG-S7S-3.5-4

Lab Sample ID: 720-90640-30

Date Collected: 01/08/19 14:22

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258699	01/17/19 13:10	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258285	01/10/19 20:58	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258354	01/11/19 15:29	MQL	TAL PLS
Total/NA	Prep	3546	DL		521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082	DL	10	522268	01/14/19 16:39	JM	TAL IRV
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 20:16	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258553	01/15/19 12:04	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DG-U7S-0.5-1

Lab Sample ID: 720-90640-31

Date Collected: 01/08/19 14:50

Matrix: Solid

Date Received: 01/08/19 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522060	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B		1	522040	01/12/19 00:56	AYL	TAL IRV
Total/NA	Prep	5035			522060	01/09/19 18:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522041	01/12/19 00:56	AYL	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258699	01/17/19 14:21	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258285	01/10/19 21:57	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Client Sample ID: DG-U7S-0.5-1

Date Collected: 01/08/19 14:50
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081A		1	258354	01/11/19 15:46	MQL	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 20:29	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258537	01/14/19 15:48	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: DG-U7S-3.5-4

Date Collected: 01/08/19 14:52
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258699	01/17/19 13:34	LPL	TAL PLS
Total/NA	Prep	3546			258201	01/09/19 09:45	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258285	01/10/19 18:32	JXL	TAL PLS
Total/NA	Prep	3546			258208	01/09/19 10:04	KLM	TAL PLS
Total/NA	Analysis	8081A		1	258354	01/11/19 16:02	MQL	TAL PLS
Total/NA	Prep	3546			521729	01/10/19 13:10	EGC	TAL IRV
Total/NA	Analysis	8082		1	521900	01/11/19 20:42	JM	TAL IRV
Total/NA	Prep	3050B			258198	01/09/19 10:14	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258553	01/15/19 12:09	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258222	01/09/19 11:43	TNL	TAL PLS

Client Sample ID: FB-1.18.19

Date Collected: 01/08/19 00:00
Date Received: 01/08/19 17:30

Lab Sample ID: 720-90640-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523637	01/20/19 15:25	JB	TAL IRV
Total/NA	Analysis	8260B	RA	1	523695	01/21/19 12:59	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523638	01/20/19 15:25	JB	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90640-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3546	Solid	Chlordane (n.o.s.)
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90640-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90640-1	DG-T5S-0.5-1	Solid	01/08/19 07:45	01/08/19 17:30
720-90640-2	DG-T5S-3.5-4	Solid	01/08/19 07:47	01/08/19 17:30
720-90640-3	DG-V5S-0.5-1	Solid	01/08/19 08:05	01/08/19 17:30
720-90640-4	DG-V5S-3.5-4	Solid	01/08/19 08:07	01/08/19 17:30
720-90640-5	DG-V5S-7.5-8	Solid	01/08/19 08:10	01/08/19 17:30
720-90640-6	DG-X5S-0.5-1	Solid	01/08/19 08:25	01/08/19 17:30
720-90640-7	DG-X5S-3.5-4	Solid	01/08/19 08:27	01/08/19 17:30
720-90640-8	DG-Z5S-0.5-1	Solid	01/08/19 08:40	01/08/19 17:30
720-90640-9	DG-Z5S-3.5-4	Solid	01/08/19 08:42	01/08/19 17:30
720-90640-10	DG-AD5S-0.5-1	Solid	01/08/19 09:20	01/08/19 17:30
720-90640-11	DG-AD5S-3.5-4	Solid	01/08/19 09:22	01/08/19 17:30
720-90640-12	DG-AF5S-0.5-1	Solid	01/08/19 09:35	01/08/19 17:30
720-90640-13	DG-AF5S-3.5-4	Solid	01/08/19 09:37	01/08/19 17:30
720-90640-14	DG-AH5S-0.5-1	Solid	01/08/19 09:55	01/08/19 17:30
720-90640-15	DG-AH5S-3.5-4	Solid	01/08/19 09:57	01/08/19 17:30
720-90640-16	DG-AH5S-8-8.5	Solid	01/08/19 10:00	01/08/19 17:30
720-90640-17	DG-AJ5S-0.5-1	Solid	01/08/19 10:20	01/08/19 17:30
720-90640-18	DG-AJ5S-3.5-4	Solid	01/08/19 10:22	01/08/19 17:30
720-90640-19	DG-P5S-0.5-1	Solid	01/08/19 11:15	01/08/19 17:30
720-90640-20	DG-P5S-3.5-4	Solid	01/08/19 11:17	01/08/19 17:30
720-90640-21	DG-N5S-0.5-1	Solid	01/08/19 12:05	01/08/19 17:30
720-90640-22	DG-N5S-3.5-4	Solid	01/08/19 12:07	01/08/19 17:30
720-90640-23	DUP-125	Solid	01/08/19 00:00	01/08/19 17:30
720-90640-24	DG-O7S-0.5-1	Solid	01/08/19 13:25	01/08/19 17:30
720-90640-25	DG-O7S-3.5-4	Solid	01/08/19 13:27	01/08/19 17:30
720-90640-26	DG-Q7S-0.5-1	Solid	01/08/19 13:43	01/08/19 17:30
720-90640-27	DG-Q7S-3.5-4	Solid	01/08/19 13:45	01/08/19 17:30
720-90640-28	DUP-44	Solid	01/08/19 00:00	01/08/19 17:30
720-90640-29	DG-S7S-0.5-1	Solid	01/08/19 14:20	01/08/19 17:30
720-90640-30	DG-S7S-3.5-4	Solid	01/08/19 14:22	01/08/19 17:30
720-90640-31	DG-U7S-0.5-1	Solid	01/08/19 14:50	01/08/19 17:30
720-90640-32	DG-U7S-3.5-4	Solid	01/08/19 14:52	01/08/19 17:30
720-90640-33	FB-1.18.19	Water	01/08/19 00:00	01/08/19 17:30

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A1817558
Received:01/10/2019
Reported:1/21/2019
Analyst: Mikaela Batta
Danielle Carrier

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-T5S-0.5-1 (720-90640-1)	A8817	No	None Detected	0.00
DG-T5S-3.5-4 (720-90640-2)	A8818	No	None Detected	0.00
DG-V5S-0.5-1 (720-90640-3)	A8819	No	None Detected	0.00
DG-V5S-3.5-4 (720-90640-4)	A8820	No	None Detected	0.00
DG-V5S-7.5-8 (720-90640-5)	A8821	No	None Detected	0.00
DG-X5S-0.5-1 (720-90640-6)	A8822	No	None Detected	0.00
DG-X5S-3.5-4 (720-90640-7)	A8823	No	None Detected	0.00
DG-Z5S-0.5-1 (720-90640-8)	A8824	No	None Detected	0.00
DG-Z5S-3.5-4 (720-90640-9)	A8825	No	None Detected	0.00
DG-AD5S-0.5-1 (720-90640-10)	A8826	No	None Detected	0.00
DG-AD5S-3.5-4 (720-90640-11)	A8827	No	None Detected	0.00
DG-AF5S-0.5-1 (720-90640-12)	A8828	Yes	Chrysotile Amosite	<0.25 <0.25

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T 919-481-1413
F 919-481-1442
www.EurofinsUS.com/CEI

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Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AF5S-3.5-4 (720-90640-13)	A8829	No	None Detected	0.00
DG-AH5S-0.5-1 (720-90640-14)	A8830	No	None Detected	0.00
DG-AH5S-3.5-4 (720-90640-15)	A8831	No	None Detected	0.00
DG-AH5S-8-8.5 (720-90640-16)	A8832	No	None Detected	0.00
DG-AJ5S-0.5-1 (720-90640-17)	A8833	Yes	Amosite	<0.25
DG-AJ5S-3.5-4 (720-90640-18)	A8834	Yes	Amosite	<0.25
DG-P5S-0.5-1 (720-90640-19)	A8835	No	None Detected	0.00
DG-P5S-3.5-4 (720-90640-20)	A8836	Yes	Chrysotile	<0.25
DG-N5S-0.5-1 (720-90640-21)	A8837	No	None Detected	0.00
DG-N5S-3.5-4 (720-90640-22)	A8838	No	None Detected	0.00
DUP-125 (720-90640-23)	A8839	No	None Detected	0.00
DG-O7S-0.5-1 (720-90640-24)	A8840	No	None Detected	0.00
DG-O7S-3.5-4 (720-90640-25)	A8841	Yes	Chrysotile	2.25%
DG-Q7S-0.5-1 (720-90640-26)	A8842	No	None Detected	0.00
DG-Q7S-3.5-4 (720-90640-27)	A8843	No	None Detected	0.00
DUP 44 (720-90640-28)	A8844	No	None Detected	0.00
DG-S7S-0.5-1 (720-90640-29)	A8845	Yes	Amosite	<0.25
DG-S7S-3.5-4 (720-90640-30)	A8846	Yes	Chrysotile	<0.25
DG-U7S-0.5-1 (720-90640-31)	A8847	No	None Detected	0.00
DG-U7S-3.5-4 (720-90640-32)	A8848	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
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F 919-481-1442
www.EurofinsUS.com/CEI

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REVIEWED BY: _____

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

(32) A8817-A8848 A1906085

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40727.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 730 SE Maynard Rd,	Due Date Requested: 1/22/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)	Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
DG-T5S-0.5-1 (720-90640-1)	1/8/19	07:45 Pacific		Solid			X		1	
DG-T5S-3.5-4 (720-90640-2)	1/8/19	07:47 Pacific		Solid			X		1	
DG-V5S-0.5-1 (720-90640-3)	1/8/19	08:05 Pacific		Solid			X		1	
DG-V5S-3.5-4 (720-90640-4)	1/8/19	08:07 Pacific		Solid			X		1	
DG-V5S-7.5-8 (720-90640-5)	1/8/19	08:10 Pacific		Solid			X		1	
DG-X5S-0.5-1 (720-90640-6)	1/8/19	08:25 Pacific		Solid			X		1	
DG-X5S-3.5-4 (720-90640-7)	1/8/19	08:27 Pacific		Solid			X		1	eurofins Acce
DG-Z5S-0.5-1 (720-90640-8)	1/8/19	08:40 Pacific		Solid			X		1	
DG-Z5S-3.5-4 (720-90640-9)	1/8/19	08:42 Pacific		Solid			X		1	GD

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/9/19 1500	Company TAK	Received by: GD	Date/Time: 1/10 9:50	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40727-2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 730 SE Maynard Rd,	Due Date Requested: 1/22/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)	Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
DG-AD5S-0.5-1 (720-90640-10)	1/8/19	09:20 Pacific		Solid			X		1	
DG-AD5S-3.5-4 (720-90640-11)	1/8/19	09:22 Pacific		Solid			X		1	
DG-AF5S-0.5-1 (720-90640-12)	1/8/19	09:35 Pacific		Solid			X		1	
DG-AF5S-3.5-4 (720-90640-13)	1/8/19	09:37 Pacific		Solid			X		1	
DG-AH5S-0.5-1 (720-90640-14)	1/8/19	09:55 Pacific		Solid			X		1	
DG-AH5S-3.5-4 (720-90640-15)	1/8/19	09:57 Pacific		Solid			X		1	
DG-AH5S-8-8.5 (720-90640-16)	1/8/19	10:00 Pacific		Solid			X		1	
DG-AJ5S-0.5-1 (720-90640-17)	1/8/19	10:20 Pacific		Solid			X		1	
DG-AJ5S-3.5-4 (720-90640-18)	1/8/19	10:22 Pacific		Solid			X		1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/9/19 1500	Company TAPL	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

A90605

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-~~40727.3~~
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 730 SE Maynard Rd,	Due Date Requested: 1/22/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI) Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-P5S-0.5-1 (720-90640-19)	1/8/19	11:15 Pacific		Solid			X	1	
DG-P5S-3.5-4 (720-90640-20)	1/8/19	11:17 Pacific		Solid			X	1	
DG-N5S-0.5-1 (720-90640-21)	1/8/19	12:05 Pacific		Solid			X	1	
DG-N5S-3.5-4 (720-90640-22)	1/8/19	12:07 Pacific		Solid			X	1	
DUP-125 (720-90640-23)	1/8/19	Pacific		Solid			X	1	
DG-O7S-0.5-1 (720-90640-24)	1/8/19	13:25 Pacific		Solid			X	1	
DG-O7S-3.5-4 (720-90640-25)	1/8/19	13:27 Pacific		Solid			X	1	
DG-Q7S-0.5-1 (720-90640-26)	1/8/19	13:43 Pacific		Solid			X	1	
DG-Q7S-3.5-4 (720-90640-27)	1/8/19	13:45 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/9/19 1500	Company: TAPS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

A1906605

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40727-4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 730 SE Maynard Rd,	Due Date Requested: 1/22/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)	Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
DUP 44 (720-90640-28)	1/8/19	Pacific		Solid			X		1	
DG-S7S-0.5-1 (720-90640-29)	1/8/19	14:20 Pacific		Solid			X		1	
DG-S7S-3.5-4 (720-90640-30)	1/8/19	14:22 Pacific		Solid			X		1	
DG-U7S-0.5-1 (720-90640-31)	1/8/19	14:50 Pacific		Solid			X		1	
DG-U7S-3.5-4 (720-90640-32)	1/8/19	14:52 Pacific		Solid			X		1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/9/19 1000	TRS			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90640

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/08/2019	COC No 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: GH
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☑ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			720-90640 Chain of Custody
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-T55-0.5-1	1/8/19	745	G	S	7	N		X	X	X	X	X	X	X	
2	DG-T55-3.5-4		747													
3	DG-V55-0.5-1		805													
4	DG-V55-3.5-4		807													
5	DG-V55-7.5-8		810													
6	DG-X55-0.5-1		825													
7	DG-X55-3.5-4		827													
8	DG-Z55-0.5-1		840													
9	DG-Z55-3.5-4		842													
10	DG-AD55-0.5-1		920													
11	DG-AD55-3.5-4		922													
12	DG-AF55-0.5-1		935													

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by: George Hichborn	Company: Geosyntec	Date/Time: 1-8-19 1845	Received by:	Company: TALS	Date/Time: 1/8/19 1345
Relinquished by:	Company: TALS	Date/Time: 1/8/19 1730	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA PLS	Date/Time: 1/8/19 1730

7-4/1.8 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

720-90640

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-8-19	COC No 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & 8RO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13	DG-AF55-3.5-4	1/8/19	937	G	S	7	N		X	X	X	X	X	X	X	
14	DG-AH55-0.5-1		955													
15	DG-AH55-3.5-4		957													
16	DG-AH55-8-8.5		1000													
17	DG-AJ55-0.5-1		1020													
18	DG-AJ55-3.5-4		1022													
19	DG-PS5-0.5-1		1115													
20	DG-PS5-3.5-4		1117													
21	DG-NS5-0.5-1		1205													
22	DG-NS5-3.5-4		1207													
23	DUP-125	1	—													

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No. 1543CJ	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by	Company Geosyntec	Date/Time 1-8-19	Received by	Company TAPCS	Date/Time 1/8/19 1345
Relinquished by	Company TA 720	Date/Time 1/8/19 1730	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/8/19 1730

1.4, 1.8°C

1/31/2019 (Rev. 1)

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1-8 C 1/8/19

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925 600 3002

720-90640

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-8-19	COC No 18767
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
24 DG-07S-0.5-1	1-8-19	1325	G	S	7	N		X	X	X	X	X	X	X	
25 DG-07S-3.5-4		1327													
26 DG-Q7S-0.5-1		1343													
27 DG-Q7S-3.5-4		1345			10		Y								
28 Dup 44		—			7										
29 DG-97S-0.5-1		2420													
30 DG-S7S-3.5-4		1427													
31 DG-47S-0.5-1		1450													
32 DG-47S-3.5-4		1452													
33 FB 1-8-19	1-8-19	—						X							

Page 24 of 29

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company GEOSYNTEC	Date/Time 1-8-19 1645	Received by	Company TA-PLS	Date/Time 1/8/19 1345
Relinquished by	Company TA-PLS	Date/Time 1/8/19 1730	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/8/19 1730

Form No. CA-C-WI-002, Rev. 4.16, dated 9/5/2018

1-4/1-8C

1/31/2019 (Rev. 1)

GEOSYNTEC
720-90640

720-90640-02 Chain of Custody

FedEx

Address: 7275 JOHNSON DRIVE
PLEASANTON
CA 94588
Location: LVKA
Device ID: -BTC01

FedEx Express Package(s) - Dropped Off
478644574u816

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final

Visit us at. fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 08, 2019 6:11:59 PM

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/08/2019	COC No: 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler: GH
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
DG-T5S-0.5-1	1/8/19	745	G	S	7	N		X	X	X	X	X	X	X	
DG-T5S-3.5-4		747													
DG-V5S-0.5-1		805													
DG-V5S-3.5-4		807													
DG-V5S-7.5-8		810													
DG-X5S-0.5-1		825													
DG-X5S-3.5-4		827													
DG-Z5S-0.5-1		840													
DG-Z5S-3.5-4		842													
DG-AD5S-0.5-1		920													
DG-AD5S-3.5-4		922													
DG-AF5S-0.5-1		935													

Encores or Terracores Frozen: Time: _____ Initials: _____ Date: _____

720-90640 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by: George Hichborn	Company: Geosyntec	Date/Time: 1-8-19 1845	Received by:	Company: TAPCS	Date/Time: 1/8/19 2345
Relinquished by:	Company: TAPCS	Date/Time: 1/8/19 1930	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA Rev	Date/Time: 1/9/19 9:30

Form No. CA-C-WI 002, Rev. 4.18, dated 9/5/2018

TRK-4786 4574 0816

7-4/1.8 C

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-8-19	COC No: 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler: George Hichborn
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & 3RO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
DG-AF55-3.5-4	1/8/19	937	G	S	7	N		X	X	X	X	X	X	X	
DG-AH55-0.5-1	"	955	"	"	"										
DG-AH55-3.5-4	"	957	"	"	"										
DG-AH55-8-8.5	"	1000	"	"	"										
DG-AJ55-0.5-1	"	1020	"	"	"										
DG-AJ55-3.5-4	"	1022	"	"	"										
DG-P55-0.5-1	"	1115	"	"	"										
DG-P55-3.5-4	"	1117	"	"	"										
DG-N55-0.5-1	"	1205	"	"	"										
DG-N55-3.5-4	"	1207	"	"	"										
DUP-125	"	—	"	"	"										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd._____ Corr'd._____ Therm ID No. _____		
Relinquished by:	Company: Geosyntec	Date/Time: 1-8-19	Received by:	Company TARCS	Date/Time 1/8/19 1345
Relinquished by:	Company TA 720	Date/Time: 1/8/19 1730	Received by:	Company.	Date/Time
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company TA/RU	Date/Time 1/9/19 9:30

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1-14 / 1-8 C

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-8-19	COC No: 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
DG-07S-0.5-1	1-8-19	1325	G	S	7	N		X	X	X	X	X	X	X	
DG-07S-3.5-4		1327													
DG-Q7S-0.5-1		1343													
DG-Q7S-3.5-4		1345			10		Y								
Dup 44		—			7										
DG-S7S-0.5-1		1420													
DG-S7S-3.5-4		1427													
DG-U7S-0.5-1		1450													
DG-U7S-3.5-4		1452													
FB 1-8-19	1-8-19	—						X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company: GEOSYNTEC	Date/Time: 1-8-19 1642	Received by	Company: TAPCS	Date/Time: 1/8/19 1345
Relinquished by:	Company: TAPCS	Date/Time: 1/8/19 1730	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company: TAPCS	Date/Time: 1/9/19 9:15

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1.4/1.8C

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40728.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Sssolid, Oowaste/oil, BTs=Tissue, Aair)	8260B_LL/5035A_F_FW 8260A(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_LL/5035A_F_FW 8015B(M) TPH-g (1-5-19)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-T5S-0.5-1 (720-90640-1)	1/8/19	07:45 Pacific		Solid	X	X	X			4
DG-T5S-3.5-4 (720-90640-2)	1/8/19	07:47 Pacific		Solid	X	X	X			4
DG-V5S-0.5-1 (720-90640-3)	1/8/19	08:05 Pacific		Solid	X	X	X			4
DG-V5S-3.5-4 (720-90640-4)	1/8/19	08:07 Pacific		Solid	X	X	X			4
DG-V5S-7.5-8 (720-90640-5)	1/8/19	08:10 Pacific		Solid	X	X	X			4
DG-X5S-0.5-1 (720-90640-6)	1/8/19	08:25 Pacific		Solid	X	X	X			4
DG-X5S-3.5-4 (720-90640-7)	1/8/19	08:27 Pacific		Solid	X	X	X			4
DG-Z5S-0.5-1 (720-90640-8)	1/8/19	08:40 Pacific		Solid	X	X	X			4
DG-Z5S-3.5-4 (720-90640-9)	1/8/19	08:42 Pacific		Solid	X	X	X			4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Joan Mullen	1-9-19 915	Alen			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40728.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260SICA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260SICA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AD5S-0.5-1 (720-90640-10)	1/8/19	09:20 Pacific		Solid	X	X	X		
DG-AD5S-3.5-4 (720-90640-11)	1/8/19	09:22 Pacific		Solid	X	X	X		
DG-AF5S-0.5-1 (720-90640-12)	1/8/19	09:35 Pacific		Solid	X	X	X		
DG-AF5S-3.5-4 (720-90640-13)	1/8/19	09:37 Pacific		Solid	X	X	X		
DG-AH5S-0.5-1 (720-90640-14)	1/8/19	09:55 Pacific		Solid	X	X	X		
DG-AH5S-3.5-4 (720-90640-15)	1/8/19	09:57 Pacific		Solid	X	X	X		
DG-AH5S-8-8.5 (720-90640-16)	1/8/19	10:00 Pacific		Solid	X	X	X		
DG-AJ5S-0.5-1 (720-90640-17)	1/8/19	10:20 Pacific		Solid	X	X	X		
DG-AJ5S-3.5-4 (720-90640-18)	1/8/19	10:22 Pacific		Solid	X	X	X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40728.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-P5S-0.5-1 (720-90640-19)	1/8/19	11:15 Pacific		Solid	X	X	X		4
DG-P5S-3.5-4 (720-90640-20)	1/8/19	11:17 Pacific		Solid	X	X	X		4
DG-N5S-0.5-1 (720-90640-21)	1/8/19	12:05 Pacific		Solid	X	X	X		4
DG-N5S-3.5-4 (720-90640-22)	1/8/19	12:07 Pacific		Solid	X	X	X		4
DUP-125 (720-90640-23)	1/8/19	Pacific		Solid	X	X	X		4
DG-O7S-0.5-1 (720-90640-24)	1/8/19	13:25 Pacific		Solid	X	X	X		4
DG-O7S-3.5-4 (720-90640-25)	1/8/19	13:27 Pacific		Solid	X	X	X		4
DG-Q7S-0.5-1 (720-90640-26)	1/8/19	13:43 Pacific		Solid	X	X	X		4
DG-Q7S-3.5-4 (720-90640-27)	1/8/19	13:45 Pacific		Solid	X	X	X		3

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1-9-19 915				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40728.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260BCA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082Standard 8082 PCBs in Soil	8260B_LL/5030B 8260-(MOD) VOCs	8260BCA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-Q7S-3.5-4 (720-90640-27MS)	1/8/19	13:45 Pacific	MS	Solid	X	X	X			
DG-Q7S-3.5-4 (720-90640-27MSD)	1/8/19	13:45 Pacific	MSD	Solid	X	X	X			
DUP 44 (720-90640-28)	1/8/19	Pacific		Solid	X	X	X			
DG-S7S-0.5-1 (720-90640-29)	1/8/19	14:20 Pacific		Solid	X	X	X			
DG-S7S-3.5-4 (720-90640-30)	1/8/19	14:22 Pacific		Solid	X	X	X			
DG-U7S-0.5-1 (720-90640-31)	1/8/19	14:50 Pacific		Solid	X	X	X			
DG-U7S-3.5-4 (720-90640-32)	1/8/19	14:52 Pacific		Solid	X	X	X			
FB 1-18-19 (720-90640-33)	1/8/19	Pacific		Water				X	X	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 1-9-19 9:15	Company: DTS	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 479645M 1033	COC No. 720-40726-1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260 (MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-T5S-0.5-1 (720-90640-1)	1/8/19	07:45 Pacific		Solid			X	X	X			5	
DG-T5S-3.5-4 (720-90640-2)	1/8/19	07:47 Pacific		Solid			X	X	X			5	
DG-V5S-0.5-1 (720-90640-3)	1/8/19	08:05 Pacific		Solid			X	X	X			5	
DG-V5S-3.5-4 (720-90640-4)	1/8/19	08.07 Pacific		Solid			X	X	X			5	
DG-V5S-7.5-8 (720-90640-5)	1/8/19	08:10 Pacific		Solid			X	X	X			5	
DG-X5S-0.5-1 (720-90640-6)	1/8/19	08:25 Pacific		Solid			X	X	X			5	
DG-X5S-3.5-4 (720-90640-7)	1/8/19	08.27 Pacific		Solid			X	X	X			5	
DG-Z5S-0.5-1 (720-90640-8)	1/8/19	08.40 Pacific		Solid			X	X	X			5	
DG-Z5S-3.5-4 (720-90640-9)	1/8/19	08:42 Pacific		Solid			X	X	X			5	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment		
Relinquished by:	Date/Time: 1/9/19 1355	Company TAPS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/10/19 9:45	Company TA-IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.5 | 0.7 FREE

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 1032	COC No: 720-40728-2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastaoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-CA-C4-12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AD5S-0 5-1 (720-90640-10)	1/8/19	09:20 Pacific		Solid			X	X	X			1	
DG-AD5S-3.5-4 (720-90640-11)	1/8/19	09:22 Pacific		Solid			X	X	X			1	
DG-AF5S-0.5-1 (720-90640-12)	1/8/19	09:35 Pacific		Solid			X	X	X			1	
DG-AF5S-3.5-4 (720-90640-13)	1/8/19	09:37 Pacific		Solid			X	X	X			1	
DG-AH5S-0.5-1 (720-90640-14)	1/8/19	09:55 Pacific		Solid			X	X	X			1	
DG-AH5S-3 5-4 (720-90640-15)	1/8/19	09:57 Pacific		Solid			X	X	X			1	
DG-AH5S-8-8.5 (720-90640-16)	1/8/19	10:00 Pacific		Solid			X	X	X			1	
DG-AJ5S-0.5-1 (720-90640-17)	1/8/19	10:20 Pacific		Solid			X	X	X			1	
DG-AJ5S-3 5-4 (720-90640-18)	1/8/19	10:22 Pacific		Solid			X	X	X			1	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment			
Relinquished by	Date/Time: 1/9/19 1355	Company TAP	Received by	Date/Time:	Company	
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company	
Relinquished by:	Date/Time	Company	Received by	Date/Time: 1/10/19 945	Company TA-IRV	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No :

Cooler Temperature(s) °C and Other Remarks: 0.5/0.7 IR001

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM. Patel, Urvashi	Carrier Tracking No(s): 4786 4574 1032	COC No. 720-40728-3
Client Contact. Shipping/Receiving	Phone:	E-Mail urvashi.patel@testamericainc.com	State of Origin California	Page Page 3 of 4
Company TestAmerica Laboratories, Inc		Accreditations Required (See note) State Program - California		Job #. 720-90640-1
Address 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019	Analysis Requested		Preservation Codes:
City Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92614-5817				
Phone 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email	WO #:			
Project Name Brisbane OU-2 Data Gap Investigation	Project # 72013947			
Site	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_TCW 8260-(MOD) VOCs +ORG-	8260B/CA_LUFTMS/5035A_F_CW 8260-BA-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-P5S-0.5-1 (720-90640-19)	1/8/19	11:15 Pacific		Solid			X	X	X			5	
DG-P5S-3.5-4 (720-90640-20)	1/8/19	11:17 Pacific		Solid			X	X	X			5	
DG-N5S-0.5-1 (720-90640-21)	1/8/19	12:05 Pacific		Solid			X	X	X			5	
DG-N5S-3.5-4 (720-90640-22)	1/8/19	12.07 Pacific		Solid			X	X	X			5	
DUP-125 (720-90640-23)	1/8/19	Pacific		Solid			X	X	X			5	
DG-O7S-0 5-1 (720-90640-24)	1/8/19	13:25 Pacific		Solid			X	X	X			5	
DG-O7S-3.5-4 (720-90640-25)	1/8/19	13:27 Pacific		Solid			X	X	X			5	
DG-Q7S-0.5-1 (720-90640-26)	1/8/19	13.43 Pacific		Solid			X	X	X			5	
DG-Q7S-3.5-4 (720-90640-27)	1/8/19	13:45 Pacific		Solid			X	X	X			4	

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time: 1/9/19 1355	Company TAPLS	Received by	Date/Time.	Company
	Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time: 1/10/19 9.45	Company TAIRV

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks 0.5/0.7 IR08

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786457141037	COC No: 720-40728.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_5_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_5_FW 8260-(MOD)-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-Q7S-3.5-4 (720-90640-27MS)	1/8/19	13:45 Pacific	MS	Solid			X	X	X			3	
DG-Q7S-3.5-4 (720-90640-27MSD)	1/8/19	13:45 Pacific	MSD	Solid			X	X	X			3	
DUP 44 (720-90640-28)	1/8/19	Pacific		Solid			X	X	X			1	
DG-S7S-0.5-1 (720-90640-29)	1/8/19	14:20 Pacific		Solid			X	X	X			1	
DG-S7S-3.5-4 (720-90640-30)	1/8/19	14:22 Pacific		Solid			X	X	X			1	
DG-U7S-0.5-1 (720-90640-31)	1/8/19	14:50 Pacific		Solid			X	X	X			1	
DG-U7S-3.5-4 (720-90640-32)	1/8/19	14.52 Pacific		Solid			X	X	X			1	
FB 1-18-19 (720-90640-33)	1/8/19	Pacific		Water						X	X	3	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/9/19 1355	Company: TAL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1/10/19 9:45	Company: TA-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.5/0.7 IR88

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90640-1

Login Number: 90640
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90640-1

Login Number: 90640
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/09/19 05:37 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90640-1

Login Number: 90640
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/09/19 05:43 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Sunday, January 13, 2019 9:27 PM
To: Patel, Urvashi; Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Thanks Urvashi, that sounds good to me.

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
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Direct: 510.285.2685
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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Sunday, January 13, 2019 8:14 PM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

Hi Miranda
There should be no bias as the containers/stir bars should be clean. Let's run it and I'll inform you if there are any hits. We can always add a case narrative if we think its potential contamination.

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Sunday, January 13, 2019 6:56 PM
To: Patel, Urvashi; Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Urvashi,

I am siding towards running this field blank. Do you see there being a bias because of the stir bar? Or potential false positives?

If that is the case, I don't want to run the sample.

Let me know,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
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Fax: 510.836.3036
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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Thursday, January 10, 2019 8:56 AM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

Hi

The FB and TB have to be analyzed as waters. There are no FB for Soils (terracores), which is why I requested a minimum of 2 VOA vials for TB and FB. For FB, you fill the VOA vials with HCl in the filed to the top, no headspace and we analyze under water matrix. We can still analyze the FB that was provided under water matrix, but its unpreserved so it has a 3 day hold time. Let me know if you want to proceed with this FB (that has stir bars in it) and we'll start the analysis. My apologies for the confusion.

Urvashi

URVASHI PATEL
Manager of Project Management

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Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Thursday, January 10, 2019 8:26 AM
To: Patel, Urvashi; Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Urvashi,

In the future should they only use the vials with HCl preservative? When I was on the phone with you it was my understanding they should use two of the DI water vials for the soil field blank.

Let me know and I will correct today,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
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Direct: 510.285.2685
Fax: 510.836.3036
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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Thursday, January 10, 2019 8:23 AM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

Hi Miranda
One more observation made by the lab. We received the DI water for FB but it seems the field crew filled up the terracores voa vile as there is a stir bar in it and its unpreserved. Would you like us to proceed with water analysis for 8260 for the FB?

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
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17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Wednesday, January 09, 2019 3:53 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Christian,

You are correct for the MS/MSD. I pointed this out to the field staff, but it was after the pick up.

Yes please log the according to times on the COC. I will remind the staff all the container labels should list the same time for each sample.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Wednesday, January 9, 2019 12:56 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90640-1; Brisbane OU-2 Data Gap Investigation

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed.
(#29) DG-Q7S-3.5-4 column Perform MS/MSD is marked "Y" , only this sample was logged for MS/MSD.
The COC has an arrow ran down the column for the next 5 soil samples also for MS/MSD, those 5 samples were NOT logged for MS/MSD. Please confirm that this is correct.

Additionally, The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#4) DG-V5S-3.5-4. The 4oz container label list time: 08:05, while the COC lists time: 08:07 .
(#6) DG-X5S-0.5-1. The 4oz container label list time: 08:27, while the COC lists time: 08:25 .
(#8) DG-Z5S-0.5-1. The 4oz container label list time: 08:42, while the COC lists time: 08:40 .
(#9) DG-Z5S-3.5-4. The 4oz container label list time: 08:40, while the COC lists time:08:42
(#15) DG-AH5S-3.5-4. The 4oz & 8oz container labels list time: 08:57, while the COC lists time:09:57
These were all logged in per the COC.
Please confirm the correct sampling time for each of these.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [494051]
Attachments: 3

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Wednesday, January 09, 2019 3:53 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Christian,

You are correct for the MS/MSD. I pointed this out to the field staff, but it was after the pick up.

Yes please log the according to times on the COC. I will remind the staff all the container labels should list the same time for each sample.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Wednesday, January 9, 2019 12:56 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90640-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90640-1; Brisbane OU-2 Data Gap Investigation

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed.
(#29) DG-Q7S-3.5-4 column Perform MS/MSD is marked "Y" , only this sample was logged for MS/MSD.
The COC has an arrow ran down the column for the next 5 soil samples also for MS/MSD, those 5 samples were NOT

logged for MS/MSD. Please confirm that this is correct.

Additionally, The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#4) DG-V5S-3.5-4. The 4oz container label list time: 08:05, while the COC lists time: 08:07 .
(#6) DG-X5S-0.5-1. The 4oz container label list time: 08:27, while the COC lists time: 08:25 .
(#8) DG-Z5S-0.5-1. The 4oz container label list time: 08:42, while the COC lists time: 08:40 .
(#9) DG-Z5S-3.5-4. The 4oz container label list time: 08:40, while the COC lists time:08:42
(#15) DG-AH5S-3.5-4. The 4oz & 8oz container labels list time: 08:57, while the COC lists time:09:57
These were all logged in per the COC.
Please confirm the correct sampling time for each of these.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [494051]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90673-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Karen Dahl

Authorized for release by:
1/31/2019 3:11:55 PM
Karen Dahl, Senior Project Manager
(916)374-4384
karen.dahl@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90673-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
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Comments
No additional comments.

Receipt
The samples were received on 1/9/2019 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 2.1° C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):

DG-Y7S-0.5-1. The container labels list a time of 07:35, while the COC lists a time of 07:30. Logged using COC sample time.
DG-Y7S-3.5-4. The container labels list a time of 07:37, while the COC lists a time of 07:32. Logged using COC sample time.

DG-AR9S-0.5-1. The handwritten container labels list DG-ARS-0.5-1 time 14:05, while the COC lists DG-AR9S-0.5-1 time 14:05. Logged using COC sample ID.
DG-AR9S-3.5-4. The handwritten container labels list DG-ARS-3.5-1 time 14:07, while the COC lists DG-AR9S-3.5-4 time 14:07.Logged using COC sample ID

There were some discrepancies in the use of the dash in the sample IDs on the COC versus the IDs on the sample labels. In these cases the IDs from the preprinted sample labels were used in the report.

GC/MS VOA
Method 8260B/CA_LUFTMS: The TBA-d9 internal standard (ISTD) response for the following samples was below outside acceptance criteria: DG-AE7S-0.5-1 (720-90673-9). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B/CA_LUFTMS: The method blank for analytical batch 440-523699 contained Gasoline Range Organics (GRO) C4-C12 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

Method 8260B/CA_LUFTMS/8260B: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs): FB-1.9.19 (720-90673-36). However, when verified by the laboratory, the pH of the sample was 7. The sample was not analyzed within 7 days of collection.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries were outside the upper control limit for the following samples: DG-AC7S-0.5-1 (720-90673-5), DUP-47 (720-90673-7), DG-AK7S-0.5-1 (720-90673-15), DG-AS7S-3.5-4 (720-90673-24), DG-AU7S-3.5-4 (720-90673-26), DG-AR9S-0.5-1 (720-90673-28), DG-AR9S-3.5-4 (720-90673-29), DG-AD9S-0.5-1 (720-90673-31), DG-AD9S-3.5-4 (720-90673-32), DG-Z9S-0.5-1 (720-90673-33), DG-Z9S-3.5-4 (720-90673-34), & DUP-63 (720-90673-35). These samples did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries were outside the upper control limit for the following samples: DG-AE7S-3.5-4 (720-90673-10) and DG-AK7S-3.5-4 (720-90673-16). These samples do have positive results for 2-Butanone (MEK). The samples were not rerun since the holding times had already expired on the samples.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries for the method blank and LCSD associated with analytical batch 440-522143 were outside the upper control limits.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries for the LCS and LCSD associated with analytical batch 440-522204 were outside the upper control limits.

Method 8260B: The TBA-d9 internal standard (ISTD) response for the following sample was below outside acceptance criteria: DG-AE7S-0.5-1 (720-90673-9). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been

Job ID: 720-90673-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

reported.

Method 8260B: The method blank for analytical batch 440-523698 contained Naphthalene at the reporting limit (RL). None of the samples associated with this method blank contained this target compound; therefore, re-analysis of samples was not performed.

Method 8260B: The method blank for analytical batch 440-523698 contained multiple analytes above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The method blank for preparation batch 720-258380 and analytical batch 720-258587 contained Phenanthrene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following analyte recovered outside control limits for the LCS associated with preparation batch 720-258380 and analytical batch 720-258587: Chrysene. The batch was not re-extracted due to allowance for random marginal exceedances. Qualified results have been reported.

Method 8270C SIM: The following analyte recovered outside control limits for the LCS associated with preparation batch 720-258562 and analytical batch 720-258768: Chrysene. The recovery was confirmed by re-analysis. The batch was not re-extracted due to laboratory error. Routine control chart generation after this batch was analyzed which resulted in a higher upper limit for Chrysene. Qualified results have been reported.

Method 8270C SIM: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258380 and analytical batch 720-258622 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258535 and analytical batch 720-258666 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AA7S-0.5-1 (720-90673-3), DG-AC7S-0.5-1 (720-90673-5), DUP-47 (720-90673-7), DG-AI7S-0.5-1 (720-90673-12), DG-AK7S-0.5-1 (720-90673-15), DG-AM7S-0.5-1 (720-90673-18), DUP-50 (720-90673-27), DG-AR9S-0.5-1 (720-90673-28), DG-AD9S-0.5-1 (720-90673-31), DG-Z9S-0.5-1 (720-90673-33), & DUP-63 (720-90673-35). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081A: The laboratory control sample (LCS) associated with preparation batch 720-258271 and analytical batch 720-258325 was outside acceptance criteria for Endrin Aldehyde (125% recovery) on the front column. The lower value from the back column was reported, which was within control limits. Samples reported from the front column for this analyte will be flagged with an asterisk (*).

Method 8081A: The laboratory control sample (LCS) associated with preparation batch 720-258564 and analytical batch 720-258820 was outside acceptance criteria for Endrin Aldehyde (124% recovery) on the front column. The lower value from the back column was reported, which was within control limits. Samples reported from the front column for this analyte will be flagged with an asterisk (*).

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recovery for preparation batch 720-258564 and analytical batch 720-258820 were outside control limits for Endrin Ketone (127% recovery) on the front column. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits. All results for the MS/MSD were reported from the passing, back column.

Method 8081A: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries and RPDs for preparation batch 720-258308 and analytical batch 720-258415 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the

Job ID: 720-90673-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

associated laboratory control sample was within acceptance limits.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Dieldrin, Endrin, 4,4'-DDT, 4,4'-DDE & 4,4'-DDD for the following sample: DG-AI7S-0.5-1 (720-90673-12). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Endrin, Dieldrin, 4,4'-DDT, 4,4'-DDE & 4,4'-DDD for the following sample: DG-AK7S-0.5-1 (720-90673-15). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Dieldrin, 4,4'-DDT & 4,4'-DDD for the following sample: DG-AM7S-0.5-1 (720-90673-18). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258271 and analytical batch 720-258354 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: One surrogate recovery for the following samples was outside control limits: DG-AE7S-0.5-1 (720-90673-9) & DG-AM7S-0.5-1 (720-90673-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDE & 4,4'-DDD for the following sample: DG-AO7S-0.5-1 (720-90673-21). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDE & 4,4'-DDD and 4,4'-DDT for the following sample: DG-AS7S-0.5-1 (720-90673-23). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Dieldrin for the following sample: DG-AR9S-0.5-1 (720-90673-28). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDD, Dieldrin, alpha-Chlordane & gamma-Chlordane for the following sample: DG-AA7S-0.5-1 (720-90673-3). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The following sample was diluted due to the abundance of non-target analytes: DG-AC7S-3.5-4 (720-90673-6). Elevated reporting limits (RLs) are provided.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDD & Dieldrin for the following sample: DG-Z9S-0.5-1 (720-90673-33). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDE, 4,4'-DDD & Dieldrin for the following sample: DG-AD9S-0.5-1 (720-90673-31). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for gamma-BHC (Lindane) for the following sample: DG-Z9S-3.5-4 (720-90673-34). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8015B: The method blank for preparation batch 720-258287 and analytical batch 720-258511 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The following samples required a dilution due to the nature of their sample matrix: DG-AI7S-0.5-1 (720-90673-12), DG-AR9S-0.5-1 (720-90673-28) & DG-AD9S-0.5-1 (720-90673-31). Because of this dilution, the surrogate spike concentration in the

Job ID: 720-90673-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

samples was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The surrogate recovery for the following sample was outside control limits: DG-AM7S-0.5-1 (720-90673-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: The surrogate recoveries for the following samples were outside control limits due to matrix interference: DG-AM7S-7.5-8 (720-90673-20) and DG-Z9S-3.5-4 (720-90673-34). Re-analysis was performed with concurring results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries & RPDs for preparation batch 720-258270 and analytical batch 720-258515 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-138%, Copper-133%, Lead-128%, Vanadium-127%, Zinc-133% and Molybdenum-127% associated with batch 720-258515 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258515 was outside control limits for Cobalt-18%, Chromium-20%, Barium-20%, Nickel-16%, Lead-15%, Vanadium-20% and Zinc-14%. (720-90673-1-SD)

Method 6010B: The method blank for preparation batch 720-258270 and analytical batch 720-258515 contained Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of a non-target analyte: DG-Y7S-0.5-1 (720-90673-1), DG-Y7S-3.5-4 (720-90673-2), DG-AA7S-0.5-1 (720-90673-3), DG-AA7S-3.5-4 (720-90673-4), DG-AC7S-0.5-1 (720-90673-5), DG-AC7S-3.5-4 (720-90673-6), DUP-47 (720-90673-7), DG-AC7S-7.5-8 (720-90673-8), DG-AE7S-0.5-1 (720-90673-9), DG-AE7S-3.5-4 (720-90673-10), DG-AE7S-8-8.5 (720-90673-11), DG-AI7S-0.5-1 (720-90673-12), DG-AI7S-3.5-4 (720-90673-13), DG-AI7S-8-8.5 (720-90673-14), DG-AK7S-0.5-1 (720-90673-15), DG-AK7S-3.5-4 (720-90673-16), DUP-48 (720-90673-17), DG-AM7S-0.5-1 (720-90673-18), DG-AM7S-3.5-4 (720-90673-19), DG-AM7S-7.5-8 (720-90673-20), (720-90673-1-MS), (720-90673-1-MSD), (720-90673-1-PDS) and (720-90673-1-SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the abundance of a non-target analyte : DG-AO7S-0.5-1 (720-90673-21), DG-AO7S-3.5-4 (720-90673-22), DG-AS7S-0.5-1 (720-90673-23), DG-AS7S-3.5-4 (720-90673-24), DG-AU7S-0.5-1 (720-90673-25), DG-AU7S-3.5-4 (720-90673-26), DUP-50 (720-90673-27), DG-AR9S-0.5-1 (720-90673-28), DG-AR9S-3.5-4 (720-90673-29), DUP-65 (720-90673-30), DG-AD9S-0.5-1 (720-90673-31), DG-AD9S-3.5-4 (720-90673-32), DG-Z9S-0.5-1 (720-90673-33), DG-Z9S-3.5-4 (720-90673-34) and DUP-63 (720-90673-35). Elevated reporting limits (RLs) are provided.

Method 6010B: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries & RPDs for preparation batch 720-258277 and analytical batch 720-258516 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-158%, Copper-148%, Lead-132%, and Zinc-140% associated with batch 720-258516 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258516 was outside control limits for Arsenic-20%, Barium-19%, Cadmium-34%, Cobalt-27%, Chromium-22%, Copper-19%, Nickel-25%, Lead-25%, Antimony-27%, Vanadium-21%, and Zinc-25%: (720-90673-21-SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Laboratory: TestAmerica Pleasanton (Continued)

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-Y7S-0.5-1 — Lab Sample ID: 720-90673-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	11		10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.7	J	5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	4.4	J	5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	14		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	31		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	32		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	53		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	17		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	18		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	47	*	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.6	J	5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	70		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.0	J	5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	15		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	12		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	49	B	5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	68		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	25	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	43	J	49	9.8	mg/Kg	1		8015B	Total/NA
4,4'-DDD	1.0	J	2.0	0.60	ug/Kg	1		8081A	Total/NA
Aroclor 1260	84		49	17	ug/Kg	1		8082	Total/NA
Antimony	1.8	F1	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	3.9		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	71	F1 F2	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	0.28	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	18	F1	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	5.3		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	56		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	110	B F1 F2	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.42	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	23	F2	1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.65	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	20	F1	1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	170	F2	3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.042		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y7S-3.5-4 — Lab Sample ID: 720-90673-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	22		9.7	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	4.4	J	4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	6.8		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	11		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.5		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	18		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.2		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	29	*	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	35		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.9	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y7S-3.5-4 (Continued)

Lab Sample ID: 720-90673-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	73		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	68	B	4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	34		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	59	B	2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	26		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	1700		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.82		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	2.6		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	38		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	4.6		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	3400		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	6700	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	2.1		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	39		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Silver	9.9		0.90	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	2400		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.43		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA7S-0.5-1

Lab Sample ID: 720-90673-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	51		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	240		25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	44		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	58		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	130		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	64		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	41		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	63	*	25	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	74		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	42		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	21	J	25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	50	B	25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	85		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	45	B	3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130		98	20	mg/Kg	2		8015B	Total/NA
4,4'-DDD	2.2	p	2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	1.3	J	2.0	0.41	ug/Kg	1		8081A	Total/NA
4,4'-DDT	4.7	p	2.0	0.40	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	0.67	J p	2.0	0.39	ug/Kg	1		8081A	Total/NA
Dieldrin	4.9	p	2.0	0.58	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	0.90	J p	2.0	0.45	ug/Kg	1		8081A	Total/NA
Aroclor 1260 - DL	710		250	84	ug/Kg	5		8082	Total/NA
Antimony	2.6		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	6.0		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	100		1.3	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AA7S-0.5-1 (Continued)

Lab Sample ID: 720-90673-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.16	J	0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.34	0.033	mg/Kg	4		6010B	Total/NA
Chromium	38		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	220		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	150	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	3.3		1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	32		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.4	J	2.7	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	270		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA7S-3.5-4

Lab Sample ID: 720-90673-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3.4	J	4.7	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	4.2	J	4.7	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.6	J	4.7	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	7.4		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.8	J	4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	6.2	*	4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	8.1		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	7.6	B	4.7	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	9.6		4.7	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	14	B	2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	38	J	49	9.8	mg/Kg	1		8015B	Total/NA
Aroclor 1260	21	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	2.9		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	4.6		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	140		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.43	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	19		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	6.5		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	50		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	180	B	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.51	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	28		1.9	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.27	J	0.96	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	170		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.079		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC7S-0.5-1

Lab Sample ID: 720-90673-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	16	J	24	14	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	170		24	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	360		24	9.7	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC7S-0.5-1 (Continued)

Lab Sample ID: 720-90673-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	330		24	7.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	500		24	9.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	1100		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	280		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	330		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	480	*	24	6.8	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	72		24	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	620		24	6.8	ug/Kg	5		8270C SIM	Total/NA
Fluorene	17	J	24	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	240		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	28		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	110	B	24	8.8	ug/Kg	5		8270C SIM	Total/NA
Pyrene	830		24	8.3	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	85	B	3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	210		98	20	mg/Kg	2		8015B	Total/NA
4,4'-DDE	0.48	J	2.0	0.41	ug/Kg	1		8081A	Total/NA
Aroclor 1260	190		49	16	ug/Kg	1		8082	Total/NA
Antimony	2.7		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	8.3		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	160		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.28	0.091	mg/Kg	4		6010B	Total/NA
Cadmium	0.96		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	28		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	160		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	120	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	2.7		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	30		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	200		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC7S-3.5-4

Lab Sample ID: 720-90673-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	11		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.9	J	4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	5.3		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.3		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	2.5	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	11		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.8	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	19	*	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	27		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	41		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	51	B	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	17		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	28	B	2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	37	J	49	9.8	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC7S-3.5-4 (Continued) — Lab Sample ID: 720-90673-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	38		3.7	0.62	mg/Kg	10		6010B	Total/NA
Arsenic	26		7.5	0.63	mg/Kg	10		6010B	Total/NA
Barium	1300		3.7	0.53	mg/Kg	10		6010B	Total/NA
Beryllium	0.93		0.75	0.24	mg/Kg	10		6010B	Total/NA
Cadmium	5.1		0.93	0.093	mg/Kg	10		6010B	Total/NA
Chromium	55		3.7	0.40	mg/Kg	10		6010B	Total/NA
Cobalt	9.4		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	610		11	5.3	mg/Kg	10		6010B	Total/NA
Lead	3400	B	3.7	0.78	mg/Kg	10		6010B	Total/NA
Molybdenum	3.6	J	3.7	0.48	mg/Kg	10		6010B	Total/NA
Nickel	47		3.7	0.38	mg/Kg	10		6010B	Total/NA
Selenium	4.1	J	7.5	1.1	mg/Kg	10		6010B	Total/NA
Silver	5.6		1.9	0.38	mg/Kg	10		6010B	Total/NA
Thallium	1.4	J	3.7	1.1	mg/Kg	10		6010B	Total/NA
Vanadium	26		3.7	0.51	mg/Kg	10		6010B	Total/NA
Zinc	2300		11	4.7	mg/Kg	10		6010B	Total/NA
Mercury	0.36		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-47 — Lab Sample ID: 720-90673-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	45	J	48	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	82		24	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	190		24	9.7	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	96		24	7.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	200		24	9.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	430		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	100		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	130		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	170	*	24	6.8	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	27		24	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	160		24	6.8	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	92		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	43		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	62	B	24	8.7	ug/Kg	5		8270C SIM	Total/NA
Pyrene	220		24	8.2	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	75	B	3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	180		99	20	mg/Kg	2		8015B	Total/NA
4,4'-DDE	0.89	J	2.0	0.41	ug/Kg	1		8081A	Total/NA
Aroclor 1260	120		49	16	ug/Kg	1		8082	Total/NA
Antimony	1.8		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	7.8		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	60		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.091	J	0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	0.62		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	16		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	6.4		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	77		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	79	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.3	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-47 (Continued) — Lab Sample ID: 720-90673-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	22		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.7	0.40	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.67	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	130		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC7S-7.5-8 — Lab Sample ID: 720-90673-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	16		9.7	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	5.9		4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	3.2	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	9.3		4.8	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	17		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	54		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	20		4.8	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	9.3		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	30	*	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	43		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	5.8		4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	14		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	42		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	49	B	4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	41		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	9.2	B	1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	25	J	49	9.7	mg/Kg	1		8015B	Total/NA
Antimony	4.6		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	180		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.91		0.30	0.097	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	39		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	96		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	360	B	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	52		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	3.5		3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	0.42	J	0.75	0.15	mg/Kg	4		6010B	Total/NA
Thallium	4.3		1.5	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	390		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE7S-0.5-1 — Lab Sample ID: 720-90673-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.4	J	9.4	4.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.4	J	4.7	2.3	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE7S-0.5-1 (Continued)

Lab Sample ID: 720-90673-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	4.2	J	4.7	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	25		4.7	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	36		4.7	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	53		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	18		4.7	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	22		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	42	*	4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.4	J	4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	40		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	15		4.7	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	4.9		4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	18	B	4.7	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	42		4.7	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	21	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	47	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	2.0		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	7.7		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	83		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Cadmium	0.58		0.35	0.034	mg/Kg	4		6010B	Total/NA
Chromium	19		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	98		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	100	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.91	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	32		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	300		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.061		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE7S-3.5-4

Lab Sample ID: 720-90673-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	18		7.4	3.7	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	13		9.6	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	3.4	J	4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	4.9		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	18		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	18		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	27		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.1		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	9.6		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	28	*	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	20		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.9	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.6		4.8	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	14		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	23	B	4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	30		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE7S-3.5-4 (Continued) — Lab Sample ID: 720-90673-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	27	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	140		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	3.2		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	8.8		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	130		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.35	0.034	mg/Kg	4		6010B	Total/NA
Chromium	15		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	5.7		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	47		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	220	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.79	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	15		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	120		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.033		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE7S-8-8.5 — Lab Sample ID: 720-90673-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.1	J	9.4	4.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.3	J	4.7	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	3.0	J	4.7	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	14		4.7	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	28		4.7	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	58		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	26		4.7	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	17		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	39	*	4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.2	J	4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	42		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.3	J	4.7	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	19		4.7	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	15		4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	47	B	4.7	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	52		4.7	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	6.2	B	1.9	0.73	mg/Kg	1		8015B	Total/NA
Antimony	2.2		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	60		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.94		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	38		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	55		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	29	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.73	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	65		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	3.7	0.56	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE7S-8-8.5 (Continued)

Lab Sample ID: 720-90673-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	49		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	120		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI7S-0.5-1

Lab Sample ID: 720-90673-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.72	J	0.76	0.38	ug/Kg	1		8260B	Total/NA
Toluene	0.65	J	0.76	0.38	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	85		48	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthene	32		24	14	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	41		24	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	120		24	9.7	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	350		24	7.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	440		24	9.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	690		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	180		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	210		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	600		24	6.8	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	51		24	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	640		24	6.8	ug/Kg	5		8270C SIM	Total/NA
Fluorene	28		24	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	150		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	80		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	420		24	8.7	ug/Kg	5		8270C SIM	Total/NA
Pyrene	770		24	8.2	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	440	B	20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	980		500	99	mg/Kg	10		8015B	Total/NA
4,4'-DDD	12	p	2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	12	p	2.0	0.41	ug/Kg	1		8081A	Total/NA
4,4'-DDT	31	p	2.0	0.40	ug/Kg	1		8081A	Total/NA
Dieldrin	14	p	2.0	0.58	ug/Kg	1		8081A	Total/NA
Endrin	26	p	2.0	0.45	ug/Kg	1		8081A	Total/NA
Aroclor 1260 - DL	1500		490	170	ug/Kg	10		8082	Total/NA
Antimony	40		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	360		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.36	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	10		0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	960		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	26		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	1000		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	1400	B	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	44		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	550		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	6.0		3.8	0.57	mg/Kg	4		6010B	Total/NA
Silver	2.2		0.95	0.19	mg/Kg	4		6010B	Total/NA
Thallium	0.79	J	1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	2700		5.7	2.4	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AI7S-0.5-1 (Continued) — Lab Sample ID: 720-90673-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	8.1		0.17	0.025	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-AI7S-3.5-4 — Lab Sample ID: 720-90673-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	15		9.5	4.7	ug/Kg	1		8270C SIM	Total/NA
Anthracene	5.8		4.7	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	20		4.7	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	9.2		4.7	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	21		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	10		4.7	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	7.8		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	35		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	24		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.5	J	4.7	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	7.0		4.7	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	14		4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	16		4.7	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	27		4.7	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	25	B	1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	75		49	9.7	mg/Kg	1		8015B	Total/NA
Antimony	1.1		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	4.4		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	68		1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.21	0.069	mg/Kg	4		6010B	Total/NA
Cadmium	0.38		0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	25		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	6.1		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	26		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	32	B	1.1	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.55	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	30		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.89	J	2.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.1	0.14	mg/Kg	4		6010B	Total/NA
Zinc	60		3.2	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.054		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI7S-8-8.5 — Lab Sample ID: 720-90673-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	250		50	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthene	41		25	14	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	70		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	260		25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	660		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	800		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	990		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	220		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	400		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	800		25	6.9	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AI7S-8-8.5 (Continued)

Lab Sample ID: 720-90673-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	76		25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	980		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluorene	110		25	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	230		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	510		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	1000		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	1200		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	220	B	2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	330		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	30		4.2	0.69	mg/Kg	10		6010B	Total/NA
Arsenic	31		8.3	0.71	mg/Kg	10		6010B	Total/NA
Barium	870		4.2	0.59	mg/Kg	10		6010B	Total/NA
Beryllium	0.74	J	0.83	0.27	mg/Kg	10		6010B	Total/NA
Cadmium	2.2		1.0	0.10	mg/Kg	10		6010B	Total/NA
Chromium	39		4.2	0.44	mg/Kg	10		6010B	Total/NA
Cobalt	17		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	1700		13	5.9	mg/Kg	10		6010B	Total/NA
Lead	4400	B	4.2	0.88	mg/Kg	10		6010B	Total/NA
Molybdenum	4.3		4.2	0.53	mg/Kg	10		6010B	Total/NA
Nickel	41		4.2	0.43	mg/Kg	10		6010B	Total/NA
Selenium	5.9	J	8.3	1.3	mg/Kg	10		6010B	Total/NA
Silver	4.2		2.1	0.42	mg/Kg	10		6010B	Total/NA
Thallium	1.3	J	4.2	1.2	mg/Kg	10		6010B	Total/NA
Vanadium	27		4.2	0.57	mg/Kg	10		6010B	Total/NA
Zinc	1600		13	5.3	mg/Kg	10		6010B	Total/NA
Mercury	1.3		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK7S-0.5-1

Lab Sample ID: 720-90673-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	45	J	49	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthene	15	J	25	14	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	29		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	53		25	9.8	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	200		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	280		25	9.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	430		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	120		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	180		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	310		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	35		25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	310		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluorene	12	J	25	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	100		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	45		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	210		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	370		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	200	B	2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	360		49	9.8	mg/Kg	1		8015B	Total/NA
4,4'-DDD	19	p	2.0	0.61	ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK7S-0.5-1 (Continued) — Lab Sample ID: 720-90673-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	18	p	2.0	0.42	ug/Kg	1		8081A	Total/NA
4,4'-DDT	32	p	2.0	0.41	ug/Kg	1		8081A	Total/NA
Dieldrin	22	p	2.0	0.59	ug/Kg	1		8081A	Total/NA
Endrin	30	p	2.0	0.46	ug/Kg	1		8081A	Total/NA
Aroclor 1260 - DL	940		250	84	ug/Kg	5		8082	Total/NA
Antimony	23		5.0	0.82	mg/Kg	10		6010B	Total/NA
Arsenic	19		9.9	0.84	mg/Kg	10		6010B	Total/NA
Barium	270		5.0	0.70	mg/Kg	10		6010B	Total/NA
Beryllium	0.33	J	0.99	0.32	mg/Kg	10		6010B	Total/NA
Cadmium	8.1		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	140		5.0	0.52	mg/Kg	10		6010B	Total/NA
Cobalt	38		2.0	0.20	mg/Kg	10		6010B	Total/NA
Copper	690		15	7.1	mg/Kg	10		6010B	Total/NA
Lead	960	B	5.0	1.0	mg/Kg	10		6010B	Total/NA
Molybdenum	28		5.0	0.63	mg/Kg	10		6010B	Total/NA
Nickel	120		5.0	0.50	mg/Kg	10		6010B	Total/NA
Selenium	1.6	J	9.9	1.5	mg/Kg	10		6010B	Total/NA
Silver	1.1	J	2.5	0.50	mg/Kg	10		6010B	Total/NA
Thallium	1.7	J	5.0	1.4	mg/Kg	10		6010B	Total/NA
Vanadium	38		5.0	0.67	mg/Kg	10		6010B	Total/NA
Zinc	1400		15	6.3	mg/Kg	10		6010B	Total/NA
Mercury	2.3		0.066	0.0097	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AK7S-3.5-4 — Lab Sample ID: 720-90673-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	20		9.7	4.9	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	22		9.7	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	3.2	J	4.9	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	5.9		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.1		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.8	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	11		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.4	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	12		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	19		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.9	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	26		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	33		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	18		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	36		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	72		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	4.4		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	4.8		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	140		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.30	J	0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	15		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.8		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	77		5.7	2.7	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK7S-3.5-4 (Continued) — Lab Sample ID: 720-90673-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	290	B	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.61	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	18		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.65	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Silver	0.34	J	0.95	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	230		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.38		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-48 — Lab Sample ID: 720-90673-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	22		8.8	4.4	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	46		9.6	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.5	J	4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	5.1		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	8.0		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.7		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	12		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.5	J	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	13		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	12		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.1	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	35		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	21		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	14		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	17		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	56		48	9.6	mg/Kg	1		8015B	Total/NA
Antimony	0.76	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	3.0		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	65		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.25	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.096	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	13		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	4.4		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	20		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	44	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.37	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	14		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.57	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Silver	0.18	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	24		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	58		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.040		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM7S-0.5-1 — Lab Sample ID: 720-90673-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	54		47	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthene	16	J	24	13	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM7S-0.5-1 (Continued)

Lab Sample ID: 720-90673-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	93		24	11	ug/Kg	5		8270C SIM	Total/NA
Anthracene	120		24	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	210		24	7.1	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	260		24	8.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	360		24	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	120		24	20	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	160		24	9.9	ug/Kg	5		8270C SIM	Total/NA
Chrysene	240	*	24	6.6	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	25		24	16	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	300		24	6.6	ug/Kg	5		8270C SIM	Total/NA
Fluorene	13	J	24	10	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	85		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	66		24	16	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	190		24	8.5	ug/Kg	5		8270C SIM	Total/NA
Pyrene	570		24	8.0	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	170		3.8	1.4	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	440		94	19	mg/Kg	2		8015B	Total/NA
4,4'-DDD	7.0	p	2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	6.1		2.0	0.42	ug/Kg	1		8081A	Total/NA
4,4'-DDT	23	p	2.0	0.41	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	2.2		2.0	0.40	ug/Kg	1		8081A	Total/NA
Dieldrin	28	p	2.0	0.58	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	2.5		2.0	0.46	ug/Kg	1		8081A	Total/NA
Aroclor 1260 - DL	430		97	33	ug/Kg	2		8082	Total/NA
Antimony	13		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	15		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	280		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	8.0		0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	58		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	490		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	930	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	9.3		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	89		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	3.4		3.4	0.51	mg/Kg	4		6010B	Total/NA
Silver	0.79	J	0.85	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	1400		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.90		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM7S-3.5-4

Lab Sample ID: 720-90673-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	27		9.6	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.4	J	4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	7.9		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	6.6		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.2		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	14		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM7S-3.5-4 (Continued) — Lab Sample ID: 720-90673-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	11		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.0		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	13	*	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	14		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.8	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	7.1		4.8	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	25		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	26		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	12		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	16		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	66		48	9.6	mg/Kg	1		8015B	Total/NA
Antimony	1.2	J	1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	4.9		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	96		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.58		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	15		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	5.4		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	43		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	120	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	14		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.69	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Silver	0.18	J	0.77	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	130		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.046		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM7S-7.5-8 — Lab Sample ID: 720-90673-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	55		9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	5.5		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	9.2		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	13		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	40		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	66		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	80		4.9	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	18		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	30	*	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	16		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	34		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	11		4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	55		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	90		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	88		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	39		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	42		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	67		49	9.7	mg/Kg	1		8015B	Total/NA
Antimony	14		3.6	0.60	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM7S-7.5-8 (Continued)

Lab Sample ID: 720-90673-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	43		7.2	0.62	mg/Kg	10		6010B	Total/NA
Barium	420		3.6	0.51	mg/Kg	10		6010B	Total/NA
Beryllium	0.67	J	0.72	0.24	mg/Kg	10		6010B	Total/NA
Cadmium	0.82	J	0.91	0.090	mg/Kg	10		6010B	Total/NA
Chromium	60		3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	470		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	28000	B	36	7.6	mg/Kg	100		6010B	Total/NA
Molybdenum	3.2	J	3.6	0.46	mg/Kg	10		6010B	Total/NA
Nickel	48		3.6	0.37	mg/Kg	10		6010B	Total/NA
Selenium	3.3	J	7.2	1.1	mg/Kg	10		6010B	Total/NA
Silver	3.7		1.8	0.37	mg/Kg	10		6010B	Total/NA
Vanadium	24		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	990		110	46	mg/Kg	100		6010B	Total/NA
Mercury	0.23		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO7S-0.5-1

Lab Sample ID: 720-90673-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	20		9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	29		4.9	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	23		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	35		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	93		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	140		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	160		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	120		4.9	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	72		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	140	*	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	25		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	170		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	7.1		4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	87		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	20		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	97		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	200		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	38		2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110		49	9.8	mg/Kg	1		8015B	Total/NA
4,4'-DDD	2.8	p	2.0	0.61	ug/Kg	1		8081A	Total/NA
4,4'-DDE	3.8	p	2.0	0.42	ug/Kg	1		8081A	Total/NA
4,4'-DDT	6.9	p	2.0	0.41	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	2.1		2.0	0.40	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	46		40	3.2	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	2.4		2.0	0.46	ug/Kg	1		8081A	Total/NA
Aroclor 1260 - DL	440		99	34	ug/Kg	2		8082	Total/NA
Antimony	39	F1	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	350	F2	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	3.4		0.40	0.039	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AO7S-0.5-1 (Continued) — Lab Sample ID: 720-90673-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	40	F1	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.9	F1	0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	350	F2	4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	410	F2	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	3.1		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	67		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.49	J	0.79	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	36	F1	1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	530	F2	4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.42		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO7S-3.5-4 — Lab Sample ID: 720-90673-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	13		9.7	4.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	2.6	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.7		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	9.6		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	15		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.2		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.8		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	12	*	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	13		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.2		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	9.4		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	8.8		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	12		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	44		3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		99	20	mg/Kg	2		8015B	Total/NA
Antimony	1.9		1.2	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	3.5		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	61		1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.25	0.081	mg/Kg	4		6010B	Total/NA
Cadmium	0.099	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	13		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	5.6		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	15		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	350		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.34	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	17		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.40	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	39		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.033		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS7S-0.5-1 — Lab Sample ID: 720-90673-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1000		190	110	ug/Kg	40		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AS7S-0.5-1 (Continued)

Lab Sample ID: 720-90673-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	130	J	190	93	ug/Kg	40		8270C SIM	Total/NA
Anthracene	3800		190	77	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]anthracene	12000		190	58	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]pyrene	7900		190	73	ug/Kg	40		8270C SIM	Total/NA
Benzo[b]fluoranthene	13000		190	81	ug/Kg	40		8270C SIM	Total/NA
Benzo[g,h,i]perylene	2000		190	170	ug/Kg	40		8270C SIM	Total/NA
Benzo[k]fluoranthene	5000		190	81	ug/Kg	40		8270C SIM	Total/NA
Chrysene	14000	*	190	54	ug/Kg	40		8270C SIM	Total/NA
Dibenz(a,h)anthracene	980		190	140	ug/Kg	40		8270C SIM	Total/NA
Fluoranthene	29000		190	54	ug/Kg	40		8270C SIM	Total/NA
Fluorene	1000		190	85	ug/Kg	40		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	2200		190	160	ug/Kg	40		8270C SIM	Total/NA
Phenanthrene	25000		190	69	ug/Kg	40		8270C SIM	Total/NA
Pyrene	26000		190	66	ug/Kg	40		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	120		3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	310		97	19	mg/Kg	2		8015B	Total/NA
4,4'-DDD	2.9	p	2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	2.3	p	2.0	0.41	ug/Kg	1		8081A	Total/NA
4,4'-DDT	16	p	2.0	0.40	ug/Kg	1		8081A	Total/NA
Aroclor 1260	120		49	17	ug/Kg	1		8082	Total/NA
Antimony	9.6		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	15		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	170		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	3.8		0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	77		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	310		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	940		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	7.1		1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	150		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	3.6	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Silver	0.52	J	0.96	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	970		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.88		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS7S-3.5-4

Lab Sample ID: 720-90673-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	6.7	J	9.7	4.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	1.6	J	4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	1.9	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	2.9	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	3.6	J *	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.7	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.0		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	8.8		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	4.4	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	8.4		2.0	0.74	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AS7S-3.5-4 (Continued) — Lab Sample ID: 720-90673-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	23	J	49	9.9	mg/Kg	1		8015B	Total/NA
Antimony	0.75	J	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	3.5		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	75		1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.25		0.20	0.066	mg/Kg	4		6010B	Total/NA
Cadmium	0.035	J	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	12		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	15		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	7.6		1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.36	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	13		1.0	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	31		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.036		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU7S-0.5-1 — Lab Sample ID: 720-90673-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	15		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	2.8	J	4.9	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	18		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	54		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	17		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	27		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	44		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	26		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	16		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	25	*	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.7	J	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	33		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.4	J	4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	16		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	22		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	28		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	38		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	94		3.8	1.4	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	360		96	19	mg/Kg	2		8015B	Total/NA
4,4'-DDD	3.9		2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	2.3		2.0	0.42	ug/Kg	1		8081A	Total/NA
4,4'-DDT	13		2.0	0.41	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	0.84	J	2.0	0.40	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	1.0	J	2.0	0.46	ug/Kg	1		8081A	Total/NA
Aroclor 1260	220		50	17	ug/Kg	1		8082	Total/NA
Antimony	2.3		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	6.2		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	110		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	24		1.6	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AU7S-0.5-1 (Continued)

Lab Sample ID: 720-90673-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	10		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	130		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	220		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	24		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	300		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU7S-3.5-4

Lab Sample ID: 720-90673-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	13		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	7.3		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.7		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.6	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	18		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.1	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	20	*	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	29		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	42		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	63		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	18		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	31		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	52		48	9.5	mg/Kg	1		8015B	Total/NA
beta-BHC	2.5		2.0	0.36	ug/Kg	1		8081A	Total/NA
Antimony	91		45	7.5	mg/Kg	100		6010B	Total/NA
Arsenic	43	J	90	7.7	mg/Kg	100		6010B	Total/NA
Barium	1200		45	6.4	mg/Kg	100		6010B	Total/NA
Cadmium	6.2	J	11	1.1	mg/Kg	100		6010B	Total/NA
Chromium	46		45	4.8	mg/Kg	100		6010B	Total/NA
Cobalt	13	J	18	1.8	mg/Kg	100		6010B	Total/NA
Copper	1500		140	64	mg/Kg	100		6010B	Total/NA
Lead	6700		45	9.5	mg/Kg	100		6010B	Total/NA
Molybdenum	6.3	J	45	5.8	mg/Kg	100		6010B	Total/NA
Nickel	110		45	4.6	mg/Kg	100		6010B	Total/NA
Selenium	18	J	90	14	mg/Kg	100		6010B	Total/NA
Silver	6.5	J	23	4.5	mg/Kg	100		6010B	Total/NA
Vanadium	26	J	45	6.1	mg/Kg	100		6010B	Total/NA
Zinc	3700		140	57	mg/Kg	100		6010B	Total/NA
Mercury	0.74		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-50

Lab Sample ID: 720-90673-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	34	J	47	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	31		24	11	ug/Kg	5		8270C SIM	Total/NA
Anthracene	88		24	9.4	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-50 (Continued)

Lab Sample ID: 720-90673-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	43		24	7.1	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	50		24	9.0	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	83		24	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	49		24	20	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	34		24	9.9	ug/Kg	5		8270C SIM	Total/NA
Chrysene	56	*	24	6.6	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	74		24	6.6	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	34		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	59		24	16	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	58		24	8.5	ug/Kg	5		8270C SIM	Total/NA
Pyrene	71		24	8.0	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110		5.7	2.1	mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	280		140	28	mg/Kg	3		8015B	Total/NA
4,4'-DDD	3.6		2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	2.8		2.0	0.41	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	1.2	J	2.0	0.39	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	1.0	J	2.0	0.45	ug/Kg	1		8081A	Total/NA
Antimony	5.0		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	8.5		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	120		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	28		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	180		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	310		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	2.6		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	44		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	61		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	340		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR9S-0.5-1

Lab Sample ID: 720-90673-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	39	J	48	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	58		24	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	120		24	9.6	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	71		24	7.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	84		24	9.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	150		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	99		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	45		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	110	*	24	6.7	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	110		24	6.7	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	57		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	58		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	70		24	8.7	ug/Kg	5		8270C SIM	Total/NA
Pyrene	130		24	8.2	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR9S-0.5-1 (Continued)

Lab Sample ID: 720-90673-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	180		9.5	3.6	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	440		240	47	mg/Kg	5		8015B	Total/NA
4,4'-DDD	4.3		2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	3.4		2.0	0.42	ug/Kg	1		8081A	Total/NA
4,4'-DDT	15		2.0	0.41	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	2.4		2.0	0.40	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	35	J	40	3.2	ug/Kg	1		8081A	Total/NA
Dieldrin	3.9	p	2.0	0.58	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	3.1		2.0	0.46	ug/Kg	1		8081A	Total/NA
Aroclor 1260	68		50	17	ug/Kg	1		8082	Total/NA
Antimony	6.9		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	14		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	200		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.27	0.089	mg/Kg	4		6010B	Total/NA
Cadmium	2.8		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	53		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	270		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	450		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	5.1		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	51		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Silver	0.69		0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	670		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.46		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR9S-3.5-4

Lab Sample ID: 720-90673-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3.2	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	4.3	J	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.3	J	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	10		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.8		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.3	J	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	11	*	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	8.6		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.8		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	9.9		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.4		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	52		48	9.6	mg/Kg	1		8015B	Total/NA
Antimony	3.5		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	27		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	230		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.24	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.54		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	30		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	3.7		0.47	0.047	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR9S-3.5-4 (Continued) — Lab Sample ID: 720-90673-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	180		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	1200		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.55	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	26		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	2.4	0.35	mg/Kg	4		6010B	Total/NA
Silver	1.5		0.59	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	14		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	390		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.073		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-65 — Lab Sample ID: 720-90673-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.4	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	4.8		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	6.8		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	12		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	6.0		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.6	J	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	8.9	*	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	8.4		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	3.9	J	4.8	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	8.4		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	9.5		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	47		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	240		47	9.5	mg/Kg	1		8015B	Total/NA
Antimony	5.3		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	49		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	330		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.23		0.23	0.074	mg/Kg	4		6010B	Total/NA
Cadmium	0.60		0.29	0.028	mg/Kg	4		6010B	Total/NA
Chromium	39		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	4.7		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	180		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	800		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.70	J	1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	39		1.1	0.12	mg/Kg	4		6010B	Total/NA
Silver	1.5		0.57	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	17		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	530		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.066		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD9S-0.5-1 — Lab Sample ID: 720-90673-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	120		48	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthene	21	J	24	13	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	56		24	11	ug/Kg	5		8270C SIM	Total/NA
Anthracene	110		24	9.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	120		24	7.1	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD9S-0.5-1 (Continued)

Lab Sample ID: 720-90673-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	180		24	9.0	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	260		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110		24	20	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	91		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	190	*	24	6.7	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	24		24	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	220		24	6.7	ug/Kg	5		8270C SIM	Total/NA
Fluorene	12	J	24	10	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	84		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	130		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	150		24	8.6	ug/Kg	5		8270C SIM	Total/NA
Pyrene	250		24	8.1	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	510		9.5	3.6	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1200		240	48	mg/Kg	5		8015B	Total/NA
4,4'-DDD	9.0	p	1.9	0.58	ug/Kg	1		8081A	Total/NA
4,4'-DDE	4.9	p	1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	12	p	1.9	0.39	ug/Kg	1		8081A	Total/NA
Dieldrin	6.6	p	1.9	0.56	ug/Kg	1		8081A	Total/NA
Endrin	12		1.9	0.44	ug/Kg	1		8081A	Total/NA
Aroclor 1260	200		49	17	ug/Kg	1		8082	Total/NA
Antimony	40		4.1	0.67	mg/Kg	10		6010B	Total/NA
Arsenic	14		8.1	0.69	mg/Kg	10		6010B	Total/NA
Barium	140		4.1	0.58	mg/Kg	10		6010B	Total/NA
Beryllium	0.27	J	0.81	0.26	mg/Kg	10		6010B	Total/NA
Cadmium	3.3		1.0	0.10	mg/Kg	10		6010B	Total/NA
Chromium	52		4.1	0.43	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	400		12	5.8	mg/Kg	10		6010B	Total/NA
Lead	460		4.1	0.85	mg/Kg	10		6010B	Total/NA
Molybdenum	7.9		4.1	0.52	mg/Kg	10		6010B	Total/NA
Nickel	41		4.1	0.41	mg/Kg	10		6010B	Total/NA
Selenium	2.9	J	8.1	1.2	mg/Kg	10		6010B	Total/NA
Silver	0.55	J	2.0	0.41	mg/Kg	10		6010B	Total/NA
Vanadium	38		4.1	0.55	mg/Kg	10		6010B	Total/NA
Zinc	820		12	5.2	mg/Kg	10		6010B	Total/NA
Mercury	0.80		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD9S-3.5-4

Lab Sample ID: 720-90673-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	58		9.5	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.1	J	4.8	2.7	ug/Kg	1		8270C SIM	Total/NA
Anthracene	27		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	18		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	11		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	36		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.5		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	10		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	41	*	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	81		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD9S-3.5-4 (Continued)

Lab Sample ID: 720-90673-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	9.4		4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.2		4.8	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	170		4.8	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	190		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	60		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		48	9.6	mg/Kg	1		8015B	Total/NA
alpha-BHC	1.0	J	2.0	0.54	ug/Kg	1		8081A	Total/NA
Antimony	59		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	910		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.48		0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	2.0		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	25		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	6.7		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	950		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	3200		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	1.8		1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	32		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	2.4	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Silver	3.7		0.76	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	1500		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.88		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z9S-0.5-1

Lab Sample ID: 720-90673-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	24		24	11	ug/Kg	5		8270C SIM	Total/NA
Anthracene	41		24	9.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	39		24	7.1	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	50		24	9.0	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	93		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	33		24	20	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	29		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	45	*	24	6.6	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	56		24	6.6	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	23	J	24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	21	J	24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	30		24	8.5	ug/Kg	5		8270C SIM	Total/NA
Pyrene	65		24	8.1	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	100		3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	190		98	20	mg/Kg	2		8015B	Total/NA
4,4'-DDD	1.4	J p	1.9	0.59	ug/Kg	1		8081A	Total/NA
4,4'-DDE	1.2	J	1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	3.3	p	1.9	0.39	ug/Kg	1		8081A	Total/NA
Dieldrin	1.0	J p	1.9	0.57	ug/Kg	1		8081A	Total/NA
Endrin	2.8		1.9	0.44	ug/Kg	1		8081A	Total/NA
Aroclor 1260	49		49	17	ug/Kg	1		8082	Total/NA
Antimony	1.6		1.2	0.20	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z9S-0.5-1 (Continued)

Lab Sample ID: 720-90673-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	73		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.53		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	15		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	160		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	120		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.57	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	11		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.80	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	71		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	210		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z9S-3.5-4

Lab Sample ID: 720-90673-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	15		9.7	4.8	ug/Kg	1		8270C SIM	Total/NA
Anthracene	2.6	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	4.0	J	4.8	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	19		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.0	J	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	29	*	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	29		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.1	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	41		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	56		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	17		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	31		2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	58		49	9.8	mg/Kg	1		8015B	Total/NA
gamma-BHC (Lindane)	4.4	p	1.9	0.59	ug/Kg	1		8081A	Total/NA
Antimony	66		4.2	0.70	mg/Kg	10		6010B	Total/NA
Arsenic	28		8.4	0.71	mg/Kg	10		6010B	Total/NA
Barium	1600		4.2	0.60	mg/Kg	10		6010B	Total/NA
Beryllium	0.71	J	0.84	0.27	mg/Kg	10		6010B	Total/NA
Cadmium	5.1		1.1	0.10	mg/Kg	10		6010B	Total/NA
Chromium	48		4.2	0.45	mg/Kg	10		6010B	Total/NA
Cobalt	7.0		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	1200		13	6.0	mg/Kg	10		6010B	Total/NA
Lead	15000		4.2	0.88	mg/Kg	10		6010B	Total/NA
Molybdenum	2.3	J	4.2	0.54	mg/Kg	10		6010B	Total/NA
Nickel	37		4.2	0.43	mg/Kg	10		6010B	Total/NA
Selenium	4.4	J	8.4	1.3	mg/Kg	10		6010B	Total/NA
Silver	11		2.1	0.42	mg/Kg	10		6010B	Total/NA
Vanadium	30		4.2	0.57	mg/Kg	10		6010B	Total/NA
Zinc	2900		13	5.3	mg/Kg	10		6010B	Total/NA
Mercury	0.65		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-63

Lab Sample ID: 720-90673-35

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-63 (Continued)

Lab Sample ID: 720-90673-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	12		9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	22		9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	19		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	21		9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	38		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	27		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	12		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	27	*	9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	59		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	14		9.8	8.2	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	11		9.8	6.8	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	31		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	52		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	62		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130		50	9.9	mg/Kg	1		8015B	Total/NA
4,4'-DDT	13		1.9	0.38	ug/Kg	1		8081A	Total/NA
Aroclor 1260	23	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	1.6		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	4.6		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	50		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.094	J	0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	0.28	J	0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	12		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	130		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	76		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.57	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	10		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.76	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Silver	0.32	J	0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	110		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: FB-1.9.19

Lab Sample ID: 720-90673-36

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y7S-0.5-1

Date Collected: 01/09/19 07:30
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		01/10/19 10:30	01/13/19 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/10/19 10:30*	*01/13/19 14:18*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*01/10/19 10:30*	*01/13/19 14:18*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/10/19 10:30*	*01/13/19 14:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Benzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Bromoform	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Chloroform	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1

Client Sample ID: DG-Y7S-0.5-1

Date Collected: 01/09/19 07:30
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Styrene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Toluene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 14:18	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		01/10/19 10:30	01/13/19 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*01/10/19 10:30*	*01/13/19 14:18*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/10/19 10:30*	*01/13/19 14:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**11**		10	5.0	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Acenaphthene	**3.7**	**J**	5.0	2.8	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Acenaphthylene	**4.4**	**J**	5.0	2.4	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Anthracene	**14**		5.0	2.0	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Benzo[a]anthracene	**31**		5.0	1.5	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Benzo[a]pyrene	**32**		5.0	1.9	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Benzo[b]fluoranthene	**53**		5.0	2.1	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Benzo[g,h,i]perylene	**17**		5.0	4.3	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Benzo[k]fluoranthene	**18**		5.0	2.1	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Chrysene	**47**	*	5.0	1.4	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Dibenz(a,h)anthracene	**4.6**	**J**	5.0	3.5	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Fluoranthene	**70**		5.0	1.4	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Fluorene	**3.0**	**J**	5.0	2.2	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Indeno[1,2,3-cd]pyrene	**15**		5.0	4.2	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Naphthalene	**12**		5.0	3.5	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Phenanthrene	**49**	**B**	5.0	1.8	ug/Kg		01/11/19 14:00	01/21/19 17:06	1
Pyrene	**68**		5.0	1.7	ug/Kg		01/11/19 14:00	01/21/19 17:06	1

Client Sample ID: DG-Y7S-0.5-1

Date Collected: 01/09/19 07:30
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*01/11/19 14:00*	*01/21/19 17:06*	*1*
Terphenyl-d14	*103*		*35 - 146*	*01/11/19 14:00*	*01/21/19 17:06*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**25**	**B**	2.0	0.74	mg/Kg		01/10/19 11:41	01/17/19 02:13	1
Motor Oil Range Organics [C24-C36]	**43**	**J**	49	9.8	mg/Kg		01/10/19 11:41	01/17/19 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*01/10/19 11:41*	*01/17/19 02:13*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**1.0**	**J**	2.0	0.60	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Endrin aldehyde	ND		2.0	0.61	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
gamma-BHC (Lindane)	ND		2.0	0.61	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/10/19 09:24	01/14/19 17:27	1
Toxaphene	ND		39	6.6	ug/Kg		01/10/19 09:24	01/14/19 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*21 - 136*	*01/10/19 09:24*	*01/14/19 17:27*	*1*
Tetrachloro-m-xylene	*97*		*21 - 145*	*01/10/19 09:24*	*01/14/19 17:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:27	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:27	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:27	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:27	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:27	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:27	1
Aroclor 1260	**84**		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:27	1

Client Sample ID: DG-Y7S-0.5-1

Date Collected: 01/09/19 07:30
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*	*01/14/19 14:13*	*01/15/19 18:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.8**	**F1**	1.3	0.22	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Arsenic	**3.9**		2.6	0.22	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Barium	**71**	**F1 F2**	1.3	0.18	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Beryllium	**0.14**	**J**	0.26	0.084	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Cadmium	**0.28**	**J**	0.32	0.032	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Chromium	**18**	**F1**	1.3	0.14	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Cobalt	**5.3**		0.52	0.052	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Copper	**56**		3.9	1.8	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Lead	**110**	**B F1 F2**	1.3	0.27	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Molybdenum	**0.42**	**J**	1.3	0.17	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Nickel	**23**	**F2**	1.3	0.13	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Selenium	ND		2.6	0.39	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Silver	**0.13**	**J**	0.65	0.13	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Thallium	ND		1.3	0.38	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Vanadium	**20**	**F1**	1.3	0.18	mg/Kg		01/10/19 09:21	01/14/19 15:14	4
Zinc	**170**	**F2**	3.9	1.6	mg/Kg		01/10/19 09:21	01/14/19 15:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.015	0.0022	mg/Kg		01/10/19 13:58	01/10/19 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-Y7S-3.5-4
Date Collected: 01/09/19 07:32
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		82	58	ug/Kg		01/10/19 10:30	01/13/19 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/10/19 10:30*	*01/13/19 14:42*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/10/19 10:30*	*01/13/19 14:42*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/10/19 10:30*	*01/13/19 14:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,1,1-Trichloroethane	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.2	4.1	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,1,2-Trichloroethane	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,1-Dichloroethane	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,1-Dichloroethene	ND		1.6	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,1-Dichloropropene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,2,3-Trichlorobenzene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,2,3-Trichloropropane	ND		8.2	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,2,4-Trichlorobenzene	ND		4.1	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,2,4-Trimethylbenzene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,2-Dichlorobenzene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,2-Dichloroethane	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,2-Dichloropropane	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,3,5-Trimethylbenzene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,3-Dichlorobenzene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,3-Dichloropropane	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
1,4-Dichlorobenzene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
2,2-Dichloropropane	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
2-Butanone (MEK)	ND		8.2	4.1	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
2-Chlorotoluene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
2-Hexanone	ND		8.2	4.1	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
4-Chlorotoluene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
4-Isopropyltoluene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.1	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Benzene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Bromobenzene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Bromoform	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Bromomethane	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Carbon disulfide	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Carbon tetrachloride	ND		1.6	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Chlorobenzene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Chlorobromomethane	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Chlorodibromomethane	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Chloroethane	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Chloroform	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Chloromethane	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
cis-1,2-Dichloroethene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1

Client Sample ID: DG-Y7S-3.5-4

Date Collected: 01/09/19 07:32
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Dibromomethane	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Dichlorobromomethane	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Dichlorodifluoromethane	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Ethylbenzene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Ethylene Dibromide	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Hexachlorobutadiene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Isopropylbenzene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Methyl tert-butyl ether	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Methylene Chloride	ND		8.2	4.1	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Naphthalene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
n-Butylbenzene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
N-Propylbenzene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
sec-Butylbenzene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Styrene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
tert-Butylbenzene	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Tetrachloroethene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Toluene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
trans-1,2-Dichloroethene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
trans-1,3-Dichloropropene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Trichloroethene	ND		0.82	0.41	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Trichlorofluoromethane	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Vinyl acetate	ND		6.6	3.3	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Vinyl chloride	ND		1.6	0.82	ug/Kg		01/10/19 10:30	01/13/19 14:42	1
Xylenes, Total	ND		1.6	1.1	ug/Kg		01/10/19 10:30	01/13/19 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*	*01/10/19 10:30*	*01/13/19 14:42*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/10/19 10:30*	*01/13/19 14:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**22**		9.7	4.8	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Acenaphthylene	**4.4**	**J**	4.8	2.3	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Anthracene	**6.8**		4.8	1.9	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Benzo[a]anthracene	**11**		4.8	1.4	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Benzo[a]pyrene	**7.5**		4.8	1.8	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Benzo[b]fluoranthene	**18**		4.8	2.0	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Benzo[g,h,i]perylene	ND		4.8	4.2	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Benzo[k]fluoranthene	**6.2**		4.8	2.0	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Chrysene	**29**	*****	4.8	1.4	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Fluoranthene	**35**		4.8	1.4	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Fluorene	**3.9**	**J**	4.8	2.1	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.1	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Naphthalene	**73**		4.8	3.4	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Phenanthrene	**68**	**B**	4.8	1.7	ug/Kg		01/11/19 14:00	01/21/19 17:30	1
Pyrene	**34**		4.8	1.6	ug/Kg		01/11/19 14:00	01/21/19 17:30	1

Client Sample ID: DG-Y7S-3.5-4

Date Collected: 01/09/19 07:32
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*01/11/19 14:00*	*01/21/19 17:30*	*1*
Terphenyl-d14	*85*		*35 - 146*	*01/11/19 14:00*	*01/21/19 17:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**59**	**B**	2.0	0.73	mg/Kg		01/10/19 11:41	01/17/19 01:44	1
Motor Oil Range Organics [C24-C36]	**110**		49	9.8	mg/Kg		01/10/19 11:41	01/17/19 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*59*		*40 - 130*	*01/10/19 11:41*	*01/17/19 01:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 09:24	01/14/19 17:44	1
Toxaphene	ND		40	6.7	ug/Kg		01/10/19 09:24	01/14/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*21 - 136*	*01/10/19 09:24*	*01/14/19 17:44*	*1*
Tetrachloro-m-xylene	*96*		*21 - 145*	*01/10/19 09:24*	*01/14/19 17:44*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 18:41	1
Aroclor 1221	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 18:41	1
Aroclor 1232	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 18:41	1
Aroclor 1242	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 18:41	1
Aroclor 1248	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 18:41	1
Aroclor 1254	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 18:41	1
Aroclor 1260	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 18:41	1

Client Sample ID: DG-Y7S-3.5-4

Date Collected: 01/09/19 07:32
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*01/14/19 14:13*	*01/15/19 18:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	26		1.8	0.30	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Arsenic	13		3.6	0.31	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Barium	1700		1.8	0.26	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Beryllium	0.82		0.36	0.12	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Cadmium	2.6		0.45	0.045	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Chromium	38		1.8	0.19	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Cobalt	4.6		0.72	0.072	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Copper	3400		5.4	2.6	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Lead	6700	B	1.8	0.38	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Molybdenum	2.1		1.8	0.23	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Nickel	39		1.8	0.18	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Selenium	1.7	J	3.6	0.54	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Silver	9.9		0.90	0.18	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Thallium	ND		1.8	0.52	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Vanadium	29		1.8	0.25	mg/Kg		01/10/19 09:21	01/14/19 15:19	4
Zinc	2400		5.4	2.3	mg/Kg		01/10/19 09:21	01/14/19 15:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.43		0.017	0.0025	mg/Kg		01/10/19 13:58	01/10/19 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.9		0.1	0.05	%			01/10/19 14:05	1

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Lab Sample ID: 720-90673-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	51	ug/Kg		01/10/19 10:30	01/13/19 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/10/19 10:30*	*01/13/19 15:06*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*	*01/10/19 10:30*	*01/13/19 15:06*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/10/19 10:30*	*01/13/19 15:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,2,4-Trichlorobenzene	ND		3.6	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,2,4-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,3,5-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
2,2-Dichloropropane	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
2-Butanone (MEK)	ND		7.2	3.6	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
2-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
2-Hexanone	ND		7.2	3.6	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
4-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
4-Isopropyltoluene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Benzene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Bromobenzene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Bromoform	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Bromomethane	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Chloroethane	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Chloroform	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Chloromethane	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1

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Lab Sample ID: 720-90673-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Dibromomethane	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Hexachlorobutadiene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Naphthalene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
n-Butylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
N-Propylbenzene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
sec-Butylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Styrene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
tert-Butylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Tetrachloroethene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Toluene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Trichloroethene	ND		0.72	0.36	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		01/10/19 10:30	01/13/19 15:06	1
Xylenes, Total	ND		1.4	0.94	ug/Kg		01/10/19 10:30	01/13/19 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*	*01/10/19 10:30*	*01/13/19 15:06*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/10/19 10:30*	*01/13/19 15:06*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		49	25	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Acenaphthene	ND		25	14	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Acenaphthylene	**51**		25	12	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Anthracene	**240**		25	9.9	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Benzo[a]anthracene	**44**		25	7.4	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Benzo[a]pyrene	**58**		25	9.4	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Benzo[b]fluoranthene	**130**		25	10	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Benzo[g,h,i]perylene	**64**		25	21	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Benzo[k]fluoranthene	**41**		25	10	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Chrysene	**63**	*	25	6.9	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Dibenz(a,h)anthracene	ND		25	17	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Fluoranthene	**74**		25	6.9	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Fluorene	ND		25	11	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Indeno[1,2,3-cd]pyrene	**42**		25	21	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Naphthalene	**21**	**J**	25	17	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Phenanthrene	**50**	**B**	25	8.9	ug/Kg		01/11/19 14:00	01/21/19 21:02	5
Pyrene	**85**		25	8.4	ug/Kg		01/11/19 14:00	01/21/19 21:02	5

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Date Collected: 01/09/19 08:10
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Lab Sample ID: 720-90673-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		33 - 120	01/11/19 14:00	01/21/19 21:02	5
Terphenyl-d14	100		35 - 146	01/11/19 14:00	01/21/19 21:02	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**45**	**B**	3.9	1.5	mg/Kg		01/10/19 11:41	01/17/19 03:41	2
Motor Oil Range Organics [C24-C36]	**130**		98	20	mg/Kg		01/10/19 11:41	01/17/19 03:41	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	93		40 - 130	01/10/19 11:41	01/17/19 03:41	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**2.2**	**p**	2.0	0.60	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
4,4'-DDE	**1.3**	**J**	2.0	0.41	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
4,4'-DDT	**4.7**	**p**	2.0	0.40	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
alpha-Chlordane	**0.67**	**J p**	2.0	0.39	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Dieldrin	**4.9**	**p**	2.0	0.58	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
gamma-Chlordane	**0.90**	**J p**	2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 09:24	01/14/19 18:01	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 09:24	01/14/19 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		21 - 136	01/10/19 09:24	01/14/19 18:01	1
Tetrachloro-m-xylene	83		21 - 145	01/10/19 09:24	01/14/19 18:01	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:56	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:56	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:56	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:56	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:56	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 18:56	1

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Date Collected: 01/09/19 08:10
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*45 - 120*	*01/14/19 14:13*	*01/15/19 18:56*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	**710**		250	84	ug/Kg		01/14/19 14:13	01/16/19 15:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*45 - 120*	*01/14/19 14:13*	*01/16/19 15:23*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.6**		1.3	0.22	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Arsenic	**6.0**		2.7	0.23	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Barium	**100**		1.3	0.19	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Beryllium	**0.16**	**J**	0.27	0.087	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Cadmium	**1.0**		0.34	0.033	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Chromium	**38**		1.3	0.14	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Cobalt	**14**		0.54	0.054	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Copper	**220**		4.0	1.9	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Lead	**150**	**B**	1.3	0.28	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Molybdenum	**3.3**		1.3	0.17	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Nickel	**32**		1.3	0.14	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Selenium	**2.4**	**J**	2.7	0.40	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Silver	ND		0.67	0.14	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Thallium	ND		1.3	0.39	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Vanadium	**84**		1.3	0.18	mg/Kg		01/10/19 09:21	01/14/19 15:23	4
Zinc	**270**		4.0	1.7	mg/Kg		01/10/19 09:21	01/14/19 15:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.015	0.0021	mg/Kg		01/10/19 13:58	01/10/19 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.0**		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AA7S-3.5-4

Date Collected: 01/09/19 08:12
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		01/10/19 10:30	01/13/19 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*60 - 120*	*01/10/19 10:30*	*01/13/19 15:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/10/19 10:30*	*01/13/19 15:30*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/10/19 10:30*	*01/13/19 15:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Benzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Bromoform	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Chloroform	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1

Client Sample ID: DG-AA7S-3.5-4
Date Collected: 01/09/19 08:12
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Styrene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Toluene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Vinyl acetate	ND		5.9	3.0	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/10/19 10:30	01/13/19 15:30	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		01/10/19 10:30	01/13/19 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*	*01/10/19 10:30*	*01/13/19 15:30*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/10/19 10:30*	*01/13/19 15:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.5	4.7	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Acenaphthene	ND		4.7	2.7	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Acenaphthylene	ND		4.7	2.3	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Anthracene	**3.4**	**J**	4.7	1.9	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Benzo[a]anthracene	**4.2**	**J**	4.7	1.4	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Benzo[a]pyrene	**3.6**	**J**	4.7	1.8	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Benzo[b]fluoranthene	**7.4**		4.7	2.0	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Benzo[g,h,i]perylene	ND		4.7	4.1	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Benzo[k]fluoranthene	**2.8**	**J**	4.7	2.0	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Chrysene	**6.2**	*****	4.7	1.3	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Dibenz(a,h)anthracene	ND		4.7	3.3	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Fluoranthene	**8.1**		4.7	1.3	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Fluorene	ND		4.7	2.1	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Indeno[1,2,3-cd]pyrene	ND		4.7	4.0	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Naphthalene	ND		4.7	3.3	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Phenanthrene	**7.6**	**B**	4.7	1.7	ug/Kg		01/11/19 14:00	01/21/19 17:53	1
Pyrene	**9.6**		4.7	1.6	ug/Kg		01/11/19 14:00	01/21/19 17:53	1

Client Sample ID: DG-AA7S-3.5-4

Date Collected: 01/09/19 08:12
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*01/11/19 14:00*	*01/21/19 17:53*	*1*
Terphenyl-d14	*101*		*35 - 146*	*01/11/19 14:00*	*01/21/19 17:53*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**	**B**	2.0	0.73	mg/Kg		01/10/19 11:41	01/17/19 01:15	1
Motor Oil Range Organics [C24-C36]	**38**	**J**	49	9.8	mg/Kg		01/10/19 11:41	01/17/19 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*94*		*40 - 130*	*01/10/19 11:41*	*01/17/19 01:15*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 09:24	01/14/19 18:18	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 09:24	01/14/19 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*21 - 136*	*01/10/19 09:24*	*01/14/19 18:18*	*1*
Tetrachloro-m-xylene	*92*		*21 - 145*	*01/10/19 09:24*	*01/14/19 18:18*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:11	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:11	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:11	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:11	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:11	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:11	1
Aroclor 1260	**21**	**J**	49	17	ug/Kg		01/14/19 14:13	01/15/19 19:11	1

Client Sample ID: DG-AA7S-3.5-4

Date Collected: 01/09/19 08:12
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*	*01/14/19 14:13*	*01/15/19 19:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.9**		1.9	0.32	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Arsenic	**4.6**		3.8	0.33	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Barium	**140**		1.9	0.27	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Beryllium	**0.19**	**J**	0.38	0.13	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Cadmium	**0.43**	**J**	0.48	0.048	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Chromium	**19**		1.9	0.20	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Cobalt	**6.5**		0.77	0.077	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Copper	**50**		5.8	2.7	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Lead	**180**	**B**	1.9	0.40	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Molybdenum	**0.51**	**J**	1.9	0.25	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Nickel	**28**		1.9	0.20	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Selenium	ND		3.8	0.58	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Silver	**0.27**	**J**	0.96	0.19	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Thallium	ND		1.9	0.56	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Vanadium	**32**		1.9	0.26	mg/Kg		01/10/19 09:21	01/14/19 15:28	4
Zinc	**170**		5.8	2.4	mg/Kg		01/10/19 09:21	01/14/19 15:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.079**		0.016	0.0024	mg/Kg		01/10/19 13:58	01/10/19 16:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.6**		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AC7S-0.5-1
Date Collected: 01/09/19 08:45
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-5
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		77	54	ug/Kg		01/13/19 15:29	01/13/19 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/13/19 15:29*	*01/13/19 15:54*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*01/13/19 15:29*	*01/13/19 15:54*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/13/19 15:29*	*01/13/19 15:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,1,1-Trichloroethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.8	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,1,2-Trichloroethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,1-Dichloroethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,1-Dichloropropene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,2,3-Trichlorobenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,2,3-Trichloropropane	ND		7.7	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,2,4-Trichlorobenzene	ND		3.8	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,2,4-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,2-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,2-Dichloroethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,2-Dichloropropane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,3,5-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,3-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,3-Dichloropropane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
1,4-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
2,2-Dichloropropane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
2-Butanone (MEK)	ND		7.7	3.8	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
2-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
2-Hexanone	ND		7.7	3.8	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
4-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
4-Isopropyltoluene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Benzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Bromobenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Bromoform	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Bromomethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Chlorobenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Chlorodibromomethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Chloroethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Chloroform	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Chloromethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
cis-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1

Client Sample ID: DG-AC7S-0.5-1

Date Collected: 01/09/19 08:45
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Dibromomethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Dichlorobromomethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Ethylbenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Ethylene Dibromide	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Hexachlorobutadiene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Isopropylbenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Methylene Chloride	ND		7.7	3.8	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Naphthalene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
n-Butylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
N-Propylbenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
sec-Butylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Styrene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
tert-Butylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Tetrachloroethene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Toluene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
trans-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
trans-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Trichloroethene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 15:54	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		01/13/19 15:29	01/13/19 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*	*01/13/19 15:29*	*01/13/19 15:54*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/13/19 15:29*	*01/13/19 15:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		49	24	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Acenaphthene	**16**	**J**	24	14	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Acenaphthylene	**170**		24	12	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Anthracene	**360**		24	9.7	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Benzo[a]anthracene	**330**		24	7.3	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Benzo[a]pyrene	**500**		24	9.2	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Benzo[b]fluoranthene	**1100**		24	10	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Benzo[g,h,i]perylene	**280**		24	21	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Benzo[k]fluoranthene	**330**		24	10	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Chrysene	**480**	*	24	6.8	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Dibenz(a,h)anthracene	**72**		24	17	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Fluoranthene	**620**		24	6.8	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Fluorene	**17**	**J**	24	11	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Indeno[1,2,3-cd]pyrene	**240**		24	20	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Naphthalene	**28**		24	17	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Phenanthrene	**110**	**B**	24	8.8	ug/Kg		01/11/19 14:00	01/22/19 07:03	5
Pyrene	**830**		24	8.3	ug/Kg		01/11/19 14:00	01/22/19 07:03	5

Client Sample ID: DG-AC7S-0.5-1

Date Collected: 01/09/19 08:45
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*01/11/19 14:00*	*01/22/19 07:03*	*5*
Terphenyl-d14	*98*		*35 - 146*	*01/11/19 14:00*	*01/22/19 07:03*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**85**	**B**	3.9	1.5	mg/Kg		01/10/19 11:41	01/17/19 04:10	2
Motor Oil Range Organics [C24-C36]	**210**		98	20	mg/Kg		01/10/19 11:41	01/17/19 04:10	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*40 - 130*	*01/10/19 11:41*	*01/17/19 04:10*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
4,4'-DDE	**0.48**	**J**	2.0	0.41	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Endrin aldehyde	ND	*	2.0	0.62	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 09:24	01/11/19 18:33	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 09:24	01/11/19 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*	*p*	*21 - 136*	*01/10/19 09:24*	*01/11/19 18:33*	*1*
Tetrachloro-m-xylene	*57*		*21 - 145*	*01/10/19 09:24*	*01/11/19 18:33*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:25	1
Aroclor 1221	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:25	1
Aroclor 1232	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:25	1
Aroclor 1242	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:25	1
Aroclor 1248	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:25	1
Aroclor 1254	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:25	1
Aroclor 1260	**190**		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:25	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AC7S-0.5-1

Date Collected: 01/09/19 08:45
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*45 - 120*	*01/14/19 14:13*	*01/15/19 19:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.4	0.23	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Arsenic	8.3		2.8	0.24	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Barium	160		1.4	0.20	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Beryllium	0.16	J	0.28	0.091	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Cadmium	0.96		0.35	0.035	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Chromium	28		1.4	0.15	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Cobalt	12		0.56	0.056	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Copper	160		4.2	2.0	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Lead	120	B	1.4	0.29	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Molybdenum	2.7		1.4	0.18	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Nickel	30		1.4	0.14	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Selenium	1.8	J	2.8	0.42	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Silver	ND		0.70	0.14	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Thallium	ND		1.4	0.41	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Vanadium	77		1.4	0.19	mg/Kg		01/10/19 09:21	01/14/19 15:42	4
Zinc	200		4.2	1.8	mg/Kg		01/10/19 09:21	01/14/19 15:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.017	0.0025	mg/Kg		01/10/19 13:58	01/10/19 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		0.1	0.05	%			01/10/19 14:05	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AC7S-3.5-4
Date Collected: 01/09/19 08:47
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-6
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		94	66	ug/Kg		01/13/19 15:29	01/13/19 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/13/19 15:29*	*01/13/19 16:18*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/13/19 15:29*	*01/13/19 16:18*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/13/19 15:29*	*01/13/19 16:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,1,1-Trichloroethane	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.4	4.7	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,1,2-Trichloroethane	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,1-Dichloroethane	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,1-Dichloropropene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,2,3-Trichlorobenzene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,2,3-Trichloropropane	ND		9.4	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,2,4-Trichlorobenzene	ND		4.7	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,2,4-Trimethylbenzene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,2-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,2-Dichloroethane	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,2-Dichloropropane	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,3,5-Trimethylbenzene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,3-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,3-Dichloropropane	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
1,4-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
2-Chlorotoluene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
2-Hexanone	ND		9.4	4.7	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
4-Chlorotoluene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
4-Isopropyltoluene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.3	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Benzene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Bromobenzene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Bromoform	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Bromomethane	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Carbon disulfide	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Chlorobenzene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Chlorobromomethane	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Chlorodibromomethane	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Chloroethane	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Chloroform	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Chloromethane	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
cis-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1

Client Sample ID: DG-AC7S-3.5-4

Date Collected: 01/09/19 08:47
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Dibromomethane	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Dichlorobromomethane	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Dichlorodifluoromethane	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Ethylbenzene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Ethylene Dibromide	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Hexachlorobutadiene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Isopropylbenzene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Methyl tert-butyl ether	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Methylene Chloride	ND		9.4	4.7	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Naphthalene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
n-Butylbenzene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
N-Propylbenzene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
sec-Butylbenzene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Styrene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
tert-Butylbenzene	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Tetrachloroethene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Toluene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
trans-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
trans-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Trichloroethene	ND		0.94	0.47	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Trichlorofluoromethane	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Vinyl acetate	ND		7.5	3.8	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Vinyl chloride	ND		1.9	0.94	ug/Kg		01/13/19 15:29	01/13/19 16:18	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/13/19 15:29	01/13/19 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*	*01/13/19 15:29*	*01/13/19 16:18*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/13/19 15:29*	*01/13/19 16:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**11**		9.8	4.9	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Acenaphthylene	**2.9**	**J**	4.9	2.4	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Anthracene	**5.3**		4.9	2.0	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Benzo[a]anthracene	**5.3**		4.9	1.5	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Benzo[a]pyrene	**2.5**	**J**	4.9	1.9	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Benzo[b]fluoranthene	**11**		4.9	2.1	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Benzo[k]fluoranthene	**2.8**	**J**	4.9	2.1	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Chrysene	**19**	*****	4.9	1.4	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Fluoranthene	**27**		4.9	1.4	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Fluorene	ND		4.9	2.2	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Naphthalene	**41**		4.9	3.4	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Phenanthrene	**51**	**B**	4.9	1.8	ug/Kg		01/11/19 14:00	01/21/19 18:17	1
Pyrene	**17**		4.9	1.7	ug/Kg		01/11/19 14:00	01/21/19 18:17	1

Client Sample ID: DG-AC7S-3.5-4

Date Collected: 01/09/19 08:47
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*33 - 120*	*01/11/19 14:00*	*01/21/19 18:17*	*1*
Terphenyl-d14	*103*		*35 - 146*	*01/11/19 14:00*	*01/21/19 18:17*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	28	B	2.0	0.73	mg/Kg		01/10/19 11:41	01/17/19 00:16	1
Motor Oil Range Organics [C24-C36]	37	J	49	9.8	mg/Kg		01/10/19 11:41	01/17/19 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*58*		*40 - 130*	*01/10/19 11:41*	*01/17/19 00:16*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.8	3.0	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
4,4'-DDE	ND		9.8	2.1	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
4,4'-DDT	ND		9.8	2.0	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Aldrin	ND		9.8	2.5	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
alpha-BHC	ND		9.8	2.7	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
alpha-Chlordane	ND		9.8	2.0	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
beta-BHC	ND		9.8	1.8	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Chlordane (technical)	ND		200	16	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
delta-BHC	ND		9.8	2.2	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Dieldrin	ND		9.8	2.9	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Endosulfan I	ND		9.8	1.6	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Endosulfan II	ND		9.8	2.4	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Endosulfan sulfate	ND		9.8	1.9	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Endrin	ND		9.8	2.3	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Endrin aldehyde	ND		9.8	3.1	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Endrin ketone	ND		9.8	1.6	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
gamma-BHC (Lindane)	ND		9.8	3.1	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
gamma-Chlordane	ND		9.8	2.3	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Heptachlor	ND		9.8	2.3	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Heptachlor epoxide	ND		9.8	1.7	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Methoxychlor	ND		9.8	3.3	ug/Kg		01/10/19 09:24	01/15/19 08:14	5
Toxaphene	ND		200	33	ug/Kg		01/10/19 09:24	01/15/19 08:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*21 - 136*	*01/10/19 09:24*	*01/15/19 08:14*	*5*
Tetrachloro-m-xylene	*65*		*21 - 145*	*01/10/19 09:24*	*01/15/19 08:14*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:40	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:40	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:40	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:40	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:40	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:40	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 19:40	1

Client Sample ID: DG-AC7S-3.5-4

Date Collected: 01/09/19 08:47
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*45 - 120*	*01/14/19 14:13*	*01/15/19 19:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	38		3.7	0.62	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Arsenic	26		7.5	0.63	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Barium	1300		3.7	0.53	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Beryllium	0.93		0.75	0.24	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Cadmium	5.1		0.93	0.093	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Chromium	55		3.7	0.40	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Cobalt	9.4		1.5	0.15	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Copper	610		11	5.3	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Lead	3400	B	3.7	0.78	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Molybdenum	3.6	J	3.7	0.48	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Nickel	47		3.7	0.38	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Selenium	4.1	J	7.5	1.1	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Silver	5.6		1.9	0.38	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Thallium	1.4	J	3.7	1.1	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Vanadium	26		3.7	0.51	mg/Kg		01/10/19 09:21	01/14/19 15:47	10
Zinc	2300		11	4.7	mg/Kg		01/10/19 09:21	01/14/19 15:47	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.015	0.0021	mg/Kg		01/10/19 13:58	01/10/19 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	35.4		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DUP-47

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		67	47	ug/Kg		01/13/19 15:29	01/13/19 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*	*01/13/19 15:29*	*01/13/19 16:42*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/13/19 15:29*	*01/13/19 16:42*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/13/19 15:29*	*01/13/19 16:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,1,1-Trichloroethane	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	3.4	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,1,2-Trichloroethane	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,1-Dichloroethane	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,1-Dichloroethene	ND		1.3	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,1-Dichloropropene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,2,3-Trichlorobenzene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,2,3-Trichloropropane	ND		6.7	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,2,4-Trichlorobenzene	ND		3.4	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,2,4-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.3	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,2-Dichlorobenzene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,2-Dichloroethane	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,2-Dichloropropane	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,3,5-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,3-Dichlorobenzene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,3-Dichloropropane	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
1,4-Dichlorobenzene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
2,2-Dichloropropane	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
2-Butanone (MEK)	ND		6.7	3.4	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
2-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
2-Hexanone	ND		6.7	3.4	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
4-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
4-Isopropyltoluene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Benzene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Bromobenzene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Bromoform	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Bromomethane	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Carbon disulfide	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Carbon tetrachloride	ND		1.3	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Chlorobenzene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Chlorobromomethane	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Chlorodibromomethane	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Chloroethane	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Chloroform	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Chloromethane	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
cis-1,2-Dichloroethene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1

Client Sample ID: DUP-47

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Dibromomethane	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Dichlorobromomethane	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Dichlorodifluoromethane	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Ethylbenzene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Ethylene Dibromide	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Hexachlorobutadiene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Isopropylbenzene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Methyl tert-butyl ether	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Methylene Chloride	ND		6.7	3.4	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Naphthalene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
n-Butylbenzene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
N-Propylbenzene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
sec-Butylbenzene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Styrene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
tert-Butylbenzene	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Tetrachloroethene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Toluene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
trans-1,2-Dichloroethene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
trans-1,3-Dichloropropene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Trichloroethene	ND		0.67	0.34	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Trichlorofluoromethane	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Vinyl chloride	ND		1.3	0.67	ug/Kg		01/13/19 15:29	01/13/19 16:42	1
Xylenes, Total	ND		1.3	0.87	ug/Kg		01/13/19 15:29	01/13/19 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*132*	*X*	*70 - 130*	*01/13/19 15:29*	*01/13/19 16:42*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/13/19 15:29*	*01/13/19 16:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**45**	**J**	48	24	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Acenaphthene	ND		24	14	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Acenaphthylene	**82**		24	12	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Anthracene	**190**		24	9.7	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Benzo[a]anthracene	**96**		24	7.2	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Benzo[a]pyrene	**200**		24	9.2	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Benzo[b]fluoranthene	**430**		24	10	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Benzo[g,h,i]perylene	**100**		24	21	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Benzo[k]fluoranthene	**130**		24	10	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Chrysene	**170**	*	24	6.8	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Dibenz(a,h)anthracene	**27**		24	17	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Fluoranthene	**160**		24	6.8	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Fluorene	ND		24	11	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Indeno[1,2,3-cd]pyrene	**92**		24	20	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Naphthalene	**43**		24	17	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Phenanthrene	**62**	**B**	24	8.7	ug/Kg		01/11/19 14:00	01/22/19 07:26	5
Pyrene	**220**		24	8.2	ug/Kg		01/11/19 14:00	01/22/19 07:26	5

Client Sample ID: DUP-47

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-7

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		33 - 120	01/11/19 14:00	01/22/19 07:26	5
Terphenyl-d14	98		35 - 146	01/11/19 14:00	01/22/19 07:26	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**75**	**B**	3.9	1.5	mg/Kg		01/10/19 11:41	01/17/19 04:39	2
Motor Oil Range Organics [C24-C36]	**180**		99	20	mg/Kg		01/10/19 11:41	01/17/19 04:39	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	92		40 - 130	01/10/19 11:41	01/17/19 04:39	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
4,4'-DDE	**0.89**	**J**	2.0	0.41	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Endrin aldehyde	ND	*	2.0	0.62	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 09:24	01/11/19 19:07	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 09:24	01/11/19 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		21 - 136	01/10/19 09:24	01/11/19 19:07	1
Tetrachloro-m-xylene	83		21 - 145	01/10/19 09:24	01/11/19 19:07	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:54	1
Aroclor 1221	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:54	1
Aroclor 1232	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:54	1
Aroclor 1242	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:54	1
Aroclor 1248	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:54	1
Aroclor 1254	ND		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:54	1
Aroclor 1260	**120**		49	16	ug/Kg		01/14/19 14:13	01/15/19 19:54	1

Client Sample ID: DUP-47

Date Collected: 01/09/19 00:00
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Lab Sample ID: 720-90673-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*01/14/19 14:13*	*01/15/19 19:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.3	0.22	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Arsenic	7.8		2.7	0.23	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Barium	60		1.3	0.19	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Beryllium	0.091	J	0.27	0.087	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Cadmium	0.62		0.33	0.033	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Chromium	16		1.3	0.14	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Cobalt	6.4		0.53	0.053	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Copper	77		4.0	1.9	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Lead	79	B	1.3	0.28	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Molybdenum	1.1	J	1.3	0.17	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Nickel	22		1.3	0.14	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Selenium	1.2	J	2.7	0.40	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Silver	0.13	J	0.67	0.13	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Thallium	ND		1.3	0.39	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Vanadium	38		1.3	0.18	mg/Kg		01/10/19 09:21	01/14/19 15:52	4
Zinc	130		4.0	1.7	mg/Kg		01/10/19 09:21	01/14/19 15:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.015	0.0022	mg/Kg		01/10/19 13:58	01/10/19 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AC7S-7.5-8

Date Collected: 01/09/19 08:50
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	54	ug/Kg		01/13/19 15:29	01/13/19 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/13/19 15:29*	*01/13/19 17:06*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/13/19 15:29*	*01/13/19 17:06*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/13/19 15:29*	*01/13/19 17:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Benzene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Bromoform	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Chloroform	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1

Client Sample ID: DG-AC7S-7.5-8

Date Collected: 01/09/19 08:50
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-8

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Styrene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Toluene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/13/19 15:29	01/13/19 17:06	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/13/19 15:29	01/13/19 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*	*01/13/19 15:29*	*01/13/19 17:06*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/13/19 15:29*	*01/13/19 17:06*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**16**		9.7	4.8	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Acenaphthylene	**5.9**		4.8	2.3	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Anthracene	**3.2**	**J**	4.8	1.9	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Benzo[a]anthracene	**9.3**		4.8	1.5	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Benzo[a]pyrene	**17**		4.8	1.8	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Benzo[b]fluoranthene	**54**		4.8	2.0	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Benzo[g,h,i]perylene	**20**		4.8	4.2	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Benzo[k]fluoranthene	**9.3**		4.8	2.0	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Chrysene	**30**	*	4.8	1.4	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Fluoranthene	**43**		4.8	1.4	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Fluorene	**5.8**		4.8	2.1	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Indeno[1,2,3-cd]pyrene	**14**		4.8	4.1	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Naphthalene	**42**		4.8	3.4	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Phenanthrene	**49**	**B**	4.8	1.7	ug/Kg		01/11/19 14:00	01/21/19 18:40	1
Pyrene	**41**		4.8	1.6	ug/Kg		01/11/19 14:00	01/21/19 18:40	1

Client Sample ID: DG-AC7S-7.5-8

Date Collected: 01/09/19 08:50
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*33 - 120*	*01/11/19 14:00*	*01/21/19 18:40*	*1*
Terphenyl-d14	*103*		*35 - 146*	*01/11/19 14:00*	*01/21/19 18:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.2**	**B**	1.9	0.73	mg/Kg		01/10/19 11:41	01/17/19 03:59	1
Motor Oil Range Organics [C24-C36]	**25**	**J**	49	9.7	mg/Kg		01/10/19 11:41	01/17/19 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*102*		*40 - 130*	*01/10/19 11:41*	*01/17/19 03:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 09:24	01/14/19 18:34	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 09:24	01/14/19 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*21 - 136*	*01/10/19 09:24*	*01/14/19 18:34*	*1*
Tetrachloro-m-xylene	*84*		*21 - 145*	*01/10/19 09:24*	*01/14/19 18:34*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 20:09	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 20:09	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 20:09	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 20:09	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 20:09	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 20:09	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 20:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AC7S-7.5-8

Date Collected: 01/09/19 08:50
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*	*01/14/19 14:13*	*01/15/19 20:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.6		1.5	0.25	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Arsenic	13		3.0	0.25	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Barium	180		1.5	0.21	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Beryllium	0.91		0.30	0.097	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Cadmium	0.36	J	0.37	0.037	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Chromium	39		1.5	0.16	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Cobalt	13		0.60	0.060	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Copper	96		4.5	2.1	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Lead	360	B	1.5	0.31	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Molybdenum	1.1	J	1.5	0.19	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Nickel	52		1.5	0.15	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Selenium	3.5		3.0	0.45	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Silver	0.42	J	0.75	0.15	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Thallium	4.3		1.5	0.43	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Vanadium	49		1.5	0.20	mg/Kg		01/10/19 09:21	01/14/19 15:56	4
Zinc	390		4.5	1.9	mg/Kg		01/10/19 09:21	01/14/19 15:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.014	0.0021	mg/Kg		01/10/19 13:58	01/10/19 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.9		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AE7S-0.5-1

Date Collected: 01/09/19 09:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	46	ug/Kg		01/13/19 15:29	01/13/19 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/13/19 15:29*	*01/13/19 17:30*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/13/19 15:29*	*01/13/19 17:30*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/13/19 15:29*	*01/13/19 17:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
2-Butanone (MEK)	ND		6.6	3.3	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
2-Hexanone	ND		6.6	3.3	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.6	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Benzene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Bromobenzene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Bromoform	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Bromomethane	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Chloroethane	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Chloroform	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Chloromethane	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1

Client Sample ID: DG-AE7S-0.5-1

Date Collected: 01/09/19 09:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Dibromomethane	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Naphthalene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Styrene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Toluene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Trichloroethene	ND		0.66	0.33	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Vinyl acetate	ND		5.3	2.6	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		01/13/19 15:29	01/13/19 17:30	1
Xylenes, Total	ND		1.3	0.86	ug/Kg		01/13/19 15:29	01/13/19 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*	*01/13/19 15:29*	*01/13/19 17:30*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/13/19 15:29*	*01/13/19 17:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.4**	**J**	9.4	4.7	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Acenaphthene	ND		4.7	2.6	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Acenaphthylene	**2.4**	**J**	4.7	2.3	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Anthracene	**4.2**	**J**	4.7	1.9	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Benzo[a]anthracene	**25**		4.7	1.4	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Benzo[a]pyrene	**36**		4.7	1.8	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Benzo[b]fluoranthene	**53**		4.7	2.0	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Benzo[g,h,i]perylene	**18**		4.7	4.1	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Benzo[k]fluoranthene	**22**		4.7	2.0	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Chrysene	**42**	*	4.7	1.3	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Dibenz(a,h)anthracene	**4.4**	**J**	4.7	3.3	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Fluoranthene	**40**		4.7	1.3	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Fluorene	ND		4.7	2.1	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Indeno[1,2,3-cd]pyrene	**15**		4.7	4.0	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Naphthalene	**4.9**		4.7	3.3	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Phenanthrene	**18**	**B**	4.7	1.7	ug/Kg		01/11/19 14:00	01/21/19 19:04	1
Pyrene	**42**		4.7	1.6	ug/Kg		01/11/19 14:00	01/21/19 19:04	1

Client Sample ID: DG-AE7S-0.5-1

Date Collected: 01/09/19 09:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*01/11/19 14:00*	*01/21/19 19:04*	*1*
Terphenyl-d14	*110*		*35 - 146*	*01/11/19 14:00*	*01/21/19 19:04*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	21	B	2.0	0.74	mg/Kg		01/10/19 11:41	01/17/19 04:23	1
Motor Oil Range Organics [C24-C36]	47	J	50	9.9	mg/Kg		01/10/19 11:41	01/17/19 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*108*		*40 - 130*	*01/10/19 11:41*	*01/17/19 04:23*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Endrin aldehyde	ND	*	2.0	0.62	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 09:24	01/11/19 19:24	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 09:24	01/11/19 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*153*	*X*	*21 - 136*	*01/10/19 09:24*	*01/11/19 19:24*	*1*
Tetrachloro-m-xylene	*90*		*21 - 145*	*01/10/19 09:24*	*01/11/19 19:24*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:24	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:24	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:24	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:24	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:24	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:24	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:24	1

Client Sample ID: DG-AE7S-0.5-1

Date Collected: 01/09/19 09:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*107*		*45 - 120*	*01/14/19 14:13*	*01/15/19 20:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.0**		1.4	0.23	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Arsenic	**7.7**		2.8	0.24	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Barium	**83**		1.4	0.20	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Beryllium	**0.14**	**J**	0.28	0.090	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Cadmium	**0.58**		0.35	0.034	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Chromium	**19**		1.4	0.15	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Cobalt	**14**		0.56	0.056	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Copper	**98**		4.2	2.0	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Lead	**100**	**B**	1.4	0.29	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Molybdenum	**0.91**	**J**	1.4	0.18	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Nickel	**32**		1.4	0.14	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Selenium	**1.8**	**J**	2.8	0.42	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Silver	ND		0.69	0.14	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Thallium	ND		1.4	0.40	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Vanadium	**76**		1.4	0.19	mg/Kg		01/10/19 09:21	01/14/19 16:01	4
Zinc	**300**		4.2	1.8	mg/Kg		01/10/19 09:21	01/14/19 16:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**		0.015	0.0023	mg/Kg		01/22/19 09:47	01/22/19 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.7**		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AE7S-3.5-4

Date Collected: 01/09/19 09:07
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		01/13/19 15:29	01/13/19 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*60 - 120*	*01/13/19 15:29*	*01/13/19 17:54*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/13/19 15:29*	*01/13/19 17:54*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/13/19 15:29*	*01/13/19 17:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
2-Butanone (MEK)	**18**		7.4	3.7	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.8	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Benzene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Bromoform	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Chloroform	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1

Client Sample ID: DG-AE7S-3.5-4

Date Collected: 01/09/19 09:07
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Styrene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Toluene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Vinyl acetate	ND		5.9	3.0	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/13/19 15:29	01/13/19 17:54	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		01/13/19 15:29	01/13/19 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*138*	*X*	*70 - 130*	*01/13/19 15:29*	*01/13/19 17:54*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/13/19 15:29*	*01/13/19 17:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**13**		9.6	4.8	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Acenaphthylene	**3.4**	**J**	4.8	2.3	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Anthracene	**4.9**		4.8	1.9	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Benzo[a]anthracene	**18**		4.8	1.4	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Benzo[a]pyrene	**18**		4.8	1.8	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Benzo[b]fluoranthene	**27**		4.8	2.0	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Benzo[g,h,i]perylene	**8.1**		4.8	4.1	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Benzo[k]fluoranthene	**9.6**		4.8	2.0	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Chrysene	**28**	*****	4.8	1.3	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Fluoranthene	**20**		4.8	1.3	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Fluorene	**2.9**	**J**	4.8	2.1	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Indeno[1,2,3-cd]pyrene	**6.6**		4.8	4.0	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Naphthalene	**14**		4.8	3.4	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Phenanthrene	**23**	**B**	4.8	1.7	ug/Kg		01/11/19 14:00	01/21/19 19:27	1
Pyrene	**30**		4.8	1.6	ug/Kg		01/11/19 14:00	01/21/19 19:27	1

Client Sample ID: DG-AE7S-3.5-4

Date Collected: 01/09/19 09:07
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*33 - 120*	*01/11/19 14:00*	*01/21/19 19:27*	*1*
Terphenyl-d14	*93*		*35 - 146*	*01/11/19 14:00*	*01/21/19 19:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**27**	**B**	2.0	0.74	mg/Kg		01/10/19 11:41	01/17/19 05:12	1
Motor Oil Range Organics [C24-C36]	**140**		49	9.8	mg/Kg		01/10/19 11:41	01/17/19 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*76*		*40 - 130*	*01/10/19 11:41*	*01/17/19 05:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1	2.0	0.60	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
4,4'-DDE	ND	F2	2.0	0.41	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
alpha-Chlordane	ND	F1	2.0	0.39	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Endosulfan II	ND	F1	2.0	0.48	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
gamma-Chlordane	ND	F1	2.0	0.45	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/13/19 23:56	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 15:34	01/13/19 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*21 - 136*	*01/10/19 15:34*	*01/13/19 23:56*	*1*
Tetrachloro-m-xylene	*83*		*21 - 145*	*01/10/19 15:34*	*01/13/19 23:56*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:34	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:34	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:34	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:34	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:34	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:34	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:34	1

Client Sample ID: DG-AE7S-3.5-4

Date Collected: 01/09/19 09:07
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*45 - 120*	*01/14/19 14:13*	*01/16/19 13:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2		1.4	0.23	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Arsenic	8.8		2.8	0.24	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Barium	130		1.4	0.20	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Beryllium	0.16	J	0.28	0.090	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Cadmium	0.20	J	0.35	0.034	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Chromium	15		1.4	0.15	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Cobalt	5.7		0.56	0.056	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Copper	47		4.2	2.0	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Lead	220	B	1.4	0.29	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Molybdenum	0.79	J	1.4	0.18	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Nickel	15		1.4	0.14	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Selenium	1.1	J	2.8	0.42	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Silver	ND		0.69	0.14	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Thallium	ND		1.4	0.40	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Vanadium	35		1.4	0.19	mg/Kg		01/10/19 09:21	01/14/19 16:06	4
Zinc	120		4.2	1.8	mg/Kg		01/10/19 09:21	01/14/19 16:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.015	0.0023	mg/Kg		01/22/19 09:47	01/22/19 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AE7S-8-8.5

Date Collected: 01/09/19 09:10
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	54	ug/Kg		01/13/19 15:29	01/13/19 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/13/19 15:29*	*01/13/19 18:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/13/19 15:29*	*01/13/19 18:18*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/13/19 15:29*	*01/13/19 18:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,2,3-Trichlorobenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,2,3-Trichloropropane	ND		7.6	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,2,4-Trichlorobenzene	ND		3.8	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,2,4-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,2-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,3,5-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,3-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
1,4-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
2,2-Dichloropropane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
2-Butanone (MEK)	ND		7.6	3.8	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
2-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
2-Hexanone	ND		7.6	3.8	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
4-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
4-Isopropyltoluene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Benzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Bromobenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Bromoform	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Bromomethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Chloroethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Chloroform	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Chloromethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1

Client Sample ID: DG-AE7S-8-8.5

Date Collected: 01/09/19 09:10
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Dibromomethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Hexachlorobutadiene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Naphthalene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
n-Butylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
N-Propylbenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
sec-Butylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Styrene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
tert-Butylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Toluene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Trichloroethene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:18	1
Xylenes, Total	ND		1.5	0.99	ug/Kg		01/13/19 15:29	01/13/19 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*	*01/13/19 15:29*	*01/13/19 18:18*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/13/19 15:29*	*01/13/19 18:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.1**	**J**	9.4	4.7	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Acenaphthene	ND		4.7	2.6	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Acenaphthylene	**2.3**	**J**	4.7	2.3	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Anthracene	**3.0**	**J**	4.7	1.9	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Benzo[a]anthracene	**14**		4.7	1.4	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Benzo[a]pyrene	**28**		4.7	1.8	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Benzo[b]fluoranthene	**58**		4.7	2.0	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Benzo[g,h,i]perylene	**26**		4.7	4.1	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Benzo[k]fluoranthene	**17**		4.7	2.0	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Chrysene	**39**	*	4.7	1.3	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Dibenz(a,h)anthracene	**4.2**	**J**	4.7	3.3	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Fluoranthene	**42**		4.7	1.3	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Fluorene	**2.3**	**J**	4.7	2.1	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Indeno[1,2,3-cd]pyrene	**19**		4.7	4.0	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Naphthalene	**15**		4.7	3.3	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Phenanthrene	**47**	**B**	4.7	1.7	ug/Kg		01/11/19 14:00	01/16/19 05:33	1
Pyrene	**52**		4.7	1.6	ug/Kg		01/11/19 14:00	01/16/19 05:33	1

Client Sample ID: DG-AE7S-8-8.5

Date Collected: 01/09/19 09:10
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*33 - 120*	*01/11/19 14:00*	*01/16/19 05:33*	*1*
Terphenyl-d14	*91*		*35 - 146*	*01/11/19 14:00*	*01/16/19 05:33*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.2**	**B**	1.9	0.73	mg/Kg		01/10/19 11:41	01/17/19 04:47	1
Motor Oil Range Organics [C24-C36]	ND		49	9.7	mg/Kg		01/10/19 11:41	01/17/19 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*104*		*40 - 130*	*01/10/19 11:41*	*01/17/19 04:47*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 00:14	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 15:34	01/14/19 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*21 - 136*	*01/10/19 15:34*	*01/14/19 00:14*	*1*
Tetrachloro-m-xylene	*83*		*21 - 145*	*01/10/19 15:34*	*01/14/19 00:14*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:53	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:53	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:53	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:53	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:53	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:53	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 20:53	1

Client Sample ID: DG-AE7S-8-8.5

Date Collected: 01/09/19 09:10
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*01/14/19 14:13*	*01/15/19 20:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.9	0.31	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Arsenic	12		3.7	0.31	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Barium	60		1.9	0.26	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Beryllium	0.94		0.37	0.12	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Cadmium	0.12	J	0.46	0.046	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Chromium	38		1.9	0.20	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Cobalt	22		0.74	0.074	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Copper	55		5.6	2.6	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Lead	29	B	1.9	0.39	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Molybdenum	0.73	J	1.9	0.24	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Nickel	65		1.9	0.19	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Selenium	1.8	J	3.7	0.56	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Silver	ND		0.93	0.19	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Thallium	ND		1.9	0.54	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Vanadium	49		1.9	0.25	mg/Kg		01/10/19 09:21	01/14/19 16:10	4
Zinc	120		5.6	2.4	mg/Kg		01/10/19 09:21	01/14/19 16:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.014	0.0021	mg/Kg		01/22/19 09:47	01/22/19 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AI7S-0.5-1

Date Collected: 01/09/19 10:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-12

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	53	ug/Kg		01/13/19 15:29	01/13/19 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/13/19 15:29*	*01/13/19 18:41*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/13/19 15:29*	*01/13/19 18:41*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/13/19 15:29*	*01/13/19 18:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,2,3-Trichlorobenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,2,3-Trichloropropane	ND		7.6	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,2,4-Trichlorobenzene	ND		3.8	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,2,4-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,2-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,3,5-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,3-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
1,4-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
2,2-Dichloropropane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
2-Butanone (MEK)	ND		7.6	3.8	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
2-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
2-Hexanone	ND		7.6	3.8	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
4-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
4-Isopropyltoluene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Benzene	**0.72**	**J**	0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Bromobenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Bromoform	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Bromomethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Chloroethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Chloroform	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Chloromethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1

Client Sample ID: DG-AI7S-0.5-1

Date Collected: 01/09/19 10:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Dibromomethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Hexachlorobutadiene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Naphthalene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
n-Butylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
N-Propylbenzene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
sec-Butylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Styrene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
tert-Butylbenzene	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Toluene	**0.65**	**J**	0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Trichloroethene	ND		0.76	0.38	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Vinyl acetate	ND		6.1	3.0	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		01/13/19 15:29	01/13/19 18:41	1
Xylenes, Total	ND		1.5	0.98	ug/Kg		01/13/19 15:29	01/13/19 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*	*01/13/19 15:29*	*01/13/19 18:41*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/13/19 15:29*	*01/13/19 18:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**85**		48	24	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Acenaphthene	**32**		24	14	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Acenaphthylene	**41**		24	12	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Anthracene	**120**		24	9.7	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Benzo[a]anthracene	**350**		24	7.3	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Benzo[a]pyrene	**440**		24	9.2	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Benzo[b]fluoranthene	**690**		24	10	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Benzo[g,h,i]perylene	**180**		24	21	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Benzo[k]fluoranthene	**210**		24	10	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Chrysene	**600**		24	6.8	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Dibenz(a,h)anthracene	**51**		24	17	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Fluoranthene	**640**		24	6.8	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Fluorene	**28**		24	11	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Indeno[1,2,3-cd]pyrene	**150**		24	20	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Naphthalene	**80**		24	17	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Phenanthrene	**420**		24	8.7	ug/Kg		01/15/19 10:12	01/22/19 06:40	5
Pyrene	**770**		24	8.2	ug/Kg		01/15/19 10:12	01/22/19 06:40	5

Client Sample ID: DG-AI7S-0.5-1

Date Collected: 01/09/19 10:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-12

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		33 - 120	01/15/19 10:12	01/22/19 06:40	5
Terphenyl-d14	99		35 - 146	01/15/19 10:12	01/22/19 06:40	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**440**	**B**	20	7.4	mg/Kg		01/10/19 11:41	01/18/19 03:11	10
Motor Oil Range Organics [C24-C36]	**980**		500	99	mg/Kg		01/10/19 11:41	01/18/19 03:11	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/10/19 11:41	01/18/19 03:11	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**12**	**p**	2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
4,4'-DDE	**12**	**p**	2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
4,4'-DDT	**31**	**p**	2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Dieldrin	**14**	**p**	2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Endrin	**26**	**p**	2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 00:31	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 15:34	01/14/19 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	125		21 - 136	01/10/19 15:34	01/14/19 00:31	1
Tetrachloro-m-xylene	89		21 - 145	01/10/19 15:34	01/14/19 00:31	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:08	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:08	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:08	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:08	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	120		45 - 120	01/14/19 14:13	01/15/19 21:08	1

Client Sample ID: DG-AI7S-0.5-1

Date Collected: 01/09/19 10:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-12

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND		490	170	ug/Kg		01/14/19 14:13	01/16/19 15:36	10
Aroclor 1260	**1500**		490	170	ug/Kg		01/14/19 14:13	01/16/19 15:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*104*		*45 - 120*	*01/14/19 14:13*	*01/16/19 15:36*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**40**		1.9	0.32	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Arsenic	**16**		3.8	0.32	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Barium	**360**		1.9	0.27	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Beryllium	**0.36**	**J**	0.38	0.12	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Cadmium	**10**		0.48	0.047	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Chromium	**960**		1.9	0.20	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Cobalt	**26**		0.76	0.076	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Copper	**1000**		5.7	2.7	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Lead	**1400**	**B**	1.9	0.40	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Molybdenum	**44**		1.9	0.24	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Nickel	**550**		1.9	0.19	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Selenium	**6.0**		3.8	0.57	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Silver	**2.2**		0.95	0.19	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Thallium	**0.79**	**J**	1.9	0.55	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Vanadium	**60**		1.9	0.26	mg/Kg		01/10/19 09:21	01/14/19 16:15	4
Zinc	**2700**		5.7	2.4	mg/Kg		01/10/19 09:21	01/14/19 16:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**8.1**		0.17	0.025	mg/Kg		01/22/19 09:47	01/22/19 13:11	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.8**		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AI7S-3.5-4

Date Collected: 01/09/19 10:02
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		01/13/19 15:29	01/13/19 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/13/19 15:29*	*01/13/19 19:05*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/13/19 15:29*	*01/13/19 19:05*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/13/19 15:29*	*01/13/19 19:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,1,1-Trichloroethane	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.5	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,1,2-Trichloroethane	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,1-Dichloroethane	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,1-Dichloropropene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,2,4-Trichlorobenzene	ND		3.5	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,2-Dichlorobenzene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,2-Dichloroethane	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,2-Dichloropropane	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,3-Dichlorobenzene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,3-Dichloropropane	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
1,4-Dichlorobenzene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
2-Butanone (MEK)	ND		6.9	3.5	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
2-Hexanone	ND		6.9	3.5	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
4-Isopropyltoluene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.7	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Benzene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Bromoform	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Chlorobenzene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Chlorodibromomethane	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Chloroform	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
cis-1,2-Dichloroethene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1

Client Sample ID: DG-AI7S-3.5-4

Date Collected: 01/09/19 10:02
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-13

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Dibromomethane	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Dichlorobromomethane	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Ethylbenzene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Ethylene Dibromide	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Isopropylbenzene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Methylene Chloride	ND		6.9	3.5	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
N-Propylbenzene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Styrene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Tetrachloroethene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Toluene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
trans-1,2-Dichloroethene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
trans-1,3-Dichloropropene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Trichloroethene	ND		0.69	0.35	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/13/19 15:29	01/13/19 19:05	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		01/13/19 15:29	01/13/19 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*01/13/19 15:29*	*01/13/19 19:05*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/13/19 15:29*	*01/13/19 19:05*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**15**		9.5	4.7	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Acenaphthene	ND		4.7	2.7	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Acenaphthylene	ND		4.7	2.3	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Anthracene	**5.8**		4.7	1.9	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Benzo[a]anthracene	**20**		4.7	1.4	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Benzo[a]pyrene	**9.2**		4.7	1.8	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Benzo[b]fluoranthene	**21**		4.7	2.0	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Benzo[g,h,i]perylene	**10**		4.7	4.1	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Benzo[k]fluoranthene	**7.8**		4.7	2.0	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Chrysene	**35**		4.7	1.3	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Dibenz(a,h)anthracene	ND		4.7	3.3	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Fluoranthene	**24**		4.7	1.3	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Fluorene	**2.5**	**J**	4.7	2.1	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Indeno[1,2,3-cd]pyrene	**7.0**		4.7	4.0	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Naphthalene	**14**		4.7	3.3	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Phenanthrene	**16**		4.7	1.7	ug/Kg		01/15/19 10:12	01/17/19 12:23	1
Pyrene	**27**		4.7	1.6	ug/Kg		01/15/19 10:12	01/17/19 12:23	1

Client Sample ID: DG-AI7S-3.5-4

Date Collected: 01/09/19 10:02
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*01/15/19 10:12*	*01/17/19 12:23*	*1*
Terphenyl-d14	*111*		*35 - 146*	*01/15/19 10:12*	*01/17/19 12:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**25**	**B**	1.9	0.73	mg/Kg		01/10/19 11:41	01/17/19 05:09	1
Motor Oil Range Organics [C24-C36]	**75**		49	9.7	mg/Kg		01/10/19 11:41	01/17/19 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*103*		*40 - 130*	*01/10/19 11:41*	*01/17/19 05:09*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 00:49	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 15:34	01/14/19 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*01/10/19 15:34*	*01/14/19 00:49*	*1*
Tetrachloro-m-xylene	*80*		*21 - 145*	*01/10/19 15:34*	*01/14/19 00:49*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:48	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:48	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:48	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:48	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:48	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:48	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:48	1

Client Sample ID: DG-AI7S-3.5-4

Date Collected: 01/09/19 10:02
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*01/14/19 14:13*	*01/16/19 13:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**		1.1	0.18	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Arsenic	**4.4**		2.1	0.18	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Barium	**68**		1.1	0.15	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Beryllium	**0.15**	**J**	0.21	0.069	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Cadmium	**0.38**		0.26	0.026	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Chromium	**25**		1.1	0.11	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Cobalt	**6.1**		0.42	0.042	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Copper	**26**		3.2	1.5	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Lead	**32**	**B**	1.1	0.22	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Molybdenum	**0.55**	**J**	1.1	0.14	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Nickel	**30**		1.1	0.11	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Selenium	**0.89**	**J**	2.1	0.32	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Silver	ND		0.53	0.11	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Thallium	ND		1.1	0.31	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Vanadium	**30**		1.1	0.14	mg/Kg		01/10/19 09:21	01/14/19 16:20	4
Zinc	**60**		3.2	1.3	mg/Kg		01/10/19 09:21	01/14/19 16:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.054**		0.016	0.0023	mg/Kg		01/22/19 09:47	01/22/19 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AI7S-8-8.5

Date Collected: 01/09/19 10:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-14

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		99	70	ug/Kg		01/13/19 15:29	01/13/19 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/13/19 15:29*	*01/13/19 19:29*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/13/19 15:29*	*01/13/19 19:29*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/13/19 15:29*	*01/13/19 19:29*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,1,1-Trichloroethane	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.9	5.0	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,1,2-Trichloroethane	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,1-Dichloroethane	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,1-Dichloropropene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,2,3-Trichlorobenzene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,2,4-Trichlorobenzene	ND		5.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,2-Dichlorobenzene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,2-Dichloroethane	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,2-Dichloropropane	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,3-Dichlorobenzene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,3-Dichloropropane	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
1,4-Dichlorobenzene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
2-Butanone (MEK)	ND		9.9	5.0	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
2-Chlorotoluene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
2-Hexanone	ND		9.9	5.0	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
4-Chlorotoluene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
4-Isopropyltoluene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Benzene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Bromobenzene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Bromoform	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Bromomethane	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Carbon disulfide	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Chlorobenzene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Chlorobromomethane	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Chlorodibromomethane	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Chloroethane	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Chloroform	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Chloromethane	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
cis-1,2-Dichloroethene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1

Client Sample ID: DG-AI7S-8-8.5
Date Collected: 01/09/19 10:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-14
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Dibromomethane	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Dichlorobromomethane	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Dichlorodifluoromethane	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Ethylbenzene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Ethylene Dibromide	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Hexachlorobutadiene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Isopropylbenzene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Methyl tert-butyl ether	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Methylene Chloride	ND		9.9	5.0	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Naphthalene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
n-Butylbenzene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
N-Propylbenzene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
sec-Butylbenzene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Styrene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
tert-Butylbenzene	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Tetrachloroethene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Toluene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
trans-1,2-Dichloroethene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
trans-1,3-Dichloropropene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Trichloroethene	ND		0.99	0.50	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Trichlorofluoromethane	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Vinyl acetate	ND		8.0	4.0	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Vinyl chloride	ND		2.0	0.99	ug/Kg		01/13/19 15:29	01/13/19 19:29	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		01/13/19 15:29	01/13/19 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*	*01/13/19 15:29*	*01/13/19 19:29*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/13/19 15:29*	*01/13/19 19:29*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**250**		50	25	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Acenaphthene	**41**		25	14	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Acenaphthylene	**70**		25	12	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Anthracene	**260**		25	9.9	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Benzo[a]anthracene	**660**		25	7.4	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Benzo[a]pyrene	**800**		25	9.4	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Benzo[b]fluoranthene	**990**		25	10	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Benzo[g,h,i]perylene	**220**		25	21	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Benzo[k]fluoranthene	**400**		25	10	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Chrysene	**800**		25	6.9	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Dibenz(a,h)anthracene	**76**		25	17	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Fluoranthene	**980**		25	6.9	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Fluorene	**110**		25	11	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Indeno[1,2,3-cd]pyrene	**230**		25	21	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Naphthalene	**510**		25	17	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Phenanthrene	**1000**		25	8.9	ug/Kg		01/15/19 10:12	01/21/19 19:51	5
Pyrene	**1200**		25	8.4	ug/Kg		01/15/19 10:12	01/21/19 19:51	5

Client Sample ID: DG-AI7S-8-8.5

Date Collected: 01/09/19 10:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*01/15/19 10:12*	*01/21/19 19:51*	*5*
Terphenyl-d14	*79*		*35 - 146*	*01/15/19 10:12*	*01/21/19 19:51*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**220**	**B**	2.0	0.73	mg/Kg		01/10/19 11:41	01/17/19 05:36	1
Motor Oil Range Organics [C24-C36]	**330**		49	9.8	mg/Kg		01/10/19 11:41	01/17/19 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*70*		*40 - 130*	*01/10/19 11:41*	*01/17/19 05:36*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/10/19 15:34	01/14/19 01:07	1
Toxaphene	ND		40	6.8	ug/Kg		01/10/19 15:34	01/14/19 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*21 - 136*	*01/10/19 15:34*	*01/14/19 01:07*	*1*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/10/19 15:34*	*01/14/19 01:07*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:01	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:01	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:01	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:01	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:01	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:01	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:01	1

Client Sample ID: DG-AI7S-8-8.5

Date Collected: 01/09/19 10:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*01/14/19 14:13*	*01/16/19 14:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	30		4.2	0.69	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Arsenic	31		8.3	0.71	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Barium	870		4.2	0.59	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Beryllium	0.74	J	0.83	0.27	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Cadmium	2.2		1.0	0.10	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Chromium	39		4.2	0.44	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Cobalt	17		1.7	0.17	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Copper	1700		13	5.9	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Lead	4400	B	4.2	0.88	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Molybdenum	4.3		4.2	0.53	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Nickel	41		4.2	0.43	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Selenium	5.9	J	8.3	1.3	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Silver	4.2		2.1	0.42	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Thallium	1.3	J	4.2	1.2	mg/Kg		01/10/19 09:21	01/15/19 20:00	10
Vanadium	27		4.2	0.57	mg/Kg		01/10/19 09:21	01/15/19 12:22	10
Zinc	1600		13	5.3	mg/Kg		01/10/19 09:21	01/15/19 12:22	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.015	0.0022	mg/Kg		01/22/19 09:47	01/22/19 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.1		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AK7S-0.5-1

Date Collected: 01/09/19 10:25
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		77	54	ug/Kg		01/13/19 15:29	01/13/19 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/13/19 15:29*	*01/13/19 19:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/13/19 15:29*	*01/13/19 19:53*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/13/19 15:29*	*01/13/19 19:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,1,1-Trichloroethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.8	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,1,2-Trichloroethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,1-Dichloroethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,1-Dichloropropene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,2,3-Trichlorobenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,2,3-Trichloropropane	ND		7.7	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,2,4-Trichlorobenzene	ND		3.8	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,2,4-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,2-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,2-Dichloroethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,2-Dichloropropane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,3,5-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,3-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,3-Dichloropropane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
1,4-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
2,2-Dichloropropane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
2-Butanone (MEK)	ND		7.7	3.8	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
2-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
2-Hexanone	ND		7.7	3.8	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
4-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
4-Isopropyltoluene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Benzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Bromobenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Bromoform	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Bromomethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Chlorobenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Chlorodibromomethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Chloroethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Chloroform	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Chloromethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
cis-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1

Client Sample ID: DG-AK7S-0.5-1

Date Collected: 01/09/19 10:25
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Dibromomethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Dichlorobromomethane	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Ethylbenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Ethylene Dibromide	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Hexachlorobutadiene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Isopropylbenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Methylene Chloride	ND		7.7	3.8	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Naphthalene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
n-Butylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
N-Propylbenzene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
sec-Butylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Styrene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
tert-Butylbenzene	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Tetrachloroethene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Toluene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
trans-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
trans-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Trichloroethene	ND		0.77	0.38	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		01/13/19 15:29	01/13/19 19:53	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		01/13/19 15:29	01/13/19 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*	*01/13/19 15:29*	*01/13/19 19:53*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/13/19 15:29*	*01/13/19 19:53*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**45**	**J**	49	25	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Acenaphthene	**15**	**J**	25	14	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Acenaphthylene	**29**		25	12	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Anthracene	**53**		25	9.8	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Benzo[a]anthracene	**200**		25	7.4	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Benzo[a]pyrene	**280**		25	9.3	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Benzo[b]fluoranthene	**430**		25	10	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Benzo[g,h,i]perylene	**120**		25	21	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Benzo[k]fluoranthene	**180**		25	10	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Chrysene	**310**		25	6.9	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Dibenz(a,h)anthracene	**35**		25	17	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Fluoranthene	**310**		25	6.9	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Fluorene	**12**	**J**	25	11	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Indeno[1,2,3-cd]pyrene	**100**		25	21	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Naphthalene	**45**		25	17	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Phenanthrene	**210**		25	8.9	ug/Kg		01/15/19 10:12	01/21/19 21:25	5
Pyrene	**370**		25	8.4	ug/Kg		01/15/19 10:12	01/21/19 21:25	5

Client Sample ID: DG-AK7S-0.5-1

Date Collected: 01/09/19 10:25
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-15

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		33 - 120	01/15/19 10:12	01/21/19 21:25	5
Terphenyl-d14	104		35 - 146	01/15/19 10:12	01/21/19 21:25	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**200**	**B**	2.0	0.74	mg/Kg		01/10/19 11:41	01/17/19 05:09	1
Motor Oil Range Organics [C24-C36]	**360**		49	9.8	mg/Kg		01/10/19 11:41	01/17/19 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	74		40 - 130	01/10/19 11:41	01/17/19 05:09	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**19**	**p**	2.0	0.61	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
4,4'-DDE	**18**	**p**	2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
4,4'-DDT	**32**	**p**	2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Dieldrin	**22**	**p**	2.0	0.59	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Endrin	**30**	**p**	2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/10/19 15:34	01/14/19 01:24	1
Toxaphene	ND		40	6.8	ug/Kg		01/10/19 15:34	01/14/19 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	112	p	21 - 136	01/10/19 15:34	01/14/19 01:24	1
Tetrachloro-m-xylene	78		21 - 145	01/10/19 15:34	01/14/19 01:24	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:52	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:52	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:52	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:52	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	108		45 - 120	01/14/19 14:13	01/15/19 21:52	1

Client Sample ID: DG-AK7S-0.5-1

Date Collected: 01/09/19 10:25
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-15

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND		250	84	ug/Kg		01/14/19 14:13	01/16/19 15:50	5
Aroclor 1260	**940**		250	84	ug/Kg		01/14/19 14:13	01/16/19 15:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*45 - 120*	*01/14/19 14:13*	*01/16/19 15:50*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**23**		5.0	0.82	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Arsenic	**19**		9.9	0.84	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Barium	**270**		5.0	0.70	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Beryllium	**0.33**	**J**	0.99	0.32	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Cadmium	**8.1**		1.2	0.12	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Chromium	**140**		5.0	0.52	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Cobalt	**38**		2.0	0.20	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Copper	**690**		15	7.1	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Lead	**960**	**B**	5.0	1.0	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Molybdenum	**28**		5.0	0.63	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Nickel	**120**		5.0	0.50	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Selenium	**1.6**	**J**	9.9	1.5	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Silver	**1.1**	**J**	2.5	0.50	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Thallium	**1.7**	**J**	5.0	1.4	mg/Kg		01/10/19 09:21	01/15/19 20:05	10
Vanadium	**38**		5.0	0.67	mg/Kg		01/10/19 09:21	01/15/19 12:27	10
Zinc	**1400**		15	6.3	mg/Kg		01/10/19 09:21	01/15/19 12:27	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.3**		0.066	0.0097	mg/Kg		01/22/19 09:47	01/22/19 13:16	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AK7S-3.5-4

Date Collected: 01/09/19 10:27
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		97	68	ug/Kg		01/13/19 15:29	01/13/19 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/13/19 15:29*	*01/13/19 20:17*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/13/19 15:29*	*01/13/19 20:17*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/13/19 15:29*	*01/13/19 20:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,1,1-Trichloroethane	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	4.9	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,1,2-Trichloroethane	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,1-Dichloroethane	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,1-Dichloroethene	ND		1.9	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,1-Dichloropropene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,2,3-Trichlorobenzene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,2,3-Trichloropropane	ND		9.7	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,2,4-Trichlorobenzene	ND		4.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,2,4-Trimethylbenzene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,2-Dibromo-3-Chloropropane	ND		4.9	1.9	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,2-Dichlorobenzene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,2-Dichloroethane	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,2-Dichloropropane	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,3,5-Trimethylbenzene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,3-Dichlorobenzene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,3-Dichloropropane	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
1,4-Dichlorobenzene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
2,2-Dichloropropane	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
2-Butanone (MEK)	**20**		9.7	4.9	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
2-Chlorotoluene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
2-Hexanone	ND		9.7	4.9	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
4-Chlorotoluene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
4-Isopropyltoluene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
4-Methyl-2-pentanone (MIBK)	ND		4.9	2.4	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Benzene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Bromobenzene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Bromoform	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Bromomethane	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Carbon disulfide	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Carbon tetrachloride	ND		1.9	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Chlorobenzene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Chlorobromomethane	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Chlorodibromomethane	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Chloroethane	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Chloroform	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Chloromethane	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
cis-1,2-Dichloroethene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1

Client Sample ID: DG-AK7S-3.5-4

Date Collected: 01/09/19 10:27
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-16

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Dibromomethane	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Dichlorobromomethane	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Dichlorodifluoromethane	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Ethylbenzene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Ethylene Dibromide	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Hexachlorobutadiene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Isopropylbenzene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Methyl tert-butyl ether	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Methylene Chloride	ND		9.7	4.9	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Naphthalene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
n-Butylbenzene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
N-Propylbenzene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
sec-Butylbenzene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Styrene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
tert-Butylbenzene	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Tetrachloroethene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Toluene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
trans-1,2-Dichloroethene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
trans-1,3-Dichloropropene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Trichloroethene	ND		0.97	0.49	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Trichlorofluoromethane	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Vinyl acetate	ND		7.8	3.9	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Vinyl chloride	ND		1.9	0.97	ug/Kg		01/13/19 15:29	01/13/19 20:17	1
Xylenes, Total	ND		1.9	1.3	ug/Kg		01/13/19 15:29	01/13/19 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*	*01/13/19 15:29*	*01/13/19 20:17*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/13/19 15:29*	*01/13/19 20:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**22**		9.7	4.9	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Acenaphthylene	**3.2**	**J**	4.9	2.3	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Anthracene	**5.9**		4.9	1.9	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Benzo[a]anthracene	**7.1**		4.9	1.5	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Benzo[a]pyrene	**4.8**	**J**	4.9	1.8	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Benzo[b]fluoranthene	**11**		4.9	2.0	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Benzo[k]fluoranthene	**3.4**	**J**	4.9	2.0	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Chrysene	**12**		4.9	1.4	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Fluoranthene	**19**		4.9	1.4	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Fluorene	**2.9**	**J**	4.9	2.1	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Naphthalene	**26**		4.9	3.4	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Phenanthrene	**33**		4.9	1.7	ug/Kg		01/15/19 10:12	01/21/19 16:19	1
Pyrene	**18**		4.9	1.7	ug/Kg		01/15/19 10:12	01/21/19 16:19	1

Client Sample ID: DG-AK7S-3.5-4

Date Collected: 01/09/19 10:27
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*33 - 120*	*01/15/19 10:12*	*01/21/19 16:19*	*1*
Terphenyl-d14	*86*		*35 - 146*	*01/15/19 10:12*	*01/21/19 16:19*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		2.0	0.74	mg/Kg		01/11/19 13:46	01/16/19 20:20	1
Motor Oil Range Organics [C24-C36]	72		49	9.8	mg/Kg		01/11/19 13:46	01/16/19 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*89*		*40 - 130*	*01/11/19 13:46*	*01/16/19 20:20*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 01:42	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 15:34	01/14/19 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*21 - 136*	*01/10/19 15:34*	*01/14/19 01:42*	*1*
Tetrachloro-m-xylene	*83*		*21 - 145*	*01/10/19 15:34*	*01/14/19 01:42*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:15	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:15	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:15	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:15	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:15	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:15	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 14:15	1

Client Sample ID: DG-AK7S-3.5-4

Date Collected: 01/09/19 10:27
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*01/14/19 14:13*	*01/16/19 14:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.4		1.9	0.32	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Arsenic	4.8		3.8	0.32	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Barium	140		1.9	0.27	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Beryllium	0.14	J	0.38	0.12	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Cadmium	0.30	J	0.48	0.047	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Chromium	15		1.9	0.20	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Cobalt	5.8		0.76	0.076	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Copper	77		5.7	2.7	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Lead	290	B	1.9	0.40	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Molybdenum	0.61	J	1.9	0.24	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Nickel	18		1.9	0.19	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Selenium	0.65	J	3.8	0.57	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Silver	0.34	J	0.95	0.19	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Thallium	ND		1.9	0.55	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Vanadium	26		1.9	0.26	mg/Kg		01/10/19 09:21	01/14/19 16:44	4
Zinc	230		5.7	2.4	mg/Kg		01/10/19 09:21	01/14/19 16:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.016	0.0024	mg/Kg		01/22/19 09:47	01/22/19 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.5		0.1	0.05	%			01/10/19 14:05	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DUP-48

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-17

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		88	62	ug/Kg		01/13/19 15:29	01/13/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/13/19 15:29*	*01/13/19 20:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/13/19 15:29*	*01/13/19 20:41*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/13/19 15:29*	*01/13/19 20:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
2-Butanone (MEK)	**22**		8.8	4.4	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
2-Hexanone	ND		8.8	4.4	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Benzene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Bromobenzene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Bromoform	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Bromomethane	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Chloroethane	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Chloroform	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Chloromethane	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1

Client Sample ID: DUP-48

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-17

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Dibromomethane	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Naphthalene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Styrene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Tetrachloroethene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Toluene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Trichloroethene	ND		0.88	0.44	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		01/13/19 15:29	01/13/19 20:41	1
Xylenes, Total	ND		1.8	1.1	ug/Kg		01/13/19 15:29	01/13/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*	*01/13/19 15:29*	*01/13/19 20:41*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/13/19 15:29*	*01/13/19 20:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**46**		9.6	4.8	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Acenaphthylene	**2.5**	**J**	4.8	2.3	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Anthracene	**5.1**		4.8	1.9	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Benzo[a]anthracene	**8.0**		4.8	1.4	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Benzo[a]pyrene	**5.7**		4.8	1.8	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Benzo[b]fluoranthene	**12**		4.8	2.0	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Benzo[g,h,i]perylene	ND		4.8	4.1	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Benzo[k]fluoranthene	**3.5**	**J**	4.8	2.0	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Chrysene	**13**		4.8	1.3	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Fluoranthene	**12**		4.8	1.3	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Fluorene	**2.1**	**J**	4.8	2.1	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.0	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Naphthalene	**35**		4.8	3.4	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Phenanthrene	**21**		4.8	1.7	ug/Kg		01/15/19 10:12	01/21/19 16:43	1
Pyrene	**14**		4.8	1.6	ug/Kg		01/15/19 10:12	01/21/19 16:43	1

Client Sample ID: DUP-48

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*01/15/19 10:12*	*01/21/19 16:43*	*1*
Terphenyl-d14	*93*		*35 - 146*	*01/15/19 10:12*	*01/21/19 16:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**		1.9	0.72	mg/Kg		01/11/19 13:46	01/16/19 20:49	1
Motor Oil Range Organics [C24-C36]	**56**		48	9.6	mg/Kg		01/11/19 13:46	01/16/19 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*99*		*40 - 130*	*01/11/19 13:46*	*01/16/19 20:49*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/10/19 15:34	01/14/19 01:59	1
Toxaphene	ND		40	6.8	ug/Kg		01/10/19 15:34	01/14/19 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*21 - 136*	*01/10/19 15:34*	*01/14/19 01:59*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/10/19 15:34*	*01/14/19 01:59*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:28	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:28	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:28	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:28	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:28	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:28	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:28	1

Client Sample ID: DUP-48

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*01/14/19 14:13*	*01/16/19 14:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.76	J	1.3	0.21	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Arsenic	3.0		2.5	0.22	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Barium	65		1.3	0.18	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Beryllium	0.12	J	0.25	0.083	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Cadmium	0.096	J	0.32	0.032	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Chromium	13		1.3	0.14	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Cobalt	4.4		0.51	0.051	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Copper	20		3.8	1.8	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Lead	44	B	1.3	0.27	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Molybdenum	0.37	J	1.3	0.16	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Nickel	14		1.3	0.13	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Selenium	0.57	J	2.5	0.38	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Silver	0.18	J	0.64	0.13	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Thallium	ND		1.3	0.37	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Vanadium	24		1.3	0.17	mg/Kg		01/10/19 09:21	01/14/19 16:48	4
Zinc	58		3.8	1.6	mg/Kg		01/10/19 09:21	01/14/19 16:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.014	0.0021	mg/Kg		01/22/19 09:47	01/22/19 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1	0.05	%			01/10/19 14:05	1

Client Sample ID: DG-AM7S-0.5-1

Date Collected: 01/09/19 10:55
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-18

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		63	44	ug/Kg		01/13/19 15:29	01/13/19 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/13/19 15:29*	*01/13/19 21:05*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/13/19 15:29*	*01/13/19 21:05*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/13/19 15:29*	*01/13/19 21:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,1,1-Trichloroethane	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3	3.2	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,1,2-Trichloroethane	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,1-Dichloroethane	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,1-Dichloropropene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,2,3-Trichlorobenzene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,2,3-Trichloropropane	ND		6.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,2,4-Trichlorobenzene	ND		3.2	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,2,4-Trimethylbenzene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,2-Dichlorobenzene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,2-Dichloroethane	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,2-Dichloropropane	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,3,5-Trimethylbenzene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,3-Dichlorobenzene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,3-Dichloropropane	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
1,4-Dichlorobenzene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
2,2-Dichloropropane	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
2-Butanone (MEK)	ND		6.3	3.2	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
2-Chlorotoluene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
2-Hexanone	ND		6.3	3.2	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
4-Chlorotoluene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
4-Isopropyltoluene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Benzene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Bromobenzene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Bromoform	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Bromomethane	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Carbon disulfide	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Chlorobenzene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Chlorobromomethane	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Chlorodibromomethane	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Chloroethane	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Chloroform	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Chloromethane	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
cis-1,2-Dichloroethene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1

Client Sample ID: DG-AM7S-0.5-1

Date Collected: 01/09/19 10:55
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-18

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Dibromomethane	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Dichlorobromomethane	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Dichlorodifluoromethane	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Ethylbenzene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Ethylene Dibromide	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Hexachlorobutadiene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Isopropylbenzene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Methyl tert-butyl ether	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Methylene Chloride	ND		6.3	3.2	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Naphthalene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
n-Butylbenzene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
N-Propylbenzene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
sec-Butylbenzene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Styrene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
tert-Butylbenzene	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Tetrachloroethene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Toluene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
trans-1,2-Dichloroethene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
trans-1,3-Dichloropropene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Trichloroethene	ND		0.63	0.32	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Trichlorofluoromethane	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Vinyl acetate	ND		5.1	2.5	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Vinyl chloride	ND		1.3	0.63	ug/Kg		01/13/19 15:29	01/13/19 21:05	1
Xylenes, Total	ND		1.3	0.82	ug/Kg		01/13/19 15:29	01/13/19 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*01/13/19 15:29*	*01/13/19 21:05*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/13/19 15:29*	*01/13/19 21:05*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**54**		47	24	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Acenaphthene	**16**	**J**	24	13	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Acenaphthylene	**93**		24	11	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Anthracene	**120**		24	9.4	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Benzo[a]anthracene	**210**		24	7.1	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Benzo[a]pyrene	**260**		24	8.9	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Benzo[b]fluoranthene	**360**		24	9.9	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Benzo[g,h,i]perylene	**120**		24	20	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Benzo[k]fluoranthene	**160**		24	9.9	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Chrysene	**240**	*	24	6.6	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Dibenz(a,h)anthracene	**25**		24	16	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Fluoranthene	**300**		24	6.6	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Fluorene	**13**	**J**	24	10	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Indeno[1,2,3-cd]pyrene	**85**		24	20	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Naphthalene	**66**		24	16	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Phenanthrene	**190**		24	8.5	ug/Kg		01/15/19 15:04	01/21/19 21:49	5
Pyrene	**570**		24	8.0	ug/Kg		01/15/19 15:04	01/21/19 21:49	5

Client Sample ID: DG-AM7S-0.5-1

Date Collected: 01/09/19 10:55
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*01/15/19 15:04*	*01/21/19 21:49*	*5*
Terphenyl-d14	*86*		*35 - 146*	*01/15/19 15:04*	*01/21/19 21:49*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**		3.8	1.4	mg/Kg		01/11/19 13:46	01/17/19 03:34	2
Motor Oil Range Organics [C24-C36]	**440**		94	19	mg/Kg		01/11/19 13:46	01/17/19 03:34	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*40 - 130*	*01/11/19 13:46*	*01/17/19 03:34*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**7.0**	**p**	2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
4,4'-DDE	**6.1**		2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
4,4'-DDT	**23**	**p**	2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
alpha-Chlordane	**2.2**		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Dieldrin	**28**	**p**	2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
gamma-Chlordane	**2.5**		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 02:17	1
Toxaphene	ND		40	6.7	ug/Kg		01/10/19 15:34	01/14/19 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*1378*	*X*	*21 - 136*	*01/10/19 15:34*	*01/14/19 02:17*	*1*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/10/19 15:34*	*01/14/19 02:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 22:35	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 22:35	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 22:35	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 22:35	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 22:35	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/15/19 22:35	1

Client Sample ID: DG-AM7S-0.5-1

Date Collected: 01/09/19 10:55
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*800*	*X*	*45 - 120*	*01/14/19 14:13*	*01/15/19 22:35*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	**430**		97	33	ug/Kg		01/14/19 14:13	01/16/19 16:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*571*	*X*	*45 - 120*	*01/14/19 14:13*	*01/16/19 16:03*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**13**		1.7	0.28	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Arsenic	**15**		3.4	0.29	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Barium	**280**		1.7	0.24	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Beryllium	**0.18**	**J**	0.34	0.11	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Cadmium	**8.0**		0.43	0.042	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Chromium	**58**		1.7	0.18	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Cobalt	**15**		0.68	0.068	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Copper	**490**		5.1	2.4	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Lead	**930**	**B**	1.7	0.36	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Molybdenum	**9.3**		1.7	0.22	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Nickel	**89**		1.7	0.17	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Selenium	**3.4**		3.4	0.51	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Silver	**0.79**	**J**	0.85	0.17	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Thallium	ND		1.7	0.50	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Vanadium	**35**		1.7	0.23	mg/Kg		01/10/19 09:21	01/14/19 16:53	4
Zinc	**1400**		5.1	2.2	mg/Kg		01/10/19 09:21	01/14/19 16:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.90**		0.015	0.0022	mg/Kg		01/22/19 09:47	01/22/19 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.05	%			01/10/19 13:33	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AM7S-3.5-4

Date Collected: 01/09/19 10:57
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-19

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		92	64	ug/Kg		01/13/19 15:29	01/13/19 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/13/19 15:29*	*01/13/19 21:28*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/13/19 15:29*	*01/13/19 21:28*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/13/19 15:29*	*01/13/19 21:28*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,1,1-Trichloroethane	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.2	4.6	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,1,2-Trichloroethane	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,1-Dichloroethane	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,1-Dichloroethene	ND		1.8	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,1-Dichloropropene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,2,3-Trichlorobenzene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,2,3-Trichloropropane	ND		9.2	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,2,4-Trichlorobenzene	ND		4.6	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,2,4-Trimethylbenzene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,2-Dibromo-3-Chloropropane	ND		4.6	1.8	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,2-Dichlorobenzene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,2-Dichloroethane	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,2-Dichloropropane	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,3,5-Trimethylbenzene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,3-Dichlorobenzene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,3-Dichloropropane	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
1,4-Dichlorobenzene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
2,2-Dichloropropane	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
2-Butanone (MEK)	ND		9.2	4.6	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
2-Chlorotoluene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
2-Hexanone	ND		9.2	4.6	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
4-Chlorotoluene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
4-Isopropyltoluene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
4-Methyl-2-pentanone (MIBK)	ND		4.6	2.3	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Benzene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Bromobenzene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Bromoform	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Bromomethane	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Carbon disulfide	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Carbon tetrachloride	ND		1.8	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Chlorobenzene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Chlorobromomethane	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Chlorodibromomethane	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Chloroethane	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Chloroform	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Chloromethane	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
cis-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1

Client Sample ID: DG-AM7S-3.5-4

Date Collected: 01/09/19 10:57
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-19

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Dibromomethane	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Dichlorobromomethane	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Dichlorodifluoromethane	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Ethylbenzene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Ethylene Dibromide	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Hexachlorobutadiene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Isopropylbenzene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Methyl tert-butyl ether	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Methylene Chloride	ND		9.2	4.6	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Naphthalene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
n-Butylbenzene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
N-Propylbenzene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
sec-Butylbenzene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Styrene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
tert-Butylbenzene	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Tetrachloroethene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Toluene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
trans-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
trans-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Trichloroethene	ND		0.92	0.46	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Trichlorofluoromethane	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Vinyl acetate	ND		7.4	3.7	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Vinyl chloride	ND		1.8	0.92	ug/Kg		01/13/19 15:29	01/13/19 21:28	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/13/19 15:29	01/13/19 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*127*		*70 - 130*	*01/13/19 15:29*	*01/13/19 21:28*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/13/19 15:29*	*01/13/19 21:28*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**27**		9.6	4.8	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Acenaphthylene	**2.4**	**J**	4.8	2.3	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Anthracene	**7.9**		4.8	1.9	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Benzo[a]anthracene	**6.6**		4.8	1.4	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Benzo[a]pyrene	**5.2**		4.8	1.8	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Benzo[b]fluoranthene	**14**		4.8	2.0	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Benzo[g,h,i]perylene	**11**		4.8	4.1	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Benzo[k]fluoranthene	**5.0**		4.8	2.0	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Chrysene	**13**	*	4.8	1.3	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Fluoranthene	**14**		4.8	1.3	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Fluorene	**3.8**	**J**	4.8	2.1	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Indeno[1,2,3-cd]pyrene	**7.1**		4.8	4.0	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Naphthalene	**25**		4.8	3.4	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Phenanthrene	**26**		4.8	1.7	ug/Kg		01/15/19 15:04	01/18/19 13:43	1
Pyrene	**12**		4.8	1.6	ug/Kg		01/15/19 15:04	01/18/19 13:43	1

Client Sample ID: DG-AM7S-3.5-4

Date Collected: 01/09/19 10:57
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*33 - 120*	*01/15/19 15:04*	*01/18/19 13:43*	*1*
Terphenyl-d14	*80*		*35 - 146*	*01/15/19 15:04*	*01/18/19 13:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		1.9	0.72	mg/Kg		01/11/19 13:46	01/17/19 00:44	1
Motor Oil Range Organics [C24-C36]	**66**		48	9.6	mg/Kg		01/11/19 13:46	01/17/19 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*40 - 130*	*01/11/19 13:46*	*01/17/19 00:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/10/19 15:34	01/14/19 02:34	1
Toxaphene	ND		40	6.8	ug/Kg		01/10/19 15:34	01/14/19 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*01/10/19 15:34*	*01/14/19 02:34*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/10/19 15:34*	*01/14/19 02:34*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:42	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:42	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:42	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:42	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:42	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:42	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:13	01/16/19 14:42	1

Client Sample ID: DG-AM7S-3.5-4

Date Collected: 01/09/19 10:57
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*01/14/19 14:13*	*01/16/19 14:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**	**J**	1.5	0.26	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Arsenic	**4.9**		3.1	0.26	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Barium	**96**		1.5	0.22	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Beryllium	**0.19**	**J**	0.31	0.10	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Cadmium	**0.58**		0.38	0.038	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Chromium	**15**		1.5	0.16	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Cobalt	**5.4**		0.62	0.062	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Copper	**43**		4.6	2.2	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Lead	**120**	**B**	1.5	0.32	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Molybdenum	**0.53**	**J**	1.5	0.20	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Nickel	**14**		1.5	0.16	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Selenium	**0.69**	**J**	3.1	0.46	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Silver	**0.18**	**J**	0.77	0.16	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Thallium	ND		1.5	0.45	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Vanadium	**32**		1.5	0.21	mg/Kg		01/10/19 09:21	01/14/19 16:58	4
Zinc	**130**		4.6	2.0	mg/Kg		01/10/19 09:21	01/14/19 16:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.017	0.0025	mg/Kg		01/22/19 09:47	01/22/19 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.6**		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AM7S-7.5-8

Date Collected: 01/09/19 11:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		84	59	ug/Kg		01/13/19 15:29	01/13/19 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/13/19 15:29*	*01/13/19 21:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/13/19 15:29*	*01/13/19 21:52*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/13/19 15:29*	*01/13/19 21:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,1,1-Trichloroethane	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.4	4.2	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,1,2-Trichloroethane	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,1-Dichloroethane	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,1-Dichloropropene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,2,3-Trichlorobenzene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,2,3-Trichloropropane	ND		8.4	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,2,4-Trichlorobenzene	ND		4.2	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,2,4-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,2-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,2-Dichloroethane	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,2-Dichloropropane	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,3,5-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,3-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,3-Dichloropropane	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
1,4-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
2,2-Dichloropropane	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
2-Butanone (MEK)	ND		8.4	4.2	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
2-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
2-Hexanone	ND		8.4	4.2	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
4-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
4-Isopropyltoluene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Benzene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Bromobenzene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Bromoform	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Bromomethane	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Carbon disulfide	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Chlorobenzene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Chlorobromomethane	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Chlorodibromomethane	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Chloroethane	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Chloroform	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Chloromethane	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
cis-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1

Client Sample ID: DG-AM7S-7.5-8

Date Collected: 01/09/19 11:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-20

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Dibromomethane	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Dichlorobromomethane	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Dichlorodifluoromethane	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Ethylbenzene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Ethylene Dibromide	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Hexachlorobutadiene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Isopropylbenzene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Methyl tert-butyl ether	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Methylene Chloride	ND		8.4	4.2	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Naphthalene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
n-Butylbenzene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
N-Propylbenzene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
sec-Butylbenzene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Styrene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
tert-Butylbenzene	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Tetrachloroethene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Toluene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
trans-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
trans-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Trichloroethene	ND		0.84	0.42	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Trichlorofluoromethane	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Vinyl acetate	ND		6.7	3.4	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Vinyl chloride	ND		1.7	0.84	ug/Kg		01/13/19 15:29	01/13/19 21:52	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/13/19 15:29	01/13/19 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*	*01/13/19 15:29*	*01/13/19 21:52*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/13/19 15:29*	*01/13/19 21:52*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**55**		9.9	4.9	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Acenaphthylene	**5.5**		4.9	2.4	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Anthracene	**9.2**		4.9	2.0	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Benzo[a]anthracene	**13**		4.9	1.5	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Benzo[a]pyrene	**40**		4.9	1.9	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Benzo[b]fluoranthene	**66**		4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Benzo[g,h,i]perylene	**80**		4.9	4.3	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Benzo[k]fluoranthene	**18**		4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Chrysene	**30**	*	4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Dibenz(a,h)anthracene	**16**		4.9	3.5	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Fluoranthene	**34**		4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Fluorene	**11**		4.9	2.2	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Indeno[1,2,3-cd]pyrene	**55**		4.9	4.2	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Naphthalene	**90**		4.9	3.5	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Phenanthrene	**88**		4.9	1.8	ug/Kg		01/15/19 15:04	01/19/19 13:34	1
Pyrene	**39**		4.9	1.7	ug/Kg		01/15/19 15:04	01/19/19 13:34	1

Client Sample ID: DG-AM7S-7.5-8

Date Collected: 01/09/19 11:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*01/15/19 15:04*	*01/19/19 13:34*	*1*
Terphenyl-d14	*112*		*35 - 146*	*01/15/19 15:04*	*01/19/19 13:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	42		1.9	0.73	mg/Kg		01/11/19 13:46	01/17/19 00:19	1
Motor Oil Range Organics [C24-C36]	67		49	9.7	mg/Kg		01/11/19 13:46	01/17/19 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*99*		*40 - 130*	*01/11/19 13:46*	*01/17/19 00:19*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/10/19 15:34	01/14/19 13:26	1
Toxaphene	ND		39	6.6	ug/Kg		01/10/19 15:34	01/14/19 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*21 - 136*	*01/10/19 15:34*	*01/14/19 13:26*	*1*
Tetrachloro-m-xylene	*101*		*21 - 145*	*01/10/19 15:34*	*01/14/19 13:26*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/20/19 19:59	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/20/19 19:59	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/20/19 19:59	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/20/19 19:59	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/20/19 19:59	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/20/19 19:59	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:16	01/20/19 19:59	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AM7S-7.5-8
Date Collected: 01/09/19 11:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-20
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*36*	*X*	*45 - 120*	*01/14/19 14:16*	*01/20/19 19:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	14		3.6	0.60	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Arsenic	43		7.2	0.62	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Barium	420		3.6	0.51	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Beryllium	0.67	J	0.72	0.24	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Cadmium	0.82	J	0.91	0.090	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Chromium	60		3.6	0.38	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Cobalt	13		1.4	0.14	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Copper	470		11	5.2	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Lead	28000	B	36	7.6	mg/Kg		01/10/19 09:21	01/15/19 12:36	100
Molybdenum	3.2	J	3.6	0.46	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Nickel	48		3.6	0.37	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Selenium	3.3	J	7.2	1.1	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Silver	3.7		1.8	0.37	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Thallium	ND		3.6	1.1	mg/Kg		01/10/19 09:21	01/15/19 20:10	10
Vanadium	24		3.6	0.49	mg/Kg		01/10/19 09:21	01/15/19 12:32	10
Zinc	990		110	46	mg/Kg		01/10/19 09:21	01/15/19 12:36	100

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.015	0.0022	mg/Kg		01/22/19 09:47	01/22/19 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.4		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AO7S-0.5-1
Date Collected: 01/09/19 11:25
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-21
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		64	45	ug/Kg		01/09/19 19:00	01/14/19 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/09/19 19:00*	*01/14/19 12:08*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 19:00*	*01/14/19 12:08*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 19:00*	*01/14/19 12:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,1,1-Trichloroethane	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	3.2	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,1,2-Trichloroethane	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,1-Dichloroethane	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,1-Dichloropropene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,2,3-Trichlorobenzene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,2,3-Trichloropropane	ND		6.4	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,2,4-Trichlorobenzene	ND		3.2	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,2,4-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,2-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,2-Dichloroethane	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,2-Dichloropropane	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,3,5-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,3-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,3-Dichloropropane	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
1,4-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
2,2-Dichloropropane	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
2-Butanone (MEK)	ND		6.4	3.2	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
2-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
2-Hexanone	ND		6.4	3.2	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
4-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
4-Isopropyltoluene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Benzene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Bromobenzene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Bromoform	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Bromomethane	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Carbon disulfide	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Chlorobenzene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Chlorobromomethane	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Chlorodibromomethane	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Chloroethane	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Chloroform	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Chloromethane	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
cis-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1

Client Sample ID: DG-AO7S-0.5-1

Date Collected: 01/09/19 11:25
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-21

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Dibromomethane	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Dichlorobromomethane	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Dichlorodifluoromethane	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Ethylbenzene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Ethylene Dibromide	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Hexachlorobutadiene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Isopropylbenzene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Methyl tert-butyl ether	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Methylene Chloride	ND		6.4	3.2	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Naphthalene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
n-Butylbenzene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
N-Propylbenzene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
sec-Butylbenzene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Styrene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
tert-Butylbenzene	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Tetrachloroethene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Toluene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
trans-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
trans-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Trichloroethene	ND		0.64	0.32	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Trichlorofluoromethane	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Vinyl acetate	ND		5.2	2.6	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Vinyl chloride	ND		1.3	0.64	ug/Kg		01/09/19 19:00	01/14/19 12:08	1
Xylenes, Total	ND		1.3	0.84	ug/Kg		01/09/19 19:00	01/14/19 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*	*01/09/19 19:00*	*01/14/19 12:08*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 19:00*	*01/14/19 12:08*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**20**		9.9	4.9	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Acenaphthene	**29**		4.9	2.8	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Acenaphthylene	**23**		4.9	2.4	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Anthracene	**35**		4.9	2.0	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Benzo[a]anthracene	**93**		4.9	1.5	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Benzo[a]pyrene	**140**		4.9	1.9	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Benzo[b]fluoranthene	**160**		4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Benzo[g,h,i]perylene	**120**		4.9	4.3	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Benzo[k]fluoranthene	**72**		4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Chrysene	**140**	*	4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Dibenz(a,h)anthracene	**25**		4.9	3.5	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Fluoranthene	**170**		4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Fluorene	**7.1**		4.9	2.2	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Indeno[1,2,3-cd]pyrene	**87**		4.9	4.2	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Naphthalene	**20**		4.9	3.5	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Phenanthrene	**97**		4.9	1.8	ug/Kg		01/15/19 15:04	01/19/19 13:58	1
Pyrene	**200**		4.9	1.7	ug/Kg		01/15/19 15:04	01/19/19 13:58	1

Client Sample ID: DG-AO7S-0.5-1

Date Collected: 01/09/19 11:25
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*01/15/19 15:04*	*01/19/19 13:58*	*1*
Terphenyl-d14	*104*		*35 - 146*	*01/15/19 15:04*	*01/19/19 13:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**38**		2.0	0.73	mg/Kg		01/11/19 13:46	01/17/19 01:57	1
Motor Oil Range Organics [C24-C36]	**110**		49	9.8	mg/Kg		01/11/19 13:46	01/17/19 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*105*		*40 - 130*	*01/11/19 13:46*	*01/17/19 01:57*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**2.8**	**p**	2.0	0.61	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
4,4'-DDE	**3.8**	**p**	2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
4,4'-DDT	**6.9**	**p**	2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
alpha-Chlordane	**2.1**		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Chlordane (technical)	**46**		40	3.2	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
gamma-Chlordane	**2.4**		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/10/19 15:34	01/14/19 13:42	1
Toxaphene	ND		40	6.8	ug/Kg		01/10/19 15:34	01/14/19 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*21 - 136*	*01/10/19 15:34*	*01/14/19 13:42*	*1*
Tetrachloro-m-xylene	*84*		*21 - 145*	*01/10/19 15:34*	*01/14/19 13:42*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:29	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:29	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:29	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:29	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:29	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:29	1

Client Sample ID: DG-AO7S-0.5-1

Date Collected: 01/09/19 11:25
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*113*		*45 - 120*	*01/14/19 14:16*	*01/16/19 16:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	**440**		99	34	ug/Kg		01/14/19 14:16	01/20/19 20:13	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*119*		*45 - 120*	*01/14/19 14:16*	*01/20/19 20:13*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**39**	**F1**	1.6	0.26	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Arsenic	**16**		3.2	0.27	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Barium	**350**	**F2**	1.6	0.23	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Beryllium	**0.19**	**J**	0.32	0.10	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Cadmium	**3.4**		0.40	0.039	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Chromium	**40**	**F1**	1.6	0.17	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Cobalt	**8.9**	**F1**	0.63	0.063	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Copper	**350**	**F2**	4.8	2.3	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Lead	**410**	**F2**	1.6	0.33	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Molybdenum	**3.1**		1.6	0.20	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Nickel	**67**		1.6	0.16	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Selenium	**1.5**	**J**	3.2	0.48	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Silver	**0.49**	**J**	0.79	0.16	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Thallium	ND		1.6	0.46	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Vanadium	**36**	**F1**	1.6	0.22	mg/Kg		01/10/19 10:05	01/14/19 17:45	4
Zinc	**530**	**F2**	4.8	2.0	mg/Kg		01/10/19 10:05	01/14/19 17:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**		0.015	0.0023	mg/Kg		01/22/19 09:47	01/22/19 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AO7S-3.5-4

Date Collected: 01/09/19 11:27
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-22

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		80	56	ug/Kg		01/09/19 19:00	01/14/19 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/09/19 19:00*	*01/14/19 12:32*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/09/19 19:00*	*01/14/19 12:32*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 19:00*	*01/14/19 12:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
2-Butanone (MEK)	ND		8.0	4.0	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
2-Hexanone	ND		8.0	4.0	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Benzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Bromobenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Bromoform	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Bromomethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Carbon disulfide	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Chloroethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Chloroform	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Chloromethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1

Client Sample ID: DG-AO7S-3.5-4

Date Collected: 01/09/19 11:27
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-22

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Dibromomethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Naphthalene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Styrene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Tetrachloroethene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Toluene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Trichloroethene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 12:32	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/09/19 19:00	01/14/19 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*01/09/19 19:00*	*01/14/19 12:32*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 19:00*	*01/14/19 12:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**13**		9.7	4.9	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Acenaphthylene	ND		4.9	2.3	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Anthracene	**2.6**	**J**	4.9	1.9	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Benzo[a]anthracene	**7.7**		4.9	1.5	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Benzo[a]pyrene	**9.6**		4.9	1.8	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Benzo[b]fluoranthene	**15**		4.9	2.0	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Benzo[g,h,i]perylene	**8.2**		4.9	4.2	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Benzo[k]fluoranthene	**5.8**		4.9	2.0	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Chrysene	**12**	*	4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Fluoranthene	**13**		4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Fluorene	ND		4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Indeno[1,2,3-cd]pyrene	**6.2**		4.9	4.1	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Naphthalene	**9.4**		4.9	3.4	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Phenanthrene	**8.8**		4.9	1.7	ug/Kg		01/15/19 15:04	01/19/19 14:22	1
Pyrene	**12**		4.9	1.7	ug/Kg		01/15/19 15:04	01/19/19 14:22	1

Client Sample ID: DG-AO7S-3.5-4

Date Collected: 01/09/19 11:27
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-22

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		33 - 120	01/15/19 15:04	01/19/19 14:22	1
Terphenyl-d14	98		35 - 146	01/15/19 15:04	01/19/19 14:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	44		3.9	1.5	mg/Kg		01/11/19 13:46	01/17/19 02:21	2
Motor Oil Range Organics [C24-C36]	150		99	20	mg/Kg		01/11/19 13:46	01/17/19 02:21	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	104		40 - 130	01/11/19 13:46	01/17/19 02:21	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/10/19 15:34	01/14/19 13:59	1
Toxaphene	ND		40	6.8	ug/Kg		01/10/19 15:34	01/14/19 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		21 - 136	01/10/19 15:34	01/14/19 13:59	1
Tetrachloro-m-xylene	81		21 - 145	01/10/19 15:34	01/14/19 13:59	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:44	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:44	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:44	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:44	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:44	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:44	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:44	1

Client Sample ID: DG-AO7S-3.5-4

Date Collected: 01/09/19 11:27
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-22

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*01/14/19 14:16*	*01/16/19 16:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.9**		1.2	0.21	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Arsenic	**3.5**		2.5	0.21	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Barium	**61**		1.2	0.18	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Beryllium	**0.11**	**J**	0.25	0.081	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Cadmium	**0.099**	**J**	0.31	0.031	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Chromium	**13**		1.2	0.13	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Cobalt	**5.6**		0.50	0.050	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Copper	**15**		3.7	1.8	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Lead	**350**		1.2	0.26	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Molybdenum	**0.34**	**J**	1.2	0.16	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Nickel	**17**		1.2	0.13	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Selenium	**0.40**	**J**	2.5	0.37	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Silver	ND		0.62	0.13	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Thallium	ND		1.2	0.36	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Vanadium	**30**		1.2	0.17	mg/Kg		01/10/19 10:05	01/14/19 17:50	4
Zinc	**39**		3.7	1.6	mg/Kg		01/10/19 10:05	01/14/19 17:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.015	0.0022	mg/Kg		01/22/19 09:47	01/22/19 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.3**		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AS7S-0.5-1

Date Collected: 01/09/19 13:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-23

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		90	63	ug/Kg		01/09/19 19:00	01/14/19 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/09/19 19:00*	*01/14/19 12:56*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 19:00*	*01/14/19 12:56*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 19:00*	*01/14/19 12:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,1,1-Trichloroethane	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.0	4.5	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,1,2-Trichloroethane	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,1-Dichloroethane	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,1-Dichloroethene	ND		1.8	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,1-Dichloropropene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,2,3-Trichlorobenzene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,2,3-Trichloropropane	ND		9.0	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,2,4-Trichlorobenzene	ND		4.5	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,2,4-Trimethylbenzene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,2-Dibromo-3-Chloropropane	ND		4.5	1.8	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,2-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,2-Dichloroethane	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,2-Dichloropropane	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,3,5-Trimethylbenzene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,3-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,3-Dichloropropane	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
1,4-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
2,2-Dichloropropane	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
2-Butanone (MEK)	ND		9.0	4.5	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
2-Chlorotoluene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
2-Hexanone	ND		9.0	4.5	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
4-Chlorotoluene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
4-Isopropyltoluene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
4-Methyl-2-pentanone (MIBK)	ND		4.5	2.3	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Benzene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Bromobenzene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Bromoform	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Bromomethane	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Carbon disulfide	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Carbon tetrachloride	ND		1.8	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Chlorobenzene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Chlorobromomethane	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Chlorodibromomethane	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Chloroethane	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Chloroform	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Chloromethane	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
cis-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1

Client Sample ID: DG-AS7S-0.5-1

Date Collected: 01/09/19 13:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-23

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Dibromomethane	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Dichlorobromomethane	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Dichlorodifluoromethane	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Ethylbenzene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Ethylene Dibromide	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Hexachlorobutadiene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Isopropylbenzene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Methyl tert-butyl ether	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Methylene Chloride	ND		9.0	4.5	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Naphthalene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
n-Butylbenzene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
N-Propylbenzene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
sec-Butylbenzene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Styrene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
tert-Butylbenzene	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Tetrachloroethene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Toluene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
trans-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
trans-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Trichloroethene	ND		0.90	0.45	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Trichlorofluoromethane	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Vinyl acetate	ND		7.2	3.6	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Vinyl chloride	ND		1.8	0.90	ug/Kg		01/09/19 19:00	01/14/19 12:56	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/09/19 19:00	01/14/19 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*	*01/09/19 19:00*	*01/14/19 12:56*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 19:00*	*01/14/19 12:56*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		390	190	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Acenaphthene	**1000**		190	110	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Acenaphthylene	**130**	**J**	190	93	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Anthracene	**3800**		190	77	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Benzo[a]anthracene	**12000**		190	58	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Benzo[a]pyrene	**7900**		190	73	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Benzo[b]fluoranthene	**13000**		190	81	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Benzo[g,h,i]perylene	**2000**		190	170	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Benzo[k]fluoranthene	**5000**		190	81	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Chrysene	**14000**	*	190	54	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Dibenz(a,h)anthracene	**980**		190	140	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Fluoranthene	**29000**		190	54	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Fluorene	**1000**		190	85	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Indeno[1,2,3-cd]pyrene	**2200**		190	160	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Naphthalene	ND		190	140	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Phenanthrene	**25000**		190	69	ug/Kg		01/15/19 15:04	01/21/19 20:14	40
Pyrene	**26000**		190	66	ug/Kg		01/15/19 15:04	01/21/19 20:14	40

Client Sample ID: DG-AS7S-0.5-1

Date Collected: 01/09/19 13:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-23

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		33 - 120	01/15/19 15:04	01/21/19 20:14	40
Terphenyl-d14	83		35 - 146	01/15/19 15:04	01/21/19 20:14	40

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**120**		3.9	1.5	mg/Kg		01/11/19 13:46	01/17/19 03:10	2
Motor Oil Range Organics [C24-C36]	**310**		97	19	mg/Kg		01/11/19 13:46	01/17/19 03:10	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	99		40 - 130	01/11/19 13:46	01/17/19 03:10	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**2.9**	**p**	2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
4,4'-DDE	**2.3**	**p**	2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
4,4'-DDT	**16**	**p**	2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 14:15	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 15:34	01/14/19 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		21 - 136	01/10/19 15:34	01/14/19 14:15	1
Tetrachloro-m-xylene	67		21 - 145	01/10/19 15:34	01/14/19 14:15	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:59	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:59	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:59	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:59	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:59	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:59	1
Aroclor 1260	**120**		49	17	ug/Kg		01/14/19 14:16	01/16/19 16:59	1

Client Sample ID: DG-AS7S-0.5-1

Date Collected: 01/09/19 13:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-23

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*	*01/14/19 14:16*	*01/16/19 16:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.6		1.9	0.32	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Arsenic	15		3.8	0.33	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Barium	170		1.9	0.27	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Beryllium	0.19	J	0.38	0.13	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Cadmium	3.8		0.48	0.048	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Chromium	77		1.9	0.20	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Cobalt	15		0.77	0.077	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Copper	310		5.8	2.7	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Lead	940		1.9	0.40	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Molybdenum	7.1		1.9	0.25	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Nickel	150		1.9	0.20	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Selenium	3.6	J	3.8	0.58	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Silver	0.52	J	0.96	0.19	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Thallium	ND		1.9	0.56	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Vanadium	73		1.9	0.26	mg/Kg		01/10/19 10:05	01/14/19 17:54	4
Zinc	970		5.8	2.4	mg/Kg		01/10/19 10:05	01/14/19 17:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.88		0.014	0.0021	mg/Kg		01/22/19 09:47	01/22/19 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AS7S-3.5-4

Date Collected: 01/09/19 13:02
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-24

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		77	54	ug/Kg		01/09/19 19:00	01/14/19 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/09/19 19:00*	*01/14/19 13:20*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 19:00*	*01/14/19 13:20*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 19:00*	*01/14/19 13:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,1,1-Trichloroethane	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.8	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,1,2-Trichloroethane	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,1-Dichloroethane	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,1-Dichloropropene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,2,3-Trichlorobenzene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,2,3-Trichloropropane	ND		7.7	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,2,4-Trichlorobenzene	ND		3.8	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,2,4-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,2-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,2-Dichloroethane	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,2-Dichloropropane	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,3,5-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,3-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,3-Dichloropropane	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
1,4-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
2,2-Dichloropropane	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
2-Butanone (MEK)	ND		7.7	3.8	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
2-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
2-Hexanone	ND		7.7	3.8	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
4-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
4-Isopropyltoluene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Benzene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Bromobenzene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Bromoform	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Bromomethane	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Chlorobenzene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Chlorodibromomethane	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Chloroethane	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Chloroform	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Chloromethane	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
cis-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1

Client Sample ID: DG-AS7S-3.5-4

Date Collected: 01/09/19 13:02
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-24

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Dibromomethane	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Dichlorobromomethane	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Ethylbenzene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Ethylene Dibromide	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Hexachlorobutadiene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Isopropylbenzene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Methylene Chloride	ND		7.7	3.8	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Naphthalene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
n-Butylbenzene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
N-Propylbenzene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
sec-Butylbenzene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Styrene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
tert-Butylbenzene	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Tetrachloroethene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Toluene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
trans-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
trans-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Trichloroethene	ND		0.77	0.38	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		01/09/19 19:00	01/14/19 13:20	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		01/09/19 19:00	01/14/19 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*	*01/09/19 19:00*	*01/14/19 13:20*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 19:00*	*01/14/19 13:20*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**6.7**	**J**	9.7	4.9	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Acenaphthylene	ND		4.9	2.3	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Anthracene	ND		4.9	1.9	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Benzo[a]anthracene	**1.6**	**J**	4.9	1.5	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Benzo[a]pyrene	**1.9**	**J**	4.9	1.9	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Benzo[b]fluoranthene	**2.9**	**J**	4.9	2.0	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Benzo[k]fluoranthene	ND		4.9	2.0	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Chrysene	**3.6**	**J ***	4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Fluoranthene	**4.7**	**J**	4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Fluorene	ND		4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Naphthalene	**5.0**		4.9	3.4	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Phenanthrene	**8.8**		4.9	1.8	ug/Kg		01/15/19 15:04	01/19/19 14:45	1
Pyrene	**4.4**	**J**	4.9	1.7	ug/Kg		01/15/19 15:04	01/19/19 14:45	1

Client Sample ID: DG-AS7S-3.5-4

Date Collected: 01/09/19 13:02
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-24

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		33 - 120	01/15/19 15:04	01/19/19 14:45	1
Terphenyl-d14	107		35 - 146	01/15/19 15:04	01/19/19 14:45	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8.4		2.0	0.74	mg/Kg		01/11/19 13:46	01/16/19 23:55	1
Motor Oil Range Organics [C24-C36]	23	J	49	9.9	mg/Kg		01/11/19 13:46	01/16/19 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	128		40 - 130	01/11/19 13:46	01/16/19 23:55	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/10/19 15:34	01/14/19 14:31	1
Toxaphene	ND		40	6.8	ug/Kg		01/10/19 15:34	01/14/19 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		21 - 136	01/10/19 15:34	01/14/19 14:31	1
Tetrachloro-m-xylene	91		21 - 145	01/10/19 15:34	01/14/19 14:31	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:13	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:13	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:13	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:13	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:13	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:13	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:13	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AS7S-3.5-4

Date Collected: 01/09/19 13:02
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*01/14/19 14:16*	*01/16/19 17:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.75**	**J**	1.0	0.17	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Arsenic	**3.5**		2.0	0.17	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Barium	**75**		1.0	0.14	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Beryllium	**0.25**		0.20	0.066	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Cadmium	**0.035**	**J**	0.25	0.025	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Chromium	**12**		1.0	0.11	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Cobalt	**6.2**		0.41	0.041	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Copper	**15**		3.0	1.4	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Lead	**7.6**		1.0	0.21	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Molybdenum	**0.36**	**J**	1.0	0.13	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Nickel	**13**		1.0	0.10	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Selenium	ND		2.0	0.30	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Silver	ND		0.51	0.10	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Thallium	ND		1.0	0.29	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Vanadium	**40**		1.0	0.14	mg/Kg		01/10/19 10:05	01/14/19 17:59	4
Zinc	**31**		3.0	1.3	mg/Kg		01/10/19 10:05	01/14/19 17:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.015	0.0022	mg/Kg		01/22/19 09:47	01/22/19 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.6**		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AU7S-0.5-1

Date Collected: 01/09/19 13:35
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-25

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		87	61	ug/Kg		01/09/19 19:00	01/14/19 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/09/19 19:00*	*01/14/19 13:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/09/19 19:00*	*01/14/19 13:44*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 19:00*	*01/14/19 13:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,1,1-Trichloroethane	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.7	4.3	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,1,2-Trichloroethane	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,1-Dichloroethane	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,1-Dichloropropene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,2,3-Trichlorobenzene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,2,3-Trichloropropane	ND		8.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,2,4-Trichlorobenzene	ND		4.3	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,2,4-Trimethylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,2-Dichlorobenzene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,2-Dichloroethane	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,2-Dichloropropane	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,3,5-Trimethylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,3-Dichlorobenzene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,3-Dichloropropane	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
1,4-Dichlorobenzene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
2,2-Dichloropropane	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
2-Butanone (MEK)	ND		8.7	4.3	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
2-Chlorotoluene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
2-Hexanone	ND		8.7	4.3	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
4-Chlorotoluene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
4-Isopropyltoluene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.2	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Benzene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Bromobenzene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Bromoform	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Bromomethane	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Carbon disulfide	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Chlorobenzene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Chlorobromomethane	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Chlorodibromomethane	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Chloroethane	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Chloroform	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Chloromethane	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
cis-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1

Client Sample ID: DG-AU7S-0.5-1

Date Collected: 01/09/19 13:35
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-25

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Dibromomethane	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Dichlorobromomethane	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Dichlorodifluoromethane	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Ethylbenzene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Ethylene Dibromide	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Hexachlorobutadiene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Isopropylbenzene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Methyl tert-butyl ether	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Methylene Chloride	ND		8.7	4.3	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Naphthalene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
n-Butylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
N-Propylbenzene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
sec-Butylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Styrene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
tert-Butylbenzene	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Tetrachloroethene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Toluene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
trans-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
trans-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Trichloroethene	ND		0.87	0.43	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Trichlorofluoromethane	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Vinyl acetate	ND		6.9	3.5	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Vinyl chloride	ND		1.7	0.87	ug/Kg		01/09/19 19:00	01/14/19 13:44	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/09/19 19:00	01/14/19 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*	*01/09/19 19:00*	*01/14/19 13:44*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 19:00*	*01/14/19 13:44*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**15**		9.8	4.9	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Acenaphthene	**2.8**	**J**	4.9	2.8	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Acenaphthylene	**18**		4.9	2.4	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Anthracene	**54**		4.9	2.0	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Benzo[a]anthracene	**17**		4.9	1.5	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Benzo[a]pyrene	**27**		4.9	1.9	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Benzo[b]fluoranthene	**44**		4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Benzo[g,h,i]perylene	**26**		4.9	4.2	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Benzo[k]fluoranthene	**16**		4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Chrysene	**25**	*	4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Dibenz(a,h)anthracene	**4.7**	**J**	4.9	3.4	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Fluoranthene	**33**		4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Fluorene	**2.4**	**J**	4.9	2.2	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Indeno[1,2,3-cd]pyrene	**16**		4.9	4.1	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Naphthalene	**22**		4.9	3.4	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Phenanthrene	**28**		4.9	1.8	ug/Kg		01/15/19 15:04	01/19/19 15:09	1
Pyrene	**38**		4.9	1.7	ug/Kg		01/15/19 15:04	01/19/19 15:09	1

Client Sample ID: DG-AU7S-0.5-1

Date Collected: 01/09/19 13:35
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-25

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		33 - 120	01/15/19 15:04	01/19/19 15:09	1
Terphenyl-d14	118		35 - 146	01/15/19 15:04	01/19/19 15:09	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**94**		3.8	1.4	mg/Kg		01/11/19 13:46	01/17/19 02:46	2
Motor Oil Range Organics [C24-C36]	**360**		96	19	mg/Kg		01/11/19 13:46	01/17/19 02:46	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	112		40 - 130	01/11/19 13:46	01/17/19 02:46	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**3.9**		2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
4,4'-DDE	**2.3**		2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
4,4'-DDT	**13**		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
alpha-Chlordane	**0.84**	**J**	2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
gamma-Chlordane	**1.0**	**J**	2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 14:48	1
Toxaphene	ND		40	6.7	ug/Kg		01/10/19 15:34	01/14/19 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		21 - 136	01/10/19 15:34	01/14/19 14:48	1
Tetrachloro-m-xylene	75		21 - 145	01/10/19 15:34	01/14/19 14:48	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:28	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:28	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:28	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:28	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:28	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:28	1
Aroclor 1260	**220**		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:28	1

Client Sample ID: DG-AU7S-0.5-1

Date Collected: 01/09/19 13:35
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-25

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*01/14/19 14:16*	*01/16/19 17:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3		1.6	0.27	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Arsenic	6.2		3.2	0.27	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Barium	110		1.6	0.23	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Beryllium	0.14	J	0.32	0.10	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Cadmium	1.5		0.40	0.040	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Chromium	24		1.6	0.17	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Cobalt	10		0.65	0.065	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Copper	130		4.8	2.3	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Lead	220		1.6	0.34	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Molybdenum	1.6		1.6	0.21	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Nickel	24		1.6	0.16	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Selenium	1.3	J	3.2	0.48	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Silver	0.17	J	0.81	0.16	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Thallium	ND		1.6	0.47	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Vanadium	63		1.6	0.22	mg/Kg		01/10/19 10:05	01/14/19 18:04	4
Zinc	300		4.8	2.0	mg/Kg		01/10/19 10:05	01/14/19 18:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.015	0.0022	mg/Kg		01/22/19 09:47	01/22/19 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AU7S-3.5-4

Date Collected: 01/09/19 13:37
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-26

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		01/09/19 19:00	01/14/19 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/09/19 19:00*	*01/14/19 14:07*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/09/19 19:00*	*01/14/19 14:07*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 19:00*	*01/14/19 14:07*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,1,1-Trichloroethane	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.1	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,1,2-Trichloroethane	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,1-Dichloroethane	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,1-Dichloroethene	ND		1.7	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,1-Dichloropropene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,2,4-Trichlorobenzene	ND		4.1	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.7	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,2-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,2-Dichloroethane	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,2-Dichloropropane	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,3-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,3-Dichloropropane	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
1,4-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
2-Butanone (MEK)	ND		8.3	4.1	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
2-Hexanone	ND		8.3	4.1	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
4-Isopropyltoluene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.1	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Benzene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Bromobenzene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Bromoform	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Bromomethane	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Carbon disulfide	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Carbon tetrachloride	ND		1.7	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Chlorobenzene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Chlorodibromomethane	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Chloroethane	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Chloroform	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Chloromethane	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
cis-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1

Client Sample ID: DG-AU7S-3.5-4

Date Collected: 01/09/19 13:37
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-26

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Dibromomethane	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Dichlorobromomethane	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Ethylbenzene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Ethylene Dibromide	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Isopropylbenzene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Methyl tert-butyl ether	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Methylene Chloride	ND		8.3	4.1	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Naphthalene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
N-Propylbenzene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Styrene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Tetrachloroethene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Toluene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
trans-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
trans-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Trichloroethene	ND		0.83	0.41	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Vinyl acetate	ND		6.6	3.3	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		01/09/19 19:00	01/14/19 14:07	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/09/19 19:00	01/14/19 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*134*	*X*	*70 - 130*	*01/09/19 19:00*	*01/14/19 14:07*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/09/19 19:00*	*01/14/19 14:07*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**13**		9.8	4.9	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Anthracene	**7.3**		4.9	2.0	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Benzo[a]anthracene	**5.7**		4.9	1.5	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Benzo[a]pyrene	**3.6**	**J**	4.9	1.9	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Benzo[b]fluoranthene	**18**		4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Benzo[k]fluoranthene	**4.1**	**J**	4.9	2.1	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Chrysene	**20**	*****	4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Fluoranthene	**29**		4.9	1.4	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Fluorene	ND		4.9	2.2	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Naphthalene	**42**		4.9	3.4	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Phenanthrene	**63**		4.9	1.8	ug/Kg		01/15/19 15:04	01/19/19 15:32	1
Pyrene	**18**		4.9	1.7	ug/Kg		01/15/19 15:04	01/19/19 15:32	1

Client Sample ID: DG-AU7S-3.5-4

Date Collected: 01/09/19 13:37
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-26

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*33 - 120*	*01/15/19 15:04*	*01/19/19 15:32*	*1*
Terphenyl-d14	*106*		*35 - 146*	*01/15/19 15:04*	*01/19/19 15:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**31**		1.9	0.71	mg/Kg		01/11/19 15:04	01/19/19 15:44	1
Motor Oil Range Organics [C24-C36]	**52**		48	9.5	mg/Kg		01/11/19 15:04	01/19/19 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*75*		*40 - 130*	*01/11/19 15:04*	*01/19/19 15:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
beta-BHC	**2.5**		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 15:04	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 15:34	01/14/19 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*21 - 136*	*01/10/19 15:34*	*01/14/19 15:04*	*1*
Tetrachloro-m-xylene	*90*		*21 - 145*	*01/10/19 15:34*	*01/14/19 15:04*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:43	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:43	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:43	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:43	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:43	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:43	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 17:43	1

Client Sample ID: DG-AU7S-3.5-4

Date Collected: 01/09/19 13:37
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-26

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*01/14/19 14:16*	*01/16/19 17:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**91**		45	7.5	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Arsenic	**43**	**J**	90	7.7	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Barium	**1200**		45	6.4	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Beryllium	ND		9.0	2.9	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Cadmium	**6.2**	**J**	11	1.1	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Chromium	**46**		45	4.8	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Cobalt	**13**	**J**	18	1.8	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Copper	**1500**		140	64	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Lead	**6700**		45	9.5	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Molybdenum	**6.3**	**J**	45	5.8	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Nickel	**110**		45	4.6	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Selenium	**18**	**J**	90	14	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Silver	**6.5**	**J**	23	4.5	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Thallium	ND		45	13	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Vanadium	**26**	**J**	45	6.1	mg/Kg		01/10/19 10:05	01/15/19 12:55	100
Zinc	**3700**		140	57	mg/Kg		01/10/19 10:05	01/15/19 12:55	100

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.74**		0.014	0.0021	mg/Kg		01/22/19 09:47	01/22/19 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.6**		0.1	0.05	%			01/10/19 13:33	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DUP-50

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-27

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		80	56	ug/Kg		01/09/19 19:00	01/14/19 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/09/19 19:00*	*01/14/19 14:31*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 19:00*	*01/14/19 14:31*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/09/19 19:00*	*01/14/19 14:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
2-Butanone (MEK)	ND		8.0	4.0	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
2-Hexanone	ND		8.0	4.0	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Benzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Bromobenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Bromoform	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Bromomethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Carbon disulfide	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Chloroethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Chloroform	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Chloromethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1

Client Sample ID: DUP-50
Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-27
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Dibromomethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Naphthalene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Styrene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Tetrachloroethene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Toluene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Trichloroethene	ND		0.80	0.40	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		01/09/19 19:00	01/14/19 14:31	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/09/19 19:00	01/14/19 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*01/09/19 19:00*	*01/14/19 14:31*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/09/19 19:00*	*01/14/19 14:31*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**34**	**J**	47	24	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Acenaphthene	ND		24	13	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Acenaphthylene	**31**		24	11	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Anthracene	**88**		24	9.4	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Benzo[a]anthracene	**43**		24	7.1	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Benzo[a]pyrene	**50**		24	9.0	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Benzo[b]fluoranthene	**83**		24	9.9	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Benzo[g,h,i]perylene	**49**		24	20	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Benzo[k]fluoranthene	**34**		24	9.9	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Chrysene	**56**	*	24	6.6	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Dibenz(a,h)anthracene	ND		24	16	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Fluoranthene	**74**		24	6.6	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Fluorene	ND		24	10	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Indeno[1,2,3-cd]pyrene	**34**		24	20	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Naphthalene	**59**		24	16	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Phenanthrene	**58**		24	8.5	ug/Kg		01/15/19 15:04	01/22/19 05:06	5
Pyrene	**71**		24	8.0	ug/Kg		01/15/19 15:04	01/22/19 05:06	5

Client Sample ID: DUP-50

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-27

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*33 - 120*	*01/15/19 15:04*	*01/22/19 05:06*	*5*
Terphenyl-d14	*94*		*35 - 146*	*01/15/19 15:04*	*01/22/19 05:06*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**		5.7	2.1	mg/Kg		01/11/19 15:04	01/22/19 00:02	3
Motor Oil Range Organics [C24-C36]	**280**		140	28	mg/Kg		01/11/19 15:04	01/22/19 00:02	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*103*		*40 - 130*	*01/11/19 15:04*	*01/22/19 00:02*	*3*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**3.6**		2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
4,4'-DDE	**2.8**		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Aldrin	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
alpha-Chlordane	**1.2**	**J**	2.0	0.39	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Endrin	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
gamma-Chlordane	**1.0**	**J**	2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 15:21	1
Toxaphene	ND		39	6.7	ug/Kg		01/10/19 15:34	01/14/19 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*01/10/19 15:34*	*01/14/19 15:21*	*1*
Tetrachloro-m-xylene	*71*		*21 - 145*	*01/10/19 15:34*	*01/14/19 15:21*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:57	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:57	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:57	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:57	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:57	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:57	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 17:57	1

Client Sample ID: DUP-50

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-27

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*	*01/14/19 14:16*	*01/16/19 17:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0		1.9	0.31	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Arsenic	8.5		3.7	0.32	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Barium	120		1.9	0.27	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Beryllium	0.17	J	0.37	0.12	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Cadmium	1.7		0.47	0.046	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Chromium	28		1.9	0.20	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Cobalt	9.9		0.75	0.075	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Copper	180		5.6	2.7	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Lead	310		1.9	0.39	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Molybdenum	2.6		1.9	0.24	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Nickel	44		1.9	0.19	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Selenium	2.3	J	3.7	0.56	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Silver	ND		0.93	0.19	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Thallium	ND		1.9	0.54	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Vanadium	61		1.9	0.25	mg/Kg		01/10/19 10:05	01/14/19 18:13	4
Zinc	340		5.6	2.4	mg/Kg		01/10/19 10:05	01/14/19 18:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.015	0.0023	mg/Kg		01/22/19 09:47	01/22/19 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.9		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AR9S-0.5-1

Date Collected: 01/09/19 14:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-28

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		68	48	ug/Kg		01/09/19 19:00	01/14/19 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*60 - 120*	*01/09/19 19:00*	*01/14/19 14:55*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/09/19 19:00*	*01/14/19 14:55*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/09/19 19:00*	*01/14/19 14:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,1,1-Trichloroethane	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	3.4	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,1,2-Trichloroethane	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,1-Dichloroethane	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,1-Dichloropropene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,2,3-Trichlorobenzene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,2,3-Trichloropropane	ND		6.8	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,2,4-Trichlorobenzene	ND		3.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,2,4-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,2-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,2-Dichloroethane	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,2-Dichloropropane	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,3,5-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,3-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,3-Dichloropropane	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
1,4-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
2,2-Dichloropropane	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
2-Butanone (MEK)	ND		6.8	3.4	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
2-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
2-Hexanone	ND		6.8	3.4	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
4-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
4-Isopropyltoluene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Benzene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Bromobenzene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Bromoform	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Bromomethane	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Carbon disulfide	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Chlorobenzene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Chlorobromomethane	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Chlorodibromomethane	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Chloroethane	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Chloroform	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Chloromethane	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
cis-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1

Client Sample ID: DG-AR9S-0.5-1

Date Collected: 01/09/19 14:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-28

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Dibromomethane	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Dichlorobromomethane	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Dichlorodifluoromethane	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Ethylbenzene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Ethylene Dibromide	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Hexachlorobutadiene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Isopropylbenzene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Methyl tert-butyl ether	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Methylene Chloride	ND		6.8	3.4	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Naphthalene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
n-Butylbenzene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
N-Propylbenzene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
sec-Butylbenzene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Styrene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
tert-Butylbenzene	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Tetrachloroethene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Toluene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
trans-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
trans-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Trichloroethene	ND		0.68	0.34	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Trichlorofluoromethane	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Vinyl acetate	ND		5.5	2.7	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Vinyl chloride	ND		1.4	0.68	ug/Kg		01/09/19 19:00	01/14/19 14:55	1
Xylenes, Total	ND		1.4	0.89	ug/Kg		01/09/19 19:00	01/14/19 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*	*01/09/19 19:00*	*01/14/19 14:55*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/09/19 19:00*	*01/14/19 14:55*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**39**	**J**	48	24	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Acenaphthene	ND		24	13	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Acenaphthylene	**58**		24	12	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Anthracene	**120**		24	9.6	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Benzo[a]anthracene	**71**		24	7.2	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Benzo[a]pyrene	**84**		24	9.2	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Benzo[b]fluoranthene	**150**		24	10	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Benzo[g,h,i]perylene	**99**		24	21	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Benzo[k]fluoranthene	**45**		24	10	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Chrysene	**110**	*	24	6.7	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Dibenz(a,h)anthracene	ND		24	17	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Fluoranthene	**110**		24	6.7	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Fluorene	ND		24	11	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Indeno[1,2,3-cd]pyrene	**57**		24	20	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Naphthalene	**58**		24	17	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Phenanthrene	**70**		24	8.7	ug/Kg		01/15/19 15:04	01/22/19 05:29	5
Pyrene	**130**		24	8.2	ug/Kg		01/15/19 15:04	01/22/19 05:29	5

Client Sample ID: DG-AR9S-0.5-1

Date Collected: 01/09/19 14:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-28

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		33 - 120	01/15/19 15:04	01/22/19 05:29	5
Terphenyl-d14	92		35 - 146	01/15/19 15:04	01/22/19 05:29	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**180**		9.5	3.6	mg/Kg		01/11/19 15:04	01/19/19 16:13	5
Motor Oil Range Organics [C24-C36]	**440**		240	47	mg/Kg		01/11/19 15:04	01/19/19 16:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/11/19 15:04	01/19/19 16:13	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**4.3**		2.0	0.60	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
4,4'-DDE	**3.4**		2.0	0.42	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
4,4'-DDT	**15**		2.0	0.41	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
alpha-Chlordane	**2.4**		2.0	0.40	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Chlordane (technical)	**35**	**J**	40	3.2	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Dieldrin	**3.9**	**p**	2.0	0.58	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
gamma-Chlordane	**3.1**		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/10/19 15:34	01/14/19 15:37	1
Toxaphene	ND		40	6.7	ug/Kg		01/10/19 15:34	01/14/19 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		21 - 136	01/10/19 15:34	01/14/19 15:37	1
Tetrachloro-m-xylene	71		21 - 145	01/10/19 15:34	01/14/19 15:37	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 18:12	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 18:12	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 18:12	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 18:12	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 18:12	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 18:12	1
Aroclor 1260	**68**		50	17	ug/Kg		01/14/19 14:16	01/16/19 18:12	1

Client Sample ID: DG-AR9S-0.5-1

Date Collected: 01/09/19 14:05
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-28

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*01/14/19 14:16*	*01/16/19 18:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**6.9**		1.4	0.23	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Arsenic	**14**		2.7	0.23	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Barium	**200**		1.4	0.19	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Beryllium	**0.22**	**J**	0.27	0.089	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Cadmium	**2.8**		0.34	0.034	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Chromium	**53**		1.4	0.15	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Cobalt	**13**		0.55	0.055	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Copper	**270**		4.1	2.0	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Lead	**450**		1.4	0.29	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Molybdenum	**5.1**		1.4	0.18	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Nickel	**51**		1.4	0.14	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Selenium	**2.0**	**J**	2.7	0.41	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Silver	**0.69**		0.68	0.14	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Thallium	ND		1.4	0.40	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Vanadium	**66**		1.4	0.19	mg/Kg		01/10/19 10:05	01/14/19 18:18	4
Zinc	**670**		4.1	1.7	mg/Kg		01/10/19 10:05	01/14/19 18:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.46**		0.015	0.0023	mg/Kg		01/22/19 09:47	01/22/19 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.05	%			01/10/19 13:33	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AR9S-3.5-4

Date Collected: 01/09/19 14:07
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-29

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		88	62	ug/Kg		01/09/19 19:00	01/14/19 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/09/19 19:00*	*01/14/19 15:19*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 19:00*	*01/14/19 15:19*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/09/19 19:00*	*01/14/19 15:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
2-Hexanone	ND		8.8	4.4	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Benzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Bromobenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Bromoform	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Bromomethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Chloroethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Chloroform	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Chloromethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1

Client Sample ID: DG-AR9S-3.5-4

Date Collected: 01/09/19 14:07
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-29

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Dibromomethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Naphthalene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Styrene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Tetrachloroethene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Toluene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Trichloroethene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Vinyl acetate	ND		7.1	3.5	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 15:19	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/09/19 19:00	01/14/19 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*136*	*X*	*70 - 130*	*01/09/19 19:00*	*01/14/19 15:19*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/09/19 19:00*	*01/14/19 15:19*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.6	4.8	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Anthracene	**3.2**	**J**	4.8	1.9	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Benzo[a]anthracene	**4.3**	**J**	4.8	1.4	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Benzo[a]pyrene	**4.3**	**J**	4.8	1.8	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Benzo[b]fluoranthene	**10**		4.8	2.0	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Benzo[g,h,i]perylene	**4.8**		4.8	4.1	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Benzo[k]fluoranthene	**3.3**	**J**	4.8	2.0	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Chrysene	**11**	*****	4.8	1.4	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Fluoranthene	**8.6**		4.8	1.4	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Fluorene	ND		4.8	2.1	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.1	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Naphthalene	**5.8**		4.8	3.4	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Phenanthrene	**9.9**		4.8	1.7	ug/Kg		01/15/19 15:04	01/19/19 15:56	1
Pyrene	**8.4**		4.8	1.6	ug/Kg		01/15/19 15:04	01/19/19 15:56	1

Client Sample ID: DG-AR9S-3.5-4

Date Collected: 01/09/19 14:07
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-29

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*33 - 120*	*01/15/19 15:04*	*01/19/19 15:56*	*1*
Terphenyl-d14	*120*		*35 - 146*	*01/15/19 15:04*	*01/19/19 15:56*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		1.9	0.72	mg/Kg		01/11/19 15:04	01/19/19 16:42	1
Motor Oil Range Organics [C24-C36]	**52**		48	9.6	mg/Kg		01/11/19 15:04	01/19/19 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*40 - 130*	*01/11/19 15:04*	*01/19/19 16:42*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Endrin	ND		1.9	0.45	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/15/19 15:08	01/21/19 16:15	1
Toxaphene	ND		39	6.6	ug/Kg		01/15/19 15:08	01/21/19 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*21 - 136*	*01/15/19 15:08*	*01/21/19 16:15*	*1*
Tetrachloro-m-xylene	*70*		*21 - 145*	*01/15/19 15:08*	*01/21/19 16:15*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:26	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:26	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:26	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:26	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:26	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:26	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:26	1

Client Sample ID: DG-AR9S-3.5-4

Date Collected: 01/09/19 14:07
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-29

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*01/14/19 14:16*	*01/16/19 18:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5		1.2	0.20	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Arsenic	27		2.4	0.20	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Barium	230		1.2	0.17	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Beryllium	0.19	J	0.24	0.076	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Cadmium	0.54		0.29	0.029	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Chromium	30		1.2	0.12	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Cobalt	3.7		0.47	0.047	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Copper	180		3.5	1.7	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Lead	1200		1.2	0.25	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Molybdenum	0.55	J	1.2	0.15	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Nickel	26		1.2	0.12	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Selenium	1.0	J	2.4	0.35	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Silver	1.5		0.59	0.12	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Thallium	ND		1.2	0.34	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Vanadium	14		1.2	0.16	mg/Kg		01/10/19 10:05	01/14/19 18:32	4
Zinc	390		3.5	1.5	mg/Kg		01/10/19 10:05	01/14/19 18:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.017	0.0025	mg/Kg		01/22/19 11:55	01/22/19 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.0		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DUP-65

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-30

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		67	47	ug/Kg		01/09/19 19:00	01/14/19 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/09/19 19:00*	*01/14/19 15:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/09/19 19:00*	*01/14/19 15:42*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/09/19 19:00*	*01/14/19 15:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,1,1-Trichloroethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	3.3	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,1,2-Trichloroethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,1-Dichloroethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,1-Dichloropropene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,2,3-Trichlorobenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,2,3-Trichloropropane	ND		6.7	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,2,4-Trichlorobenzene	ND		3.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,2,4-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,2-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,2-Dichloroethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,2-Dichloropropane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,3,5-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,3-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,3-Dichloropropane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
1,4-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
2,2-Dichloropropane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
2-Butanone (MEK)	ND		6.7	3.3	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
2-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
2-Hexanone	ND		6.7	3.3	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
4-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
4-Isopropyltoluene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Benzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Bromobenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Bromoform	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Bromomethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Carbon disulfide	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Chlorobenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Chlorobromomethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Chlorodibromomethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Chloroethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Chloroform	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Chloromethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
cis-1,2-Dichloroethene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1

Client Sample ID: DUP-65
Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-30
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Dibromomethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Dichlorobromomethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Dichlorodifluoromethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Ethylbenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Ethylene Dibromide	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Hexachlorobutadiene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Isopropylbenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Methyl tert-butyl ether	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Methylene Chloride	ND		6.7	3.3	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Naphthalene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
n-Butylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
N-Propylbenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
sec-Butylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Styrene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
tert-Butylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Tetrachloroethene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Toluene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
trans-1,2-Dichloroethene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
trans-1,3-Dichloropropene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Trichloroethene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Trichlorofluoromethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Vinyl chloride	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 15:42	1
Xylenes, Total	ND		1.3	0.87	ug/Kg		01/09/19 19:00	01/14/19 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*	*01/09/19 19:00*	*01/14/19 15:42*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/09/19 19:00*	*01/14/19 15:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.5	4.8	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Anthracene	**2.4**	**J**	4.8	1.9	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Benzo[a]anthracene	**4.8**		4.8	1.4	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Benzo[a]pyrene	**6.8**		4.8	1.8	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Benzo[b]fluoranthene	**12**		4.8	2.0	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Benzo[g,h,i]perylene	**6.0**		4.8	4.1	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Benzo[k]fluoranthene	**4.6**	**J**	4.8	2.0	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Chrysene	**8.9**	*****	4.8	1.3	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Dibenz(a,h)anthracene	ND		4.8	3.3	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Fluoranthene	**8.4**		4.8	1.3	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Fluorene	ND		4.8	2.1	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.0	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Naphthalene	**3.9**	**J**	4.8	3.3	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Phenanthrene	**8.4**		4.8	1.7	ug/Kg		01/15/19 15:04	01/19/19 16:19	1
Pyrene	**9.5**		4.8	1.6	ug/Kg		01/15/19 15:04	01/19/19 16:19	1

Client Sample ID: DUP-65

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-30

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*33 - 120*	*01/15/19 15:04*	*01/19/19 16:19*	*1*
Terphenyl-d14	*116*		*35 - 146*	*01/15/19 15:04*	*01/19/19 16:19*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	47		1.9	0.71	mg/Kg		01/11/19 15:04	01/18/19 19:48	1
Motor Oil Range Organics [C24-C36]	240		47	9.5	mg/Kg		01/11/19 15:04	01/18/19 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*80*		*40 - 130*	*01/11/19 15:04*	*01/18/19 19:48*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Aldrin	ND		2.0	0.49	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Endrin	ND		2.0	0.45	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/15/19 15:08	01/19/19 11:00	1
Toxaphene	ND		39	6.7	ug/Kg		01/15/19 15:08	01/19/19 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*01/15/19 15:08*	*01/19/19 11:00*	*1*
Tetrachloro-m-xylene	*90*		*21 - 145*	*01/15/19 15:08*	*01/19/19 11:00*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:41	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:41	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:41	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:41	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:41	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:41	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:41	1

Client Sample ID: DUP-65

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-30

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*45 - 120*	*01/14/19 14:16*	*01/16/19 18:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.3**		1.1	0.19	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Arsenic	**49**		2.3	0.19	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Barium	**330**		1.1	0.16	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Beryllium	**0.23**		0.23	0.074	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Cadmium	**0.60**		0.29	0.028	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Chromium	**39**		1.1	0.12	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Cobalt	**4.7**		0.46	0.046	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Copper	**180**		3.4	1.6	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Lead	**800**		1.1	0.24	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Molybdenum	**0.70**	**J**	1.1	0.15	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Nickel	**39**		1.1	0.12	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Selenium	ND		2.3	0.34	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Silver	**1.5**		0.57	0.12	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Thallium	ND		1.1	0.33	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Vanadium	**17**		1.1	0.16	mg/Kg		01/10/19 10:05	01/14/19 18:37	4
Zinc	**530**		3.4	1.5	mg/Kg		01/10/19 10:05	01/14/19 18:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**		0.015	0.0022	mg/Kg		01/22/19 11:55	01/22/19 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.6**		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AD9S-0.5-1

Date Collected: 01/09/19 14:55
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-31

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		63	44	ug/Kg		01/09/19 19:00	01/14/19 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/09/19 19:00*	*01/14/19 16:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 19:00*	*01/14/19 16:06*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/09/19 19:00*	*01/14/19 16:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,1,1-Trichloroethane	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3	3.1	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,1,2-Trichloroethane	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,1-Dichloroethane	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,1-Dichloroethene	ND		1.3	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,1-Dichloropropene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,2,3-Trichlorobenzene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,2,3-Trichloropropane	ND		6.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,2,4-Trichlorobenzene	ND		3.1	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,2,4-Trimethylbenzene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,2-Dibromo-3-Chloropropane	ND		3.1	1.3	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,2-Dichlorobenzene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,2-Dichloroethane	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,2-Dichloropropane	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,3,5-Trimethylbenzene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,3-Dichlorobenzene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,3-Dichloropropane	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
1,4-Dichlorobenzene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
2,2-Dichloropropane	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
2-Butanone (MEK)	ND		6.3	3.1	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
2-Chlorotoluene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
2-Hexanone	ND		6.3	3.1	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
4-Chlorotoluene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
4-Isopropyltoluene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
4-Methyl-2-pentanone (MIBK)	ND		3.1	1.6	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Benzene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Bromobenzene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Bromoform	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Bromomethane	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Carbon disulfide	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Carbon tetrachloride	ND		1.3	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Chlorobenzene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Chlorobromomethane	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Chlorodibromomethane	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Chloroethane	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Chloroform	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Chloromethane	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
cis-1,2-Dichloroethene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1

Client Sample ID: DG-AD9S-0.5-1

Date Collected: 01/09/19 14:55
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-31

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Dibromomethane	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Dichlorobromomethane	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Dichlorodifluoromethane	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Ethylbenzene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Ethylene Dibromide	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Hexachlorobutadiene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Isopropylbenzene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Methyl tert-butyl ether	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Methylene Chloride	ND		6.3	3.1	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Naphthalene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
n-Butylbenzene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
N-Propylbenzene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
sec-Butylbenzene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Styrene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
tert-Butylbenzene	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Tetrachloroethene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Toluene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
trans-1,2-Dichloroethene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
trans-1,3-Dichloropropene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Trichloroethene	ND		0.63	0.31	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Trichlorofluoromethane	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Vinyl acetate	ND		5.0	2.5	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Vinyl chloride	ND		1.3	0.63	ug/Kg		01/09/19 19:00	01/14/19 16:06	1
Xylenes, Total	ND		1.3	0.82	ug/Kg		01/09/19 19:00	01/14/19 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*	*01/09/19 19:00*	*01/14/19 16:06*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/09/19 19:00*	*01/14/19 16:06*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**120**		48	24	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Acenaphthene	**21**	**J**	24	13	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Acenaphthylene	**56**		24	11	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Anthracene	**110**		24	9.5	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Benzo[a]anthracene	**120**		24	7.1	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Benzo[a]pyrene	**180**		24	9.0	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Benzo[b]fluoranthene	**260**		24	10	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Benzo[g,h,i]perylene	**110**		24	20	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Benzo[k]fluoranthene	**91**		24	10	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Chrysene	**190**	*	24	6.7	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Dibenz(a,h)anthracene	**24**		24	17	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Fluoranthene	**220**		24	6.7	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Fluorene	**12**	**J**	24	10	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Indeno[1,2,3-cd]pyrene	**84**		24	20	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Naphthalene	**130**		24	17	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Phenanthrene	**150**		24	8.6	ug/Kg		01/15/19 15:04	01/22/19 05:53	5
Pyrene	**250**		24	8.1	ug/Kg		01/15/19 15:04	01/22/19 05:53	5

Client Sample ID: DG-AD9S-0.5-1

Date Collected: 01/09/19 14:55
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-31

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		33 - 120	01/15/19 15:04	01/22/19 05:53	5
Terphenyl-d14	87		35 - 146	01/15/19 15:04	01/22/19 05:53	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**510**		9.5	3.6	mg/Kg		01/11/19 15:04	01/18/19 21:30	5
Motor Oil Range Organics [C24-C36]	**1200**		240	48	mg/Kg		01/11/19 15:04	01/18/19 21:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/11/19 15:04	01/18/19 21:30	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**9.0**	**p**	1.9	0.58	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
4,4'-DDE	**4.9**	**p**	1.9	0.40	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
4,4'-DDT	**12**	**p**	1.9	0.39	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Dieldrin	**6.6**	**p**	1.9	0.56	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Endrin	**12**		1.9	0.44	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/15/19 15:08	01/19/19 11:18	1
Toxaphene	ND		38	6.5	ug/Kg		01/15/19 15:08	01/19/19 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		21 - 136	01/15/19 15:08	01/19/19 11:18	1
Tetrachloro-m-xylene	76		21 - 145	01/15/19 15:08	01/19/19 11:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:56	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:56	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:56	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:56	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:56	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:56	1
Aroclor 1260	**200**		49	17	ug/Kg		01/14/19 14:16	01/16/19 18:56	1

Client Sample ID: DG-AD9S-0.5-1

Date Collected: 01/09/19 14:55
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-31

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*45 - 120*	*01/14/19 14:16*	*01/16/19 18:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	40		4.1	0.67	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Arsenic	14		8.1	0.69	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Barium	140		4.1	0.58	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Beryllium	0.27	J	0.81	0.26	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Cadmium	3.3		1.0	0.10	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Chromium	52		4.1	0.43	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Cobalt	11		1.6	0.16	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Copper	400		12	5.8	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Lead	460		4.1	0.85	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Molybdenum	7.9		4.1	0.52	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Nickel	41		4.1	0.41	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Selenium	2.9	J	8.1	1.2	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Silver	0.55	J	2.0	0.41	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Thallium	ND		4.1	1.2	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Vanadium	38		4.1	0.55	mg/Kg		01/10/19 10:05	01/15/19 13:00	10
Zinc	820		12	5.2	mg/Kg		01/10/19 10:05	01/15/19 13:00	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.80		0.017	0.0025	mg/Kg		01/22/19 11:55	01/22/19 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-AD9S-3.5-4

Date Collected: 01/09/19 14:57
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-32

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		67	47	ug/Kg		01/09/19 19:00	01/14/19 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/09/19 19:00*	*01/14/19 16:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/09/19 19:00*	*01/14/19 16:30*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 19:00*	*01/14/19 16:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,1,1-Trichloroethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	3.3	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,1,2-Trichloroethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,1-Dichloroethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,1-Dichloropropene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,2,3-Trichlorobenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,2,3-Trichloropropane	ND		6.7	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,2,4-Trichlorobenzene	ND		3.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,2,4-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,2-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,2-Dichloroethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,2-Dichloropropane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,3,5-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,3-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,3-Dichloropropane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
1,4-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
2,2-Dichloropropane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
2-Butanone (MEK)	ND		6.7	3.3	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
2-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
2-Hexanone	ND		6.7	3.3	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
4-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
4-Isopropyltoluene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Benzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Bromobenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Bromoform	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Bromomethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Carbon disulfide	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Chlorobenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Chlorobromomethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Chlorodibromomethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Chloroethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Chloroform	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Chloromethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
cis-1,2-Dichloroethene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1

Client Sample ID: DG-AD9S-3.5-4
Date Collected: 01/09/19 14:57
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-32
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Dibromomethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Dichlorobromomethane	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Dichlorodifluoromethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Ethylbenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Ethylene Dibromide	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Hexachlorobutadiene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Isopropylbenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Methyl tert-butyl ether	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Methylene Chloride	ND		6.7	3.3	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Naphthalene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
n-Butylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
N-Propylbenzene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
sec-Butylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Styrene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
tert-Butylbenzene	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Tetrachloroethene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Toluene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
trans-1,2-Dichloroethene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
trans-1,3-Dichloropropene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Trichloroethene	ND		0.67	0.33	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Trichlorofluoromethane	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Vinyl acetate	ND		5.3	2.7	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Vinyl chloride	ND		1.3	0.67	ug/Kg		01/09/19 19:00	01/14/19 16:30	1
Xylenes, Total	ND		1.3	0.87	ug/Kg		01/09/19 19:00	01/14/19 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*	*01/09/19 19:00*	*01/14/19 16:30*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 19:00*	*01/14/19 16:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**58**		9.5	4.8	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Acenaphthene	**3.1**	**J**	4.8	2.7	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Anthracene	**27**		4.8	1.9	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Benzo[a]anthracene	**18**		4.8	1.4	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Benzo[a]pyrene	**11**		4.8	1.8	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Benzo[b]fluoranthene	**36**		4.8	2.0	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Benzo[g,h,i]perylene	**8.5**		4.8	4.1	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Benzo[k]fluoranthene	**10**		4.8	2.0	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Chrysene	**41**	*	4.8	1.3	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Dibenz(a,h)anthracene	ND		4.8	3.3	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Fluoranthene	**81**		4.8	1.3	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Fluorene	**9.4**		4.8	2.1	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Indeno[1,2,3-cd]pyrene	**6.2**		4.8	4.0	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Naphthalene	**170**		4.8	3.3	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Phenanthrene	**190**		4.8	1.7	ug/Kg		01/15/19 15:04	01/19/19 16:43	1
Pyrene	**60**		4.8	1.6	ug/Kg		01/15/19 15:04	01/19/19 16:43	1

Client Sample ID: DG-AD9S-3.5-4

Date Collected: 01/09/19 14:57
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-32

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*33 - 120*	*01/15/19 15:04*	*01/19/19 16:43*	*1*
Terphenyl-d14	*106*		*35 - 146*	*01/15/19 15:04*	*01/19/19 16:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**		1.9	0.72	mg/Kg		01/11/19 15:04	01/19/19 17:12	1
Motor Oil Range Organics [C24-C36]	**150**		48	9.6	mg/Kg		01/11/19 15:04	01/19/19 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*65*		*40 - 130*	*01/11/19 15:04*	*01/19/19 17:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Aldrin	ND		2.0	0.49	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
alpha-BHC	**1.0**	**J**	2.0	0.54	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Endrin	ND		2.0	0.45	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/15/19 15:08	01/19/19 11:35	1
Toxaphene	ND		39	6.7	ug/Kg		01/15/19 15:08	01/19/19 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*21 - 136*	*01/15/19 15:08*	*01/19/19 11:35*	*1*
Tetrachloro-m-xylene	*70*		*21 - 145*	*01/15/19 15:08*	*01/19/19 11:35*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:10	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:10	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:10	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:10	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:10	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:10	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:10	1

Client Sample ID: DG-AD9S-3.5-4

Date Collected: 01/09/19 14:57
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-32

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*57*		*45 - 120*	*01/14/19 14:16*	*01/16/19 19:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	59		1.5	0.25	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Arsenic	16		3.1	0.26	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Barium	910		1.5	0.22	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Beryllium	0.48		0.31	0.099	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Cadmium	2.0		0.38	0.038	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Chromium	25		1.5	0.16	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Cobalt	6.7		0.61	0.061	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Copper	950		4.6	2.2	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Lead	3200		1.5	0.32	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Molybdenum	1.8		1.5	0.20	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Nickel	32		1.5	0.16	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Selenium	2.4	J	3.1	0.46	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Silver	3.7		0.76	0.15	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Thallium	ND		1.5	0.44	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Vanadium	32		1.5	0.21	mg/Kg		01/10/19 10:05	01/14/19 18:46	4
Zinc	1500		4.6	1.9	mg/Kg		01/10/19 10:05	01/14/19 18:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.88		0.016	0.0023	mg/Kg		01/22/19 11:55	01/22/19 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.1		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-Z9S-0.5-1

Date Collected: 01/09/19 15:30
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-33

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		88	61	ug/Kg		01/09/19 19:00	01/14/19 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/09/19 19:00*	*01/14/19 16:54*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/09/19 19:00*	*01/14/19 16:54*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 19:00*	*01/14/19 16:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
2-Hexanone	ND		8.8	4.4	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Benzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Bromobenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Bromoform	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Bromomethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Chloroethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Chloroform	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Chloromethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1

Client Sample ID: DG-Z9S-0.5-1

Date Collected: 01/09/19 15:30
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-33

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Dibromomethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Naphthalene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Styrene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Tetrachloroethene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Toluene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Trichloroethene	ND		0.88	0.44	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		01/09/19 19:00	01/14/19 16:54	1
Xylenes, Total	ND		1.8	1.1	ug/Kg		01/09/19 19:00	01/14/19 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*	*01/09/19 19:00*	*01/14/19 16:54*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/09/19 19:00*	*01/14/19 16:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		47	24	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Acenaphthene	ND		24	13	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Acenaphthylene	**24**		24	11	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Anthracene	**41**		24	9.5	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Benzo[a]anthracene	**39**		24	7.1	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Benzo[a]pyrene	**50**		24	9.0	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Benzo[b]fluoranthene	**93**		24	10	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Benzo[g,h,i]perylene	**33**		24	20	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Benzo[k]fluoranthene	**29**		24	10	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Chrysene	**45**	*	24	6.6	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Dibenz(a,h)anthracene	ND		24	17	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Fluoranthene	**56**		24	6.6	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Fluorene	ND		24	10	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Indeno[1,2,3-cd]pyrene	**23**	**J**	24	20	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Naphthalene	**21**	**J**	24	17	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Phenanthrene	**30**		24	8.5	ug/Kg		01/15/19 15:04	01/21/19 22:36	5
Pyrene	**65**		24	8.1	ug/Kg		01/15/19 15:04	01/21/19 22:36	5

Client Sample ID: DG-Z9S-0.5-1

Date Collected: 01/09/19 15:30
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-33

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		33 - 120	01/15/19 15:04	01/21/19 22:36	5
Terphenyl-d14	91		35 - 146	01/15/19 15:04	01/21/19 22:36	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**100**		3.9	1.5	mg/Kg		01/11/19 15:04	01/19/19 17:41	2
Motor Oil Range Organics [C24-C36]	**190**		98	20	mg/Kg		01/11/19 15:04	01/19/19 17:41	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	77		40 - 130	01/11/19 15:04	01/19/19 17:41	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**1.4**	**J p**	1.9	0.59	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
4,4'-DDE	**1.2**	**J**	1.9	0.40	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
4,4'-DDT	**3.3**	**p**	1.9	0.39	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Dieldrin	**1.0**	**J p**	1.9	0.57	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Endrin	**2.8**		1.9	0.44	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Endrin ketone	ND	F1	1.9	0.32	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/15/19 15:08	01/19/19 10:43	1
Toxaphene	ND		38	6.5	ug/Kg		01/15/19 15:08	01/19/19 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		21 - 136	01/15/19 15:08	01/19/19 10:43	1
Tetrachloro-m-xylene	78		21 - 145	01/15/19 15:08	01/19/19 10:43	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:25	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:25	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:25	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:25	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:25	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:25	1
Aroclor 1260	**49**		49	17	ug/Kg		01/14/19 14:16	01/16/19 19:25	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-Z9S-0.5-1

Date Collected: 01/09/19 15:30
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-33

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*01/14/19 14:16*	*01/16/19 19:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.6**		1.2	0.20	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Arsenic	**4.2**		2.4	0.21	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Barium	**73**		1.2	0.17	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Beryllium	**0.15**	**J**	0.24	0.079	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Cadmium	**0.53**		0.30	0.030	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Chromium	**15**		1.2	0.13	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Cobalt	**9.9**		0.48	0.048	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Copper	**160**		3.6	1.7	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Lead	**120**		1.2	0.25	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Molybdenum	**0.57**	**J**	1.2	0.16	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Nickel	**11**		1.2	0.12	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Selenium	**0.80**	**J**	2.4	0.36	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Silver	ND		0.61	0.12	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Thallium	ND	L	1.2	0.35	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Vanadium	**71**		1.2	0.16	mg/Kg		01/10/19 10:05	01/14/19 18:51	4
Zinc	**210**		3.6	1.5	mg/Kg		01/10/19 10:05	01/14/19 18:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.017	0.0025	mg/Kg		01/22/19 11:55	01/22/19 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.1**		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: DG-Z9S-3.5-4

Date Collected: 01/09/19 15:32
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-34

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	59	ug/Kg		01/09/19 19:00	01/14/19 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/09/19 19:00*	*01/14/19 17:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/09/19 19:00*	*01/14/19 17:18*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 19:00*	*01/14/19 17:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,1,1-Trichloroethane	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.2	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,1,2-Trichloroethane	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,1-Dichloroethane	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,1-Dichloropropene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,2,4-Trichlorobenzene	ND		4.2	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,2-Dichlorobenzene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,2-Dichloroethane	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,2-Dichloropropane	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,3-Dichlorobenzene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,3-Dichloropropane	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
1,4-Dichlorobenzene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
2-Butanone (MEK)	ND		8.5	4.2	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
2-Hexanone	ND		8.5	4.2	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
4-Isopropyltoluene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Benzene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Bromobenzene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Bromoform	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Bromomethane	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Chlorobenzene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Chlorodibromomethane	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Chloroethane	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Chloroform	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Chloromethane	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
cis-1,2-Dichloroethene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1

Client Sample ID: DG-Z9S-3.5-4
Date Collected: 01/09/19 15:32
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-34
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Dibromomethane	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Dichlorobromomethane	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Ethylbenzene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Ethylene Dibromide	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Isopropylbenzene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Methylene Chloride	ND		8.5	4.2	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Naphthalene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
N-Propylbenzene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Styrene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Tetrachloroethene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Toluene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
trans-1,2-Dichloroethene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
trans-1,3-Dichloropropene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Trichloroethene	ND		0.85	0.42	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		01/09/19 19:00	01/14/19 17:18	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/09/19 19:00	01/14/19 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*	*01/09/19 19:00*	*01/14/19 17:18*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/09/19 19:00*	*01/14/19 17:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**15**		9.7	4.8	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Anthracene	**2.6**	**J**	4.8	1.9	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Benzo[a]anthracene	**4.0**	**J**	4.8	1.5	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Benzo[a]pyrene	ND		4.8	1.8	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Benzo[b]fluoranthene	**19**		4.8	2.0	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Benzo[g,h,i]perylene	ND		4.8	4.2	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Benzo[k]fluoranthene	**4.0**	**J**	4.8	2.0	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Chrysene	**29**	*****	4.8	1.4	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Fluoranthene	**29**		4.8	1.4	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Fluorene	**2.1**	**J**	4.8	2.1	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.1	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Naphthalene	**41**		4.8	3.4	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Phenanthrene	**56**		4.8	1.7	ug/Kg		01/15/19 15:04	01/19/19 17:30	1
Pyrene	**17**		4.8	1.6	ug/Kg		01/15/19 15:04	01/19/19 17:30	1

Client Sample ID: DG-Z9S-3.5-4

Date Collected: 01/09/19 15:32
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-34

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*33 - 120*	*01/15/19 15:04*	*01/19/19 17:30*	*1*
Terphenyl-d14	*112*		*35 - 146*	*01/15/19 15:04*	*01/19/19 17:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**31**		2.0	0.73	mg/Kg		01/11/19 15:04	01/18/19 18:59	1
Motor Oil Range Organics [C24-C36]	**58**		49	9.8	mg/Kg		01/11/19 15:04	01/18/19 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*81*		*40 - 130*	*01/11/19 15:04*	*01/18/19 18:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.57	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
4,4'-DDE	ND		1.9	0.39	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Aldrin	ND		1.9	0.47	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
delta-BHC	ND		1.9	0.41	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Dieldrin	ND		1.9	0.55	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Endosulfan II	ND		1.9	0.46	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Endrin	ND		1.9	0.43	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Endrin aldehyde	ND		1.9	0.59	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
gamma-BHC (Lindane)	**4.4**	**p**	1.9	0.59	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Heptachlor	ND		1.9	0.43	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Methoxychlor	ND		1.9	0.64	ug/Kg		01/15/19 15:08	01/19/19 07:58	1
Toxaphene	ND		38	6.4	ug/Kg		01/15/19 15:08	01/19/19 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*21 - 136*	*01/15/19 15:08*	*01/19/19 07:58*	*1*
Tetrachloro-m-xylene	*66*		*21 - 145*	*01/15/19 15:08*	*01/19/19 07:58*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:16	01/20/19 19:46	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:16	01/20/19 19:46	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:16	01/20/19 19:46	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:16	01/20/19 19:46	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:16	01/20/19 19:46	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:16	01/20/19 19:46	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:16	01/20/19 19:46	1

Client Sample ID: DG-Z9S-3.5-4

Date Collected: 01/09/19 15:32
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-34

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*30*	*X*	*45 - 120*	*01/14/19 14:16*	*01/20/19 19:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	66		4.2	0.70	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Arsenic	28		8.4	0.71	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Barium	1600		4.2	0.60	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Beryllium	0.71	J	0.84	0.27	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Cadmium	5.1		1.1	0.10	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Chromium	48		4.2	0.45	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Cobalt	7.0		1.7	0.17	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Copper	1200		13	6.0	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Lead	15000		4.2	0.88	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Molybdenum	2.3	J	4.2	0.54	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Nickel	37		4.2	0.43	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Selenium	4.4	J	8.4	1.3	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Silver	11		2.1	0.42	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Thallium	ND		4.2	1.2	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Vanadium	30		4.2	0.57	mg/Kg		01/10/19 10:05	01/14/19 18:55	10
Zinc	2900		13	5.3	mg/Kg		01/10/19 10:05	01/14/19 18:55	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.65		0.017	0.0025	mg/Kg		01/22/19 11:55	01/22/19 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.9		0.1	0.05	%			01/10/19 13:33	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DUP-63
Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-35
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	73	ug/Kg		01/09/19 19:00	01/14/19 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*60 - 120*	*01/09/19 19:00*	*01/14/19 17:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/09/19 19:00*	*01/14/19 17:42*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/09/19 19:00*	*01/14/19 17:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,1,1-Trichloroethane	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.2	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,1,2-Trichloroethane	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,1-Dichloroethane	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,1-Dichloroethene	ND		2.1	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,1-Dichloropropene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,2,3-Trichlorobenzene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,2,4-Trichlorobenzene	ND		5.2	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,2,4-Trimethylbenzene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.1	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,2-Dichlorobenzene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,2-Dichloroethane	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,2-Dichloropropane	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,3,5-Trimethylbenzene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,3-Dichlorobenzene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,3-Dichloropropane	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
1,4-Dichlorobenzene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
2,2-Dichloropropane	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
2-Butanone (MEK)	ND		10	5.2	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
2-Chlorotoluene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
2-Hexanone	ND		10	5.2	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
4-Chlorotoluene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
4-Isopropyltoluene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.2	2.6	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Benzene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Bromobenzene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Bromoform	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Bromomethane	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Carbon disulfide	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Carbon tetrachloride	ND		2.1	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Chlorobenzene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Chlorobromomethane	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Chlorodibromomethane	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Chloroethane	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Chloroform	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Chloromethane	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
cis-1,2-Dichloroethene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1

Client Sample ID: DUP-63

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-35

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Dibromomethane	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Dichlorobromomethane	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Dichlorodifluoromethane	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Ethylbenzene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Ethylene Dibromide	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Hexachlorobutadiene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Isopropylbenzene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Methyl tert-butyl ether	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Methylene Chloride	ND		10	5.2	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Naphthalene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
n-Butylbenzene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
N-Propylbenzene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
sec-Butylbenzene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Styrene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
tert-Butylbenzene	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Tetrachloroethene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Toluene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
trans-1,2-Dichloroethene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
trans-1,3-Dichloropropene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Trichloroethene	ND		1.0	0.52	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Trichlorofluoromethane	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Vinyl acetate	ND		8.4	4.2	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Vinyl chloride	ND		2.1	1.0	ug/Kg		01/09/19 19:00	01/14/19 17:42	1
Xylenes, Total	ND		2.1	1.4	ug/Kg		01/09/19 19:00	01/14/19 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*	*01/09/19 19:00*	*01/14/19 17:42*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/09/19 19:00*	*01/14/19 17:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		20	9.8	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Acenaphthene	ND		9.8	5.5	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Acenaphthylene	**12**		9.8	4.7	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Anthracene	**22**		9.8	3.9	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Benzo[a]anthracene	**19**		9.8	2.9	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Benzo[a]pyrene	**21**		9.8	3.7	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Benzo[b]fluoranthene	**38**		9.8	4.1	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Benzo[g,h,i]perylene	**27**		9.8	8.4	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Benzo[k]fluoranthene	**12**		9.8	4.1	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Chrysene	**27**	*	9.8	2.7	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Dibenz(a,h)anthracene	ND		9.8	6.8	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Fluoranthene	**59**		9.8	2.7	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Fluorene	ND		9.8	4.3	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Indeno[1,2,3-cd]pyrene	**14**		9.8	8.2	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Naphthalene	**11**		9.8	6.8	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Phenanthrene	**31**		9.8	3.5	ug/Kg		01/15/19 15:04	01/22/19 06:16	2
Pyrene	**52**		9.8	3.3	ug/Kg		01/15/19 15:04	01/22/19 06:16	2

Client Sample ID: DUP-63

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-35

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*33 - 120*	*01/15/19 15:04*	*01/22/19 06:16*	*2*
Terphenyl-d14	*100*		*35 - 146*	*01/15/19 15:04*	*01/22/19 06:16*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**62**		2.0	0.74	mg/Kg		01/11/19 15:04	01/21/19 12:19	1
Motor Oil Range Organics [C24-C36]	**130**		50	9.9	mg/Kg		01/11/19 15:04	01/21/19 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*80*		*40 - 130*	*01/11/19 15:04*	*01/21/19 12:19*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.57	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
4,4'-DDE	ND		1.9	0.39	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
4,4'-DDT	**13**		1.9	0.38	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Aldrin	ND		1.9	0.47	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
delta-BHC	ND		1.9	0.41	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Dieldrin	ND		1.9	0.55	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Endosulfan II	ND		1.9	0.46	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Endrin	ND		1.9	0.43	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Endrin aldehyde	ND		1.9	0.59	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
gamma-BHC (Lindane)	ND		1.9	0.59	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Heptachlor	ND		1.9	0.43	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Methoxychlor	ND		1.9	0.64	ug/Kg		01/15/19 15:08	01/19/19 08:15	1
Toxaphene	ND		38	6.4	ug/Kg		01/15/19 15:08	01/19/19 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*21 - 136*	*01/15/19 15:08*	*01/19/19 08:15*	*1*
Tetrachloro-m-xylene	*88*		*21 - 145*	*01/15/19 15:08*	*01/19/19 08:15*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:30	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:30	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:30	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:30	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:30	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:30	1
Aroclor 1260	**23**	**J**	50	17	ug/Kg		01/14/19 14:16	01/16/19 16:30	1

Client Sample ID: DUP-63

Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-35

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*45 - 120*	*01/14/19 14:16*	*01/16/19 16:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.6**		1.4	0.24	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Arsenic	**4.6**		2.9	0.24	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Barium	**50**		1.4	0.20	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Beryllium	**0.094**	**J**	0.29	0.093	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Cadmium	**0.28**	**J**	0.36	0.035	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Chromium	**12**		1.4	0.15	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Cobalt	**9.5**		0.57	0.057	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Copper	**130**		4.3	2.0	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Lead	**76**		1.4	0.30	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Molybdenum	**0.57**	**J**	1.4	0.18	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Nickel	**10**		1.4	0.15	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Selenium	**0.76**	**J**	2.9	0.43	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Silver	**0.32**	**J**	0.71	0.14	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Thallium	ND	L	1.4	0.41	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Vanadium	**72**		1.4	0.19	mg/Kg		01/10/19 10:05	01/14/19 19:00	4
Zinc	**110**		4.3	1.8	mg/Kg		01/10/19 10:05	01/14/19 19:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.017	0.0025	mg/Kg		01/22/19 11:55	01/22/19 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.05	%			01/10/19 13:33	1

Client Sample ID: FB-1.9.19
Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-36
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/21/19 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*01/21/19 17:14*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*01/21/19 17:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/21/19 17:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Acetone	ND		20	10	ug/L			01/21/19 17:14	1
Benzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Bromobenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Bromoform	ND		1.0	0.40	ug/L			01/21/19 17:14	1
Bromomethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/21/19 17:14	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/21/19 17:14	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/21/19 17:14	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Chloroethane	ND		1.0	0.40	ug/L			01/21/19 17:14	1
Chloroform	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Chloromethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/21/19 17:14	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Dibromomethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/21/19 17:14	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/21/19 17:14	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: FB-1.9.19
Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-36
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/21/19 17:14	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/21/19 17:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/21/19 17:14	1
Naphthalene	ND		1.0	0.40	ug/L			01/21/19 17:14	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Styrene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Toluene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/21/19 17:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/21/19 17:14	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Trichloroethene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/21/19 17:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/21/19 17:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/21/19 17:14	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/21/19 17:14	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/21/19 17:14	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/21/19 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*01/21/19 17:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/21/19 17:14*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		DCA	TOL										
Lab Sample ID	Client Sample ID	(70-130)	(79-123)										
720-90673-1	DG-Y7S-0.5-1	112	104										
720-90673-2	DG-Y7S-3.5-4	124	102										
720-90673-3	DG-AA7S-0.5-1	129	101										
720-90673-4	DG-AA7S-3.5-4	128	99										
720-90673-5	DG-AC7S-0.5-1	131 X	99										
720-90673-6	DG-AC7S-3.5-4	129	100										
720-90673-7	DUP-47	132 X	98										
720-90673-8	DG-AC7S-7.5-8	129	100										
720-90673-9	DG-AE7S-0.5-1	129	98										
720-90673-10	DG-AE7S-3.5-4	138 X	95										
720-90673-11	DG-AE7S-8-8.5	129	97										
720-90673-12	DG-AI7S-0.5-1	125	100										
720-90673-13	DG-AI7S-3.5-4	130	100										
720-90673-14	DG-AI7S-8-8.5	122	102										
720-90673-15	DG-AK7S-0.5-1	133 X	98										
720-90673-16	DG-AK7S-3.5-4	133 X	99										
720-90673-17	DUP-48	129	99										
720-90673-18	DG-AM7S-0.5-1	130	99										
720-90673-19	DG-AM7S-3.5-4	127	97										
720-90673-20	DG-AM7S-7.5-8	126	101										
720-90673-21	DG-AO7S-0.5-1	122	101										
720-90673-22	DG-AO7S-3.5-4	130	97										
720-90673-23	DG-AS7S-0.5-1	126	101										
720-90673-24	DG-AS7S-3.5-4	133 X	99										
720-90673-25	DG-AU7S-0.5-1	128	99										
720-90673-26	DG-AU7S-3.5-4	134 X	99										
720-90673-27	DUP-50	130	98										
720-90673-28	DG-AR9S-0.5-1	133 X	100										
720-90673-29	DG-AR9S-3.5-4	136 X	100										
720-90673-30	DUP-65	130	98										
720-90673-31	DG-AD9S-0.5-1	131 X	98										
720-90673-32	DG-AD9S-3.5-4	131 X	97										
720-90673-33	DG-Z9S-0.5-1	131 X	97										
720-90673-34	DG-Z9S-3.5-4	133 X	101										
720-90673-35	DUP-63	133 X	95										
LCS 440-522143/5	Lab Control Sample	125	98										
LCS 440-522204/5	Lab Control Sample	131 X	96										
LCSD 440-522143/6	Lab Control Sample Dup	131 X	95										
LCSD 440-522204/6	Lab Control Sample Dup	131 X	94										
MB 440-522143/4	Method Blank	138 X	96										
MB 440-522204/4	Method Blank	129	100										

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCA	TOL								
Lab Sample ID	Client Sample ID	(70-130)	(80-128)								
440-230290-B-1 MS	Matrix Spike	120	99								
440-230290-B-1 MSD	Matrix Spike Duplicate	115	102								
720-90673-36	FB-1.9.19	120	100								
LCS 440-523698/8	Lab Control Sample	118	103								
MB 440-523698/6	Method Blank	120	104								

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DBFM	BFB	TOL							
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)							
720-90673-1	DG-Y7S-0.5-1	106	109	104							
720-90673-2	DG-Y7S-3.5-4	108	107	102							
720-90673-3	DG-AA7S-0.5-1	108	111	101							
720-90673-4	DG-AA7S-3.5-4	111	105	99							
720-90673-5	DG-AC7S-0.5-1	107	110	99							
720-90673-6	DG-AC7S-3.5-4	107	105	100							
720-90673-7	DUP-47	112	103	98							
720-90673-8	DG-AC7S-7.5-8	107	107	100							
720-90673-9	DG-AE7S-0.5-1	110	100	98							
720-90673-10	DG-AE7S-3.5-4	113	106	95							
720-90673-11	DG-AE7S-8-8.5	107	102	97							
720-90673-12	DG-AI7S-0.5-1	107	105	100							
720-90673-13	DG-AI7S-3.5-4	106	104	100							
720-90673-14	DG-AI7S-8-8.5	109	104	102							
720-90673-15	DG-AK7S-0.5-1	110	101	98							
720-90673-16	DG-AK7S-3.5-4	110	103	99							
720-90673-17	DUP-48	109	103	99							
720-90673-18	DG-AM7S-0.5-1	110	104	99							
720-90673-19	DG-AM7S-3.5-4	108	106	97							
720-90673-20	DG-AM7S-7.5-8	109	105	101							
720-90673-21	DG-AO7S-0.5-1	104	104	101							
720-90673-22	DG-AO7S-3.5-4	109	103	97							
720-90673-23	DG-AS7S-0.5-1	107	104	101							
720-90673-24	DG-AS7S-3.5-4	107	104	99							
720-90673-25	DG-AU7S-0.5-1	107	103	99							
720-90673-26	DG-AU7S-3.5-4	110	102	99							
720-90673-27	DUP-50	107	104	98							
720-90673-28	DG-AR9S-0.5-1	111	103	100							
720-90673-29	DG-AR9S-3.5-4	108	104	100							
720-90673-30	DUP-65	110	100	98							
720-90673-31	DG-AD9S-0.5-1	106	104	98							
720-90673-32	DG-AD9S-3.5-4	107	101	97							
720-90673-33	DG-Z9S-0.5-1	108	104	97							

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-90673-34	DG-Z9S-3.5-4	110	102	101
720-90673-35	DUP-63	111	101	95
LCS 440-522144/7	Lab Control Sample	105	104	101
LCS 440-522205/7	Lab Control Sample	107	105	98
LCSD 440-522144/8	Lab Control Sample Dup	108	104	100
LCSD 440-522205/8	Lab Control Sample Dup	106	103	100
MB 440-522144/4	Method Blank	112	101	96
MB 440-522205/4	Method Blank	107	102	100

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-230290-B-1 MS	Matrix Spike	109	111	99
440-230290-B-1 MSD	Matrix Spike Duplicate	106	105	102
720-90673-36	FB-1.9.19	108	109	100
LCS 440-523699/9	Lab Control Sample	108	114	105
MB 440-523699/6	Method Blank	106	111	104

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-90640-E-21-F MS	Matrix Spike	82	113
720-90640-E-21-G MSD	Matrix Spike Duplicate	76	107
720-90655-A-1-L MS	Matrix Spike	80	109
720-90655-A-1-M MSD	Matrix Spike Duplicate	78	110
720-90673-1	DG-Y7S-0.5-1	78	103
720-90673-2	DG-Y7S-3.5-4	77	85
720-90673-3	DG-AA7S-0.5-1	84	100
720-90673-4	DG-AA7S-3.5-4	71	101
720-90673-5	DG-AC7S-0.5-1	82	98
720-90673-6	DG-AC7S-3.5-4	79	103
720-90673-7	DUP-47	77	98
720-90673-8	DG-AC7S-7.5-8	79	103
720-90673-9	DG-AE7S-0.5-1	72	110

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)
720-90673-10	DG-AE7S-3.5-4	79	93
720-90673-11	DG-AE7S-8-8.5	69	91
720-90673-12	DG-AI7S-0.5-1	80	99
720-90673-13	DG-AI7S-3.5-4	72	111
720-90673-14	DG-AI7S-8-8.5	74	79
720-90673-15	DG-AK7S-0.5-1	76	104
720-90673-16	DG-AK7S-3.5-4	65	86
720-90673-17	DUP-48	76	93
720-90673-18	DG-AM7S-0.5-1	67	86
720-90673-19	DG-AM7S-3.5-4	64	80
720-90673-19 MS	DG-AM7S-3.5-4	62	84
720-90673-19 MSD	DG-AM7S-3.5-4	68	91
720-90673-20	DG-AM7S-7.5-8	87	112
720-90673-21	DG-AO7S-0.5-1	75	104
720-90673-22	DG-AO7S-3.5-4	76	98
720-90673-23	DG-AS7S-0.5-1	70	83
720-90673-24	DG-AS7S-3.5-4	81	107
720-90673-25	DG-AU7S-0.5-1	84	118
720-90673-26	DG-AU7S-3.5-4	85	106
720-90673-27	DUP-50	79	94
720-90673-28	DG-AR9S-0.5-1	74	92
720-90673-29	DG-AR9S-3.5-4	92	120
720-90673-30	DUP-65	85	116
720-90673-31	DG-AD9S-0.5-1	74	87
720-90673-32	DG-AD9S-3.5-4	86	106
720-90673-33	DG-Z9S-0.5-1	76	91
720-90673-34	DG-Z9S-3.5-4	86	112
720-90673-35	DUP-63	80	100
LCS 720-258380/2-A	Lab Control Sample	79	105
LCS 720-258535/2-A	Lab Control Sample	75	98
LCS 720-258562/2-A	Lab Control Sample	76	108
MB 720-258380/1-A	Method Blank	76	99
MB 720-258535/1-A	Method Blank	82	107
MB 720-258562/1-A	Method Blank	87	115

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-90642-D-1-A MS	Matrix Spike	95
720-90642-D-1-B MSD	Matrix Spike Duplicate	94
720-90673-1	DG-Y7S-0.5-1	90
720-90673-2	DG-Y7S-3.5-4	59

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TPH1 (40-130)						
720-90673-3	DG-AA7S-0.5-1	93						
720-90673-4	DG-AA7S-3.5-4	94						
720-90673-5	DG-AC7S-0.5-1	87						
720-90673-6	DG-AC7S-3.5-4	58						
720-90673-7	DUP-47	92						
720-90673-8	DG-AC7S-7.5-8	102						
720-90673-9	DG-AE7S-0.5-1	108						
720-90673-10	DG-AE7S-3.5-4	76						
720-90673-11	DG-AE7S-8-8.5	104						
720-90673-12	DG-AI7S-0.5-1	0 X D						
720-90673-13	DG-AI7S-3.5-4	103						
720-90673-14	DG-AI7S-8-8.5	70						
720-90673-15	DG-AK7S-0.5-1	74						
720-90673-16	DG-AK7S-3.5-4	89						
720-90673-17	DUP-48	99						
720-90673-18	DG-AM7S-0.5-1	97						
720-90673-19	DG-AM7S-3.5-4	97						
720-90673-20	DG-AM7S-7.5-8	99						
720-90673-21	DG-AO7S-0.5-1	105						
720-90673-22	DG-AO7S-3.5-4	104						
720-90673-23	DG-AS7S-0.5-1	99						
720-90673-24	DG-AS7S-3.5-4	128						
720-90673-25	DG-AU7S-0.5-1	112						
720-90673-26	DG-AU7S-3.5-4	75						
720-90673-27	DUP-50	103						
720-90673-28	DG-AR9S-0.5-1	0 X D						
720-90673-29	DG-AR9S-3.5-4	87						
720-90673-30	DUP-65	80						
720-90673-31	DG-AD9S-0.5-1	0 X D						
720-90673-32	DG-AD9S-3.5-4	65						
720-90673-33	DG-Z9S-0.5-1	77						
720-90673-34	DG-Z9S-3.5-4	81						
720-90673-35	DUP-63	80						
720-90698-E-4-G MS	Matrix Spike	106						
720-90698-E-4-H MSD	Matrix Spike Duplicate	98						
720-90700-B-1-G MS	Matrix Spike	125						
720-90700-B-1-H MSD	Matrix Spike Duplicate	122						
LCS 720-258287/2-A	Lab Control Sample	108						
LCS 720-258377/2-A	Lab Control Sample	122						
LCS 720-258386/2-A	Lab Control Sample	127						
MB 720-258287/1-A	Method Blank	93						
MB 720-258377/1-A	Method Blank	112						
MB 720-258386/1-A	Method Blank	110						

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX1 (21-145)
720-90655-A-7-D MS	Matrix Spike	97	95 p
720-90655-A-7-E MSD	Matrix Spike Duplicate	99	91
720-90673-2	DG-Y7S-3.5-4	83	96
720-90673-5	DG-AC7S-0.5-1	54 p	57
720-90673-7	DUP-47	68	83
720-90673-10	DG-AE7S-3.5-4	91	83
720-90673-24	DG-AS7S-3.5-4	95	91
720-90673-26	DG-AU7S-3.5-4	84	90
720-90673-27	DUP-50	89	71
720-90673-33 MS	DG-Z9S-0.5-1	104	85

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX1 (21-145)
720-90673-1	DG-Y7S-0.5-1	85	97
720-90673-9	DG-AE7S-0.5-1	153 X	90
720-90673-12	DG-AI7S-0.5-1	125	89
720-90673-13	DG-AI7S-3.5-4	101	80
720-90673-14	DG-AI7S-8-8.5	90	77
720-90673-15	DG-AK7S-0.5-1	112 p	78
720-90673-21	DG-AO7S-0.5-1	92	84
720-90673-22	DG-AO7S-3.5-4	108	81
720-90673-28	DG-AR9S-0.5-1	91	71
720-90673-29	DG-AR9S-3.5-4	85	70
720-90673-30	DUP-65	89	90
720-90673-31	DG-AD9S-0.5-1	81	76
720-90673-33	DG-Z9S-0.5-1	104	78
720-90673-33 MSD	DG-Z9S-0.5-1	73	85
720-90673-35	DUP-63	97	88

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX2 (21-145)
720-90673-3	DG-AA7S-0.5-1	81	83
720-90673-4	DG-AA7S-3.5-4	80	92
720-90673-6	DG-AC7S-3.5-4	68	65

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX2 (21-145)
720-90673-10 MS	DG-AE7S-3.5-4	107	94
720-90673-10 MSD	DG-AE7S-3.5-4	111	92
720-90673-11	DG-AE7S-8-8.5	96	83
720-90673-17	DUP-48	111	85
720-90673-18	DG-AM7S-0.5-1	1378 X	77
720-90673-20	DG-AM7S-7.5-8	80	101
720-90673-23	DG-AS7S-0.5-1	78	67
720-90673-25	DG-AU7S-0.5-1	79	75
720-90673-32	DG-AD9S-3.5-4	59	70
720-90673-34	DG-Z9S-3.5-4	61	66
LCS 720-258308/2-A	Lab Control Sample	112	87
LCS 720-258564/2-A	Lab Control Sample	114	94
MB 720-258308/1-A	Method Blank	110	85
MB 720-258564/1-A	Method Blank	117	101

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX2 (21-145)
720-90673-8	DG-AC7S-7.5-8	79	84
720-90673-16	DG-AK7S-3.5-4	96	83
720-90673-19	DG-AM7S-3.5-4	101	85
LCS 720-258271/2-A	Lab Control Sample	113	81
MB 720-258271/1-A	Method Blank	109	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
720-90673-1	DG-Y7S-0.5-1	95
720-90673-2	DG-Y7S-3.5-4	70
720-90673-3	DG-AA7S-0.5-1	98
720-90673-3 - DL	DG-AA7S-0.5-1	79
720-90673-4	DG-AA7S-3.5-4	90
720-90673-5	DG-AC7S-0.5-1	99
720-90673-6	DG-AC7S-3.5-4	84
720-90673-7	DUP-47	88
720-90673-8	DG-AC7S-7.5-8	87

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DCB2 (45-120)						
720-90673-9	DG-AE7S-0.5-1	107						
720-90673-10	DG-AE7S-3.5-4	67						
720-90673-11	DG-AE7S-8-8.5	89						
720-90673-12	DG-AI7S-0.5-1	120						
720-90673-12 - DL	DG-AI7S-0.5-1	104						
720-90673-13	DG-AI7S-3.5-4	68						
720-90673-14	DG-AI7S-8-8.5	50						
720-90673-15	DG-AK7S-0.5-1	108						
720-90673-15 - DL	DG-AK7S-0.5-1	96						
720-90673-16	DG-AK7S-3.5-4	56						
720-90673-17	DUP-48	68						
720-90673-18	DG-AM7S-0.5-1	800 X						
720-90673-18 - DL	DG-AM7S-0.5-1	571 X						
720-90673-19	DG-AM7S-3.5-4	80						
720-90673-20	DG-AM7S-7.5-8	36 X						
720-90673-21	DG-AO7S-0.5-1	113						
720-90673-21 - DL	DG-AO7S-0.5-1	119						
720-90673-22	DG-AO7S-3.5-4	70						
720-90673-23	DG-AS7S-0.5-1	87						
720-90673-24	DG-AS7S-3.5-4	69						
720-90673-25	DG-AU7S-0.5-1	89						
720-90673-26	DG-AU7S-3.5-4	74						
720-90673-27	DUP-50	75						
720-90673-28	DG-AR9S-0.5-1	59						
720-90673-29	DG-AR9S-3.5-4	85						
720-90673-30	DUP-65	67						
720-90673-31	DG-AD9S-0.5-1	94						
720-90673-32	DG-AD9S-3.5-4	57						
720-90673-33	DG-Z9S-0.5-1	91						
720-90673-34	DG-Z9S-3.5-4	30 X						
720-90673-35	DUP-63	67						
720-90698-F-31-A MS	Matrix Spike	76						
720-90698-F-31-B MSD	Matrix Spike Duplicate	68						
720-90698-F-34-A MS	Matrix Spike	89						
720-90698-F-34-B MSD	Matrix Spike Duplicate	89						
LCS 440-522323/2-A	Lab Control Sample	99						
LCS 440-522324/2-A	Lab Control Sample	102						
MB 440-522323/1-A	Method Blank	95						
MB 440-522324/1-A	Method Blank	98						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-522143/4
Matrix: Solid
Analysis Batch: 522143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/13/19 11:37	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/13/19 11:37	1
Benzene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Bromoform	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/13/19 11:37	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/13/19 11:37	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Chloroform	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
2-Hexanone	ND		10	5.0	ug/Kg			01/13/19 11:37	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/13/19 11:37	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/13/19 11:37	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/13/19 11:37	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522143/4
Matrix: Solid
Analysis Batch: 522143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Styrene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/13/19 11:37	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/13/19 11:37	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Toluene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/13/19 11:37	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/13/19 11:37	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/13/19 11:37	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/13/19 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*138*	*X*	*70 - 130*		*01/13/19 11:37*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/13/19 11:37*	*1*

Lab Sample ID: LCS 440-522143/5
Matrix: Solid
Analysis Batch: 522143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	46.5		ug/Kg		93	75 - 120
1,3-Dichlorobenzene	50.0	47.6		ug/Kg		95	75 - 125
2-Butanone (MEK)	50.0	50.0		ug/Kg		100	40 - 145
1,4-Dichlorobenzene	50.0	47.3		ug/Kg		95	75 - 120
2-Chlorotoluene	50.0	47.8		ug/Kg		96	70 - 125
1,3-Dichloropropane	50.0	47.7		ug/Kg		95	70 - 125
1,1-Dichloropropene	50.0	46.5		ug/Kg		93	70 - 130
4-Chlorotoluene	50.0	49.6		ug/Kg		99	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.1		ug/Kg		108	50 - 135
Benzene	50.0	44.9		ug/Kg		90	65 - 120
Bromobenzene	50.0	47.9		ug/Kg		96	75 - 120
1,1-Dichloroethane	50.0	48.2		ug/Kg		96	70 - 130
Bromoform	50.0	49.9		ug/Kg		100	55 - 135
1,2-Dichloroethane	50.0	54.6		ug/Kg		109	60 - 140
Bromomethane	50.0	49.1		ug/Kg		98	60 - 145
1,1-Dichloroethene	50.0	46.7		ug/Kg		93	70 - 125
Carbon disulfide	50.0	44.4		ug/Kg		89	50 - 130
Carbon tetrachloride	50.0	52.6		ug/Kg		105	65 - 140
Chlorobenzene	50.0	44.5		ug/Kg		89	75 - 120
1,2-Dichloropropane	50.0	51.9		ug/Kg		104	70 - 130
Chlorobromomethane	50.0	48.3		ug/Kg		97	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522143/5
Matrix: Solid
Analysis Batch: 522143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	50.0	50.9		ug/Kg		102	65 - 140
Chloroethane	50.0	47.3		ug/Kg		95	60 - 140
Chloroform	50.0	50.4		ug/Kg		101	70 - 130
Chloromethane	50.0	40.8		ug/Kg		82	45 - 145
2-Hexanone	50.0	67.5		ug/Kg		135	40 - 150
cis-1,2-Dichloroethene	50.0	44.8		ug/Kg		90	70 - 125
cis-1,3-Dichloropropene	50.0	50.1		ug/Kg		100	75 - 125
4-Isopropyltoluene	50.0	48.2		ug/Kg		96	75 - 125
Dibromomethane	50.0	45.6		ug/Kg		91	70 - 130
Dichlorobromomethane	50.0	53.7		ug/Kg		107	70 - 135
4-Methyl-2-pentanone (MIBK)	50.0	65.6		ug/Kg		131	40 - 145
Dichlorodifluoromethane	50.0	39.8		ug/Kg		80	35 - 160
Ethylbenzene	50.0	45.6		ug/Kg		91	70 - 125
Ethylene Dibromide	50.0	46.1		ug/Kg		92	70 - 130
Hexachlorobutadiene	50.0	39.4		ug/Kg		79	60 - 135
1,1,1,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	70 - 130
Isopropylbenzene	50.0	45.8		ug/Kg		92	75 - 130
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	55 - 140
Methyl tert-butyl ether	50.0	49.7		ug/Kg		99	60 - 140
Methylene Chloride	50.0	42.4		ug/Kg		85	55 - 135
1,2,3-Trichlorobenzene	50.0	41.0		ug/Kg		82	60 - 130
Naphthalene	50.0	42.6		ug/Kg		85	55 - 135
1,2,4-Trichlorobenzene	50.0	42.0		ug/Kg		84	70 - 135
n-Butylbenzene	50.0	49.5		ug/Kg		99	70 - 130
1,1,1-Trichloroethane	50.0	52.4		ug/Kg		105	65 - 135
N-Propylbenzene	50.0	48.6		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	49.6		ug/Kg		99	65 - 135
sec-Butylbenzene	50.0	47.9		ug/Kg		96	70 - 125
Styrene	50.0	45.5		ug/Kg		91	75 - 130
1,2,3-Trichloropropane	50.0	52.7		ug/Kg		105	60 - 135
tert-Butylbenzene	50.0	46.9		ug/Kg		94	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.0		ug/Kg		96	60 - 140
Tetrachloroethene	50.0	42.8		ug/Kg		86	70 - 125
1,2,4-Trimethylbenzene	50.0	48.5		ug/Kg		97	70 - 125
Toluene	50.0	43.0		ug/Kg		86	70 - 125
1,3,5-Trimethylbenzene	50.0	48.2		ug/Kg		96	70 - 125
trans-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	70 - 125
trans-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	70 - 135
m-Xylene & p-Xylene	50.0	46.8		ug/Kg		94	70 - 125
Trichloroethene	50.0	45.8		ug/Kg		92	70 - 125
o-Xylene	50.0	45.3		ug/Kg		91	70 - 125
Trichlorofluoromethane	50.0	52.5		ug/Kg		105	60 - 145
Vinyl acetate	50.0	65.6		ug/Kg		131	45 - 145
Vinyl chloride	50.0	38.9		ug/Kg		78	55 - 135
2,2-Dichloropropane	50.0	50.8		ug/Kg		102	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522143/5
Matrix: Solid
Analysis Batch: 522143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	125		70 - 130
Toluene-d8 (Surr)	98		79 - 123

Lab Sample ID: LCSD 440-522143/6
Matrix: Solid
Analysis Batch: 522143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	40.9		ug/Kg		82	75 - 120	13	20
1,3-Dichlorobenzene			50.0	41.4		ug/Kg		83	75 - 125	14	20
2-Butanone (MEK)			50.0	50.5		ug/Kg		101	40 - 145	1	35
1,4-Dichlorobenzene			50.0	40.7		ug/Kg		81	75 - 120	15	20
2-Chlorotoluene			50.0	40.9		ug/Kg		82	70 - 125	16	20
1,3-Dichloropropane			50.0	45.9		ug/Kg		92	70 - 125	4	20
1,1-Dichloropropene			50.0	43.6		ug/Kg		87	70 - 130	6	20
4-Chlorotoluene			50.0	42.6		ug/Kg		85	75 - 125	15	20
1,2-Dibromo-3-Chloropropane			50.0	50.3		ug/Kg		101	50 - 135	7	30
Benzene			50.0	43.3		ug/Kg		87	65 - 120	4	20
Bromobenzene			50.0	41.7		ug/Kg		83	75 - 120	14	20
1,1-Dichloroethane			50.0	45.8		ug/Kg		92	70 - 130	5	20
Bromoform			50.0	47.2		ug/Kg		94	55 - 135	5	25
1,2-Dichloroethane			50.0	52.2		ug/Kg		104	60 - 140	5	20
Bromomethane			50.0	47.1		ug/Kg		94	60 - 145	4	20
1,1-Dichloroethene			50.0	43.7		ug/Kg		87	70 - 125	7	20
Carbon disulfide			50.0	40.7		ug/Kg		81	50 - 130	9	20
Carbon tetrachloride			50.0	47.9		ug/Kg		96	65 - 140	9	20
Chlorobenzene			50.0	40.5		ug/Kg		81	75 - 120	9	20
1,2-Dichloropropane			50.0	50.4		ug/Kg		101	70 - 130	3	20
Chlorobromomethane			50.0	45.4		ug/Kg		91	70 - 135	6	20
Chlorodibromomethane			50.0	47.7		ug/Kg		95	65 - 140	7	20
Chloroethane			50.0	45.3		ug/Kg		91	60 - 140	4	25
Chloroform			50.0	46.3		ug/Kg		93	70 - 130	8	20
Chloromethane			50.0	41.0		ug/Kg		82	45 - 145	0	25
2-Hexanone			50.0	66.1		ug/Kg		132	40 - 150	2	35
cis-1,2-Dichloroethene			50.0	43.0		ug/Kg		86	70 - 125	4	20
cis-1,3-Dichloropropene			50.0	46.3		ug/Kg		93	75 - 125	8	20
4-Isopropyltoluene			50.0	40.9		ug/Kg		82	75 - 125	16	20
Dibromomethane			50.0	45.1		ug/Kg		90	70 - 130	1	20
Dichlorobromomethane			50.0	51.0		ug/Kg		102	70 - 135	5	20
4-Methyl-2-pentanone (MIBK)			50.0	66.3		ug/Kg		133	40 - 145	1	35
Dichlorodifluoromethane			50.0	39.0		ug/Kg		78	35 - 160	2	30
Ethylbenzene			50.0	42.1		ug/Kg		84	70 - 125	8	20
Ethylene Dibromide			50.0	43.7		ug/Kg		87	70 - 130	5	20
Hexachlorobutadiene			50.0	33.6		ug/Kg		67	60 - 135	16	20
1,1,1,2-Tetrachloroethane			50.0	43.8		ug/Kg		88	70 - 130	9	20
Isopropylbenzene			50.0	42.3		ug/Kg		85	75 - 130	8	20
1,1,2,2-Tetrachloroethane			50.0	44.4		ug/Kg		89	55 - 140	11	30
Methyl tert-butyl ether			50.0	46.8		ug/Kg		94	60 - 140	6	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522143/6
Matrix: Solid
Analysis Batch: 522143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			50.0	40.1		ug/Kg		80	55 - 135	5	20
1,2,3-Trichlorobenzene			50.0	37.8		ug/Kg		76	60 - 130	8	20
Naphthalene			50.0	40.5		ug/Kg		81	55 - 135	5	25
1,2,4-Trichlorobenzene			50.0	36.9		ug/Kg		74	70 - 135	13	20
n-Butylbenzene			50.0	42.0		ug/Kg		84	70 - 130	16	20
1,1,1-Trichloroethane			50.0	48.7		ug/Kg		97	65 - 135	7	20
N-Propylbenzene			50.0	42.1		ug/Kg		84	70 - 130	14	20
1,1,2-Trichloroethane			50.0	47.5		ug/Kg		95	65 - 135	4	20
sec-Butylbenzene			50.0	41.0		ug/Kg		82	70 - 125	16	20
Styrene			50.0	42.9		ug/Kg		86	75 - 130	6	20
1,2,3-Trichloropropane			50.0	48.2		ug/Kg		96	60 - 135	9	25
tert-Butylbenzene			50.0	40.6		ug/Kg		81	70 - 125	14	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	42.1		ug/Kg		84	60 - 140	13	40
Tetrachloroethene			50.0	39.4		ug/Kg		79	70 - 125	8	20
1,2,4-Trimethylbenzene			50.0	41.9		ug/Kg		84	70 - 125	15	20
Toluene			50.0	39.2		ug/Kg		78	70 - 125	9	20
1,3,5-Trimethylbenzene			50.0	41.4		ug/Kg		83	70 - 125	15	20
trans-1,2-Dichloroethene			50.0	43.9		ug/Kg		88	70 - 125	5	20
trans-1,3-Dichloropropene			50.0	48.6		ug/Kg		97	70 - 135	7	20
m-Xylene & p-Xylene			50.0	42.1		ug/Kg		84	70 - 125	11	20
Trichloroethene			50.0	42.1		ug/Kg		84	70 - 125	9	20
o-Xylene			50.0	42.0		ug/Kg		84	70 - 125	8	20
Trichlorofluoromethane			50.0	49.0		ug/Kg		98	60 - 145	7	25
Vinyl acetate			50.0	64.8		ug/Kg		130	45 - 145	1	20
Vinyl chloride			50.0	38.2		ug/Kg		76	55 - 135	2	25
2,2-Dichloropropane			50.0	46.1		ug/Kg		92	60 - 145	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*
Toluene-d8 (Surr)	*95*		*79 - 123*

Lab Sample ID: MB 440-522204/4
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/14/19 08:23	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/14/19 08:23	1
Benzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522204/4
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Bromoform	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/14/19 08:23	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/14/19 08:23	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Chloroform	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
2-Hexanone	ND		10	5.0	ug/Kg			01/14/19 08:23	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/14/19 08:23	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/14/19 08:23	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/14/19 08:23	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Styrene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/14/19 08:23	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/14/19 08:23	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Toluene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522204/4
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.50	ug/Kg			01/14/19 08:23	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/14/19 08:23	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/14/19 08:23	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/14/19 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*01/14/19 08:23*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/14/19 08:23*	*1*

Lab Sample ID: LCS 440-522204/5
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	43.7		ug/Kg		87	75 - 120
1,3-Dichlorobenzene	50.0	45.0		ug/Kg		90	75 - 125
2-Butanone (MEK)	50.0	48.8		ug/Kg		98	40 - 145
1,4-Dichlorobenzene	50.0	46.1		ug/Kg		92	75 - 120
2-Chlorotoluene	50.0	44.9		ug/Kg		90	70 - 125
1,3-Dichloropropane	50.0	47.3		ug/Kg		95	70 - 125
1,1-Dichloropropene	50.0	46.0		ug/Kg		92	70 - 130
4-Chlorotoluene	50.0	46.7		ug/Kg		93	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/Kg		99	50 - 135
Benzene	50.0	45.4		ug/Kg		91	65 - 120
Bromobenzene	50.0	46.0		ug/Kg		92	75 - 120
1,1-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 130
Bromoform	50.0	49.9		ug/Kg		100	55 - 135
1,2-Dichloroethane	50.0	56.6		ug/Kg		113	60 - 140
Bromomethane	50.0	48.8		ug/Kg		98	60 - 145
1,1-Dichloroethene	50.0	45.5		ug/Kg		91	70 - 125
Carbon disulfide	50.0	43.4		ug/Kg		87	50 - 130
Carbon tetrachloride	50.0	53.6		ug/Kg		107	65 - 140
Chlorobenzene	50.0	42.5		ug/Kg		85	75 - 120
1,2-Dichloropropane	50.0	49.9		ug/Kg		100	70 - 130
Chlorobromomethane	50.0	48.5		ug/Kg		97	70 - 135
Chlorodibromomethane	50.0	49.8		ug/Kg		100	65 - 140
Chloroethane	50.0	49.5		ug/Kg		99	60 - 140
Chloroform	50.0	50.0		ug/Kg		100	70 - 130
Chloromethane	50.0	40.2		ug/Kg		80	45 - 145
2-Hexanone	50.0	66.3		ug/Kg		133	40 - 150
cis-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	70 - 125
cis-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	75 - 125
4-Isopropyltoluene	50.0	46.0		ug/Kg		92	75 - 125
Dibromomethane	50.0	46.7		ug/Kg		93	70 - 130
Dichlorobromomethane	50.0	52.4		ug/Kg		105	70 - 135
4-Methyl-2-pentanone (MIBK)	50.0	62.4		ug/Kg		125	40 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522204/5
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	42.0		ug/Kg		84	35 - 160
Ethylbenzene	50.0	45.0		ug/Kg		90	70 - 125
Ethylene Dibromide	50.0	46.0		ug/Kg		92	70 - 130
Hexachlorobutadiene	50.0	38.3		ug/Kg		77	60 - 135
1,1,1,2-Tetrachloroethane	50.0	47.4		ug/Kg		95	70 - 130
Isopropylbenzene	50.0	45.3		ug/Kg		91	75 - 130
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	55 - 140
Methyl tert-butyl ether	50.0	48.9		ug/Kg		98	60 - 140
Methylene Chloride	50.0	42.8		ug/Kg		86	55 - 135
1,2,3-Trichlorobenzene	50.0	39.1		ug/Kg		78	60 - 130
Naphthalene	50.0	40.8		ug/Kg		82	55 - 135
1,2,4-Trichlorobenzene	50.0	39.4		ug/Kg		79	70 - 135
n-Butylbenzene	50.0	46.7		ug/Kg		93	70 - 130
1,1,1-Trichloroethane	50.0	52.3		ug/Kg		105	65 - 135
N-Propylbenzene	50.0	45.9		ug/Kg		92	70 - 130
1,1,2-Trichloroethane	50.0	47.5		ug/Kg		95	65 - 135
sec-Butylbenzene	50.0	45.5		ug/Kg		91	70 - 125
Styrene	50.0	44.9		ug/Kg		90	75 - 130
1,2,3-Trichloropropane	50.0	51.9		ug/Kg		104	60 - 135
tert-Butylbenzene	50.0	45.3		ug/Kg		91	70 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/Kg		94	60 - 140
Tetrachloroethene	50.0	41.8		ug/Kg		84	70 - 125
1,2,4-Trimethylbenzene	50.0	46.3		ug/Kg		93	70 - 125
Toluene	50.0	42.3		ug/Kg		85	70 - 125
1,3,5-Trimethylbenzene	50.0	45.8		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	70 - 125
trans-1,3-Dichloropropene	50.0	50.0		ug/Kg		100	70 - 135
m-Xylene & p-Xylene	50.0	44.5		ug/Kg		89	70 - 125
Trichloroethene	50.0	44.9		ug/Kg		90	70 - 125
o-Xylene	50.0	44.6		ug/Kg		89	70 - 125
Trichlorofluoromethane	50.0	54.4		ug/Kg		109	60 - 145
Vinyl acetate	50.0	65.0		ug/Kg		130	45 - 145
Vinyl chloride	50.0	39.8		ug/Kg		80	55 - 135
2,2-Dichloropropane	50.0	50.8		ug/Kg		102	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: LCSD 440-522204/6
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	44.2		ug/Kg		88	75 - 120	1	20
1,3-Dichlorobenzene	50.0	44.7		ug/Kg		89	75 - 125	1	20
2-Butanone (MEK)	50.0	52.4		ug/Kg		105	40 - 145	7	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522204/6
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			50.0	44.8		ug/Kg		90	75 - 120	3	20
2-Chlorotoluene			50.0	44.7		ug/Kg		89	70 - 125	1	20
1,3-Dichloropropane			50.0	47.4		ug/Kg		95	70 - 125	0	20
1,1-Dichloropropene			50.0	47.2		ug/Kg		94	70 - 130	2	20
4-Chlorotoluene			50.0	46.3		ug/Kg		93	75 - 125	1	20
1,2-Dibromo-3-Chloropropane			50.0	52.0		ug/Kg		104	50 - 135	5	30
Benzene			50.0	45.9		ug/Kg		92	65 - 120	1	20
Bromobenzene			50.0	45.9		ug/Kg		92	75 - 120	0	20
1,1-Dichloroethane			50.0	49.6		ug/Kg		99	70 - 130	3	20
Bromoform			50.0	48.4		ug/Kg		97	55 - 135	3	25
1,2-Dichloroethane			50.0	57.1		ug/Kg		114	60 - 140	1	20
Bromomethane			50.0	48.4		ug/Kg		97	60 - 145	1	20
1,1-Dichloroethene			50.0	47.6		ug/Kg		95	70 - 125	5	20
Carbon disulfide			50.0	44.4		ug/Kg		89	50 - 130	2	20
Carbon tetrachloride			50.0	53.8		ug/Kg		108	65 - 140	0	20
Chlorobenzene			50.0	43.8		ug/Kg		88	75 - 120	3	20
1,2-Dichloropropane			50.0	52.2		ug/Kg		104	70 - 130	5	20
Chlorobromomethane			50.0	48.9		ug/Kg		98	70 - 135	1	20
Chlorodibromomethane			50.0	50.9		ug/Kg		102	65 - 140	2	20
Chloroethane			50.0	47.9		ug/Kg		96	60 - 140	3	25
Chloroform			50.0	51.1		ug/Kg		102	70 - 130	2	20
Chloromethane			50.0	44.4		ug/Kg		89	45 - 145	10	25
2-Hexanone			50.0	64.6		ug/Kg		129	40 - 150	3	35
cis-1,2-Dichloroethene			50.0	45.0		ug/Kg		90	70 - 125	1	20
cis-1,3-Dichloropropene			50.0	49.2		ug/Kg		98	75 - 125	2	20
4-Isopropyltoluene			50.0	44.9		ug/Kg		90	75 - 125	2	20
Dibromomethane			50.0	47.4		ug/Kg		95	70 - 130	2	20
Dichlorobromomethane			50.0	54.8		ug/Kg		110	70 - 135	5	20
4-Methyl-2-pentanone (MIBK)			50.0	62.1		ug/Kg		124	40 - 145	1	35
Dichlorodifluoromethane			50.0	44.9		ug/Kg		90	35 - 160	7	30
Ethylbenzene			50.0	45.6		ug/Kg		91	70 - 125	1	20
Ethylene Dibromide			50.0	45.9		ug/Kg		92	70 - 130	0	20
Hexachlorobutadiene			50.0	38.7		ug/Kg		77	60 - 135	1	20
1,1,1,2-Tetrachloroethane			50.0	48.0		ug/Kg		96	70 - 130	1	20
Isopropylbenzene			50.0	46.1		ug/Kg		92	75 - 130	2	20
1,1,2,2-Tetrachloroethane			50.0	44.0		ug/Kg		88	55 - 140	5	30
Methyl tert-butyl ether			50.0	51.3		ug/Kg		103	60 - 140	5	25
Methylene Chloride			50.0	45.0		ug/Kg		90	55 - 135	5	20
1,2,3-Trichlorobenzene			50.0	40.7		ug/Kg		81	60 - 130	4	20
Naphthalene			50.0	42.2		ug/Kg		84	55 - 135	4	25
1,2,4-Trichlorobenzene			50.0	40.7		ug/Kg		81	70 - 135	3	20
n-Butylbenzene			50.0	46.7		ug/Kg		93	70 - 130	0	20
1,1,1-Trichloroethane			50.0	54.4		ug/Kg		109	65 - 135	4	20
N-Propylbenzene			50.0	45.9		ug/Kg		92	70 - 130	0	20
1,1,2-Trichloroethane			50.0	48.5		ug/Kg		97	65 - 135	2	20
sec-Butylbenzene			50.0	45.3		ug/Kg		91	70 - 125	0	20
Styrene			50.0	46.1		ug/Kg		92	75 - 130	3	20
1,2,3-Trichloropropane			50.0	47.9		ug/Kg		96	60 - 135	8	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522204/6
Matrix: Solid
Analysis Batch: 522204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene			50.0	44.6		ug/Kg		89	70 - 125	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.3		ug/Kg		97	60 - 140	3	40
Tetrachloroethene			50.0	42.2		ug/Kg		84	70 - 125	1	20
1,2,4-Trimethylbenzene			50.0	46.6		ug/Kg		93	70 - 125	0	20
Toluene			50.0	43.0		ug/Kg		86	70 - 125	2	20
1,3,5-Trimethylbenzene			50.0	45.0		ug/Kg		90	70 - 125	2	20
trans-1,2-Dichloroethene			50.0	47.2		ug/Kg		94	70 - 125	1	20
trans-1,3-Dichloropropene			50.0	51.8		ug/Kg		104	70 - 135	3	20
m-Xylene & p-Xylene			50.0	45.4		ug/Kg		91	70 - 125	2	20
Trichloroethene			50.0	46.4		ug/Kg		93	70 - 125	3	20
o-Xylene			50.0	44.2		ug/Kg		88	70 - 125	1	20
Trichlorofluoromethane			50.0	54.9		ug/Kg		110	60 - 145	1	25
Vinyl acetate			50.0	65.6		ug/Kg		131	45 - 145	1	20
Vinyl chloride			50.0	40.5		ug/Kg		81	55 - 135	2	25
2,2-Dichloropropane			50.0	52.8		ug/Kg		106	60 - 145	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: MB 440-523698/6
Matrix: Water
Analysis Batch: 523698

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			01/21/19 09:39	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/21/19 09:39	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/21/19 09:39	1
Benzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Bromobenzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Bromoform	ND		1.0	0.40	ug/L			01/21/19 09:39	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Bromomethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/21/19 09:39	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523698/6
Matrix: Water
Analysis Batch: 523698

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Chloroethane	ND		1.0	0.40	ug/L			01/21/19 09:39	1
Chloroform	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Chloromethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
2-Hexanone	ND		5.0	2.5	ug/L			01/21/19 09:39	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
4-Isopropyltoluene	0.294	J	0.50	0.25	ug/L			01/21/19 09:39	1
Dibromomethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/21/19 09:39	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/21/19 09:39	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/21/19 09:39	1
1,2,3-Trichlorobenzene	0.851	J	1.0	0.40	ug/L			01/21/19 09:39	1
Naphthalene	1.00		1.0	0.40	ug/L			01/21/19 09:39	1
1,2,4-Trichlorobenzene	0.681	J	1.0	0.40	ug/L			01/21/19 09:39	1
n-Butylbenzene	0.812	J	1.0	0.40	ug/L			01/21/19 09:39	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
N-Propylbenzene	0.327	J	0.50	0.25	ug/L			01/21/19 09:39	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
sec-Butylbenzene	0.465	J	0.50	0.25	ug/L			01/21/19 09:39	1
Styrene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/21/19 09:39	1
tert-Butylbenzene	0.284	J	0.50	0.25	ug/L			01/21/19 09:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/21/19 09:39	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Toluene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Trichloroethene	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/21/19 09:39	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/21/19 09:39	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/21/19 09:39	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/21/19 09:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*01/21/19 09:39*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/21/19 09:39*	*1*

Lab Sample ID: LCS 440-523698/8
Matrix: Water
Analysis Batch: 523698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	24.8		ug/L		99	10 - 150
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
2-Butanone (MEK)	25.0	26.8		ug/L		107	44 - 150
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
2-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130
1,3-Dichloropropane	25.0	27.4		ug/L		110	70 - 130
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130
4-Chlorotoluene	25.0	28.6		ug/L		114	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	30.6		ug/L		122	52 - 140
Benzene	25.0	25.8		ug/L		103	68 - 130
Bromobenzene	25.0	26.0		ug/L		104	70 - 130
1,1-Dichloroethane	25.0	27.1		ug/L		109	64 - 130
Bromoform	25.0	25.5		ug/L		102	60 - 148
1,2-Dichloroethane	25.0	27.9		ug/L		112	57 - 138
Bromomethane	25.0	21.1		ug/L		84	64 - 139
1,1-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
Carbon disulfide	25.0	23.1		ug/L		93	52 - 136
Carbon tetrachloride	25.0	26.8		ug/L		107	60 - 150
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,2-Dichloropropane	25.0	27.0		ug/L		108	67 - 130
Chlorobromomethane	25.0	26.3		ug/L		105	70 - 130
Chlorodibromomethane	25.0	26.3		ug/L		105	69 - 145
Chloroethane	25.0	22.1		ug/L		88	64 - 135
Chloroform	25.0	28.8		ug/L		115	70 - 130
Chloromethane	25.0	16.4		ug/L		66	47 - 140
2-Hexanone	25.0	27.4		ug/L		109	10 - 150
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 133
cis-1,3-Dichloropropene	25.0	29.3		ug/L		117	70 - 133
4-Isopropyltoluene	25.0	27.2		ug/L		109	70 - 132
Dibromomethane	25.0	27.0		ug/L		108	70 - 130
Dichlorobromomethane	25.0	28.2		ug/L		113	70 - 132
4-Methyl-2-pentanone (MIBK)	25.0	28.0		ug/L		112	59 - 149
Dichlorodifluoromethane	25.0	14.5		ug/L		58	29 - 150
Ethylbenzene	25.0	26.6		ug/L		106	70 - 130
Ethylene Dibromide	25.0	25.7		ug/L		103	70 - 130
Hexachlorobutadiene	25.0	27.2		ug/L		109	10 - 150
1,1,1,2-Tetrachloroethane	25.0	26.0		ug/L		104	60 - 141
Isopropylbenzene	25.0	27.1		ug/L		108	70 - 136
1,1,2,2-Tetrachloroethane	25.0	26.7		ug/L		107	63 - 130
Methyl tert-butyl ether	25.0	28.1		ug/L		113	63 - 131
Methylene Chloride	25.0	26.6		ug/L		106	52 - 130
1,2,3-Trichlorobenzene	25.0	25.6		ug/L		103	60 - 140
Naphthalene	25.0	24.7		ug/L		99	60 - 140
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	60 - 140
n-Butylbenzene	25.0	29.0		ug/L		116	65 - 150
1,1,1-Trichloroethane	25.0	26.6		ug/L		106	70 - 130
N-Propylbenzene	25.0	28.4		ug/L		113	67 - 139
1,1,2-Trichloroethane	25.0	27.5		ug/L		110	70 - 130
sec-Butylbenzene	25.0	27.8		ug/L		111	70 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523698/8
Matrix: Water
Analysis Batch: 523698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	25.5		ug/L		102	70 - 134
1,2,3-Trichloropropane	25.0	27.1		ug/L		108	63 - 130
tert-Butylbenzene	25.0	28.0		ug/L		112	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.2		ug/L		105	60 - 140
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
1,2,4-Trimethylbenzene	25.0	27.6		ug/L		110	70 - 135
Toluene	25.0	26.6		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	25.0	27.7		ug/L		111	70 - 136
trans-1,2-Dichloroethene	25.0	26.4		ug/L		106	70 - 130
trans-1,3-Dichloropropene	25.0	30.6		ug/L		122	70 - 132
m-Xylene & p-Xylene	25.0	26.3		ug/L		105	70 - 130
Trichloroethene	25.0	24.8		ug/L		99	70 - 130
o-Xylene	25.0	26.6		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	23.2		ug/L		93	60 - 150
Vinyl acetate	25.0	30.8		ug/L		123	48 - 140
Vinyl chloride	25.0	18.5		ug/L		74	59 - 133
2,2-Dichloropropane	25.0	28.7		ug/L		115	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*
Toluene-d8 (Surr)	*103*		*80 - 128*

Lab Sample ID: 440-230290-B-1 MS
Matrix: Water
Analysis Batch: 523698

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	J	25.0	32.2		ug/L		89	10 - 150
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130
2-Butanone (MEK)	ND		25.0	29.4		ug/L		117	48 - 140
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130
2-Chlorotoluene	ND		25.0	27.8		ug/L		111	70 - 130
1,3-Dichloropropane	ND		25.0	26.9		ug/L		108	70 - 130
1,1-Dichloropropene	ND		25.0	27.9		ug/L		112	64 - 130
4-Chlorotoluene	ND		25.0	28.5		ug/L		114	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	30.6		ug/L		123	48 - 140
Benzene	ND		25.0	26.5		ug/L		106	66 - 130
Bromobenzene	ND		25.0	25.4		ug/L		102	70 - 130
1,1-Dichloroethane	ND		25.0	28.5		ug/L		114	65 - 130
Bromoform	ND		25.0	25.7		ug/L		103	59 - 150
1,2-Dichloroethane	ND		25.0	29.3		ug/L		117	56 - 146
Bromomethane	ND		25.0	26.4		ug/L		106	62 - 131
1,1-Dichloroethene	ND		25.0	29.3		ug/L		117	70 - 130
Carbon disulfide	ND		25.0	27.5		ug/L		110	49 - 140
Carbon tetrachloride	ND		25.0	28.6		ug/L		114	60 - 150
Chlorobenzene	ND		25.0	24.3		ug/L		97	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230290-B-1 MS
Matrix: Water
Analysis Batch: 523698

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	ND		25.0	27.7		ug/L		111	69 - 130
Chlorobromomethane	ND		25.0	27.2		ug/L		109	70 - 130
Chlorodibromomethane	ND		25.0	25.8		ug/L		103	70 - 148
Chloroethane	ND		25.0	25.9		ug/L		104	68 - 130
Chloroform	ND		25.0	29.2		ug/L		117	70 - 130
Chloromethane	ND		25.0	24.0		ug/L		96	39 - 144
2-Hexanone	ND		25.0	27.7		ug/L		111	10 - 150
cis-1,2-Dichloroethene	0.54		25.0	26.8		ug/L		105	70 - 130
cis-1,3-Dichloropropene	ND		25.0	29.9		ug/L		120	70 - 133
4-Isopropyltoluene	ND		25.0	27.2		ug/L		109	70 - 130
Dibromomethane	ND		25.0	27.5		ug/L		110	70 - 130
Dichlorobromomethane	ND		25.0	26.3		ug/L		105	70 - 138
4-Methyl-2-pentanone (MIBK)	ND		25.0	27.7		ug/L		111	52 - 150
Dichlorodifluoromethane	ND		25.0	23.7		ug/L		95	25 - 142
Ethylbenzene	ND		25.0	26.5		ug/L		106	70 - 130
Ethylene Dibromide	ND		25.0	26.3		ug/L		105	70 - 131
Hexachlorobutadiene	ND		25.0	27.2		ug/L		109	10 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	24.8		ug/L		99	60 - 149
Isopropylbenzene	ND		25.0	27.2		ug/L		109	70 - 132
1,1,2,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	63 - 130
Methyl tert-butyl ether	ND		25.0	28.5		ug/L		114	70 - 130
Methylene Chloride	ND		25.0	28.0		ug/L		112	52 - 130
1,2,3-Trichlorobenzene	ND		25.0	25.2		ug/L		101	60 - 140
Naphthalene	ND		25.0	25.5		ug/L		102	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
n-Butylbenzene	ND		25.0	29.3		ug/L		117	61 - 149
1,1,1-Trichloroethane	ND		25.0	28.3		ug/L		113	70 - 130
N-Propylbenzene	ND		25.0	28.8		ug/L		115	66 - 135
1,1,2-Trichloroethane	ND		25.0	27.0		ug/L		108	70 - 130
sec-Butylbenzene	ND		25.0	28.2		ug/L		113	67 - 134
Styrene	ND		25.0	25.5		ug/L		102	29 - 150
1,2,3-Trichloropropane	ND		25.0	26.8		ug/L		107	60 - 130
tert-Butylbenzene	ND		25.0	27.8		ug/L		111	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.89	J	25.0	31.5		ug/L		122	60 - 140
Tetrachloroethene	ND		25.0	25.4		ug/L		102	70 - 137
1,2,4-Trimethylbenzene	ND		25.0	27.5		ug/L		110	70 - 130
Toluene	ND		25.0	26.2		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.1		ug/L		108	70 - 130
trans-1,2-Dichloroethene	ND		25.0	28.0		ug/L		112	70 - 130
trans-1,3-Dichloropropene	ND		25.0	30.3		ug/L		121	70 - 138
m-Xylene & p-Xylene	ND		25.0	26.4		ug/L		106	70 - 133
Trichloroethene	22		25.0	46.2		ug/L		98	70 - 130
o-Xylene	ND		25.0	25.8		ug/L		103	70 - 133
Trichlorofluoromethane	ND		25.0	27.3		ug/L		109	60 - 150
Vinyl acetate	ND		25.0	31.7		ug/L		127	23 - 150
Vinyl chloride	ND		25.0	24.2		ug/L		97	50 - 137
2,2-Dichloropropane	ND		25.0	30.6		ug/L		122	69 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230290-B-1 MS
Matrix: Water
Analysis Batch: 523698

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-230290-B-1 MSD
Matrix: Water
Analysis Batch: 523698

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	J	25.0	32.4		ug/L		89	10 - 150	1	35
1,2-Dichlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130	4	20
1,3-Dichlorobenzene	ND		25.0	24.2		ug/L		97	70 - 130	6	20
2-Butanone (MEK)	ND		25.0	26.3		ug/L		105	48 - 140	11	40
1,4-Dichlorobenzene	ND		25.0	23.8		ug/L		95	70 - 130	5	20
2-Chlorotoluene	ND		25.0	26.9		ug/L		107	70 - 130	3	20
1,3-Dichloropropane	ND		25.0	27.0		ug/L		108	70 - 130	0	25
1,1-Dichloropropene	ND		25.0	26.9		ug/L		108	64 - 130	4	20
4-Chlorotoluene	ND		25.0	26.8		ug/L		107	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	ND		25.0	31.4		ug/L		125	48 - 140	2	30
Benzene	ND		25.0	25.7		ug/L		103	66 - 130	3	20
Bromobenzene	ND		25.0	23.9		ug/L		96	70 - 130	6	20
1,1-Dichloroethane	ND		25.0	27.4		ug/L		110	65 - 130	4	20
Bromoform	ND		25.0	25.4		ug/L		102	59 - 150	1	25
1,2-Dichloroethane	ND		25.0	27.8		ug/L		111	56 - 146	5	20
Bromomethane	ND		25.0	25.8		ug/L		103	62 - 131	2	25
1,1-Dichloroethene	ND		25.0	27.2		ug/L		109	70 - 130	8	20
Carbon disulfide	ND		25.0	26.3		ug/L		105	49 - 140	5	20
Carbon tetrachloride	ND		25.0	27.3		ug/L		109	60 - 150	5	25
Chlorobenzene	ND		25.0	23.9		ug/L		96	70 - 130	2	20
1,2-Dichloropropane	ND		25.0	26.8		ug/L		107	69 - 130	3	20
Chlorobromomethane	ND		25.0	26.2		ug/L		105	70 - 130	4	25
Chlorodibromomethane	ND		25.0	26.1		ug/L		104	70 - 148	1	25
Chloroethane	ND		25.0	26.0		ug/L		104	68 - 130	1	25
Chloroform	ND		25.0	28.6		ug/L		114	70 - 130	2	20
Chloromethane	ND		25.0	22.7		ug/L		91	39 - 144	6	25
2-Hexanone	ND		25.0	27.4		ug/L		110	10 - 150	1	35
cis-1,2-Dichloroethene	0.54		25.0	25.2		ug/L		98	70 - 130	6	20
cis-1,3-Dichloropropene	ND		25.0	29.6		ug/L		118	70 - 133	1	20
4-Isopropyltoluene	ND		25.0	26.0		ug/L		104	70 - 130	4	20
Dibromomethane	ND		25.0	25.7		ug/L		103	70 - 130	7	25
Dichlorobromomethane	ND		25.0	27.1		ug/L		108	70 - 138	3	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	28.6		ug/L		114	52 - 150	3	35
Dichlorodifluoromethane	ND		25.0	22.3		ug/L		89	25 - 142	6	30
Ethylbenzene	ND		25.0	26.3		ug/L		105	70 - 130	1	20
Ethylene Dibromide	ND		25.0	25.6		ug/L		102	70 - 131	3	25
Hexachlorobutadiene	ND		25.0	25.5		ug/L		102	10 - 150	6	20
1,1,1,2-Tetrachloroethane	ND		25.0	24.2		ug/L		97	60 - 149	3	20
Isopropylbenzene	ND		25.0	26.9		ug/L		107	70 - 132	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	27.2		ug/L		109	63 - 130	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230290-B-1 MSD
Matrix: Water
Analysis Batch: 523698

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	28.3		ug/L		113	70 - 130	1	25
Methylene Chloride	ND		25.0	25.7		ug/L		103	52 - 130	9	20
1,2,3-Trichlorobenzene	ND		25.0	24.3		ug/L		97	60 - 140	4	20
Naphthalene	ND		25.0	25.0		ug/L		100	60 - 140	2	30
1,2,4-Trichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140	8	20
n-Butylbenzene	ND		25.0	28.1		ug/L		112	61 - 149	4	20
1,1,1-Trichloroethane	ND		25.0	26.6		ug/L		107	70 - 130	6	20
N-Propylbenzene	ND		25.0	27.4		ug/L		109	66 - 135	5	20
1,1,2-Trichloroethane	ND		25.0	27.2		ug/L		109	70 - 130	1	25
sec-Butylbenzene	ND		25.0	27.3		ug/L		109	67 - 134	3	20
Styrene	ND		25.0	25.7		ug/L		103	29 - 150	1	35
1,2,3-Trichloropropane	ND		25.0	25.4		ug/L		102	60 - 130	5	30
tert-Butylbenzene	ND		25.0	27.2		ug/L		109	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	0.89	J	25.0	30.2		ug/L		117	60 - 140	4	20
Tetrachloroethene	ND		25.0	24.4		ug/L		98	70 - 137	4	20
1,2,4-Trimethylbenzene	ND		25.0	26.1		ug/L		104	70 - 130	5	25
Toluene	ND		25.0	25.7		ug/L		103	70 - 130	2	20
1,3,5-Trimethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130	5	20
trans-1,2-Dichloroethene	ND		25.0	27.0		ug/L		108	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	29.3		ug/L		117	70 - 138	3	25
m-Xylene & p-Xylene	ND		25.0	25.5		ug/L		102	70 - 133	4	25
Trichloroethene	22		25.0	44.8		ug/L		93	70 - 130	3	20
o-Xylene	ND		25.0	25.4		ug/L		102	70 - 133	2	20
Trichlorofluoromethane	ND		25.0	25.6		ug/L		102	60 - 150	6	25
Vinyl acetate	ND		25.0	30.3		ug/L		121	23 - 150	5	30
Vinyl chloride	ND		25.0	23.2		ug/L		93	50 - 137	4	30
2,2-Dichloropropane	ND		25.0	29.9		ug/L		120	69 - 138	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*102*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-522144/4
Matrix: Solid
Analysis Batch: 522144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/13/19 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*		*01/13/19 11:37*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*01/13/19 11:37*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/13/19 11:37*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-522144/7
Matrix: Solid
Analysis Batch: 522144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	847		ug/Kg		85	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: LCSD 440-522144/8
Matrix: Solid
Analysis Batch: 522144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1000	812		ug/Kg		81	60 - 135	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*108*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-522205/4
Matrix: Solid
Analysis Batch: 522205

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/14/19 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*		*01/14/19 08:23*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*01/14/19 08:23*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/14/19 08:23*	*1*

Lab Sample ID: LCS 440-522205/7
Matrix: Solid
Analysis Batch: 522205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	810		ug/Kg		81	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 440-522205/8
Matrix: Solid
Analysis Batch: 522205

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	747		ug/Kg		75	60 - 135	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-523699/6
Matrix: Water
Analysis Batch: 523699

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	36.2	J	50	35	ug/L			01/21/19 09:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*01/21/19 09:39*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*01/21/19 09:39*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/21/19 09:39*	*1*

Lab Sample ID: LCS 440-523699/9
Matrix: Water
Analysis Batch: 523699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			500	445		ug/L		89	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 128*

Lab Sample ID: 440-230290-B-1 MS
Matrix: Water
Analysis Batch: 523699

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	58	B	1730	1780		ug/L		100	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*76 - 132*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-230290-B-1 MSD
Matrix: Water
Analysis Batch: 523699

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	58	B	1730	1690		ug/L		95	50 - 145	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-258380/1-A
Matrix: Solid
Analysis Batch: 258587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258380

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Anthracene	ND		5.0	2.0	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Chrysene	ND		5.0	1.4	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Fluorene	ND		5.0	2.2	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Phenanthrene	3.55	J	5.0	1.8	ug/Kg		01/11/19 14:00	01/15/19 23:39	1
Pyrene	ND		5.0	1.7	ug/Kg		01/11/19 14:00	01/15/19 23:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*01/11/19 14:00*	*01/15/19 23:39*	*1*
Terphenyl-d14	*99*		*35 - 146*	*01/11/19 14:00*	*01/15/19 23:39*	*1*

Lab Sample ID: LCS 720-258380/2-A
Matrix: Solid
Analysis Batch: 258587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258380

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	543		ug/Kg		81	46 - 110
Acenaphthene	667	600		ug/Kg		90	46 - 106
Acenaphthylene	667	602		ug/Kg		90	46 - 108
Anthracene	667	653		ug/Kg		98	55 - 103
Benzo[a]anthracene	667	640		ug/Kg		96	54 - 110

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-258380/2-A
Matrix: Solid
Analysis Batch: 258587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258380

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	667	681		ug/Kg		102	62 - 111
Benzo[b]fluoranthene	667	646		ug/Kg		97	60 - 109
Benzo[g,h,i]perylene	667	663		ug/Kg		100	52 - 114
Benzo[k]fluoranthene	667	680		ug/Kg		102	58 - 109
Chrysene	667	755	*	ug/Kg		113	54 - 108
Dibenz(a,h)anthracene	667	691		ug/Kg		104	58 - 112
Fluoranthene	667	653		ug/Kg		98	59 - 109
Fluorene	667	634		ug/Kg		95	52 - 106
Indeno[1,2,3-cd]pyrene	667	682		ug/Kg		102	55 - 120
Naphthalene	667	542		ug/Kg		81	49 - 110
Phenanthrene	667	623		ug/Kg		93	57 - 110
Pyrene	667	682		ug/Kg		102	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*33 - 120*
Terphenyl-d14	*105*		*35 - 146*

Lab Sample ID: 720-90655-A-1-L MS
Matrix: Solid
Analysis Batch: 258622

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258380

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	41		634	595		ug/Kg		87	46 - 110
Acenaphthene	5.7	J	634	610		ug/Kg		95	46 - 106
Acenaphthylene	8.4	J	634	601		ug/Kg		94	46 - 108
Anthracene	4.0	J	634	632		ug/Kg		99	55 - 103
Benzo[a]anthracene	5.6	J	634	597		ug/Kg		93	54 - 110
Benzo[a]pyrene	11		634	640		ug/Kg		99	62 - 111
Benzo[b]fluoranthene	8.0	J	634	632		ug/Kg		98	60 - 109
Benzo[g,h,i]perylene	12	F1	634	316	F1	ug/Kg		48	52 - 114
Benzo[k]fluoranthene	ND	F1	634	689		ug/Kg		109	58 - 109
Chrysene	30	F1 *	634	723	F1	ug/Kg		109	54 - 108
Dibenz(a,h)anthracene	ND	F1	634	360	F1	ug/Kg		57	58 - 112
Fluoranthene	4.6	J	634	568		ug/Kg		89	59 - 109
Fluorene	ND		634	614		ug/Kg		97	52 - 106
Indeno[1,2,3-cd]pyrene	ND	F1	634	348		ug/Kg		55	55 - 120
Naphthalene	ND		634	543		ug/Kg		86	49 - 110
Phenanthrene	78	B	634	672		ug/Kg		94	57 - 110
Pyrene	35		634	719		ug/Kg		108	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*33 - 120*
Terphenyl-d14	*109*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90655-A-1-M MSD
Matrix: Solid
Analysis Batch: 258622

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258380

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	41		650	587		ug/Kg		84	46 - 110	1	35
Acenaphthene	5.7	J	650	616		ug/Kg		94	46 - 106	1	35
Acenaphthylene	8.4	J	650	609		ug/Kg		92	46 - 108	1	35
Anthracene	4.0	J	650	648		ug/Kg		99	55 - 103	3	35
Benzo[a]anthracene	5.6	J	650	607		ug/Kg		92	54 - 110	2	35
Benzo[a]pyrene	11		650	658		ug/Kg		99	62 - 111	3	35
Benzo[b]fluoranthene	8.0	J	650	687		ug/Kg		104	60 - 109	8	35
Benzo[g,h,i]perylene	12	F1	650	285	F1	ug/Kg		42	52 - 114	10	35
Benzo[k]fluoranthene	ND	F1	650	717	F1	ug/Kg		110	58 - 109	4	35
Chrysene	30	F1 *	650	727		ug/Kg		107	54 - 108	1	35
Dibenz(a,h)anthracene	ND	F1	650	340	F1	ug/Kg		52	58 - 112	6	35
Fluoranthene	4.6	J	650	592		ug/Kg		90	59 - 109	4	35
Fluorene	ND		650	625		ug/Kg		96	52 - 106	2	35
Indeno[1,2,3-cd]pyrene	ND	F1	650	324	F1	ug/Kg		50	55 - 120	7	35
Naphthalene	ND		650	531		ug/Kg		82	49 - 110	2	35
Phenanthrene	78	B	650	673		ug/Kg		92	57 - 110	0	35
Pyrene	35		650	734		ug/Kg		108	50 - 120	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*33 - 120*
Terphenyl-d14	*110*		*35 - 146*

Lab Sample ID: MB 720-258535/1-A
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Anthracene	ND		5.0	2.0	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Chrysene	ND		5.0	1.4	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Fluorene	ND		5.0	2.2	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/15/19 10:12	01/17/19 01:25	1
Pyrene	ND		5.0	1.7	ug/Kg		01/15/19 10:12	01/17/19 01:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*01/15/19 10:12*	*01/17/19 01:25*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-258535/1-A
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258535

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	107		35 - 146	01/15/19 10:12	01/17/19 01:25	1

Lab Sample ID: LCS 720-258535/2-A
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	553		ug/Kg		83	46 - 110
Acenaphthene	667	616		ug/Kg		92	46 - 106
Acenaphthylene	667	620		ug/Kg		93	46 - 108
Anthracene	667	642		ug/Kg		96	55 - 103
Benzo[a]anthracene	667	611		ug/Kg		92	54 - 110
Benzo[a]pyrene	667	645		ug/Kg		97	62 - 111
Benzo[b]fluoranthene	667	605		ug/Kg		91	60 - 109
Benzo[g,h,i]perylene	667	618		ug/Kg		93	52 - 114
Benzo[k]fluoranthene	667	640		ug/Kg		96	58 - 109
Chrysene	667	706		ug/Kg		106	54 - 108
Dibenz(a,h)anthracene	667	639		ug/Kg		96	58 - 112
Fluoranthene	667	639		ug/Kg		96	59 - 109
Fluorene	667	653		ug/Kg		98	52 - 106
Indeno[1,2,3-cd]pyrene	667	635		ug/Kg		95	55 - 120
Naphthalene	667	549		ug/Kg		82	49 - 110
Phenanthrene	667	613		ug/Kg		92	57 - 110
Pyrene	667	642		ug/Kg		96	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	75		33 - 120
Terphenyl-d14	98		35 - 146

Lab Sample ID: 720-90640-E-21-F MS
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	27		649	602		ug/Kg		89	46 - 110
Acenaphthene	ND		649	643		ug/Kg		99	46 - 106
Acenaphthylene	24		649	664		ug/Kg		99	46 - 108
Anthracene	48		649	689		ug/Kg		99	55 - 103
Benzo[a]anthracene	88		649	660		ug/Kg		88	54 - 110
Benzo[a]pyrene	100		649	689		ug/Kg		91	62 - 111
Benzo[b]fluoranthene	170		649	750		ug/Kg		90	60 - 109
Benzo[g,h,i]perylene	58	F1	649	355	F1	ug/Kg		46	52 - 114
Benzo[k]fluoranthene	67		649	744		ug/Kg		104	58 - 109
Chrysene	120		649	763		ug/Kg		100	54 - 108
Dibenz(a,h)anthracene	14	F1	649	397		ug/Kg		59	58 - 112
Fluoranthene	130		649	716		ug/Kg		90	59 - 109
Fluorene	ND		649	677		ug/Kg		104	52 - 106
Indeno[1,2,3-cd]pyrene	48	F1	649	397	F1	ug/Kg		54	55 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90640-E-21-F MS
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	23		649	579		ug/Kg		86	49 - 110
Phenanthrene	60		649	681		ug/Kg		96	57 - 110
Pyrene	140		649	801		ug/Kg		102	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*33 - 120*
Terphenyl-d14	*113*		*35 - 146*

Lab Sample ID: 720-90640-E-21-G MSD
Matrix: Solid
Analysis Batch: 258666

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	27		649	551		ug/Kg		81	46 - 110	9	35
Acenaphthene	ND		649	600		ug/Kg		92	46 - 106	7	35
Acenaphthylene	24		649	621		ug/Kg		92	46 - 108	7	35
Anthracene	48		649	650		ug/Kg		93	55 - 103	6	35
Benzo[a]anthracene	88		649	622		ug/Kg		82	54 - 110	6	35
Benzo[a]pyrene	100		649	647		ug/Kg		84	62 - 111	6	35
Benzo[b]fluoranthene	170		649	720		ug/Kg		85	60 - 109	4	35
Benzo[g,h,i]perylene	58	F1	649	316	F1	ug/Kg		40	52 - 114	12	35
Benzo[k]fluoranthene	67		649	717		ug/Kg		100	58 - 109	4	35
Chrysene	120		649	716		ug/Kg		92	54 - 108	6	35
Dibenz(a,h)anthracene	14	F1	649	359	F1	ug/Kg		53	58 - 112	10	35
Fluoranthene	130		649	683		ug/Kg		85	59 - 109	5	35
Fluorene	ND		649	635		ug/Kg		98	52 - 106	6	35
Indeno[1,2,3-cd]pyrene	48	F1	649	358	F1	ug/Kg		48	55 - 120	10	35
Naphthalene	23		649	529		ug/Kg		78	49 - 110	9	35
Phenanthrene	60		649	634		ug/Kg		89	57 - 110	7	35
Pyrene	140		649	764		ug/Kg		96	50 - 120	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*33 - 120*
Terphenyl-d14	*107*		*35 - 146*

Lab Sample ID: MB 720-258562/1-A
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Anthracene	ND		5.0	2.0	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/15/19 15:04	01/18/19 12:32	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-258562/1-A
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Chrysene	ND		5.0	1.4	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Fluorene	ND		5.0	2.2	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Pyrene	ND		5.0	1.7	ug/Kg		01/15/19 15:04	01/18/19 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*01/15/19 15:04*	*01/18/19 12:32*	*1*
Terphenyl-d14	*115*		*35 - 146*	*01/15/19 15:04*	*01/18/19 12:32*	*1*

Lab Sample ID: LCS 720-258562/2-A
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	570		ug/Kg		85	46 - 110
Acenaphthene	667	638		ug/Kg		96	46 - 106
Acenaphthylene	667	633		ug/Kg		95	46 - 108
Anthracene	667	686		ug/Kg		103	55 - 103
Benzo[a]anthracene	667	661		ug/Kg		99	54 - 110
Benzo[a]pyrene	667	705		ug/Kg		106	62 - 111
Benzo[b]fluoranthene	667	660		ug/Kg		99	60 - 109
Benzo[g,h,i]perylene	667	734		ug/Kg		110	52 - 114
Benzo[k]fluoranthene	667	690		ug/Kg		104	58 - 109
Chrysene	667	775	*	ug/Kg		116	54 - 108
Dibenz(a,h)anthracene	667	744		ug/Kg		112	58 - 112
Fluoranthene	667	684		ug/Kg		103	59 - 109
Fluorene	667	668		ug/Kg		100	52 - 106
Indeno[1,2,3-cd]pyrene	667	740		ug/Kg		111	55 - 120
Naphthalene	667	584		ug/Kg		88	49 - 110
Phenanthrene	667	653		ug/Kg		98	57 - 110
Pyrene	667	709		ug/Kg		106	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*33 - 120*
Terphenyl-d14	*108*		*35 - 146*

Lab Sample ID: 720-90673-19 MS
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: DG-AM7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	27		639	454		ug/Kg		67	46 - 110
Acenaphthene	ND		639	511		ug/Kg		80	46 - 106

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90673-19 MS
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: DG-AM7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	2.4	J	639	493		ug/Kg		77	46 - 108
Anthracene	7.9		639	536		ug/Kg		83	55 - 103
Benzo[a]anthracene	6.6		639	513		ug/Kg		79	54 - 110
Benzo[a]pyrene	5.2		639	509		ug/Kg		79	62 - 111
Benzo[b]fluoranthene	14		639	491		ug/Kg		75	60 - 109
Benzo[g,h,i]perylene	11		639	468		ug/Kg		72	52 - 114
Benzo[k]fluoranthene	5.0		639	521		ug/Kg		81	58 - 109
Chrysene	13	*	639	592		ug/Kg		91	54 - 108
Dibenz(a,h)anthracene	ND		639	478		ug/Kg		75	58 - 112
Fluoranthene	14		639	472		ug/Kg		72	59 - 109
Fluorene	3.8	J	639	531		ug/Kg		83	52 - 106
Indeno[1,2,3-cd]pyrene	7.1		639	474		ug/Kg		73	55 - 120
Naphthalene	25		639	451		ug/Kg		67	49 - 110
Phenanthrene	26		639	536		ug/Kg		80	57 - 110
Pyrene	12		639	565		ug/Kg		87	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*33 - 120*
Terphenyl-d14	*84*		*35 - 146*

Lab Sample ID: 720-90673-19 MSD
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: DG-AM7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	27		638	498		ug/Kg		74	46 - 110	9	35
Acenaphthene	ND		638	547		ug/Kg		86	46 - 106	7	35
Acenaphthylene	2.4	J	638	531		ug/Kg		83	46 - 108	8	35
Anthracene	7.9		638	572		ug/Kg		88	55 - 103	6	35
Benzo[a]anthracene	6.6		638	546		ug/Kg		85	54 - 110	6	35
Benzo[a]pyrene	5.2		638	545		ug/Kg		85	62 - 111	7	35
Benzo[b]fluoranthene	14		638	523		ug/Kg		80	60 - 109	6	35
Benzo[g,h,i]perylene	11		638	454		ug/Kg		69	52 - 114	3	35
Benzo[k]fluoranthene	5.0		638	555		ug/Kg		86	58 - 109	6	35
Chrysene	13	*	638	629		ug/Kg		97	54 - 108	6	35
Dibenz(a,h)anthracene	ND		638	486		ug/Kg		76	58 - 112	2	35
Fluoranthene	14		638	503		ug/Kg		77	59 - 109	6	35
Fluorene	3.8	J	638	580		ug/Kg		90	52 - 106	9	35
Indeno[1,2,3-cd]pyrene	7.1		638	476		ug/Kg		74	55 - 120	0	35
Naphthalene	25		638	489		ug/Kg		73	49 - 110	8	35
Phenanthrene	26		638	570		ug/Kg		85	57 - 110	6	35
Pyrene	12		638	599		ug/Kg		92	50 - 120	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*33 - 120*
Terphenyl-d14	*91*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-258287/1-A
Matrix: Solid
Analysis Batch: 258511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.07	J	2.0	0.75	mg/Kg		01/10/19 11:41	01/15/19 11:06	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/10/19 11:41	01/15/19 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*93*		*40 - 130*	*01/10/19 11:41*	*01/15/19 11:06*	*1*

Lab Sample ID: LCS 720-258287/2-A
Matrix: Solid
Analysis Batch: 258511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258287

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	169		mg/Kg		102	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*108*		*40 - 130*

Lab Sample ID: 720-90642-D-1-A MS
Matrix: Solid
Analysis Batch: 258511

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258287

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	190	B	164	313		mg/Kg		73	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*95*		*40 - 130*

Lab Sample ID: 720-90642-D-1-B MSD
Matrix: Solid
Analysis Batch: 258511

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258287

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	190	B	164	357		mg/Kg		100	50 - 150	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*94*		*40 - 130*

Lab Sample ID: MB 720-258377/1-A
Matrix: Solid
Analysis Batch: 258511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/11/19 13:46	01/15/19 13:56	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/11/19 13:46	01/15/19 13:56	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-258377/1-A
Matrix: Solid
Analysis Batch: 258511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258377

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	*112*		*40 - 130*	*01/11/19 13:46*	*01/15/19 13:56*	*1*

Lab Sample ID: LCS 720-258377/2-A
Matrix: Solid
Analysis Batch: 258511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258377

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	184		mg/Kg		110	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*122*		*40 - 130*

Lab Sample ID: 720-90700-B-1-G MS
Matrix: Solid
Analysis Batch: 258510

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	5.0		162	185		mg/Kg		111	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*125*		*40 - 130*

Lab Sample ID: 720-90700-B-1-H MSD
Matrix: Solid
Analysis Batch: 258510

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	5.0		166	194		mg/Kg		114	50 - 150	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*122*		*40 - 130*

Lab Sample ID: MB 720-258386/1-A
Matrix: Solid
Analysis Batch: 258737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/11/19 15:04	01/19/19 00:13	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/11/19 15:04	01/19/19 00:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	*110*		*40 - 130*	*01/11/19 15:04*	*01/19/19 00:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-258386/2-A
Matrix: Solid
Analysis Batch: 258737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258386

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	185		mg/Kg		111	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*127*		*40 - 130*

Lab Sample ID: 720-90698-E-4-G MS
Matrix: Solid
Analysis Batch: 258737

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	15		161	187		mg/Kg		107	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*106*		*40 - 130*

Lab Sample ID: 720-90698-E-4-H MSD
Matrix: Solid
Analysis Batch: 258737

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	15		164	184		mg/Kg		103	50 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*98*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-258271/1-A
Matrix: Solid
Analysis Batch: 258325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 09:24	01/11/19 10:37	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-258271/1-A
Matrix: Solid
Analysis Batch: 258325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/10/19 09:24	01/11/19 10:37	1
Toxaphene	ND		40	6.8	ug/Kg		01/10/19 09:24	01/11/19 10:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*21 - 136*	*01/10/19 09:24*	*01/11/19 10:37*	*1*
Tetrachloro-m-xylene	*79*		*21 - 145*	*01/10/19 09:24*	*01/11/19 10:37*	*1*

Lab Sample ID: LCS 720-258271/2-A
Matrix: Solid
Analysis Batch: 258325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	17.5		ug/Kg		105	75 - 128
4,4'-DDE	16.7	16.7		ug/Kg		100	76 - 126
4,4'-DDT	16.7	16.9		ug/Kg		101	63 - 127
Aldrin	16.7	14.0		ug/Kg		84	65 - 120
alpha-BHC	16.7	13.7		ug/Kg		82	46 - 122
alpha-Chlordane	16.7	16.3		ug/Kg		98	70 - 120
beta-BHC	16.7	17.2		ug/Kg		103	78 - 136
delta-BHC	16.7	13.5		ug/Kg		81	43 - 125
Dieldrin	16.7	16.3		ug/Kg		98	72 - 120
Endosulfan I	16.7	16.2		ug/Kg		97	62 - 120
Endosulfan II	16.7	17.9		ug/Kg		107	65 - 120
Endosulfan sulfate	16.7	18.2		ug/Kg		109	72 - 121
Endrin	16.7	17.8		ug/Kg		107	68 - 120
Endrin aldehyde	16.7	19.8		ug/Kg		119	68 - 120
Endrin ketone	16.7	18.2		ug/Kg		109	75 - 136
gamma-BHC (Lindane)	16.7	14.5		ug/Kg		87	72 - 120
gamma-Chlordane	16.7	15.9		ug/Kg		96	68 - 120
Heptachlor	16.7	14.4		ug/Kg		86	69 - 120
Heptachlor epoxide	16.7	15.7		ug/Kg		94	68 - 120
Methoxychlor	16.7	19.7		ug/Kg		118	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*113*		*21 - 136*
Tetrachloro-m-xylene	*81*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90655-A-7-D MS
Matrix: Solid
Analysis Batch: 258354

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258271

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F1	16.4	20.9	F1	ug/Kg		127	40 - 120
4,4'-DDE	ND		16.4	16.2		ug/Kg		98	40 - 120
4,4'-DDT	ND		16.4	8.63		ug/Kg		52	17 - 144
Aldrin	ND		16.4	15.3		ug/Kg		93	53 - 120
alpha-BHC	ND		16.4	16.6		ug/Kg		101	40 - 120
alpha-Chlordane	ND		16.4	16.0		ug/Kg		97	40 - 120
beta-BHC	ND	F1	16.4	20.0	F1	ug/Kg		121	40 - 120
delta-BHC	ND		16.4	14.5		ug/Kg		88	40 - 120
Dieldrin	ND		16.4	16.3		ug/Kg		99	46 - 130
Endosulfan I	ND		16.4	16.3		ug/Kg		99	40 - 120
Endosulfan II	ND		16.4	18.8		ug/Kg		114	40 - 120
Endosulfan sulfate	ND		16.4	16.3		ug/Kg		99	40 - 120
Endrin	ND		16.4	16.8		ug/Kg		102	32 - 143
Endrin aldehyde	ND	*	16.4	17.1		ug/Kg		104	40 - 120
Endrin ketone	ND		16.4	16.3		ug/Kg		99	40 - 120
gamma-BHC (Lindane)	ND		16.4	17.0		ug/Kg		104	58 - 120
gamma-Chlordane	ND		16.4	16.5		ug/Kg		101	40 - 120
Heptachlor	ND		16.4	14.8		ug/Kg		90	52 - 120
Heptachlor epoxide	ND		16.4	16.7		ug/Kg		102	40 - 120
Methoxychlor	ND		16.4	9.52		ug/Kg		58	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*21 - 136*
Tetrachloro-m-xylene	*95*	*p*	*21 - 145*

Lab Sample ID: 720-90655-A-7-E MSD
Matrix: Solid
Analysis Batch: 258354

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258271

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	16.4	21.3	F1	ug/Kg		129	40 - 120	2	20
4,4'-DDE	ND		16.4	16.7		ug/Kg		101	40 - 120	3	20
4,4'-DDT	ND		16.4	8.66		ug/Kg		53	17 - 144	0	20
Aldrin	ND		16.4	15.5		ug/Kg		94	53 - 120	1	20
alpha-BHC	ND		16.4	16.1		ug/Kg		98	40 - 120	3	20
alpha-Chlordane	ND		16.4	16.3		ug/Kg		99	40 - 120	2	20
beta-BHC	ND	F1	16.4	19.8	F1	ug/Kg		121	40 - 120	1	20
delta-BHC	ND		16.4	14.9		ug/Kg		91	40 - 120	3	20
Dieldrin	ND		16.4	16.6		ug/Kg		101	46 - 130	2	20
Endosulfan I	ND		16.4	16.7		ug/Kg		101	40 - 120	2	20
Endosulfan II	ND		16.4	17.6		ug/Kg		107	40 - 120	6	30
Endosulfan sulfate	ND		16.4	16.3		ug/Kg		100	40 - 120	0	20
Endrin	ND		16.4	17.9		ug/Kg		109	32 - 143	6	20
Endrin aldehyde	ND	*	16.4	17.4		ug/Kg		106	40 - 120	2	20
Endrin ketone	ND		16.4	15.9		ug/Kg		96	40 - 120	3	20
gamma-BHC (Lindane)	ND		16.4	17.0		ug/Kg		103	58 - 120	0	20
gamma-Chlordane	ND		16.4	16.8		ug/Kg		102	40 - 120	1	20
Heptachlor	ND		16.4	15.5		ug/Kg		94	52 - 120	4	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90655-A-7-E MSD
Matrix: Solid
Analysis Batch: 258354

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258271

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide	ND		16.4	17.0		ug/Kg		103	40 - 120	1	20
Methoxychlor	ND		16.4	9.69		ug/Kg		59	40 - 120	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*21 - 136*
Tetrachloro-m-xylene	*91*		*21 - 145*

Lab Sample ID: MB 720-258308/1-A
Matrix: Solid
Analysis Batch: 258415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Aldrin	ND		2.0	0.50	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Endrin	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/10/19 15:34	01/13/19 22:11	1
Toxaphene	ND		40	6.8	ug/Kg		01/10/19 15:34	01/13/19 22:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*21 - 136*	*01/10/19 15:34*	*01/13/19 22:11*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/10/19 15:34*	*01/13/19 22:11*	*1*

Lab Sample ID: LCS 720-258308/2-A
Matrix: Solid
Analysis Batch: 258415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	17.3		ug/Kg		104	75 - 128
4,4'-DDE	16.7	16.8		ug/Kg		101	76 - 126
4,4'-DDT	16.7	17.0		ug/Kg		102	63 - 127
Aldrin	16.7	15.0		ug/Kg		90	65 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-258308/2-A
Matrix: Solid
Analysis Batch: 258415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	16.7	14.8		ug/Kg		89	46 - 122
alpha-Chlordane	16.7	16.6		ug/Kg		99	70 - 120
beta-BHC	16.7	16.9		ug/Kg		101	78 - 136
delta-BHC	16.7	13.4		ug/Kg		80	43 - 125
Dieldrin	16.7	16.5		ug/Kg		99	72 - 120
Endosulfan I	16.7	16.7		ug/Kg		100	62 - 120
Endosulfan II	16.7	17.5		ug/Kg		105	65 - 120
Endosulfan sulfate	16.7	17.4		ug/Kg		105	72 - 121
Endrin	16.7	17.3		ug/Kg		104	68 - 120
Endrin aldehyde	16.7	19.1		ug/Kg		114	68 - 120
Endrin ketone	16.7	17.5		ug/Kg		105	75 - 136
gamma-BHC (Lindane)	16.7	15.3		ug/Kg		92	72 - 120
gamma-Chlordane	16.7	16.2		ug/Kg		97	68 - 120
Heptachlor	16.7	15.6		ug/Kg		93	69 - 120
Heptachlor epoxide	16.7	16.0		ug/Kg		96	68 - 120
Methoxychlor	16.7	18.6		ug/Kg		112	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*112*		*21 - 136*
Tetrachloro-m-xylene	*87*		*21 - 145*

Lab Sample ID: 720-90673-10 MS
Matrix: Solid
Analysis Batch: 258415

Client Sample ID: DG-AE7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F1	16.4	19.4		ug/Kg		118	40 - 120
4,4'-DDE	ND	F2	16.4	18.1		ug/Kg		110	40 - 120
4,4'-DDT	ND		16.4	14.8		ug/Kg		91	17 - 144
Aldrin	ND		16.4	14.6		ug/Kg		89	53 - 120
alpha-BHC	ND		16.4	18.4		ug/Kg		112	40 - 120
alpha-Chlordane	ND	F1	16.4	19.6		ug/Kg		120	40 - 120
beta-BHC	ND		16.4	17.8		ug/Kg		109	40 - 120
delta-BHC	ND		16.4	16.7		ug/Kg		102	40 - 120
Dieldrin	ND		16.4	18.9		ug/Kg		116	46 - 130
Endosulfan I	ND		16.4	15.4		ug/Kg		94	40 - 120
Endosulfan II	ND	F1	16.4	18.5		ug/Kg		113	40 - 120
Endosulfan sulfate	ND		16.4	17.4		ug/Kg		106	40 - 120
Endrin	ND		16.4	21.9		ug/Kg		134	32 - 143
Endrin aldehyde	ND		16.4	16.1		ug/Kg		99	40 - 120
Endrin ketone	ND		16.4	18.4		ug/Kg		112	40 - 120
gamma-BHC (Lindane)	ND		16.4	18.3		ug/Kg		112	58 - 120
gamma-Chlordane	ND	F1	16.4	19.6		ug/Kg		120	40 - 120
Heptachlor	ND		16.4	15.9		ug/Kg		97	52 - 120
Heptachlor epoxide	ND		16.4	18.7		ug/Kg		114	40 - 120
Methoxychlor	ND		16.4	15.8		ug/Kg		96	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90673-10 MS
Matrix: Solid
Analysis Batch: 258415

Client Sample ID: DG-AE7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258308

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	107		21 - 136
Tetrachloro-m-xylene	94		21 - 145

Lab Sample ID: 720-90673-10 MSD
Matrix: Solid
Analysis Batch: 258415

Client Sample ID: DG-AE7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	16.4	20.4	F1	ug/Kg		124	40 - 120	5	20
4,4'-DDE	ND	F2	16.4	14.2	F2	ug/Kg		87	40 - 120	24	20
4,4'-DDT	ND		16.4	16.1		ug/Kg		98	17 - 144	8	20
Aldrin	ND		16.4	15.8		ug/Kg		96	53 - 120	8	20
alpha-BHC	ND		16.4	17.9		ug/Kg		109	40 - 120	3	20
alpha-Chlordane	ND	F1	16.4	20.2	F1	ug/Kg		123	40 - 120	3	20
beta-BHC	ND		16.4	18.4		ug/Kg		112	40 - 120	3	20
delta-BHC	ND		16.4	16.5		ug/Kg		100	40 - 120	1	20
Dieldrin	ND		16.4	20.8		ug/Kg		127	46 - 130	9	20
Endosulfan I	ND		16.4	17.2		ug/Kg		105	40 - 120	11	20
Endosulfan II	ND	F1	16.4	20.0	F1	ug/Kg		122	40 - 120	8	30
Endosulfan sulfate	ND		16.4	18.5		ug/Kg		113	40 - 120	6	20
Endrin	ND		16.4	22.5		ug/Kg		137	32 - 143	3	20
Endrin aldehyde	ND		16.4	16.7		ug/Kg		102	40 - 120	3	20
Endrin ketone	ND		16.4	19.0		ug/Kg		116	40 - 120	3	20
gamma-BHC (Lindane)	ND		16.4	17.5		ug/Kg		107	58 - 120	4	20
gamma-Chlordane	ND	F1	16.4	20.3	F1	ug/Kg		124	40 - 120	4	20
Heptachlor	ND		16.4	17.8		ug/Kg		108	52 - 120	11	20
Heptachlor epoxide	ND		16.4	19.7		ug/Kg		120	40 - 120	5	20
Methoxychlor	ND		16.4	17.7		ug/Kg		108	40 - 120	11	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	111		21 - 136
Tetrachloro-m-xylene	92		21 - 145

Lab Sample ID: MB 720-258564/1-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Aldrin	ND		2.0	0.50	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/15/19 15:08	01/19/19 06:03	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-258564/1-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		2.0	0.32	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endrin	ND		2.0	0.46	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Toxaphene	ND		40	6.8	ug/Kg		01/15/19 15:08	01/19/19 06:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*21 - 136*	*01/15/19 15:08*	*01/19/19 06:03*	*1*
Tetrachloro-m-xylene	*101*		*21 - 145*	*01/15/19 15:08*	*01/19/19 06:03*	*1*

Lab Sample ID: LCS 720-258564/2-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	18.1		ug/Kg		108	75 - 128
4,4'-DDE	16.7	17.8		ug/Kg		107	76 - 126
4,4'-DDT	16.7	17.3		ug/Kg		104	63 - 127
Aldrin	16.7	16.0		ug/Kg		96	65 - 120
alpha-BHC	16.7	15.2		ug/Kg		91	46 - 122
alpha-Chlordane	16.7	17.4		ug/Kg		104	70 - 120
beta-BHC	16.7	18.0		ug/Kg		108	78 - 136
delta-BHC	16.7	13.8		ug/Kg		83	43 - 125
Dieldrin	16.7	17.6		ug/Kg		106	72 - 120
Endosulfan I	16.7	17.7		ug/Kg		106	62 - 120
Endosulfan II	16.7	18.6		ug/Kg		111	65 - 120
Endosulfan sulfate	16.7	17.9		ug/Kg		108	72 - 121
Endrin	16.7	18.5		ug/Kg		111	68 - 120
Endrin aldehyde	16.7	19.9		ug/Kg		120	68 - 120
Endrin ketone	16.7	18.7		ug/Kg		112	75 - 136
gamma-BHC (Lindane)	16.7	16.1		ug/Kg		96	72 - 120
gamma-Chlordane	16.7	17.1		ug/Kg		103	68 - 120
Heptachlor	16.7	16.5		ug/Kg		99	69 - 120
Heptachlor epoxide	16.7	17.2		ug/Kg		103	68 - 120
Methoxychlor	16.7	19.8		ug/Kg		119	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*114*		*21 - 136*
Tetrachloro-m-xylene	*94*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90673-33 MS
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: DG-Z9S-0.5-1
Prep Type: Total/NA
Prep Batch: 258564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	1.4	J p	16.0	15.4		ug/Kg		87	40 - 120
4,4'-DDE	1.2	J	16.0	14.1		ug/Kg		80	40 - 120
4,4'-DDT	3.3	p	16.0	15.5	p	ug/Kg		76	17 - 144
Aldrin	ND		16.0	11.7		ug/Kg		73	53 - 120
alpha-BHC	ND		16.0	13.0		ug/Kg		82	40 - 120
alpha-Chlordane	ND		16.0	13.1		ug/Kg		82	40 - 120
beta-BHC	ND		16.0	13.4	p	ug/Kg		84	40 - 120
delta-BHC	ND		16.0	8.89		ug/Kg		56	40 - 120
Dieldrin	1.0	J p	16.0	13.4	p	ug/Kg		78	46 - 130
Endosulfan I	ND		16.0	13.6		ug/Kg		85	40 - 120
Endosulfan II	ND		16.0	13.3		ug/Kg		83	40 - 120
Endosulfan sulfate	ND		16.0	14.3		ug/Kg		90	40 - 120
Endrin	2.8		16.0	16.0		ug/Kg		83	32 - 143
Endrin aldehyde	ND	*	16.0	13.2		ug/Kg		83	40 - 120
Endrin ketone	ND	F1	16.0	14.8		ug/Kg		92	40 - 120
gamma-BHC (Lindane)	ND		16.0	14.8		ug/Kg		93	58 - 120
gamma-Chlordane	ND		16.0	14.0		ug/Kg		88	40 - 120
Heptachlor	ND		16.0	12.7		ug/Kg		79	52 - 120
Heptachlor epoxide	ND		16.0	12.7		ug/Kg		80	40 - 120
Methoxychlor	ND		16.0	12.3		ug/Kg		77	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*21 - 136*
Tetrachloro-m-xylene	*85*		*21 - 145*

Lab Sample ID: 720-90673-33 MSD
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: DG-Z9S-0.5-1
Prep Type: Total/NA
Prep Batch: 258564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	1.4	J p	15.9	14.4		ug/Kg		82	40 - 120	6	20
4,4'-DDE	1.2	J	15.9	13.2		ug/Kg		75	40 - 120	6	20
4,4'-DDT	3.3	p	15.9	14.3	p	ug/Kg		69	17 - 144	8	20
Aldrin	ND		15.9	11.0		ug/Kg		69	53 - 120	6	20
alpha-BHC	ND		15.9	12.6		ug/Kg		79	40 - 120	4	20
alpha-Chlordane	ND		15.9	12.3		ug/Kg		77	40 - 120	7	20
beta-BHC	ND		15.9	13.4	p	ug/Kg		84	40 - 120	0	20
delta-BHC	ND		15.9	8.69		ug/Kg		55	40 - 120	2	20
Dieldrin	1.0	J p	15.9	12.6	p	ug/Kg		73	46 - 130	6	20
Endosulfan I	ND		15.9	12.4		ug/Kg		78	40 - 120	9	20
Endosulfan II	ND		15.9	12.7		ug/Kg		80	40 - 120	4	30
Endosulfan sulfate	ND		15.9	13.5		ug/Kg		85	40 - 120	6	20
Endrin	2.8		15.9	14.7		ug/Kg		75	32 - 143	8	20
Endrin aldehyde	ND	*	15.9	12.1		ug/Kg		76	40 - 120	9	20
Endrin ketone	ND	F1	15.9	13.7		ug/Kg		86	40 - 120	7	20
gamma-BHC (Lindane)	ND		15.9	15.1		ug/Kg		95	58 - 120	2	20
gamma-Chlordane	ND		15.9	13.4		ug/Kg		84	40 - 120	4	20
Heptachlor	ND		15.9	12.2		ug/Kg		77	52 - 120	4	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90673-33 MSD
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: DG-Z9S-0.5-1
Prep Type: Total/NA
Prep Batch: 258564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide	ND		15.9	11.7		ug/Kg		74	40 - 120	8	20
Methoxychlor	ND		15.9	11.6		ug/Kg		73	40 - 120	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*21 - 136*
Tetrachloro-m-xylene	*85*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-522323/1-A
Matrix: Solid
Analysis Batch: 522605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*	*01/14/19 14:13*	*01/15/19 17:14*	*1*

Lab Sample ID: LCS 440-522323/2-A
Matrix: Solid
Analysis Batch: 522605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	239		ug/Kg		90	65 - 115
Aroclor 1260	267	241		ug/Kg		90	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*99*		*45 - 120*

Lab Sample ID: 720-90698-F-31-A MS
Matrix: Solid
Analysis Batch: 522792

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 522323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		261	210		ug/Kg		80	50 - 120
Aroclor 1260	ND		261	207		ug/Kg		79	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-90698-F-31-B MSD
Matrix: Solid
Analysis Batch: 522792

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 522323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		263	190		ug/Kg		72	50 - 120	10	30
Aroclor 1260	ND		263	185		ug/Kg		70	50 - 125	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*

Lab Sample ID: MB 440-522324/1-A
Matrix: Solid
Analysis Batch: 522850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*45 - 120*	*01/14/19 14:16*	*01/16/19 15:02*	*1*

Lab Sample ID: LCS 440-522324/2-A
Matrix: Solid
Analysis Batch: 522850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522324

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			267	248		ug/Kg		93	65 - 115
Aroclor 1260			267	252		ug/Kg		94	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*102*		*45 - 120*

Lab Sample ID: 720-90698-F-34-A MS
Matrix: Solid
Analysis Batch: 522850

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 522324

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		260	224		ug/Kg		86	50 - 120
Aroclor 1260	ND		260	221		ug/Kg		85	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-90698-F-34-B MSD
Matrix: Solid
Analysis Batch: 522850

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 522324

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		261	227		ug/Kg		87	50 - 120	1	30
Aroclor 1260	ND		261	225		ug/Kg		86	50 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258270/1-A
Matrix: Solid
Analysis Batch: 258515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Arsenic	ND		1.0	0.085	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Barium	ND		0.50	0.071	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Beryllium	ND		0.10	0.033	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Cadmium	ND		0.13	0.012	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Chromium	ND		0.50	0.053	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Cobalt	ND		0.20	0.020	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Copper	ND		1.5	0.71	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Lead	0.182	J	0.50	0.11	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Nickel	ND		0.50	0.051	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Selenium	ND		1.0	0.15	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Silver	ND		0.25	0.051	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Thallium	ND		0.50	0.15	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Vanadium	ND		0.50	0.068	mg/Kg		01/10/19 09:21	01/14/19 14:46	1
Zinc	ND		1.5	0.64	mg/Kg		01/10/19 09:21	01/14/19 14:46	1

Lab Sample ID: LCS 720-258270/2-A
Matrix: Solid
Analysis Batch: 258515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.0		mg/Kg		96	80 - 120
Arsenic	50.0	46.6		mg/Kg		93	80 - 120
Barium	50.0	48.5		mg/Kg		97	80 - 120
Beryllium	50.0	45.7		mg/Kg		91	80 - 120
Cadmium	50.0	48.4		mg/Kg		97	80 - 120
Chromium	50.0	48.6		mg/Kg		97	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	50.0	50.4		mg/Kg		101	80 - 120
Lead	50.0	49.0		mg/Kg		98	80 - 120
Molybdenum	50.0	51.2		mg/Kg		102	80 - 120
Nickel	50.0	48.3		mg/Kg		97	80 - 120
Selenium	50.0	47.0		mg/Kg		94	80 - 120
Silver	25.0	22.5		mg/Kg		90	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-258270/2-A
Matrix: Solid
Analysis Batch: 258515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	52.7		mg/Kg		105	80 - 120
Vanadium	50.0	48.7		mg/Kg		97	80 - 120
Zinc	50.0	48.4		mg/Kg		97	80 - 120

Lab Sample ID: 720-90673-1 MS
Matrix: Solid
Analysis Batch: 258515

Client Sample ID: DG-Y7S-0.5-1
Prep Type: Total/NA
Prep Batch: 258270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.8	F1	32.3	14.1	F1	mg/Kg		38	75 - 125
Arsenic	3.9		32.3	38.1		mg/Kg		106	75 - 125
Barium	71	F1 F2	32.3	145	F1	mg/Kg		227	75 - 125
Beryllium	0.14	J	32.3	33.7		mg/Kg		104	75 - 125
Cadmium	0.28	J	32.3	35.1		mg/Kg		108	75 - 125
Chromium	18	F1	32.3	54.1		mg/Kg		112	75 - 125
Cobalt	5.3		32.3	40.1		mg/Kg		108	75 - 125
Copper	56		32.3	95.1		mg/Kg		121	75 - 125
Lead	110	B F1 F2	32.3	170	F1	mg/Kg		198	75 - 125
Molybdenum	0.42	J	32.3	36.2		mg/Kg		111	75 - 125
Nickel	23	F2	32.3	50.7		mg/Kg		85	75 - 125
Selenium	ND		32.3	34.5		mg/Kg		107	75 - 125
Silver	0.13	J	16.1	16.6		mg/Kg		103	75 - 125
Thallium	ND		32.3	36.5		mg/Kg		113	75 - 125
Vanadium	20	F1	32.3	58.6		mg/Kg		119	75 - 125
Zinc	170	F2	32.3	237	4	mg/Kg		197	75 - 125

Lab Sample ID: 720-90673-1 MSD
Matrix: Solid
Analysis Batch: 258515

Client Sample ID: DG-Y7S-0.5-1
Prep Type: Total/NA
Prep Batch: 258270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.8	F1	32.3	16.0	F1	mg/Kg		44	75 - 125	13	20
Arsenic	3.9		32.3	42.7		mg/Kg		120	75 - 125	11	20
Barium	71	F1 F2	32.3	117	F1 F2	mg/Kg		140	75 - 125	21	20
Beryllium	0.14	J	32.3	38.9		mg/Kg		120	75 - 125	14	20
Cadmium	0.28	J	32.3	39.6		mg/Kg		122	75 - 125	12	20
Chromium	18	F1	32.3	59.3	F1	mg/Kg		129	75 - 125	9	20
Cobalt	5.3		32.3	44.5		mg/Kg		122	75 - 125	10	20
Copper	56		32.3	95.9		mg/Kg		123	75 - 125	1	20
Lead	110	B F1 F2	32.3	137	F2	mg/Kg		94	75 - 125	22	20
Molybdenum	0.42	J	32.3	40.1		mg/Kg		123	75 - 125	10	20
Nickel	23	F2	32.3	62.4	F2	mg/Kg		121	75 - 125	21	20
Selenium	ND		32.3	38.7		mg/Kg		120	75 - 125	12	20
Silver	0.13	J	16.1	19.3		mg/Kg		120	75 - 125	15	20
Thallium	ND		32.3	39.3		mg/Kg		122	75 - 125	7	20
Vanadium	20	F1	32.3	67.8	F1	mg/Kg		147	75 - 125	14	20
Zinc	170	F2	32.3	187	4 F2	mg/Kg		41	75 - 125	24	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-258277/1-A
Matrix: Solid
Analysis Batch: 258574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Arsenic	ND		1.0	0.085	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Barium	ND		0.50	0.071	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Beryllium	ND		0.10	0.033	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Cadmium	ND		0.13	0.012	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Chromium	ND		0.50	0.053	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Cobalt	ND		0.20	0.020	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Copper	ND		1.5	0.71	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Lead	ND		0.50	0.11	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Nickel	ND		0.50	0.051	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Selenium	ND		1.0	0.15	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Silver	ND		0.25	0.051	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Thallium	ND		0.50	0.15	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Vanadium	ND		0.50	0.068	mg/Kg		01/10/19 10:05	01/15/19 12:50	1
Zinc	ND		1.5	0.64	mg/Kg		01/10/19 10:05	01/15/19 12:50	1

Lab Sample ID: LCS 720-258277/2-A
Matrix: Solid
Analysis Batch: 258516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.5		mg/Kg		97	80 - 120
Arsenic	50.0	46.9		mg/Kg		94	80 - 120
Barium	50.0	47.9		mg/Kg		96	80 - 120
Beryllium	50.0	45.2		mg/Kg		90	80 - 120
Cadmium	50.0	48.5		mg/Kg		97	80 - 120
Chromium	50.0	48.4		mg/Kg		97	80 - 120
Cobalt	50.0	50.0		mg/Kg		100	80 - 120
Copper	50.0	49.8		mg/Kg		100	80 - 120
Lead	50.0	49.8		mg/Kg		100	80 - 120
Molybdenum	50.0	51.1		mg/Kg		102	80 - 120
Nickel	50.0	48.5		mg/Kg		97	80 - 120
Selenium	50.0	46.9		mg/Kg		94	80 - 120
Silver	25.0	22.6		mg/Kg		91	80 - 120
Thallium	50.0	52.9		mg/Kg		106	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	48.6		mg/Kg		97	80 - 120

Lab Sample ID: 720-90673-21 MS
Matrix: Solid
Analysis Batch: 258516

Client Sample ID: DG-AO7S-0.5-1
Prep Type: Total/NA
Prep Batch: 258277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	39	F1	39.7	25.9	F1	mg/Kg		-34	75 - 125
Arsenic	16		39.7	65.5		mg/Kg		124	75 - 125
Barium	350	F2	39.7	356	4	mg/Kg		21	75 - 125
Beryllium	0.19	J	39.7	46.3		mg/Kg		116	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90673-21 MS
Matrix: Solid
Analysis Batch: 258516

Client Sample ID: DG-AO7S-0.5-1
Prep Type: Total/NA
Prep Batch: 258277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	3.4		39.7	50.3		mg/Kg		118	75 - 125
Chromium	40	F1	39.7	93.3	F1	mg/Kg		135	75 - 125
Cobalt	8.9	F1	39.7	59.9	F1	mg/Kg		128	75 - 125
Copper	350	F2	39.7	364	4	mg/Kg		30	75 - 125
Lead	410	F2	39.7	444	4	mg/Kg		75	75 - 125
Molybdenum	3.1		39.7	52.1		mg/Kg		124	75 - 125
Nickel	67		39.7	116		mg/Kg		124	75 - 125
Selenium	1.5	J	39.7	47.8		mg/Kg		117	75 - 125
Silver	0.49	J	19.8	23.3		mg/Kg		115	75 - 125
Thallium	ND		39.7	47.9		mg/Kg		121	75 - 125
Vanadium	36	F1	39.7	89.3	F1	mg/Kg		134	75 - 125
Zinc	530	F2	39.7	633	4	mg/Kg		259	75 - 125

Lab Sample ID: 720-90673-21 MSD
Matrix: Solid
Analysis Batch: 258516

Client Sample ID: DG-AO7S-0.5-1
Prep Type: Total/NA
Prep Batch: 258277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	39	F1	39.7	24.9	F1	mg/Kg		-37	75 - 125	4	20
Arsenic	16		39.7	55.5		mg/Kg		99	75 - 125	16	20
Barium	350	F2	39.7	271	4 F2	mg/Kg		-192	75 - 125	27	20
Beryllium	0.19	J	39.7	43.2		mg/Kg		108	75 - 125	7	20
Cadmium	3.4		39.7	44.3		mg/Kg		103	75 - 125	13	20
Chromium	40	F1	39.7	81.6		mg/Kg		105	75 - 125	13	20
Cobalt	8.9	F1	39.7	51.8		mg/Kg		108	75 - 125	15	20
Copper	350	F2	39.7	219	4 F2	mg/Kg		-336	75 - 125	50	20
Lead	410	F2	39.7	312	4 F2	mg/Kg		-258	75 - 125	35	20
Molybdenum	3.1		39.7	46.4		mg/Kg		109	75 - 125	12	20
Nickel	67		39.7	108		mg/Kg		104	75 - 125	7	20
Selenium	1.5	J	39.7	44.5		mg/Kg		108	75 - 125	7	20
Silver	0.49	J	19.8	21.4		mg/Kg		105	75 - 125	9	20
Thallium	ND		39.7	45.3		mg/Kg		114	75 - 125	6	20
Vanadium	36	F1	39.7	73.1		mg/Kg		94	75 - 125	20	20
Zinc	530	F2	39.7	388	4 F2	mg/Kg		-361	75 - 125	48	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-258199/1-A
Matrix: Solid
Analysis Batch: 258318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/10/19 13:58	01/10/19 15:12	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-258199/2-A
Matrix: Solid
Analysis Batch: 258318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.898		mg/Kg		108	80 - 120

Lab Sample ID: 720-90640-E-20-D MS
Matrix: Solid
Analysis Batch: 258318

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.21		0.794	1.19		mg/Kg		123	75 - 125

Lab Sample ID: 720-90640-E-20-E MSD
Matrix: Solid
Analysis Batch: 258318

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.21		0.820	1.21		mg/Kg		122	75 - 125	2	20

Lab Sample ID: MB 720-258282/1-A
Matrix: Solid
Analysis Batch: 258988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/22/19 09:47	01/22/19 12:05	1

Lab Sample ID: LCS 720-258282/2-A
Matrix: Solid
Analysis Batch: 258988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.827		mg/Kg		99	80 - 120

Lab Sample ID: 720-90673-10 MS
Matrix: Solid
Analysis Batch: 258988

Client Sample ID: DG-AE7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.033		0.769	0.853		mg/Kg		107	75 - 125

Lab Sample ID: 720-90673-10 MSD
Matrix: Solid
Analysis Batch: 258988

Client Sample ID: DG-AE7S-3.5-4
Prep Type: Total/NA
Prep Batch: 258282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.033		0.769	0.850		mg/Kg		106	75 - 125	0	20

Lab Sample ID: MB 720-258286/1-A
Matrix: Solid
Analysis Batch: 258989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/22/19 11:55	01/22/19 14:05	1

Lab Sample ID: LCS 720-258286/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258989 — **Prep Batch: 258286**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.839		mg/Kg		101	80 - 120		

Lab Sample ID: 720-90673-29 MS — **Client Sample ID: DG-AR9S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258989 — **Prep Batch: 258286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.073		0.820	1.05		mg/Kg		119	75 - 125		

Lab Sample ID: 720-90673-29 MSD — **Client Sample ID: DG-AR9S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258989 — **Prep Batch: 258286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.073		0.794	1.04		mg/Kg		122	75 - 125	0	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90673-18 DU — **Client Sample ID: DG-AM7S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258289

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.7			11.3		%				6	20

Lab Sample ID: 720-90673-1 DU — **Client Sample ID: DG-Y7S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258294

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.6			12.1		%				13	20

GC/MS VOA

Analysis Batch: 522143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	8260B	522157
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	8260B	522157
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	8260B	522157
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	8260B	522157
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	8260B	522157
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	8260B	522157
720-90673-7	DUP-47	Total/NA	Solid	8260B	522157
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	8260B	522157
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	8260B	522157
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	8260B	522157
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	8260B	522157
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	8260B	522157
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	8260B	522157
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	8260B	522157
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	8260B	522157
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	8260B	522157
720-90673-17	DUP-48	Total/NA	Solid	8260B	522157
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	8260B	522157
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	8260B	522157
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	8260B	522157
MB 440-522143/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-522143/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-522143/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 522144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-7	DUP-47	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	8260B/CA_LUFT MS	522157

GC/MS VOA (Continued)

Analysis Batch: 522144 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-17	DUP-48	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522157
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	522157
MB 440-522144/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-522144/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-522144/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 522157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	5035	
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	5035	
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	5035	
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	5035	
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	5035	
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	5035	
720-90673-7	DUP-47	Total/NA	Solid	5035	
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	5035	
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	5035	
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	5035	
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	5035	
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	5035	
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	5035	
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	5035	
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	5035	
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	5035	
720-90673-17	DUP-48	Total/NA	Solid	5035	
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	5035	
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	5035	
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	5035	

Analysis Batch: 522204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	8260B	522259
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	8260B	522259
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	8260B	522259
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	8260B	522259
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	8260B	522259
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	8260B	522259
720-90673-27	DUP-50	Total/NA	Solid	8260B	522259
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	8260B	522259
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	8260B	522259

GC/MS VOA (Continued)

Analysis Batch: 522204 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-30	DUP-65	Total/NA	Solid	8260B	522259
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	8260B	522259
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	8260B	522259
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	8260B	522259
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	8260B	522259
720-90673-35	DUP-63	Total/NA	Solid	8260B	522259
MB 440-522204/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-522204/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-522204/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 522205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-27	DUP-50	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-30	DUP-65	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522259
720-90673-35	DUP-63	Total/NA	Solid	8260B/CA_LUFT MS	522259
MB 440-522205/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-522205/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-522205/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 522259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	5035	
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	5035	
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	5035	
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 522259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	5035	
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	5035	
720-90673-27	DUP-50	Total/NA	Solid	5035	
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	5035	
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	5035	
720-90673-30	DUP-65	Total/NA	Solid	5035	
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	5035	
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	5035	
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	5035	
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	5035	
720-90673-35	DUP-63	Total/NA	Solid	5035	

Analysis Batch: 523698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-36	FB-1.9.19	Total/NA	Water	8260B	
MB 440-523698/6	Method Blank	Total/NA	Water	8260B	
LCS 440-523698/8	Lab Control Sample	Total/NA	Water	8260B	
440-230290-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-230290-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 523699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-36	FB-1.9.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-523699/6	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-523699/9	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-230290-B-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-230290-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 258380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	3546	
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	3546	
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	3546	
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	3546	
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	3546	
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	3546	
720-90673-7	DUP-47	Total/NA	Solid	3546	
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	3546	
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	3546	
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	3546	
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	3546	
MB 720-258380/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258380/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90655-A-1-L MS	Matrix Spike	Total/NA	Solid	3546	
720-90655-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Prep Batch: 258535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	3546	
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	3546	
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	3546	
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	3546	
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	3546	
720-90673-17	DUP-48	Total/NA	Solid	3546	
MB 720-258535/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258535/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90640-E-21-F MS	Matrix Spike	Total/NA	Solid	3546	
720-90640-E-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	3546	
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	3546	
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	3546	
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	3546	
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	3546	
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	3546	
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	3546	
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	3546	
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	3546	
720-90673-27	DUP-50	Total/NA	Solid	3546	
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	3546	
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	3546	
720-90673-30	DUP-65	Total/NA	Solid	3546	
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	3546	
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	3546	
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	3546	
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	3546	
720-90673-35	DUP-63	Total/NA	Solid	3546	
MB 720-258562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258562/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90673-19 MS	DG-AM7S-3.5-4	Total/NA	Solid	3546	
720-90673-19 MSD	DG-AM7S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 258587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	8270C SIM	258380
MB 720-258380/1-A	Method Blank	Total/NA	Solid	8270C SIM	258380
LCS 720-258380/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258380

Analysis Batch: 258622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90655-A-1-L MS	Matrix Spike	Total/NA	Solid	8270C SIM	258380
720-90655-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	258380

Analysis Batch: 258666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258535/1-A	Method Blank	Total/NA	Solid	8270C SIM	258535
LCS 720-258535/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258535
720-90640-E-21-F MS	Matrix Spike	Total/NA	Solid	8270C SIM	258535
720-90640-E-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	258535

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Analysis Batch: 258699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	8270C SIM	258535

Analysis Batch: 258768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	8270C SIM	258562
MB 720-258562/1-A	Method Blank	Total/NA	Solid	8270C SIM	258562
LCS 720-258562/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258562
720-90673-19 MS	DG-AM7S-3.5-4	Total/NA	Solid	8270C SIM	258562
720-90673-19 MSD	DG-AM7S-3.5-4	Total/NA	Solid	8270C SIM	258562

Analysis Batch: 258828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	8270C SIM	258562
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	8270C SIM	258562
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	8270C SIM	258562
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	8270C SIM	258562
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	8270C SIM	258562
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	8270C SIM	258562
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	8270C SIM	258562
720-90673-30	DUP-65	Total/NA	Solid	8270C SIM	258562
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	8270C SIM	258562
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	8270C SIM	258562

Analysis Batch: 258858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	8270C SIM	258380
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	8270C SIM	258380
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	8270C SIM	258380
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	8270C SIM	258380
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	8270C SIM	258380
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	8270C SIM	258380
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	8270C SIM	258380
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	8270C SIM	258380
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	8270C SIM	258535
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	8270C SIM	258535
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	8270C SIM	258535
720-90673-17	DUP-48	Total/NA	Solid	8270C SIM	258535
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	8270C SIM	258562
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	8270C SIM	258562
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	8270C SIM	258562

Analysis Batch: 258909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	8270C SIM	258380
720-90673-7	DUP-47	Total/NA	Solid	8270C SIM	258380
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	8270C SIM	258535
720-90673-27	DUP-50	Total/NA	Solid	8270C SIM	258562
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	8270C SIM	258562
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	8270C SIM	258562
720-90673-35	DUP-63	Total/NA	Solid	8270C SIM	258562

GC Semi VOA

Prep Batch: 258271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	3546	
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	3546	
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	3546	
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	3546	
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	3546	
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	3546	
720-90673-7	DUP-47	Total/NA	Solid	3546	
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	3546	
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	3546	
MB 720-258271/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258271/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90655-A-7-D MS	Matrix Spike	Total/NA	Solid	3546	
720-90655-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	3546	
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	3546	
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	3546	
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	3546	
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	3546	
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	3546	
720-90673-7	DUP-47	Total/NA	Solid	3546	
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	3546	
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	3546	
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	3546	
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	3546	
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	3546	
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	3546	
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	3546	
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	3546	
MB 720-258287/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258287/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90642-D-1-A MS	Matrix Spike	Total/NA	Solid	3546	
720-90642-D-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	3546	
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	3546	
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	3546	
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	3546	
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	3546	
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	3546	
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	3546	
720-90673-17	DUP-48	Total/NA	Solid	3546	
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	3546	
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	3546	
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	3546	
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	3546	
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 258308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	3546	
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	3546	
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	3546	
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	3546	
720-90673-27	DUP-50	Total/NA	Solid	3546	
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	3546	
MB 720-258308/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258308/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90673-10 MS	DG-AE7S-3.5-4	Total/NA	Solid	3546	
720-90673-10 MSD	DG-AE7S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 258325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258271/1-A	Method Blank	Total/NA	Solid	8081A	258271
LCS 720-258271/2-A	Lab Control Sample	Total/NA	Solid	8081A	258271

Analysis Batch: 258354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	8081A	258271
720-90673-7	DUP-47	Total/NA	Solid	8081A	258271
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	8081A	258271
720-90655-A-7-D MS	Matrix Spike	Total/NA	Solid	8081A	258271
720-90655-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	258271

Prep Batch: 258377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	3546	
720-90673-17	DUP-48	Total/NA	Solid	3546	
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	3546	
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	3546	
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	3546	
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	3546	
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	3546	
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	3546	
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	3546	
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	3546	
MB 720-258377/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258377/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90700-B-1-G MS	Matrix Spike	Total/NA	Solid	3546	
720-90700-B-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	3546	
720-90673-27	DUP-50	Total/NA	Solid	3546	
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	3546	
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	3546	
720-90673-30	DUP-65	Total/NA	Solid	3546	
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	3546	
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	3546	
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 258386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	3546	
720-90673-35	DUP-63	Total/NA	Solid	3546	
MB 720-258386/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258386/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-E-4-G MS	Matrix Spike	Total/NA	Solid	3546	
720-90698-E-4-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 258415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	8081A	258308
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	8081A	258308
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	8081A	258308
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	8081A	258308
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	8081A	258308
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	8081A	258308
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	8081A	258308
720-90673-17	DUP-48	Total/NA	Solid	8081A	258308
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	8081A	258308
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	8081A	258308
MB 720-258308/1-A	Method Blank	Total/NA	Solid	8081A	258308
LCS 720-258308/2-A	Lab Control Sample	Total/NA	Solid	8081A	258308
720-90673-10 MS	DG-AE7S-3.5-4	Total/NA	Solid	8081A	258308
720-90673-10 MSD	DG-AE7S-3.5-4	Total/NA	Solid	8081A	258308

Analysis Batch: 258440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	8081A	258271
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	8081A	258271
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	8081A	258271
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	8081A	258271
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	8081A	258271
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	8081A	258308
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	8081A	258308
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	8081A	258308
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	8081A	258308
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	8081A	258308
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	8081A	258308
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	8081A	258308
720-90673-27	DUP-50	Total/NA	Solid	8081A	258308
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	8081A	258308

Analysis Batch: 258502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	8081A	258271

Analysis Batch: 258510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90700-B-1-G MS	Matrix Spike	Total/NA	Solid	8015B	258377
720-90700-B-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	258377

GC Semi VOA (Continued)

Analysis Batch: 258511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258287/1-A	Method Blank	Total/NA	Solid	8015B	258287
MB 720-258377/1-A	Method Blank	Total/NA	Solid	8015B	258377
LCS 720-258287/2-A	Lab Control Sample	Total/NA	Solid	8015B	258287
LCS 720-258377/2-A	Lab Control Sample	Total/NA	Solid	8015B	258377
720-90642-D-1-A MS	Matrix Spike	Total/NA	Solid	8015B	258287
720-90642-D-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	258287

Prep Batch: 258564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	3546	
720-90673-30	DUP-65	Total/NA	Solid	3546	
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	3546	
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	3546	
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	3546	
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	3546	
720-90673-35	DUP-63	Total/NA	Solid	3546	
MB 720-258564/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258564/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90673-33 MS	DG-Z9S-0.5-1	Total/NA	Solid	3546	
720-90673-33 MSD	DG-Z9S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 258602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	8015B	258287

Analysis Batch: 258603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	8015B	258287
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	8015B	258287
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	8015B	258287
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	8015B	258287
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	8015B	258287
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	8015B	258287
720-90673-7	DUP-47	Total/NA	Solid	8015B	258287
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	8015B	258287
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	8015B	258377
720-90673-17	DUP-48	Total/NA	Solid	8015B	258377

Analysis Batch: 258605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	8015B	258287
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	8015B	258287
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	8015B	258287
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	8015B	258287
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	8015B	258287
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	8015B	258377
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	8015B	258377
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	8015B	258377
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	8015B	258377
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	8015B	258377
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	8015B	258377

GC Semi VOA (Continued)

Analysis Batch: 258605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	8015B	258377
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	8015B	258377

Analysis Batch: 258674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	8015B	258287

Analysis Batch: 258737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258386/1-A	Method Blank	Total/NA	Solid	8015B	258386
LCS 720-258386/2-A	Lab Control Sample	Total/NA	Solid	8015B	258386
720-90698-E-4-G MS	Matrix Spike	Total/NA	Solid	8015B	258386
720-90698-E-4-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	258386

Analysis Batch: 258749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-30	DUP-65	Total/NA	Solid	8015B	258386
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	8015B	258386
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	8015B	258386

Analysis Batch: 258820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-30	DUP-65	Total/NA	Solid	8081A	258564
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	8081A	258564
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	8081A	258564
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	8081A	258564
MB 720-258564/1-A	Method Blank	Total/NA	Solid	8081A	258564
LCS 720-258564/2-A	Lab Control Sample	Total/NA	Solid	8081A	258564
720-90673-33 MS	DG-Z9S-0.5-1	Total/NA	Solid	8081A	258564
720-90673-33 MSD	DG-Z9S-0.5-1	Total/NA	Solid	8081A	258564

Analysis Batch: 258821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	8081A	258564
720-90673-35	DUP-63	Total/NA	Solid	8081A	258564

Analysis Batch: 258825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	8015B	258386
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	8015B	258386
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	8015B	258386
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	8015B	258386
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	8015B	258386

Analysis Batch: 258842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-27	DUP-50	Total/NA	Solid	8015B	258386
720-90673-35	DUP-63	Total/NA	Solid	8015B	258386

GC Semi VOA (Continued)

Analysis Batch: 258843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	8081A	258564

Prep Batch: 522323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	3546	
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	3546	
720-90673-3 - DL	DG-AA7S-0.5-1	Total/NA	Solid	3546	
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	3546	
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	3546	
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	3546	
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	3546	
720-90673-7	DUP-47	Total/NA	Solid	3546	
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	3546	
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	3546	
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	3546	
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	3546	
720-90673-12 - DL	DG-AI7S-0.5-1	Total/NA	Solid	3546	
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	3546	
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	3546	
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	3546	
720-90673-15 - DL	DG-AK7S-0.5-1	Total/NA	Solid	3546	
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	3546	
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	3546	
720-90673-17	DUP-48	Total/NA	Solid	3546	
720-90673-18 - DL	DG-AM7S-0.5-1	Total/NA	Solid	3546	
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	3546	
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	3546	
MB 440-522323/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-522323/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-F-31-A MS	Matrix Spike	Total/NA	Solid	3546	
720-90698-F-31-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 522324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	3546	
720-90673-21 - DL	DG-AO7S-0.5-1	Total/NA	Solid	3546	
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	3546	
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	3546	
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	3546	
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	3546	
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	3546	
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	3546	
720-90673-27	DUP-50	Total/NA	Solid	3546	
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	3546	
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	3546	
720-90673-30	DUP-65	Total/NA	Solid	3546	
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	3546	
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	3546	
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	3546	
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	3546	
720-90673-35	DUP-63	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 522324 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-522324/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-522324/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-F-34-A MS	Matrix Spike	Total/NA	Solid	3546	
720-90698-F-34-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 522605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	8082	522323
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	8082	522323
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	8082	522323
720-90673-7	DUP-47	Total/NA	Solid	8082	522323
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	8082	522323
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	8082	522323
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	8082	522323
MB 440-522323/1-A	Method Blank	Total/NA	Solid	8082	522323
LCS 440-522323/2-A	Lab Control Sample	Total/NA	Solid	8082	522323

Analysis Batch: 522792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-3 - DL	DG-AA7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	8082	522323
720-90673-12 - DL	DG-AI7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	8082	522323
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	8082	522323
720-90673-15 - DL	DG-AK7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	8082	522323
720-90673-17	DUP-48	Total/NA	Solid	8082	522323
720-90673-18 - DL	DG-AM7S-0.5-1	Total/NA	Solid	8082	522323
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	8082	522323
720-90673-35	DUP-63	Total/NA	Solid	8082	522324
720-90698-F-31-A MS	Matrix Spike	Total/NA	Solid	8082	522323
720-90698-F-31-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	522323

Analysis Batch: 522850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	8082	522324
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	8082	522324
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	8082	522324
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	8082	522324
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	8082	522324
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	8082	522324
720-90673-27	DUP-50	Total/NA	Solid	8082	522324
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	8082	522324
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	8082	522324
720-90673-30	DUP-65	Total/NA	Solid	8082	522324

GC Semi VOA (Continued)

Analysis Batch: 522850 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	8082	522324
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	8082	522324
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	8082	522324
MB 440-522324/1-A	Method Blank	Total/NA	Solid	8082	522324
LCS 440-522324/2-A	Lab Control Sample	Total/NA	Solid	8082	522324
720-90698-F-34-A MS	Matrix Spike	Total/NA	Solid	8082	522324
720-90698-F-34-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	522324

Analysis Batch: 523655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	8082	522324
720-90673-21 - DL	DG-AO7S-0.5-1	Total/NA	Solid	8082	522324
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	8082	522324

Metals

Prep Batch: 258199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	7471A	
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	7471A	
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	7471A	
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	7471A	
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	7471A	
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	7471A	
720-90673-7	DUP-47	Total/NA	Solid	7471A	
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	7471A	
MB 720-258199/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258199/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90640-E-20-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-90640-E-20-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 258270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	3050B	
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	3050B	
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	3050B	
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	3050B	
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	3050B	
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	3050B	
720-90673-7	DUP-47	Total/NA	Solid	3050B	
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	3050B	
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	3050B	
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	3050B	
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	3050B	
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	3050B	
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	3050B	
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	3050B	
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	3050B	
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	3050B	
720-90673-17	DUP-48	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 258270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	3050B	
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	3050B	
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	3050B	
MB 720-258270/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258270/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90673-1 MS	DG-Y7S-0.5-1	Total/NA	Solid	3050B	
720-90673-1 MSD	DG-Y7S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 258277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	3050B	
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	3050B	
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	3050B	
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	3050B	
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	3050B	
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	3050B	
720-90673-27	DUP-50	Total/NA	Solid	3050B	
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	3050B	
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	3050B	
720-90673-30	DUP-65	Total/NA	Solid	3050B	
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	3050B	
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	3050B	
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	3050B	
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	3050B	
720-90673-35	DUP-63	Total/NA	Solid	3050B	
MB 720-258277/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258277/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90673-21 MS	DG-AO7S-0.5-1	Total/NA	Solid	3050B	
720-90673-21 MSD	DG-AO7S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 258282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	7471A	
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	7471A	
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	7471A	
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	7471A	
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	7471A	
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	7471A	
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	7471A	
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	7471A	
720-90673-17	DUP-48	Total/NA	Solid	7471A	
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	7471A	
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	7471A	
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	7471A	
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	7471A	
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	7471A	
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	7471A	
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	7471A	
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	7471A	
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	7471A	
720-90673-27	DUP-50	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 258282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	7471A	
MB 720-258282/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258282/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90673-10 MS	DG-AE7S-3.5-4	Total/NA	Solid	7471A	
720-90673-10 MSD	DG-AE7S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 258286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	7471A	
720-90673-30	DUP-65	Total/NA	Solid	7471A	
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	7471A	
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	7471A	
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	7471A	
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	7471A	
720-90673-35	DUP-63	Total/NA	Solid	7471A	
MB 720-258286/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258286/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90673-29 MS	DG-AR9S-3.5-4	Total/NA	Solid	7471A	
720-90673-29 MSD	DG-AR9S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 258318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	7471A	258199
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	7471A	258199
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	7471A	258199
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	7471A	258199
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	7471A	258199
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	7471A	258199
720-90673-7	DUP-47	Total/NA	Solid	7471A	258199
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	7471A	258199
MB 720-258199/1-A	Method Blank	Total/NA	Solid	7471A	258199
LCS 720-258199/2-A	Lab Control Sample	Total/NA	Solid	7471A	258199
720-90640-E-20-D MS	Matrix Spike	Total/NA	Solid	7471A	258199
720-90640-E-20-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	258199

Analysis Batch: 258515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	6010B	258270
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	6010B	258270
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	6010B	258270
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	6010B	258270
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	6010B	258270
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	6010B	258270
720-90673-7	DUP-47	Total/NA	Solid	6010B	258270
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	6010B	258270
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	6010B	258270
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	6010B	258270
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	6010B	258270
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	6010B	258270
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	6010B	258270
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	6010B	258270

Metals (Continued)

Analysis Batch: 258515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-17	DUP-48	Total/NA	Solid	6010B	258270
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	6010B	258270
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	6010B	258270
MB 720-258270/1-A	Method Blank	Total/NA	Solid	6010B	258270
LCS 720-258270/2-A	Lab Control Sample	Total/NA	Solid	6010B	258270
720-90673-1 MS	DG-Y7S-0.5-1	Total/NA	Solid	6010B	258270
720-90673-1 MSD	DG-Y7S-0.5-1	Total/NA	Solid	6010B	258270

Analysis Batch: 258516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	6010B	258277
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	6010B	258277
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	6010B	258277
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	6010B	258277
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	6010B	258277
720-90673-27	DUP-50	Total/NA	Solid	6010B	258277
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	6010B	258277
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	6010B	258277
720-90673-30	DUP-65	Total/NA	Solid	6010B	258277
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	6010B	258277
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	6010B	258277
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	6010B	258277
720-90673-35	DUP-63	Total/NA	Solid	6010B	258277
LCS 720-258277/2-A	Lab Control Sample	Total/NA	Solid	6010B	258277
720-90673-21 MS	DG-AO7S-0.5-1	Total/NA	Solid	6010B	258277
720-90673-21 MSD	DG-AO7S-0.5-1	Total/NA	Solid	6010B	258277

Analysis Batch: 258573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	6010B	258270
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	6010B	258270
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	6010B	258270
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	6010B	258270

Analysis Batch: 258574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	6010B	258277
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	6010B	258277
MB 720-258277/1-A	Method Blank	Total/NA	Solid	6010B	258277

Analysis Batch: 258601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	6010B	258270
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	6010B	258270
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	6010B	258270

Analysis Batch: 258988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	7471A	258282
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	7471A	258282
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	7471A	258282

Metals (Continued)

Analysis Batch: 258988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	7471A	258282
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	7471A	258282
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	7471A	258282
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	7471A	258282
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	7471A	258282
720-90673-17	DUP-48	Total/NA	Solid	7471A	258282
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	7471A	258282
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	7471A	258282
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	7471A	258282
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	7471A	258282
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	7471A	258282
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	7471A	258282
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	7471A	258282
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	7471A	258282
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	7471A	258282
720-90673-27	DUP-50	Total/NA	Solid	7471A	258282
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	7471A	258282
MB 720-258282/1-A	Method Blank	Total/NA	Solid	7471A	258282
LCS 720-258282/2-A	Lab Control Sample	Total/NA	Solid	7471A	258282
720-90673-10 MS	DG-AE7S-3.5-4	Total/NA	Solid	7471A	258282
720-90673-10 MSD	DG-AE7S-3.5-4	Total/NA	Solid	7471A	258282

Analysis Batch: 258989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	7471A	258286
720-90673-30	DUP-65	Total/NA	Solid	7471A	258286
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	7471A	258286
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	7471A	258286
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	7471A	258286
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	7471A	258286
720-90673-35	DUP-63	Total/NA	Solid	7471A	258286
MB 720-258286/1-A	Method Blank	Total/NA	Solid	7471A	258286
LCS 720-258286/2-A	Lab Control Sample	Total/NA	Solid	7471A	258286
720-90673-29 MS	DG-AR9S-3.5-4	Total/NA	Solid	7471A	258286
720-90673-29 MSD	DG-AR9S-3.5-4	Total/NA	Solid	7471A	258286

General Chemistry

Analysis Batch: 258289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-18	DG-AM7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-19	DG-AM7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-20	DG-AM7S-7.5-8	Total/NA	Solid	Moisture	
720-90673-21	DG-AO7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-22	DG-AO7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-23	DG-AS7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-24	DG-AS7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-25	DG-AU7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-26	DG-AU7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-27	DUP-50	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 258289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-28	DG-AR9S-0.5-1	Total/NA	Solid	Moisture	
720-90673-29	DG-AR9S-3.5-4	Total/NA	Solid	Moisture	
720-90673-30	DUP-65	Total/NA	Solid	Moisture	
720-90673-31	DG-AD9S-0.5-1	Total/NA	Solid	Moisture	
720-90673-32	DG-AD9S-3.5-4	Total/NA	Solid	Moisture	
720-90673-33	DG-Z9S-0.5-1	Total/NA	Solid	Moisture	
720-90673-34	DG-Z9S-3.5-4	Total/NA	Solid	Moisture	
720-90673-35	DUP-63	Total/NA	Solid	Moisture	
720-90673-18 DU	DG-AM7S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 258294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90673-1	DG-Y7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-2	DG-Y7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-3	DG-AA7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-4	DG-AA7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-5	DG-AC7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-6	DG-AC7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-7	DUP-47	Total/NA	Solid	Moisture	
720-90673-8	DG-AC7S-7.5-8	Total/NA	Solid	Moisture	
720-90673-9	DG-AE7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-10	DG-AE7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-11	DG-AE7S-8-8.5	Total/NA	Solid	Moisture	
720-90673-12	DG-AI7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-13	DG-AI7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-14	DG-AI7S-8-8.5	Total/NA	Solid	Moisture	
720-90673-15	DG-AK7S-0.5-1	Total/NA	Solid	Moisture	
720-90673-16	DG-AK7S-3.5-4	Total/NA	Solid	Moisture	
720-90673-17	DUP-48	Total/NA	Solid	Moisture	
720-90673-1 DU	DG-Y7S-0.5-1	Total/NA	Solid	Moisture	

Client Sample ID: DG-Y7S-0.5-1

Date Collected: 01/09/19 07:30
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/10/19 10:30	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 14:18	JB	TAL IRV
Total/NA	Prep	5035			522157	01/10/19 10:30	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 14:18	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 17:06	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258603	01/17/19 02:13	JXL	TAL PLS
Total/NA	Prep	3546			258271	01/10/19 09:24	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 17:27	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 18:27	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 15:14	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-Y7S-3.5-4

Date Collected: 01/09/19 07:32
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/10/19 10:30	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 14:42	JB	TAL IRV
Total/NA	Prep	5035			522157	01/10/19 10:30	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 14:42	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 17:30	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258603	01/17/19 01:44	JXL	TAL PLS
Total/NA	Prep	3546			258271	01/10/19 09:24	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 17:44	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 18:41	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 15:19	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AA7S-0.5-1

Date Collected: 01/09/19 08:10
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/10/19 10:30	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 15:06	JB	TAL IRV
Total/NA	Prep	5035			522157	01/10/19 10:30	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 15:06	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		5	258858	01/21/19 21:02	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		2	258603	01/17/19 03:41	JXL	TAL PLS
Total/NA	Prep	3546			258271	01/10/19 09:24	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 18:01	JZT	TAL PLS
Total/NA	Prep	3546	DL		522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082	DL	5	522792	01/16/19 15:23	JM	TAL IRV
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 18:56	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 15:23	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 15:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AA7S-3.5-4

Date Collected: 01/09/19 08:12
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/10/19 10:30	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 15:30	JB	TAL IRV
Total/NA	Prep	5035			522157	01/10/19 10:30	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 15:30	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 17:53	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258603	01/17/19 01:15	JXL	TAL PLS
Total/NA	Prep	3546			258271	01/10/19 09:24	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 18:18	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 19:11	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 15:28	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 16:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AC7S-0.5-1

Lab Sample ID: 720-90673-5

Date Collected: 01/09/19 08:45

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 15:54	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 15:54	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		5	258909	01/22/19 07:03	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		2	258603	01/17/19 04:10	JXL	TAL PLS
Total/NA	Prep	3546			258271	01/10/19 09:24	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258354	01/11/19 18:33	MQL	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 19:25	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 15:42	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 16:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AC7S-3.5-4

Lab Sample ID: 720-90673-6

Date Collected: 01/09/19 08:47

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 16:18	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 16:18	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 18:17	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258603	01/17/19 00:16	JXL	TAL PLS
Total/NA	Prep	3546			258271	01/10/19 09:24	RAR	TAL PLS
Total/NA	Analysis	8081A		5	258502	01/15/19 08:14	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 19:40	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258515	01/14/19 15:47	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 16:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DUP-47

Lab Sample ID: 720-90673-7

Date Collected: 01/09/19 00:00

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 16:42	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 16:42	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		5	258909	01/22/19 07:26	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		2	258603	01/17/19 04:39	JXL	TAL PLS
Total/NA	Prep	3546			258271	01/10/19 09:24	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258354	01/11/19 19:07	MQL	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 19:54	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 15:52	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 16:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AC7S-7.5-8

Lab Sample ID: 720-90673-8

Date Collected: 01/09/19 08:50

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 17:06	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 17:06	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 18:40	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258605	01/17/19 03:59	DCH	TAL PLS
Total/NA	Prep	3546			258271	01/10/19 09:24	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 18:34	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 20:09	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 15:56	BKR	TAL PLS
Total/NA	Prep	7471A			258199	01/10/19 13:58	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258318	01/10/19 16:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AE7S-0.5-1

Lab Sample ID: 720-90673-9

Date Collected: 01/09/19 09:05

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 17:30	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 17:30	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 19:04	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258605	01/17/19 04:23	DCH	TAL PLS
Total/NA	Prep	3546			258271	01/10/19 09:24	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258354	01/11/19 19:24	MQL	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 20:24	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 16:01	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AE7S-3.5-4

Lab Sample ID: 720-90673-10

Date Collected: 01/09/19 09:07

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 17:54	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 17:54	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 19:27	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258605	01/17/19 05:12	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/13/19 23:56	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522792	01/16/19 13:34	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 16:06	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AE7S-8-8.5

Lab Sample ID: 720-90673-11

Date Collected: 01/09/19 09:10

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 18:18	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 18:18	JB	TAL IRV
Total/NA	Prep	3546			258380	01/11/19 14:00	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	258587	01/16/19 05:33	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258605	01/17/19 04:47	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/14/19 00:14	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 20:53	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 16:10	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AI7S-0.5-1

Lab Sample ID: 720-90673-12

Date Collected: 01/09/19 10:00

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 18:41	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 18:41	JB	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258909	01/22/19 06:40	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		10	258674	01/18/19 03:11	JXL	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/14/19 00:31	JZT	TAL PLS
Total/NA	Prep	3546	DL		522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082	DL	10	522792	01/16/19 15:36	JM	TAL IRV
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 21:08	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 16:15	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		10	258988	01/22/19 13:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AI7S-3.5-4

Lab Sample ID: 720-90673-13

Date Collected: 01/09/19 10:02

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 19:05	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 19:05	JB	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258699	01/17/19 12:23	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258602	01/17/19 05:09	JXL	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/14/19 00:49	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522792	01/16/19 13:48	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 16:20	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 13:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AI7S-8-8.5

Lab Sample ID: 720-90673-14

Date Collected: 01/09/19 10:05

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 19:29	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 19:29	JB	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258858	01/21/19 19:51	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258605	01/17/19 05:36	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/14/19 01:07	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522792	01/16/19 14:01	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258573	01/15/19 12:22	MAG	TAL PLS
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258601	01/15/19 20:00	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AK7S-0.5-1

Lab Sample ID: 720-90673-15

Date Collected: 01/09/19 10:25

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 19:53	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 19:53	JB	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258858	01/21/19 21:25	LPL	TAL PLS
Total/NA	Prep	3546			258287	01/10/19 11:41	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258603	01/17/19 05:09	JXL	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/14/19 01:24	JZT	TAL PLS
Total/NA	Prep	3546	DL		522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082	DL	5	522792	01/16/19 15:50	JM	TAL IRV
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522605	01/15/19 21:52	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258573	01/15/19 12:27	MAG	TAL PLS
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258601	01/15/19 20:05	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		4	258988	01/22/19 13:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AK7S-3.5-4

Lab Sample ID: 720-90673-16

Date Collected: 01/09/19 10:27

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 20:17	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 20:17	JB	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 16:19	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258603	01/16/19 20:20	JXL	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/14/19 01:42	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522792	01/16/19 14:15	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 16:44	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:36	MAG	TAL PLS

Client Sample ID: DG-AK7S-3.5-4

Lab Sample ID: 720-90673-16

Date Collected: 01/09/19 10:27

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DUP-48

Lab Sample ID: 720-90673-17

Date Collected: 01/09/19 00:00

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 20:41	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 20:41	JB	TAL IRV
Total/NA	Prep	3546			258535	01/15/19 10:12	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 16:43	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258603	01/16/19 20:49	JXL	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/14/19 01:59	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522792	01/16/19 14:28	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 16:48	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258294	01/10/19 14:05	TNL	TAL PLS

Client Sample ID: DG-AM7S-0.5-1

Lab Sample ID: 720-90673-18

Date Collected: 01/09/19 10:55

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 21:05	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 21:05	JB	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258858	01/21/19 21:49	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		2	258605	01/17/19 03:34	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/14/19 02:17	JZT	TAL PLS
Total/NA	Prep	3546	DL		522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082	DL	2	522792	01/16/19 16:03	JM	TAL IRV
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV

Client Sample ID: DG-AM7S-0.5-1

Lab Sample ID: 720-90673-18

Date Collected: 01/09/19 10:55

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	522605	01/15/19 22:35	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 16:53	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AM7S-3.5-4

Lab Sample ID: 720-90673-19

Date Collected: 01/09/19 10:57

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 21:28	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 21:28	JB	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258768	01/18/19 13:43	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258605	01/17/19 00:44	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258415	01/14/19 02:34	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522792	01/16/19 14:42	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258515	01/14/19 16:58	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AM7S-7.5-8

Lab Sample ID: 720-90673-20

Date Collected: 01/09/19 11:00

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B		1	522143	01/13/19 21:52	JB	TAL IRV
Total/NA	Prep	5035			522157	01/13/19 15:29	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522144	01/13/19 21:52	JB	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 13:34	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258605	01/17/19 00:19	DCH	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AM7S-7.5-8

Date Collected: 01/09/19 11:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 13:26	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	523655	01/20/19 19:59	JM	TAL IRV
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258573	01/15/19 12:32	MAG	TAL PLS
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		100	258573	01/15/19 12:36	MAG	TAL PLS
Total/NA	Prep	3050B			258270	01/10/19 09:21	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258601	01/15/19 20:10	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AO7S-0.5-1

Date Collected: 01/09/19 11:25
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 12:08	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 12:08	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 13:58	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258605	01/17/19 01:57	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 13:42	JZT	TAL PLS
Total/NA	Prep	3546	DL		522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082	DL	2	523655	01/20/19 20:13	JM	TAL IRV
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 16:29	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 17:45	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AO7S-3.5-4

Lab Sample ID: 720-90673-22

Date Collected: 01/09/19 11:27

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 12:32	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 12:32	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 14:22	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		2	258605	01/17/19 02:21	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 13:59	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 16:44	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 17:50	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AS7S-0.5-1

Lab Sample ID: 720-90673-23

Date Collected: 01/09/19 13:00

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 12:56	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 12:56	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		40	258858	01/21/19 20:14	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		2	258605	01/17/19 03:10	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 14:15	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 16:59	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 17:54	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: DG-AS7S-3.5-4

Lab Sample ID: 720-90673-24

Date Collected: 01/09/19 13:02

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 13:20	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 13:20	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 14:45	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258605	01/16/19 23:55	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 14:31	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 17:13	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 17:59	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 12:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AU7S-0.5-1

Lab Sample ID: 720-90673-25

Date Collected: 01/09/19 13:35

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 13:44	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 13:44	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 15:09	LPL	TAL PLS
Total/NA	Prep	3546			258377	01/11/19 13:46	KLM	TAL PLS
Total/NA	Analysis	8015B		2	258605	01/17/19 02:46	DCH	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 14:48	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 17:28	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 18:04	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 13:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AU7S-3.5-4

Lab Sample ID: 720-90673-26

Date Collected: 01/09/19 13:37

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 14:07	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 14:07	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 15:32	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258825	01/19/19 15:44	JXL	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 15:04	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 17:43	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		100	258574	01/15/19 12:55	MAG	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 13:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DUP-50

Lab Sample ID: 720-90673-27

Date Collected: 01/09/19 00:00

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 14:31	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 14:31	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258909	01/22/19 05:06	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		3	258842	01/22/19 00:02	JXL	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 15:21	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 17:57	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 18:13	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 13:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AR9S-0.5-1

Lab Sample ID: 720-90673-28

Date Collected: 01/09/19 14:05

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 14:55	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 14:55	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258909	01/22/19 05:29	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		5	258825	01/19/19 16:13	JXL	TAL PLS
Total/NA	Prep	3546			258308	01/10/19 15:34	RAR	TAL PLS
Total/NA	Analysis	8081A		1	258440	01/14/19 15:37	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 18:12	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 18:18	BKR	TAL PLS
Total/NA	Prep	7471A			258282	01/22/19 09:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258988	01/22/19 13:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AR9S-3.5-4

Lab Sample ID: 720-90673-29

Date Collected: 01/09/19 14:07

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 15:19	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 15:19	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 15:56	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258825	01/19/19 16:42	JXL	TAL PLS
Total/NA	Prep	3546			258564	01/15/19 15:08	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258843	01/21/19 16:15	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 18:26	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 18:32	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DUP-65

Lab Sample ID: 720-90673-30

Date Collected: 01/09/19 00:00

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 15:42	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 15:42	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 16:19	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258749	01/18/19 19:48	DCH	TAL PLS
Total/NA	Prep	3546			258564	01/15/19 15:08	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258820	01/19/19 11:00	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 18:41	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 18:37	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AD9S-0.5-1

Lab Sample ID: 720-90673-31

Date Collected: 01/09/19 14:55

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 16:06	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 16:06	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258909	01/22/19 05:53	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		5	258749	01/18/19 21:30	DCH	TAL PLS
Total/NA	Prep	3546			258564	01/15/19 15:08	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258820	01/19/19 11:18	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 18:56	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258574	01/15/19 13:00	MAG	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-AD9S-3.5-4

Lab Sample ID: 720-90673-32

Date Collected: 01/09/19 14:57

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 16:30	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 16:30	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 16:43	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258825	01/19/19 17:12	JXL	TAL PLS
Total/NA	Prep	3546			258564	01/15/19 15:08	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258820	01/19/19 11:35	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 19:10	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 18:46	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-Z9S-0.5-1

Lab Sample ID: 720-90673-33

Date Collected: 01/09/19 15:30

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 16:54	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 16:54	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258858	01/21/19 22:36	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		2	258825	01/19/19 17:41	JXL	TAL PLS
Total/NA	Prep	3546			258564	01/15/19 15:08	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258820	01/19/19 10:43	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 19:25	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 18:51	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DG-Z9S-3.5-4

Lab Sample ID: 720-90673-34

Date Collected: 01/09/19 15:32

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 17:18	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 17:18	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258828	01/19/19 17:30	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258749	01/18/19 18:59	DCH	TAL PLS
Total/NA	Prep	3546			258564	01/15/19 15:08	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258821	01/19/19 07:58	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	523655	01/20/19 19:46	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258516	01/14/19 18:55	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Client Sample ID: DUP-63

Lab Sample ID: 720-90673-35

Date Collected: 01/09/19 00:00

Matrix: Solid

Date Received: 01/09/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	522204	01/14/19 17:42	WC	TAL IRV
Total/NA	Prep	5035			522259	01/09/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522205	01/14/19 17:42	WC	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		2	258909	01/22/19 06:16	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258842	01/21/19 12:19	JXL	TAL PLS
Total/NA	Prep	3546			258564	01/15/19 15:08	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258821	01/19/19 08:15	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522792	01/16/19 16:30	JM	TAL IRV
Total/NA	Prep	3050B			258277	01/10/19 10:05	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258516	01/14/19 19:00	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258289	01/10/19 13:33	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Client Sample ID: FB-1.9.19
Date Collected: 01/09/19 00:00
Date Received: 01/09/19 18:30

Lab Sample ID: 720-90673-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523698	01/21/19 17:14	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523699	01/21/19 17:14	WC	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90673-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90673-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90673-1	DG-Y7S-0.5-1	Solid	01/09/19 07:30	01/09/19 18:30
720-90673-2	DG-Y7S-3.5-4	Solid	01/09/19 07:32	01/09/19 18:30
720-90673-3	DG-AA7S-0.5-1	Solid	01/09/19 08:10	01/09/19 18:30
720-90673-4	DG-AA7S-3.5-4	Solid	01/09/19 08:12	01/09/19 18:30
720-90673-5	DG-AC7S-0.5-1	Solid	01/09/19 08:45	01/09/19 18:30
720-90673-6	DG-AC7S-3.5-4	Solid	01/09/19 08:47	01/09/19 18:30
720-90673-7	DUP-47	Solid	01/09/19 00:00	01/09/19 18:30
720-90673-8	DG-AC7S-7.5-8	Solid	01/09/19 08:50	01/09/19 18:30
720-90673-9	DG-AE7S-0.5-1	Solid	01/09/19 09:05	01/09/19 18:30
720-90673-10	DG-AE7S-3.5-4	Solid	01/09/19 09:07	01/09/19 18:30
720-90673-11	DG-AE7S-8-8.5	Solid	01/09/19 09:10	01/09/19 18:30
720-90673-12	DG-AI7S-0.5-1	Solid	01/09/19 10:00	01/09/19 18:30
720-90673-13	DG-AI7S-3.5-4	Solid	01/09/19 10:02	01/09/19 18:30
720-90673-14	DG-AI7S-8-8.5	Solid	01/09/19 10:05	01/09/19 18:30
720-90673-15	DG-AK7S-0.5-1	Solid	01/09/19 10:25	01/09/19 18:30
720-90673-16	DG-AK7S-3.5-4	Solid	01/09/19 10:27	01/09/19 18:30
720-90673-17	DUP-48	Solid	01/09/19 00:00	01/09/19 18:30
720-90673-18	DG-AM7S-0.5-1	Solid	01/09/19 10:55	01/09/19 18:30
720-90673-19	DG-AM7S-3.5-4	Solid	01/09/19 10:57	01/09/19 18:30
720-90673-20	DG-AM7S-7.5-8	Solid	01/09/19 11:00	01/09/19 18:30
720-90673-21	DG-AO7S-0.5-1	Solid	01/09/19 11:25	01/09/19 18:30
720-90673-22	DG-AO7S-3.5-4	Solid	01/09/19 11:27	01/09/19 18:30
720-90673-23	DG-AS7S-0.5-1	Solid	01/09/19 13:00	01/09/19 18:30
720-90673-24	DG-AS7S-3.5-4	Solid	01/09/19 13:02	01/09/19 18:30
720-90673-25	DG-AU7S-0.5-1	Solid	01/09/19 13:35	01/09/19 18:30
720-90673-26	DG-AU7S-3.5-4	Solid	01/09/19 13:37	01/09/19 18:30
720-90673-27	DUP-50	Solid	01/09/19 00:00	01/09/19 18:30
720-90673-28	DG-AR9S-0.5-1	Solid	01/09/19 14:05	01/09/19 18:30
720-90673-29	DG-AR9S-3.5-4	Solid	01/09/19 14:07	01/09/19 18:30
720-90673-30	DUP-65	Solid	01/09/19 00:00	01/09/19 18:30
720-90673-31	DG-AD9S-0.5-1	Solid	01/09/19 14:55	01/09/19 18:30
720-90673-32	DG-AD9S-3.5-4	Solid	01/09/19 14:57	01/09/19 18:30
720-90673-33	DG-Z9S-0.5-1	Solid	01/09/19 15:30	01/09/19 18:30
720-90673-34	DG-Z9S-3.5-4	Solid	01/09/19 15:32	01/09/19 18:30
720-90673-35	DUP-63	Solid	01/09/19 00:00	01/09/19 18:30
720-90673-36	FB-1.9.19	Water	01/09/19 00:00	01/09/19 18:30

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A1817558
Received: 01/11/2019
Reported: 1/23/2019
Analyst: Saithya Painkal
Greg Ruff

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-Y7S-0.5-1 (720-90673-1)	A11118	Yes	Chrysotile	<0.25%
DG-Y7S-3.5-4 (720-90673-2)	A11119	No	None Detected	0.00
DG-AA7S-0.5-1 (720-90673-3)	A11120	No	None Detected	0.00
DG-AA7S-3.5-4 (720-90673-4)	A11121	No	None Detected	0.00
DG-AC7S-0.5-1 (720-90673-5)	A11122	No	None Detected	0.00
DG-AC7S-3.5-4 (720-90673-6)	A11123	No	None Detected	0.00
DUP-47 (720-90673-7)	A11124	No	None Detected	0.00
DG-AC7S-7.5-8 (720-90673-8)	A11125	No	None Detected	0.00
DG-AE7S-0.5-1 (720-90673-9)	A11126	No	None Detected	0.00
DG-AE7S-3.5-4 (720-90673-10)	A11127	No	None Detected	0.00
DG-AE7S-8-8.5 (720-90673-11)	A11128	No	None Detected	0.00
DG-AI7S-0.5-1 (720-90673-12)	A11129	Yes	Chrysotile	<0.25%
DG-AI7S-3.5-4 (720-90673-13)	A11130	No	None Detected	0.00
DG-AI7S-8-8.5 (720-90673-14)	A11131	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

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Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AK7S-0.5-1 (720-90673-15)	A11132	Yes	Amosite Chrysotile	0.25% <0.25%
DG-AK7S-3.5-4 (720-90673-16)	A11133	No	None Detected	0.00
DUP-48 (720-90673-17)	A11134	No	None Detected	0.00
DG-AM7S-0.5-1 (720-90673-18)	A11135	Yes	Chrysotile	<0.25%
DG-AM7S-3.5-4 (720-90673-19)	A11136	No	None Detected	0.00
DG-AM7S-7.5-8 (720-90673-20)	A11137	No	None Detected	0.00
DG-AO7S-0.5-1 (720-90673-21)	A11138	Yes	Chrysotile	<0.25%
DG-AO7S-3.5-4 (720-90673-22)	A11139	No	None Detected	0.00
DG-AS7S-0.5-1 (720-90673-23)	A11140	No	None Detected	0.00
DG-AS7S-3.5-4 (720-90673-24)	A11141	No	None Detected	0.00
DG-AU7S-0.5-1 (720-90673-25)	A11142	No	None Detected	0.00
DG-AU7S-3.5-4 (720-90673-26)	A11143	No	None Detected	0.00
DUP-50 (720-90673-27)	A11144	No	None Detected	0.00
DG-AR9S-0.5-1 (720-90673-28)	A11145	No	None Detected	0.00
DG-AR9S-3.5-4 (720-90673-29)	A11146	No	None Detected	0.00
DUP-65 (720-90673-30)	A11147	Yes	Chrysotile	0.25%
DG-AD9S-0.5-1 (720-90673-31)	A11148	No	None Detected	0.00
DG-AD9S-3.5-4 (720-90673-32)	A11149	No	None Detected	0.00
DG-Z9S-0.5-1 (720-90673-33)	A11150	No	None Detected	0.00
DG-Z9S-3.5-4 (720-90673-34)	A11151	No	None Detected	0.00
DUP-63 (720-90673-35)	A11152	No	None Detected	0.00

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REVIEWED BY: _____

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

A1118-A11152 A190727 (35)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40750.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/23/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-Y7S-0.5-1 (720-90673-1)	1/9/19	07:30 Pacific		Solid			X	1	
DG-Y7S-3.5-4 (720-90673-2)	1/9/19	07:32 Pacific		Solid			X	1	
DG-AA7S-0.5-1 (720-90673-3)	1/9/19	08:10 Pacific		Solid			X	1	
DG-AA7S-3.5-4 (720-90673-4)	1/9/19	08:12 Pacific		Solid			X	1	
DG-AC7S-0.5-1 (720-90673-5)	1/9/19	08:45 Pacific		Solid			X	1	
DG-AC7S-3.5-4 (720-90673-6)	1/9/19	08:47 Pacific		Solid			X	1	
DUP-47 (720-90673-7)	1/9/19	Pacific		Solid			X	1	
DG-AC7S-7.5-8 (720-90673-8)	1/9/19	08:50 Pacific		Solid			X	1	
DG-AE7S-0.5-1 (720-90673-9)	1/9/19	09:05 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/10/19 1310	Company TRPLS	Received by:	Date/Time: 1/11 9:20	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: Eurofins Accept Samples KC

A190727

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40750.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/23/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AE7S-3.5-4 (720-90673-10)	1/9/19	09:07 Pacific		Solid			X	1	
DG-AE7S-8-8.5 (720-90673-11)	1/9/19	09:10 Pacific		Solid			X	1	
DG-AI7S-0.5-1 (720-90673-12)	1/9/19	10:00 Pacific		Solid			X	1	
DG-AI7S-3.5-4 (720-90673-13)	1/9/19	10:02 Pacific		Solid			X	1	
DG-AI7S-8-8.5 (720-90673-14)	1/9/19	10:05 Pacific		Solid			X	1	
DG-AK7S-0.5-1 (720-90673-15)	1/9/19	10:25 Pacific		Solid			X	1	
DG-AK7S-3.5-4 (720-90673-16)	1/9/19	10:27 Pacific		Solid			X	1	
DUP-48 (720-90673-17)	1/9/19	Pacific		Solid			X	1	
DG-AM7S-0.5-1 (720-90673-18)	1/9/19	10:55 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/10/19 1310	Company TAPS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

A190727

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40750.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/23/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AM7S-3.5-4 (720-90673-19)	1/9/19	10:57 Pacific		Solid			X	1	
DG-AM7S-7.5-8 (720-90673-20)	1/9/19	11:00 Pacific		Solid			X	1	
DG-AO7S-0.5-1 (720-90673-21)	1/9/19	11:25 Pacific		Solid			X	1	
DG-AO7S-3.5-4 (720-90673-22)	1/9/19	11:27 Pacific		Solid			X	1	
DG-AS7S-0.5-1 (720-90673-23)	1/9/19	13:00 Pacific		Solid			X	1	
DG-AS7S-3.5-4 (720-90673-24)	1/9/19	13:02 Pacific		Solid			X	1	
DG-AU7S-0.5-1 (720-90673-25)	1/9/19	13:35 Pacific		Solid			X	1	
DG-AU7S-3.5-4 (720-90673-26)	1/9/19	13:37 Pacific		Solid			X	1	
DUP-50 (720-90673-27)	1/9/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/10/19 1310	TOPS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

A190727

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40750.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/23/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AR9S-0.5-1 (720-90673-28)	1/9/19	14:05 Pacific		Solid			X	1	
DG-AR9S-3.5-4 (720-90673-29)	1/9/19	14:07 Pacific		Solid			X	1	
DUP-65 (720-90673-30)	1/9/19	Pacific		Solid			X	1	
DG-AD9S-0.5-1 (720-90673-31)	1/9/19	14:55 Pacific		Solid			X	1	
DG-AD9S-3.5-4 (720-90673-32)	1/9/19	14:57 Pacific		Solid			X	1	
DG-Z9S-0.5-1 (720-90673-33)	1/9/19	15:30 Pacific		Solid			X	1	
DG-Z9S-3.5-4 (720-90673-34)	1/9/19	15:32 Pacific		Solid			X	1	
DUP-63 (720-90673-35)	1/9/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

1/10/19 1310 FEDEX

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
720-90673
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925 600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No K7726
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			720-90673 Chain of Custody
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DGY7S-0.5-1	1-9-19	0930	G	S	7	N		X	X	X	X	X	X	X	
2	DGY7S-3.5-4		0932													
3	DGAA7S-0.5-1		0810													
4	DGAA7S-3.5-4		0812													
5	DGAC7S-0.5-1		0845													
6	DGAC7S-3.5-4		0847													
7	DUP #47		—													
8	DGAC7S-7.5-8		0850													
9	DGAE7S-0.5-1		0905													
10	DGAE7S-3.5-4		0907													
11	DGAE7S-8.0-8.5		0910													

Page 2 of 2

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company GEOSYNTEC	Date/Time 1-9-19 1615	Received by	Company TA PLS	Date/Time 1/9/19 1615
Relinquished by	Company TA PLS 18:30	Date/Time 1/9/19 1830	Received by	Company	Date/Time
Relinquished by	Company	Date/Time 1/9/19	Received in Laboratory by	Company TA-PLS	Date/Time 1/9/19 18:30

1.1/2.1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600 3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No 18776
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George A Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
12	DG-AI7S 0.5-1	1-9-19	1000	G	S	7	N		X	X	X	X	X	X	X	
13	DG-AI7S 3.5-4		1002													
14	DG-AI7S 8.0-8.5		1005													
15	DG-AK7S 0.5-1		1025													
16	DG-AK7S 3.5-4		1027													
17	DUP#48		—													
18	DG-AM7S 0.5-1		1055													
19	DG-AM7S 3.5-4		1057													
20	DG-AM7S 7.5-8		1100													
21	DG-AO7S 0.5-1		1125													
22	DG-AO7S 3.5-4		1127													

COC 1 of 4

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No. _____

	Company	Date/Time		Company	Date/Time
Relinquished by	GEOSYNTEC	1-9-19 1615	Received by	TAPLS	1/9/19 1615
Relinquished by	TAPLS	18:30 1/9/19 1830	Received by		
Relinquished by			Received in Laboratory by	TA-PLS	1/9/19 1830

1.1/2.1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600 3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No 18726
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
23	DG-AS7S-0.5-1	1-9-19	1300	G	S	7	N		X	X	X	X	X	X	X	
24	DG-AS7S-3.5-4		1302													
25	DG-AU7S-0.5-1		1335													
26	DG-AU7S-3.5-4		1337													
27	DUP#50	1-9-19	—													
28	DG-AR9S-0.5-1		1405													
29	DG-AR9S-3.5-4		1407													
30	DUP#65		—													
31	DG-AD9S-0.5-1		1455													
32	DG-AD9S-3.5-4		1457													
33	DG-Z9S-0.5-1		1530													
34	DG-Z9S-3.5-4		1532													

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company: GEOSYNTEC	Date/Time: 1-9-19 1615	Received by	Company: TA-PLS	Date/Time: 1/9/19 1615
Relinquished by	Company: TA-PLS	Date/Time: 1/9/19 1830	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/9/19 1830

1.1/2.1C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-90673

Chain of Custody Record

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No 187736
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hich
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
35	DUP#63	1-9-19	—	G	S	7	N		X	X	X	X	X	X	X	
36	FB-1-9-19	↓	—	↓	↓	2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

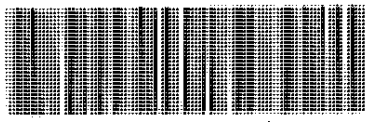
Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company GEOSYNTEC	Date/Time 1-9-19 1615	Received by	Company TA-PLS	Date/Time 1/9/19 1615
Relinquished by	Company TA-PLS	Date/Time 1/9/19 1830	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/9/19 1830

1.1 / 2.1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

720-90673

GEOSYNTEC



720-90673-02 Chain of Custody

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC01

FedEx Express Package(s) - Dropped Off
478645740996

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 09, 2019 4:35:42 PM

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No: K7786
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90673 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
1	DGY7S-0.5-1	1-9-19	0930	G	S	7	N		X	X	X	X	X	X	X	
2	DGY7S-3.5-4		0932													
3	DGAA7S-0.5-1		0810													
4	DGAA7S-3.5-4		0812													
5	DGAC7S-0.5-1		0845													
6	DGAC7S-3.5-4		0847													
7	DUP#47		—													
8	DGAC7S-7.5-8		0850													
9	DGAE7S-0.5-1		0905													
10	DGAE7S-3.5-4		0907													
11	DGAE7S-8.0-8.5		0910													

720-90673 Chain of Custody

Encores or Terracores Frozen Date: 1/10/19 Time: 1230 Initials: AC

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 2.1	Corr'd: 2.1	Therm ID No.: 89
Relinquished by:	Company: GEOSYNTEC	Date/Time: 1-9-19 1615	Received by:	Company: TAPLS	Date/Time: 1-9-19 1615
Relinquished by:	Company: TA PLS 18:30	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time: 1/9/19	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/9/19 18:30

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

FedEx 478645740096

1.1/2.1°C

Rec by TA IRV 1/10/19 0945

TestAmerica Pleasanton 720-90673
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No. 187726
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George A Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
12	DG-AI7S 0.5-1	1-9-19	1900	G	S	7	N		X	X	X	X	X	X	X	
13	DG-AI7S 3.5-4		1002													
14	DG-AI7S 8.0-8.5		1005													
15	DG-AK7S 0.5-1		1025													
16	DG-AK7S 3.5-4		1027													
17	DUP#48		—													
18	DG-AM7S 0.5-1		1055													
19	DG-AM7S 3.5-4		1057													
20	DG-AM7S 7.5-8		1100													
21	DG-AO7S 0.5-1		1125													
22	DG-AO7S 3.5-4		1127													

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1-9-19 1645	Received by:	Company: TAPLS	Date/Time: 1/9/19 1645
Relinquished by:	Company: TAPLS	Date/Time: 1/9/19 1830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/9/19 1830

1-1/2.1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No. 187720
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No :
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
23	DG-AS7S-0.5-1	1-9-19	1300	G	S	7	N		X	X	X	X	X	X	X	
24	DG-AS7S-3.5-4		1302													
25	DG-AU7S-0.5-1		1335													
26	DG-AU7S-3.5-4		1337													
27	Dup#50	1-9-19	—													
28	DG-AR9S-0.5-1		1405													
29	DG-AR9S-3.5-4		1407													
30	Dup#65		—													
31	DG-AD9S-0.5-1		1455													
32	DG-AD9S-3.5-4		1457													
33	DG-Z9S-0.5-1		1530													
34	DG-Z9S-3.5-4		1532													

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd: ____ Corr'd. ____ Therm ID No.: ____		
Relinquished by:	Company: GEOSYNTEC	Date/Time: 1-9-19 1615	Received by:	Company: TA-PLS	Date/Time: 1/9/19 1615
Relinquished by:	Company: TA-PLS	Date/Time: 1615/1-9-19 1830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/9/19 1830

1.1 / 2.1 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No. 187786
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
35	DUP-1-9-19	1-9-19	—	G	S	7	N		X	X	X	X	X	X	X	
36	FB-1-9-19	↓	—	↓	↓	2			X							

Preservation Used: 1= Ice; 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by	Company: GEOSYNTEC	Date/Time: 1-9-19 1615	Received by:	Company: TA-PLS	Date/Time: 1/9/19 1615
Relinquished by	Company: TA-PLS	Date/Time: 1/9/19 1830	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/9/19 1830

1.1 / 2.1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40748.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/21/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	8260B_LL/5030A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Perform MS/MSD (Yes or No)	Special Instructions/Note:
DG-Y7S-0.5-1 (720-90673-1)	1/9/19	07:30 Pacific		Solid			X	X	X				1
DG-Y7S-3.5-4 (720-90673-2)	1/9/19	07:32 Pacific		Solid			X	X	X				1
DG-AA7S-0.5-1 (720-90673-3)	1/9/19	08:10 Pacific		Solid			X	X	X				1
DG-AA7S-3.5-4 (720-90673-4)	1/9/19	08:12 Pacific		Solid			X	X	X				1
DG-AC7S-0.5-1 (720-90673-5)	1/9/19	08:45 Pacific		Solid			X	X	X				1
DG-AC7S-3.5-4 (720-90673-6)	1/9/19	08:47 Pacific		Solid			X	X	X				1
DUP-47 (720-90673-7)	1/9/19	Pacific		Solid			X	X	X				1
DG-AC7S-7.5-8 (720-90673-8)	1/9/19	08:50 Pacific		Solid			X	X	X				1
DG-AE7S-0.5-1 (720-90673-9)	1/9/19	09:05 Pacific		Solid			X	X	X				1

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time: 1/10/19 1488	Company TAOLS	Received by	Date/Time	Company
	Relinquished by	Date/Time:	Company	Received by	Date/Time: 1/11/19 9:30	Company TA IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

TRK 478645741146 Temp 2.3/2.5 IR-94

Ver: 09/20/2016

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-40748.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/21/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	8260B_LL/5035A_F_FW 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-AE7S-3.5-4 (720-90673-10)	1/9/19	09:07 Pacific		Solid		X	X	X			2	
DG-AE7S-8-8.5 (720-90673-11)	1/9/19	09:10 Pacific		Solid		X	X	X			2	
DG-AI7S-0.5-1 (720-90673-12)	1/9/19	10:00 Pacific		Solid		X	X	X			2	
DG-AI7S-3.5-4 (720-90673-13)	1/9/19	10:02 Pacific		Solid		X	X	X			2	
DG-AI7S-8-8.5 (720-90673-14)	1/9/19	10:05 Pacific		Solid		X	X	X			2	
DG-AK7S-0.5-1 (720-90673-15)	1/9/19	10:25 Pacific		Solid		X	X	X			2	
DG-AK7S-3.5-4 (720-90673-16)	1/9/19	10:27 Pacific		Solid		X	X	X			2	
DUP-48 (720-90673-17)	1/9/19	Pacific		Solid		X	X	X			2	
DG-AM7S-0.5-1 (720-90673-18)	1/9/19	10:55 Pacific		Solid		X	X	X			2	

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/10/19 1433	TAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: A. Kenney	Date/Time: 1/11/19 9:30	Company TA IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.

TRK 4786 4574 1146

Temp 2.3/2.9 IR-94

Ver: 09/20/2016

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40748.3
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/21/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email				
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AM7S-3.5-4 (720-90673-19)	1/9/19	10:57 Pacific		Solid			X	X	X			1	
DG-AM7S-7.5-8 (720-90673-20)	1/9/19	11:00 Pacific		Solid			X	X	X			1	
DG-AO7S-0.5-1 (720-90673-21)	1/9/19	11:25 Pacific		Solid			X	X	X			1	
DG-AO7S-3.5-4 (720-90673-22)	1/9/19	11:27 Pacific		Solid			X	X	X			1	
DG-AS7S-0.5-1 (720-90673-23)	1/9/19	13:00 Pacific		Solid			X	X	X			1	
DG-AS7S-3.5-4 (720-90673-24)	1/9/19	13:02 Pacific		Solid			X	X	X			1	
DG-AU7S-0.5-1 (720-90673-25)	1/9/19	13:35 Pacific		Solid			X	X	X			1	
DG-AU7S-3.5-4 (720-90673-26)	1/9/19	13:37 Pacific		Solid			X	X	X			1	
DUP-50 (720-90673-27)	1/9/19	Pacific		Solid			X	X	X			1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		1/10/19 1433	TAPS			
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				D. Kennedy	1/11/19 9:30	TA IRK

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.

TRK 4786 4574 1146

Temp 2.3/2.5 IR-94

Ver: 09/20/2016

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40748.4
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/21/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaQH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD)-VOCs + ethyl	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD)-VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AR9S-0.5-1 (720-90673-28)	1/9/19	14:05 Pacific		Solid			X	X	X			3	
DG-AR9S-3.5-4 (720-90673-29)	1/9/19	14:07 Pacific		Solid			X	X	X			3	
DUP-65 (720-90673-30)	1/9/19	Pacific		Solid			X	X	X			3	
DG-AD9S-0.5-1 (720-90673-31)	1/9/19	14:55 Pacific		Solid			X	X	X			3	
DG-AD9S-3.5-4 (720-90673-32)	1/9/19	14:57 Pacific		Solid			X	X	X			3	
DG-Z9S-0.5-1 (720-90673-33)	1/9/19	15:30 Pacific		Solid			X	X	X			3	
DG-Z9S-3.5-4 (720-90673-34)	1/9/19	15:32 Pacific		Solid			X	X	X			3	
DUP-63 (720-90673-35)	1/9/19	Pacific		Solid			X	X	X			3	
FB-1.9.19 (720-90673-36)	1/9/19	Pacific		Water						X	X	3	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/10/19 1432	TAPU	D. Kenney	1/11/19	TA IRK

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.

TRK 478645741146 Temp 2.3/2.5 IR-94

Ver: 09/20/2016

1/31/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90673-1

Login Number: 90673
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90673-1

Login Number: 90673
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/10/19 02:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90673-1

Login Number: 90673
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/10/19 07:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Monday, January 14, 2019 10:45 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90673-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Thank you for confirming.

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

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From: Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Sent: Monday, January 14, 2019 9:07 AM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90673-1 Brisbane OU-2 Data Gap Investigation

Hello Miranda,

There was no Trip Blank that was submitted with these samples according to sample control. Only a field blank was present.

Thank You,

Christian Bondoc

Project Management Assistant

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3271

www.testamericainc.com

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback

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From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Sunday, January 13, 2019 6:52 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90673-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Christian,

Thank you for adjusting the sample IDs. I agree with using the time listed on the COC. Was a trip blank submitted? I did not see it on the login or the COC but I'm hoping the field staff just forgot to include it on the COC.

Let me know,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Thursday, January 10, 2019 11:01 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas

<MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90673-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90673-1; Brisbane OU-2 Data Gap Investigation

Sample IDs were adjusted to fit project-specific naming conventions.

DG-Y7S-0.5-1. The container labels list time 07:35, while the COC lists time 07:30. Logged using COC sample time.
DG-Y7S-3.5-4. The container labels list time 07:37, while the COC lists time 07:32. Logged using COC sample time.
Please confirm the correct sampling time.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [494260]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90698-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Karen Dahl

Authorized for release by:
1/31/2019 6:00:09 PM
Karen Dahl, Senior Project Manager
(916)374-4384
karen.dahl@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
F4	MS/MSD RPD exceeds control limits due to sample size difference.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90698-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90698-1

Comments
No additional comments.

Receipt
The samples were received on 1/10/2019 6:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.2º C, 0.4º C, 0.5º C, 1.6º C and 4.5º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#12) DG-O11S-0.5-1. The 8oz container labels list time 10:02, while the COC lists time 10:00. Logged time by COC time.
(#13) DG-O11S-3.5-4. The 8oz container labels list time 10:00, while the COC lists time 10:02. Logged time by COC time.
(#23) DG-V13S-7.5-8. The 2oz container labels list ID:DG-V13S- time 12:55, while the COC lists ID: DG-V13S-7.5-8 time 12:55. Logged in using the COC sample ID.

GC/MS VOA
Method 8260B/CA_LUFTMS: The Toluene-d8 and 4-Bromofluorobenzene surrogate recoveries were outside acceptance limits for the following matrix spike duplicate (MSD): DG-V9S-3.5-4 (720-90698-4[MSD]). The MS and parent sample's surrogate recovery was within limits. The MSD sample has been qualified and reported. Matrix interference was confirmed.

Method 8260B/CA_LUFTMS: The Toluene-d8 surrogate recoveries were outside the upper control limit for the following samples: DG-T9S-3.5-4 (720-90698-7) & DG-T13S-3.5-4 (720-90698-25). These samples did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B/CA_LUFTMS: The Toluene-d8 and 4-Bromofluorobenzene surrogate recoveries were outside the upper control limits for the following samples: DG-X9S-3.5-4 (720-90698-2), DG-P9S-3.5-4 (720-90698-9), DG-U11S-3.5-4 (720-90698-20), & DG-T13S-0.5-1 (720-90698-24. This sample did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B/CA_LUFTMS: The Toluene-d8 and 4-Bromofluorobenzene surrogate recoveries were above outside control limits for the following samples: DG-N9S-0.5-1 (720-90698-10) and DG-N9S-3.5-4 (720-90698-11). Re-analysis was performed with concurring results. The re-analysis results have been reported.

Method 8260B/CA_LUFTMS: The continuing calibration verification (CCV) associated with batch 440-522715 recovered above the upper control limit for GRO C4-C12. The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B/CA_LUFTMS: The 4-Bromofluorobenzene surrogate recovery was outside the upper control limit for the following sample: DG-Q11S-3.5-4 (720-90698-15). This sample did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B/CA_LUFTMS: The Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following samples were below outside control limits: DG-N9S-0.5-1 (720-90698-10), DG-N9S-3.5-4 (720-90698-11), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), DUP-89 (720-90698-33). The samples were re-analyzed with concurring results, and the re-analysis results have been reported. Affected results are qualified with a * symbol.

Method 8260B/CA_LUFTMS: The 4-Bromofluorobenzene surrogate recoveries were outside control limits for the following samples: DG-U11S-0.5-1 (720-90698-19) & DUP-89 (720-90698-33). Re-analysis was performed with concurring results.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-522443 recovered above the upper control limit for Vinyl chloride. The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The Toluene-d8 surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD): DG-V9S-3.5-4 (720-90698-4[MSD]). The MS and parent sample's surrogate recovery was within limits. The MSD sample has been

Job ID: 720-90698-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

qualified and reported. Matrix interference was confirmed.

Method 8260B: The Toluene-d8 surrogate recoveries were outside the upper control limits for the following samples: DG-X9S-3.5-4 (720-90698-2), DG-T9S-3.5-4 (720-90698-7), DG-P9S-3.5-4 (720-90698-9), DG-N9S-0.5-1 (720-90698-10), DG-N9S-3.5-4 (720-90698-11), DG-U11S-3.5-4 (720-90698-20), DG-T13S-0.5-1 (720-90698-24), & DG-T13S-3.5-4 (720-90698-25). These samples did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries were outside the upper control limit for the following samples: DG-O11S-0.5-1 (720-90698-12), DG-O11S-3.5-4 (720-90698-13), DG-Q11S-0.5-1 (720-90698-14), DG-P13S-3.5-4 (720-90698-28), DUP-90 (720-90698-29), & DG-N13S-0.5-1 (720-90698-30) These samples did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries for the method blank and LCSD associated with analytical batch 440-522630 were outside the upper control limits.

Method 8260B: Internal standard (ISTD) responses for 1,4-Dichlorobenzene-d4 and Chlorobenzene-d5 for the following sample were below acceptance criteria: DG-X9S-3.5-4 (720-90698-2). These ISTDs do not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-522644 recovered above the upper control limit for Vinyl chloride, Chloroethane and Chloromethane . The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-V9S-0.5-1 (720-90698-3), DG-N9S-0.5-1 (720-90698-10), DG-N9S-3.5-4 (720-90698-11), DG-U11S-3.5-4 (720-90698-20), DG-T13S-0.5-1 (720-90698-24), DG-T13S-3.5-4 (720-90698-25) and (CCVIS 440-522644/2).

Method 8260B: Internal standard (ISTD) response for 1,4-Dichlorobenzene for the following samples were below control limits: DG-N9S-0.5-1 (720-90698-10) and DG-N9S-3.5-4 (720-90698-11). The samples were re-analyzed with concurring results, and the re-analysis results have been reported. Affected results are qualified with a * symbol.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-522714 recovered above the upper control limit for 1,1-Dichloroethene. The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following samples were outside the lower control limit:DG-S11S-3.5-4 (720-90698-18) and DG-U11S-0.5-1 (720-90698-19). The sample was re-analyzed with concurring results, and the re-analysis results have been reported. Matrix interference was confirmed. Affected results are qualified with a * symbol.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-523011 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike duplicate (MSD) recoveries for analytical batch 440-522443 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-523238 and analytical batch 440-523259 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 response for the following sample was outside control limits: DUP-89 (720-90698-33). The sample was re-analyzed with concurring results, and the original results have been reported. Affected results are qualified with a * symbol.

Method 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 response for the following sample was outside control limits: DG-U11S-0.5-1 (720-90698-19). The sample was re-analyzed with concurring results. Affected results are qualified with a * symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 720-90698-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

GC/MS Semi VOA

Method 8270C SIM: The following analyte recovered outside control limits for the LCS associated with preparation batch 720-258562 and analytical batch 720-258768: Chrysene. The recovery was confirmed by re-analysis. The batch was not re-extracted due to laboratory error. Routine control chart generation after this batch was analyzed which resulted in a higher upper limit for Chrysene. Qualified results have been reported.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-T13S-0.5-1 (720-90698-24). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258581 and analytical batch 720-258958 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-O11S-3.5-4 (720-90698-13), DG-Q11S-0.5-1 (720-90698-14), DG-Q11S-3.5-4 (720-90698-15), DUP-74 (720-90698-16), DG-S11S-0.5-1 (720-90698-17), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), DG-V13S-0.5-1 (720-90698-21), DG-V13S-3.5-4 (720-90698-22), DUP-91 (720-90698-26), DG-N13S-0.5-1 (720-90698-30), & DUP-89 (720-90698-33 Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The following samples required a dilution due to the nature of their sample matrix: DG-N9S-0.5-1 (720-90698-10), DG-Q11S-0.5-1 (720-90698-14), DG-Q11S-3.5-4 (720-90698-15), DUP-74 (720-90698-16), DG-S11S-0.5-1 (720-90698-17), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), DG-V13S-0.5-1 (720-90698-21), DG-V13S-3.5-4 (720-90698-22), DG-T13S-0.5-1 (720-90698-24), & DUP-91 (720-90698-26). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The matrix spike (MS) recoveries for preparation batch 720-258689 and analytical batch 720-258820 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDD & Dieldrin for the following sample: (720-90673-E-33-G). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The following samples were diluted due to color: DG-N9S-0.5-1 (720-90698-10), DG-Q11S-0.5-1 (720-90698-14), DG-Q11S-3.5-4 (720-90698-15), DUP-74 (720-90698-16), DG-S11S-0.5-1 (720-90698-17), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), & DG-V13S-0.5-1 (720-90698-21). Elevated reporting limits (RL) are provided.

Method 8081A: The following sample was diluted due its appearance. Its extract was dark and opaque: DUP-91 (720-90698-26). Elevated reporting limits (RL) are provided.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258580 and analytical batch 720-258821 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits. Results flagged with an F2 flag were reported from a column with an RPD outside of control limits.

Method 8081A: The %RPD between the primary and confirmation column / detector exceeded 40% for 4,4'-DDE and 4,4'-DDD for the following sample: DG-T9S-0.5-1 (720-90698-6). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD for the following sample: DG-N13S-3.5-4 (720-90698-31). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258691 and analytical batch 720-259087 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated

Job ID: 720-90698-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

laboratory control sample (LCS) recovery was within acceptance limits. Results flagged with an F1 or F2 flag were reported from a column with recoveries or an RPD outside of control limits.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD for the following sample: DG-O15S-0.5-1 (720-90698-34). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The laboratory control sample (LCS) for preparation batch 720-258691 and analytical batch 720-259019 recovered outside control limits for the following analytes: Endrin aldehyde. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8081A: The laboratory control sample (LCS) for preparation batch 720-258691 and analytical batch 720-259019 recovered outside control limits for the following analytes on the front column. These analytes were reported from the back column, which was within control limits. Samples reported from the front column for these analytes will be flagged with an asterisk (*).

Analyte	Recovery
Dieldrin	123%
Endosulfan I	123%
Endosulfan II	130%
Endosulfan sulfate	124%
Endrin	128%
Endrin aldehyde	142%

Method 8081A: The laboratory control sample (LCS) associated with preparation batch 720-258580 and analytical batch 720-258820 was outside acceptance criteria for Endrin aldehyde-124% and Endosulfan II-123% on the front column. The lower value from the back column was reported, which was within control limits. Samples reported from the front column for these analytes will be flagged with an asterisk (*).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258347 and analytical batch 720-258609 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The post digestion spike % recovery for Barium-141%, Beryllium-131%, Chromium-126%, Copper-134% and Vanadium-133% associated with batch 720-258609 was outside of control limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-258609 was outside control limits for: Barium-18%, Cobalt-28%, Chromium-24%, Nickel-25% and Vanadium-22% (720-90698-E-31-C SD)

Method(s) 6010B: The method blank for preparation batch 720-258347 and analytical batch 720-258609 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 720-258600 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected results are qualified with a ^ symbol.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries & RPDs for preparation batch 720-258337 and analytical batch 720-258600 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The post digestion spike % recovery for Vanadium-127%, Zinc-895%, Barium-370%, Beryllium-127%, Copper-342% and Lead-1237% associated with batch 720-258600 was outside of control limits.

Job ID: 720-90698-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-258600 was outside control limits for : Barium-164%, Copper-171%, Lead-170% and Zinc-163% (720-90698-E-4-F SD)

Method(s) 6010B: The method blank for preparation batch 720-258337 and analytical batch 720-258679 contained Chromium & Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-X9S-0.5-1 (720-90698-1), DG-X9S-3.5-4 (720-90698-2), DG-V9S-0.5-1 (720-90698-3), DG-V9S-3.5-4 (720-90698-4), DG-V9S-7.5-8 (720-90698-5), DG-T9S-0.5-1 (720-90698-6), DG-T9S-3.5-4 (720-90698-7), DG-N9S-0.5-1 (720-90698-10), DG-N9S-3.5-4 (720-90698-11), DG-O11S-0.5-1 (720-90698-12), DG-O11S-3.5-4 (720-90698-13), DG-Q11S-0.5-1 (720-90698-14), DG-Q11S-3.5-4 (720-90698-15), DUP-74 (720-90698-16), DG-S11S-0.5-1 (720-90698-17), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), DG-U11S-3.5-4 (720-90698-20), DG-T13S-3.5-4 (720-90698-25), DG-T13S-3.5-4 (720-90698-25[MS]) and DG-T13S-3.5-4 (720-90698-25[MSD]), & DUP-91 (720-90698-26). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258337 and analytical batch 720-258679 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7471A: The matrix spike (MS) recovery for preparation batch 720-258616 and analytical batch 720-258798 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (720-90698-34)

Method(s) 7471A: Due to the high concentration of Mercury, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-258616 and analytical batch 720-258798 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (720-90698-35)

Method(s) 7471A: The following samples were diluted to bring the concentration of target analytes within the calibration range Mercury: DG-O15S-0.5-1 (720-90698-34), DG-O15S-0.5-1 (720-90698-34[MS]) and DG-O15S-0.5-1 (720-90698-34[MSD]). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-X9S-0.5-1 — Lab Sample ID: 720-90698-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.3	J	9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	22		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	47		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	8.4		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.9		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	13		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	65		4.9	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.1	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	4.3	J *	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	3.8	J	4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	6.9		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	20		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	8.9		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	6.5		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.0		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	31		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	74		48	9.5	mg/Kg	1		8015B	Total/NA
Barium	65	B	2.6	0.37	mg/Kg	10		6010B	Total/NA
Chromium	41	B	2.6	0.27	mg/Kg	10		6010B	Total/NA
Cobalt	29		1.0	0.10	mg/Kg	10		6010B	Total/NA
Copper	250		7.8	3.7	mg/Kg	10		6010B	Total/NA
Lead	46	^	2.6	0.54	mg/Kg	10		6010B	Total/NA
Nickel	5.2		1.0	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.9	J	5.2	0.78	mg/Kg	10		6010B	Total/NA
Thallium	3.6		2.6	0.75	mg/Kg	10		6010B	Total/NA
Vanadium	260		2.6	0.35	mg/Kg	10		6010B	Total/NA
Zinc	120		7.8	3.3	mg/Kg	10		6010B	Total/NA
Mercury	0.062		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X9S-3.5-4 — Lab Sample ID: 720-90698-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	120		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	15		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	18		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	10		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	27		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.2		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	7.7		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	44		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	69		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	7.8		4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.4		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	390		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	160		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	52		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	68		2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	90		49	9.8	mg/Kg	1		8015B	Total/NA
gamma-BHC (Lindane)	20		2.0	0.61	ug/Kg	1		8081A	Total/NA
Antimony	16		1.4	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X9S-3.5-4 (Continued) — Lab Sample ID: 720-90698-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.3		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	520	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	14	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	3.3		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	310		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	1300	^	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.76	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	33		3.6	0.36	mg/Kg	10		6010B	Total/NA
Selenium	2.7	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Silver	1.7		0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	12		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	1400		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	2.1		0.059	0.0087	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-V9S-0.5-1 — Lab Sample ID: 720-90698-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	2.2	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	1.8	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.7	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	2.7	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	3.1	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.0		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	16	J	48	9.7	mg/Kg	1		8015B	Total/NA
Barium	43	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.091	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	7.2	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	91		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	14	^	1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	3.3		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Thallium	1.3		1.3	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	41		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.075		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V9S-3.5-4 — Lab Sample ID: 720-90698-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	20		9.6	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	4.5	J F1 F2	4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	2.4	J F1	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	2.1	J F1 F2	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	11	F1 F2	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.8	J F1 F2	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	17	F1	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V9S-3.5-4 (Continued)

Lab Sample ID: 720-90698-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	29	F1	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.0	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	130		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	59	F1	4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	16	F1 F2	4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	27	J	48	9.7	mg/Kg	1		8015B	Total/NA
Antimony	6.7	F1 F2	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	5.5	F1	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	420	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.10	J F1	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.7	F1	0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	12	B F1 F2	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	3.2	F1	0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	430	F2	4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	2400	^ F2	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	54		4.0	0.40	mg/Kg	10		6010B	Total/NA
Selenium	1.7	J F1	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	1.8	F1	0.79	0.16	mg/Kg	4		6010B	Total/NA
Thallium	0.63	J	1.6	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	8.6	F1	1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	1600		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.53		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V9S-7.5-8

Lab Sample ID: 720-90698-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.8		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	18	J	49	9.7	mg/Kg	1		8015B	Total/NA
Antimony	0.79	J	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	7.5		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.52		0.20	0.066	mg/Kg	4		6010B	Total/NA
Chromium	41	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	34		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	14	^	1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.14	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	29		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	2.0	0.31	mg/Kg	4		6010B	Total/NA
Thallium	0.34	J	1.0	0.30	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	53		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.063		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T9S-0.5-1

Lab Sample ID: 720-90698-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	7.5	J	9.7	4.9	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T9S-0.5-1 (Continued)

Lab Sample ID: 720-90698-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	3.0	J	4.9	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	7.1		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.5		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.5		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	15		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	6.6		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.8	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	12		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	15		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.3	J	4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	6.8		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	12		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	16		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	46		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	86		50	10	mg/Kg	1		8015B	Total/NA
4,4'-DDD	4.1	p	1.9	0.59	ug/Kg	1		8081A	Total/NA
4,4'-DDE	1.3	J p	1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	7.9		1.9	0.39	ug/Kg	1		8081A	Total/NA
Aroclor 1260	17	J	50	17	ug/Kg	1		8082	Total/NA
Arsenic	0.66	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	27	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	8.6	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	110		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	20	^	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.22	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	4.4		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.78	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Thallium	1.4	J	1.6	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	76		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.054		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T9S-3.5-4

Lab Sample ID: 720-90698-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.9	J	2.0	0.75	mg/Kg	1		8015B	Total/NA
Barium	20	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Chromium	7.8	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	81		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	2.2		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	2.3		1.7	0.17	mg/Kg	4		6010B	Total/NA
Thallium	1.0	J	1.7	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	20		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.038		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-P9S-0.5-1 — Lab Sample ID: 720-90698-8

No Detections.

Client Sample ID: DG-P9S-3.5-4 — Lab Sample ID: 720-90698-9

No Detections.

Client Sample ID: DG-N9S-0.5-1 — Lab Sample ID: 720-90698-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	330		95	47	ug/Kg	10		8270C SIM	Total/NA
Acenaphthene	97		47	27	ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	2100		47	23	ug/Kg	10		8270C SIM	Total/NA
Anthracene	710		47	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	2800		47	14	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	5400		47	18	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	6200		47	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	2200		47	41	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	2400		47	20	ug/Kg	10		8270C SIM	Total/NA
Chrysene	4500		47	13	ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	490		47	33	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	5700		47	13	ug/Kg	10		8270C SIM	Total/NA
Fluorene	310		47	21	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	1800		47	40	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	1100		47	33	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	6000		47	17	ug/Kg	10		8270C SIM	Total/NA
Pyrene	11000		47	16	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	380		20	7.3	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	960		490	98	mg/Kg	10		8015B	Total/NA
Antimony	1.5		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	32		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	49	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.31	0.030	mg/Kg	4		6010B	Total/NA
Chromium	36	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	110		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	170	^	1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.38	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	32		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Thallium	1.4		1.2	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	75		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	110		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.30		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N9S-3.5-4 — Lab Sample ID: 720-90698-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	16		10	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	32		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	10		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	36		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	63		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample ID: DG-N9S-3.5-4 (Continued)

Lab Sample ID: 720-90698-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	94		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	47		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	26		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	65		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	11		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	72		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	4.4	J	5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	36		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	36		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	86		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	110		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	37	J	47	9.5	mg/Kg	1		8015B	Total/NA
Antimony	1.9		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	140		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	63	B	1.4	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.67		0.29	0.094	mg/Kg	4		6010B	Total/NA
Chromium	48	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	54		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	26		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.4	0.19	mg/Kg	4		6010B	Total/NA
Nickel	38		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Thallium	0.61	J	1.4	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	110		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O11S-0.5-1

Lab Sample ID: 720-90698-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.1	J	9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	7.1		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	7.2		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	40		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	39		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	85		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	22		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	26		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	77		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	7.0		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	37		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	18		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	31		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	58		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	57		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	31		2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	88		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	1.3		1.3	0.21	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O11S-0.5-1 (Continued)

Lab Sample ID: 720-90698-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.4		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	39	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.34		0.25	0.082	mg/Kg	4		6010B	Total/NA
Chromium	32	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	53		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	68		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.21	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	46		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Thallium	1.4		1.3	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	71		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.049		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O11S-3.5-4

Lab Sample ID: 720-90698-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	66		48	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	34		24	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	38		24	9.6	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	150		24	7.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	140		24	9.2	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	230		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	69		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	88		24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	230		24	6.8	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	18	J	24	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	180		24	6.8	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	53		24	20	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	78		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	100		24	8.7	ug/Kg	5		8270C SIM	Total/NA
Pyrene	320		24	8.2	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	99		3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	330		99	20	mg/Kg	2		8015B	Total/NA
4,4'-DDE	0.58	J	2.0	0.41	ug/Kg	1		8081A	Total/NA
Antimony	12		1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	59		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	140	B	1.7	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	4.3		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	71	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	680		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	2000		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	61		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	4.0		3.3	0.50	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.83	0.17	mg/Kg	4		6010B	Total/NA
Thallium	1.3	J	1.7	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.7	0.22	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O11S-3.5-4 (Continued) — Lab Sample ID: 720-90698-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	570		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.39		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q11S-0.5-1 — Lab Sample ID: 720-90698-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	220		200	98	ug/Kg	20		8270C SIM	Total/NA
Anthracene	74	J	98	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	150		98	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	150		98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	220		98	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	120		98	85	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	75	J	98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	280		98	28	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	170		98	28	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	150		98	69	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	380		98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	300		98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	950		20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2800		490	98	mg/Kg	10		8015B	Total/NA
Antimony	3.1		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	9.1		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	75	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	170		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	420		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.51	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	17		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Thallium	1.3		1.3	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	140		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q11S-3.5-4 — Lab Sample ID: 720-90698-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	520	J	960	480	ug/Kg	100		8270C SIM	Total/NA
Phenanthrene	260	J	480	170	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2300		95	36	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	5700		2400	470	mg/Kg	50		8015B	Total/NA
Antimony	2.5		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	47	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.72		0.36	0.12	mg/Kg	4		6010B	Total/NA
Chromium	37	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	77		5.4	2.6	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q11S-3.5-4 (Continued) — Lab Sample ID: 720-90698-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	48		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	43		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	98		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.093		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-74 — Lab Sample ID: 720-90698-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	58	J	190	57	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]pyrene	91	J	190	72	ug/Kg	40		8270C SIM	Total/NA
Benzo[b]fluoranthene	150	J	190	80	ug/Kg	40		8270C SIM	Total/NA
Chrysene	170	J	190	53	ug/Kg	40		8270C SIM	Total/NA
Fluoranthene	110	J	190	53	ug/Kg	40		8270C SIM	Total/NA
Naphthalene	130	J	190	130	ug/Kg	40		8270C SIM	Total/NA
Phenanthrene	230		190	68	ug/Kg	40		8270C SIM	Total/NA
Pyrene	180	J	190	65	ug/Kg	40		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	920		19	7.2	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2600		480	96	mg/Kg	10		8015B	Total/NA
Antimony	4.2		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	7.5		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	55	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	16	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	130		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	430		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	13		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Thallium	1.1	J	1.8	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	71		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	110		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S11S-0.5-1 — Lab Sample ID: 720-90698-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	680		40	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1900		990	200	mg/Kg	20		8015B	Total/NA
Antimony	0.37	J	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	1.2	J	2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	55	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Chromium	9.7	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	7.4		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	37		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	39		1.3	0.28	mg/Kg	4		6010B	Total/NA
Nickel	3.1		1.3	0.13	mg/Kg	4		6010B	Total/NA
Thallium	1.0	J	1.3	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.3	0.18	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S11S-0.5-1 (Continued) — Lab Sample ID: 720-90698-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	48		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.049		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S11S-3.5-4 — Lab Sample ID: 720-90698-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.2		0.95	0.47	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	240	J	400	200	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]anthracene	97	J	200	59	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]pyrene	97	J	200	75	ug/Kg	40		8270C SIM	Total/NA
Benzo[b]fluoranthene	240		200	83	ug/Kg	40		8270C SIM	Total/NA
Chrysene	230		200	55	ug/Kg	40		8270C SIM	Total/NA
Fluoranthene	290		200	55	ug/Kg	40		8270C SIM	Total/NA
Phenanthrene	460		200	71	ug/Kg	40		8270C SIM	Total/NA
Pyrene	320		200	67	ug/Kg	40		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1200		19	7.0	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2700		470	94	mg/Kg	10		8015B	Total/NA
Antimony	26		2.8	0.47	mg/Kg	10		6010B	Total/NA
Arsenic	31		5.6	0.48	mg/Kg	10		6010B	Total/NA
Barium	100		2.8	0.40	mg/Kg	10		6010B	Total/NA
Beryllium	0.34	J	0.56	0.18	mg/Kg	10		6010B	Total/NA
Cadmium	0.34	J	0.71	0.070	mg/Kg	10		6010B	Total/NA
Chromium	22	B	2.8	0.30	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	1600		8.5	4.0	mg/Kg	10		6010B	Total/NA
Lead	1300		2.8	0.59	mg/Kg	10		6010B	Total/NA
Molybdenum	3.6		2.8	0.36	mg/Kg	10		6010B	Total/NA
Nickel	120		2.8	0.29	mg/Kg	10		6010B	Total/NA
Selenium	5.5	J	5.6	0.85	mg/Kg	10		6010B	Total/NA
Vanadium	75		2.8	0.38	mg/Kg	10		6010B	Total/NA
Zinc	130		8.5	3.6	mg/Kg	10		6010B	Total/NA
Mercury	2.3		0.061	0.0090	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-U11S-0.5-1 — Lab Sample ID: 720-90698-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	4100		160	110	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	3.0	*	1.5	0.77	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	1000		390	200	ug/Kg	40		8270C SIM	Total/NA
Acenaphthene	130	J	200	110	ug/Kg	40		8270C SIM	Total/NA
Anthracene	170	J	200	79	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]anthracene	92	J	200	59	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]pyrene	140	J	200	75	ug/Kg	40		8270C SIM	Total/NA
Benzo[b]fluoranthene	190	J	200	83	ug/Kg	40		8270C SIM	Total/NA
Chrysene	300		200	55	ug/Kg	40		8270C SIM	Total/NA
Fluoranthene	230		200	55	ug/Kg	40		8270C SIM	Total/NA
Fluorene	150	J	200	87	ug/Kg	40		8270C SIM	Total/NA
Naphthalene	380		200	140	ug/Kg	40		8270C SIM	Total/NA
Phenanthrene	650		200	71	ug/Kg	40		8270C SIM	Total/NA
Pyrene	660		200	67	ug/Kg	40		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U11S-0.5-1 (Continued)

Lab Sample ID: 720-90698-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3600		98	37	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4900		2400	490	mg/Kg	50		8015B	Total/NA
Antimony	34		1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	68	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	17	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	150		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	840		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	12		1.5	0.16	mg/Kg	4		6010B	Total/NA
Thallium	1.3	J	1.5	0.45	mg/Kg	4		6010B	Total/NA
Vanadium	65		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	120		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U11S-3.5-4

Lab Sample ID: 720-90698-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	46		9.9	5.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	8.0		5.0	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	7.8		5.0	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	28		5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	12		5.0	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	17		5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	34		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.4		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	8.7		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	30		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	32		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	9.0		5.0	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.3		5.0	4.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	40		5.0	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	76		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	51		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	270		5.7	2.1	mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	450		140	28	mg/Kg	3		8015B	Total/NA
Antimony	1.6	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	8.7		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	130	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.61		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	35	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	34		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	94		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	53		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.89	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Thallium	1.1	J	1.7	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.7	0.23	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U11S-3.5-4 (Continued) — Lab Sample ID: 720-90698-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	290		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V13S-0.5-1 — Lab Sample ID: 720-90698-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	63	J	94	36	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	100		94	40	ug/Kg	20		8270C SIM	Total/NA
Chrysene	66	J	94	26	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	64	J	94	26	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	70	J	94	66	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	78	J	94	34	ug/Kg	20		8270C SIM	Total/NA
Pyrene	83	J	94	32	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	710		39	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2300		990	200	mg/Kg	20		8015B	Total/NA
Antimony	4.2		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	7.1		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	66		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	36	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	120		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	360		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.76	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	33		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.59	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	230		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.097		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V13S-3.5-4 — Lab Sample ID: 720-90698-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	170		98	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	170		98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	220		98	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	100		98	84	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	83	J	98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	200		98	27	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	260		98	27	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	250		98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	440		98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	710		19	7.1	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2300		470	94	mg/Kg	10		8015B	Total/NA
Aroclor 1260	21	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	2.4		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	5.4		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	63		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.28	0.090	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V13S-3.5-4 (Continued) — Lab Sample ID: 720-90698-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.37		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	43	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	120		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	280		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.67	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	36		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.89	J	2.8	0.41	mg/Kg	4		6010B	Total/NA
Silver	0.42	J	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	120		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.086		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V13S-7.5-8 — Lab Sample ID: 720-90698-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3.5	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	6.2		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.0	J	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	5.2		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.4	J	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	6.1		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	13		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	13		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.8		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.7		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	22	J	48	9.5	mg/Kg	1		8015B	Total/NA
Antimony	1.8		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	6.2		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	100		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.66		0.33	0.11	mg/Kg	4		6010B	Total/NA
Chromium	59	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	28		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	9.3		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	39		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	59		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.059		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T13S-0.5-1 — Lab Sample ID: 720-90698-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	78		50	25	ug/Kg	5		8270C SIM	Total/NA
Anthracene	10	J	25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	8.5	J	25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	14	J	25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	29		25	10	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T13S-0.5-1 (Continued)

Lab Sample ID: 720-90698-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	26		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	20	J	25	6.9	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	56		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	43		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	27		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	280		9.7	3.6	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	730		240	49	mg/Kg	5		8015B	Total/NA
Antimony	4.9		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	4.3		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	80		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.23		0.23	0.074	mg/Kg	4		6010B	Total/NA
Cadmium	0.25	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	430		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	410		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4		1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	26		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	110		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T13S-3.5-4

Lab Sample ID: 720-90698-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	5.4	J	9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	3.2	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	10		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	11		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	15		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	13		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.3		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	14		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	27		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	8.5		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.2		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	25		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	23		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	11		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	27	J	47	9.5	mg/Kg	1		8015B	Total/NA
Antimony	0.70	J F1	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	2.9		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	71	B F1	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Chromium	71	B F1	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	7.9		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	12		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	6.3		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.18	J	1.4	0.18	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T13S-3.5-4 (Continued) — Lab Sample ID: 720-90698-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	50	F1 F2	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	2.8	0.41	mg/Kg	4		6010B	Total/NA
Thallium	0.65	J	1.4	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	46		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	25		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-91 — Lab Sample ID: 720-90698-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	220		99	50	ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	25	J	50	24	ug/Kg	10		8270C SIM	Total/NA
Anthracene	21	J	50	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	21	J	50	15	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	34	J	50	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	56		50	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	74		50	43	ug/Kg	10		8270C SIM	Total/NA
Chrysene	57		50	14	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	38	J	50	14	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	120		50	35	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	94		50	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	55		50	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	530		20	7.5	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1500		500	100	mg/Kg	10		8015B	Total/NA
Antimony	15		4.6	0.77	mg/Kg	10		6010B	Total/NA
Arsenic	19		9.3	0.79	mg/Kg	10		6010B	Total/NA
Barium	120		4.6	0.66	mg/Kg	10		6010B	Total/NA
Cadmium	1.3		1.2	0.11	mg/Kg	10		6010B	Total/NA
Chromium	60	B	4.6	0.49	mg/Kg	10		6010B	Total/NA
Cobalt	25		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	1300		14	6.6	mg/Kg	10		6010B	Total/NA
Lead	2500		4.6	0.97	mg/Kg	10		6010B	Total/NA
Molybdenum	6.8		4.6	0.59	mg/Kg	10		6010B	Total/NA
Nickel	130		4.6	0.47	mg/Kg	10		6010B	Total/NA
Vanadium	66		4.6	0.63	mg/Kg	10		6010B	Total/NA
Zinc	310		14	5.9	mg/Kg	10		6010B	Total/NA
Mercury	0.56		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P13S-0.5-1 — Lab Sample ID: 720-90698-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	2.3	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.0	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	2.7	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.0	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	3.9	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	3.9	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	25		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	89		48	9.6	mg/Kg	1		8015B	Total/NA
4,4'-DDT	9.6		2.0	0.40	ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P13S-0.5-1 (Continued)

Lab Sample ID: 720-90698-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	1.4	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	37		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	18	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	110		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	150		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.52	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	7.4		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	110		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.038		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P13S-3.5-4

Lab Sample ID: 720-90698-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	7.8	J	9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	4.0	J	4.9	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	2.7	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.8		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	11		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	36		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	9.4		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.0		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	29		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	18		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.1		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	45		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	50		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	21		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	90		3.8	1.4	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	330		94	19	mg/Kg	2		8015B	Total/NA
Antimony	3.6		1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	72		1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.84		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	2.3		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	32	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	300		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	790		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	47		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Thallium	0.85	J	1.7	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	330		5.0	2.1	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P13S-3.5-4 (Continued)

Lab Sample ID: 720-90698-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.053		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-90

Lab Sample ID: 720-90698-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	6.2	J	9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	3.8	J	4.9	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	2.6	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.3		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	11		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	36		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.3		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.8		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	26		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	18		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	5.8		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	37		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	42		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	21		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	22		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	70		49	9.9	mg/Kg	1		8015B	Total/NA
Antimony	3.0		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	15		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	53		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.87		0.27	0.089	mg/Kg	4		6010B	Total/NA
Cadmium	0.72		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	37	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	150		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	200		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	46		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.5	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	310		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.079		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N13S-0.5-1

Lab Sample ID: 720-90698-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	10	J	20	9.8	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	22		9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	49		9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	62		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	140		9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	180		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	83		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	61		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	87		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	11		9.8	6.9	ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N13S-0.5-1 (Continued)

Lab Sample ID: 720-90698-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	170		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	64		9.8	8.2	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	22		9.8	6.9	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	59		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	230		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	59		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	170		47	9.4	mg/Kg	1		8015B	Total/NA
4,4'-DDT	1.4	J	2.0	0.41	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	0.68	J	2.0	0.40	ug/Kg	1		8081A	Total/NA
Antimony	1.2	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	3.3	J	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	120		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.30	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	15	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	93		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	58		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	15		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	97		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	90		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.079		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N13S-3.5-4

Lab Sample ID: 720-90698-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	190		9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	8.7		4.9	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.9	J	4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	12		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	8.7		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.1		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	14		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.5		4.9	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.1	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	30		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	3.6	J	4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	15		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	54		4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	79		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	160		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	27		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	13		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	15	J	48	9.5	mg/Kg	1		8015B	Total/NA
4,4'-DDD	1.6	J p F1	1.9	0.59	ug/Kg	1		8081A	Total/NA
Antimony	0.59	J F1	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	2.8	J F1	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	50	F1	1.8	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N13S-3.5-4 (Continued) — Lab Sample ID: 720-90698-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.23	J F1	0.35	0.12	mg/Kg	4		6010B	Total/NA
Chromium	130	B F1	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	25		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	35	F1	5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	7.9		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.79	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	120	F1	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	74	F1	1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	57	F1	5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N13S-7.5-8 — Lab Sample ID: 720-90698-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.3	J	2.0	0.73	mg/Kg	1		8015B	Total/NA
Arsenic	3.8		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	29		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.30		0.26	0.085	mg/Kg	4		6010B	Total/NA
Chromium	50	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	5.2		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	2.3		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	21		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	14		3.9	1.7	mg/Kg	4		6010B	Total/NA

Client Sample ID: DUP-89 — Lab Sample ID: 720-90698-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	23		20	9.8	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	18		9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	48		9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	37		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	80		9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	100		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	72		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	35		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	63		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	9.5	J	9.8	6.8	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	100		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	50		9.8	8.2	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	27		9.8	6.8	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	50		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	120		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	57		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160		50	9.9	mg/Kg	1		8015B	Total/NA
4,4'-DDT	0.44	J p	1.9	0.39	ug/Kg	1		8081A	Total/NA
Antimony	1.7	J	1.9	0.32	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-89 (Continued)

Lab Sample ID: 720-90698-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	150		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.55		0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.40	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	79		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	95		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.75	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	27		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	2.7	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	140		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.076		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O15S-0.5-1

Lab Sample ID: 720-90698-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	9.3	J	9.9	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	2.8	J	4.9	2.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	5.0		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	3.1	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.4		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	9.9		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	16		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	9.0		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.6		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	15		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	16		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.0	J	4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	7.1		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	11		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	21		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	22		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	65		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120		49	9.9	mg/Kg	1		8015B	Total/NA
4,4'-DDD	0.62	J p F1	1.9	0.58	ug/Kg	1		8081A	Total/NA
Antimony	2.4		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	75		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	170	F1	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.37	F1	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.044	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	210	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	29		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	34	F1	5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	11		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	300		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	81	F1	1.8	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O15S-0.5-1 (Continued) — Lab Sample ID: 720-90698-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	62		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	17		1.5	0.21	mg/Kg	100		7471A	Total/NA

Client Sample ID: DG-O15S-3.5-4 — Lab Sample ID: 720-90698-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	10		6.6	3.3	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	9.1	J	9.7	4.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	3.0	J	4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.1		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	8.3		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.1	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	5.5		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	6.8		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	6.0		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	6.4		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	7.9		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	8.3		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	30	J	48	9.7	mg/Kg	1		8015B	Total/NA
Antimony	0.44	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	4.6		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	84		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	0.056	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	73	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.0		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	15		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	20		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.67	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	36		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.62	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	77		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.26	F1	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O15S-7.5-8 — Lab Sample ID: 720-90698-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.2	J	2.0	0.74	mg/Kg	1		8015B	Total/NA
Antimony	0.31	J	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	1.5	J	2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	49		1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.21		0.21	0.068	mg/Kg	4		6010B	Total/NA
Cadmium	0.038	J	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	45	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	7.1		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	3.5		1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.21	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	25		1.0	0.11	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O15S-7.5-8 (Continued)

Lab Sample ID: 720-90698-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.40	J	2.1	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	18		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.032		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-105

Lab Sample ID: 720-90698-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	7.8	J	9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	2.3	J	4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.9	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	6.6		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.3	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	4.5	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	5.4		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	4.5	J	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	5.7		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	6.1		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	7.3		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	30	J	49	9.9	mg/Kg	1		8015B	Total/NA
Arsenic	4.5		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	69		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Cadmium	0.041	J	0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	160	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	27		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	20		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.57	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	92		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.9	J	2.8	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	75		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.33		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X9S-0.5-1

Date Collected: 01/10/19 07:30
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		84	59	ug/Kg		01/15/19 08:59	01/15/19 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/15/19 08:59*	*01/15/19 12:21*	*1*
4-Bromofluorobenzene (Surr)	*116*		*79 - 120*	*01/15/19 08:59*	*01/15/19 12:21*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/15/19 08:59*	*01/15/19 12:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,1,1-Trichloroethane	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.4	4.2	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,1,2-Trichloroethane	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,1-Dichloroethane	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,1-Dichloropropene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,2,3-Trichlorobenzene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,2,3-Trichloropropane	ND		8.4	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,2,4-Trichlorobenzene	ND		4.2	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,2,4-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,2-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,2-Dichloroethane	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,2-Dichloropropane	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,3,5-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,3-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,3-Dichloropropane	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
1,4-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
2,2-Dichloropropane	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
2-Butanone (MEK)	ND		8.4	4.2	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
2-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
2-Hexanone	ND		8.4	4.2	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
4-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
4-Isopropyltoluene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Benzene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Bromobenzene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Bromoform	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Bromomethane	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Carbon disulfide	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Chlorobenzene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Chlorobromomethane	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Chlorodibromomethane	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Chloroethane	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Chloroform	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Chloromethane	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
cis-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1

Client Sample ID: DG-X9S-0.5-1
Date Collected: 01/10/19 07:30
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Dibromomethane	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Dichlorobromomethane	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Dichlorodifluoromethane	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Ethylbenzene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Ethylene Dibromide	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Hexachlorobutadiene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Isopropylbenzene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Methyl tert-butyl ether	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Methylene Chloride	ND		8.4	4.2	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Naphthalene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
n-Butylbenzene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
N-Propylbenzene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
sec-Butylbenzene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Styrene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
tert-Butylbenzene	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Tetrachloroethene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Toluene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
trans-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
trans-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Trichloroethene	ND		0.84	0.42	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Trichlorofluoromethane	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Vinyl acetate	ND		6.7	3.4	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Vinyl chloride	ND		1.7	0.84	ug/Kg		01/15/19 08:59	01/15/19 12:21	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/15/19 08:59	01/15/19 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*01/15/19 08:59*	*01/15/19 12:21*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/15/19 08:59*	*01/15/19 12:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.3**	**J**	9.9	4.9	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Acenaphthylene	**22**		4.9	2.4	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Anthracene	**47**		4.9	2.0	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Benzo[a]anthracene	**8.4**		4.9	1.5	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Benzo[a]pyrene	**7.9**		4.9	1.9	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Benzo[b]fluoranthene	**13**		4.9	2.1	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Benzo[g,h,i]perylene	**65**		4.9	4.3	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Benzo[k]fluoranthene	**4.1**	**J**	4.9	2.1	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Chrysene	**4.3**	**J ***	4.9	1.4	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Dibenz(a,h)anthracene	**3.8**	**J**	4.9	3.5	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Fluoranthene	**6.9**		4.9	1.4	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Fluorene	ND		4.9	2.2	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Indeno[1,2,3-cd]pyrene	**20**		4.9	4.2	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Naphthalene	**8.9**		4.9	3.5	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Phenanthrene	**6.5**		4.9	1.8	ug/Kg		01/15/19 15:04	01/21/19 20:38	1
Pyrene	**8.0**		4.9	1.7	ug/Kg		01/15/19 15:04	01/21/19 20:38	1

Client Sample ID: DG-X9S-0.5-1

Date Collected: 01/10/19 07:30
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*01/15/19 15:04*	*01/21/19 20:38*	*1*
Terphenyl-d14	*107*		*35 - 146*	*01/15/19 15:04*	*01/21/19 20:38*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**31**		1.9	0.71	mg/Kg		01/11/19 15:04	01/18/19 22:15	1
Motor Oil Range Organics [C24-C36]	**74**		48	9.5	mg/Kg		01/11/19 15:04	01/18/19 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*89*		*40 - 130*	*01/11/19 15:04*	*01/18/19 22:15*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Endrin	ND		1.9	0.44	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/15/19 15:08	01/19/19 11:31	1
Toxaphene	ND		39	6.6	ug/Kg		01/15/19 15:08	01/19/19 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*21 - 136*	*01/15/19 15:08*	*01/19/19 11:31*	*1*
Tetrachloro-m-xylene	*92*		*21 - 145*	*01/15/19 15:08*	*01/19/19 11:31*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:27	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:27	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:27	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:27	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:27	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:27	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:27	1

Client Sample ID: DG-X9S-0.5-1

Date Collected: 01/10/19 07:30
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*01/14/19 13:13*	*01/15/19 15:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.6	0.43	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Arsenic	ND		5.2	0.44	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Barium	**65**	**B**	2.6	0.37	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Beryllium	ND		0.52	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Cadmium	ND		0.65	0.064	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Chromium	**41**	**B**	2.6	0.27	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Cobalt	**29**		1.0	0.10	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Copper	**250**		7.8	3.7	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Lead	**46**	**^**	2.6	0.54	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Molybdenum	ND		2.6	0.33	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Nickel	**5.2**		1.0	0.11	mg/Kg		01/11/19 09:15	01/16/19 19:32	4
Selenium	**1.9**	**J**	5.2	0.78	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Silver	ND		1.3	0.26	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Thallium	**3.6**		2.6	0.75	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Vanadium	**260**		2.6	0.35	mg/Kg		01/11/19 09:15	01/15/19 18:06	10
Zinc	**120**		7.8	3.3	mg/Kg		01/11/19 09:15	01/15/19 18:06	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.015	0.0022	mg/Kg		01/22/19 11:55	01/22/19 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-X9S-3.5-4

Date Collected: 01/10/19 07:32
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/15/19 08:59	01/15/19 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/15/19 08:59*	*01/15/19 12:49*	*1*
4-Bromofluorobenzene (Surr)	*123*	*X*	*79 - 120*	*01/15/19 08:59*	*01/15/19 12:49*	*1*
Toluene-d8 (Surr)	*130*	*X*	*79 - 123*	*01/15/19 08:59*	*01/15/19 12:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,1,1-Trichloroethane	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	3.9	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,1,2-Trichloroethane	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,1-Dichloroethane	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,1-Dichloropropene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,2,4-Trichlorobenzene	ND		3.9	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,2-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,2-Dichloroethane	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,2-Dichloropropane	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,3-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,3-Dichloropropane	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
1,4-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
2-Hexanone	ND		7.9	3.9	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
4-Isopropyltoluene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Benzene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Bromoform	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Chlorobenzene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Chlorodibromomethane	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Chloroform	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
cis-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
cis-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1

Client Sample ID: DG-X9S-3.5-4

Date Collected: 01/10/19 07:32
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Dichlorobromomethane	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Ethylbenzene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Ethylene Dibromide	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Isopropylbenzene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Methylene Chloride	ND		7.9	3.9	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
N-Propylbenzene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Styrene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Tetrachloroethene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Toluene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
trans-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
trans-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Trichloroethene	ND		0.79	0.39	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/15/19 08:59	01/15/19 12:49	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/15/19 08:59	01/15/19 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/15/19 08:59*	*01/15/19 12:49*	*1*
Toluene-d8 (Surr)	*130*	*X*	*79 - 123*	*01/15/19 08:59*	*01/15/19 12:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		9.8	4.9	ug/Kg		01/15/19 21:09	01/16/19 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*	*01/15/19 21:09*	*01/16/19 04:12*	*1*
Toluene-d8 (Surr)	*146*	*X **	*79 - 123*	*01/15/19 21:09*	*01/16/19 04:12*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**120**		9.8	4.9	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Anthracene	**15**		4.9	2.0	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Benzo[a]anthracene	**18**		4.9	1.5	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Benzo[a]pyrene	**10**		4.9	1.9	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Benzo[b]fluoranthene	**27**		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Benzo[g,h,i]perylene	**8.2**		4.9	4.2	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Benzo[k]fluoranthene	**7.7**		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Chrysene	**44**		4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 17:23	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-X9S-3.5-4

Date Collected: 01/10/19 07:32
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-2

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**69**		4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Fluorene	**7.8**		4.9	2.2	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Indeno[1,2,3-cd]pyrene	**6.4**		4.9	4.1	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Naphthalene	**390**		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Phenanthrene	**160**		4.9	1.8	ug/Kg		01/15/19 17:13	01/22/19 17:23	1
Pyrene	**52**		4.9	1.7	ug/Kg		01/15/19 17:13	01/22/19 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*01/15/19 17:13*	*01/22/19 17:23*	*1*
Terphenyl-d14	*75*		*35 - 146*	*01/15/19 17:13*	*01/22/19 17:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**68**		2.0	0.73	mg/Kg		01/11/19 15:04	01/18/19 20:48	1
Motor Oil Range Organics [C24-C36]	**90**		49	9.8	mg/Kg		01/11/19 15:04	01/18/19 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*89*		*40 - 130*	*01/11/19 15:04*	*01/18/19 20:48*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.59	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Aldrin	ND		2.0	0.49	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Endrin	ND		2.0	0.45	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Endrin aldehyde	ND		2.0	0.61	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
gamma-BHC (Lindane)	**20**		2.0	0.61	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/15/19 15:08	01/23/19 08:28	1
Toxaphene	ND		39	6.6	ug/Kg		01/15/19 15:08	01/23/19 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*21 - 136*	*01/15/19 15:08*	*01/23/19 08:28*	*1*
Tetrachloro-m-xylene	*83*		*21 - 145*	*01/15/19 15:08*	*01/23/19 08:28*	*1*

Client Sample ID: DG-X9S-3.5-4

Date Collected: 01/10/19 07:32
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-2

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:40	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:40	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:40	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:40	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:40	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:40	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*57*		*45 - 120*	*01/14/19 13:13*	*01/16/19 19:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**16**		1.4	0.24	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Arsenic	**8.3**		2.9	0.24	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Barium	**520**	**B**	1.4	0.20	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Beryllium	**0.11**	**J**	0.29	0.093	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Cadmium	**1.2**		0.36	0.035	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Chromium	**14**	**B**	1.4	0.15	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Cobalt	**3.3**		0.57	0.057	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Copper	**310**		4.3	2.0	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Lead	**1300**	**^**	1.4	0.30	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Molybdenum	**0.76**	**J**	1.4	0.18	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Nickel	**33**		3.6	0.36	mg/Kg		01/11/19 09:15	01/16/19 19:36	10
Selenium	**2.7**	**J**	2.9	0.43	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Silver	**1.7**		0.71	0.14	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Thallium	ND		1.4	0.41	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Vanadium	**12**		1.4	0.19	mg/Kg		01/11/19 09:15	01/15/19 18:11	4
Zinc	**1400**		4.3	1.8	mg/Kg		01/11/19 09:15	01/15/19 18:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.1**		0.059	0.0087	mg/Kg		01/22/19 11:55	01/22/19 15:37	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**35.4**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-V9S-0.5-1
Date Collected: 01/10/19 08:10
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-3
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		01/15/19 21:09	01/16/19 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/15/19 21:09*	*01/16/19 04:40*	*1*
4-Bromofluorobenzene (Surr)	*118*		*79 - 120*	*01/15/19 21:09*	*01/16/19 04:40*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*01/15/19 21:09*	*01/16/19 04:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.8	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Benzene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Bromoform	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Chloroform	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1

Client Sample ID: DG-V9S-0.5-1
Date Collected: 01/10/19 08:10
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Styrene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Toluene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Vinyl acetate	ND		5.9	3.0	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/15/19 21:09	01/16/19 04:40	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		01/15/19 21:09	01/16/19 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*01/15/19 21:09*	*01/16/19 04:40*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*01/15/19 21:09*	*01/16/19 04:40*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Acenaphthylene	ND		4.9	2.3	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Anthracene	ND		4.9	2.0	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Benzo[a]pyrene	ND		4.9	1.9	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Benzo[b]fluoranthene	**2.2**	**J**	4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Chrysene	**1.8**	**J**	4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Fluoranthene	**2.7**	**J**	4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Fluorene	ND		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Phenanthrene	**2.7**	**J**	4.9	1.8	ug/Kg		01/15/19 17:13	01/22/19 17:46	1
Pyrene	**3.1**	**J**	4.9	1.7	ug/Kg		01/15/19 17:13	01/22/19 17:46	1

Client Sample ID: DG-V9S-0.5-1

Date Collected: 01/10/19 08:10
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*01/15/19 17:13*	*01/22/19 17:46*	*1*
Terphenyl-d14	*88*		*35 - 146*	*01/15/19 17:13*	*01/22/19 17:46*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.0**		1.9	0.72	mg/Kg		01/11/19 15:04	01/18/19 19:49	1
Motor Oil Range Organics [C24-C36]	**16**	**J**	48	9.7	mg/Kg		01/11/19 15:04	01/18/19 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*01/11/19 15:04*	*01/18/19 19:49*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Aldrin	ND		2.0	0.49	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Endrin	ND		2.0	0.45	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/15/19 17:04	01/19/19 12:37	1
Toxaphene	ND		39	6.7	ug/Kg		01/15/19 17:04	01/19/19 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*21 - 136*	*01/15/19 17:04*	*01/19/19 12:37*	*1*
Tetrachloro-m-xylene	*61*		*21 - 145*	*01/15/19 17:04*	*01/19/19 12:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:54	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:54	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:54	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:54	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:54	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:54	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:54	1

Client Sample ID: DG-V9S-0.5-1

Date Collected: 01/10/19 08:10
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*01/14/19 13:13*	*01/15/19 15:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.21	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Arsenic	ND		2.5	0.21	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Barium	**43**	**B**	1.3	0.18	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Beryllium	ND		0.25	0.082	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Cadmium	**0.091**	**J**	0.31	0.031	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Chromium	**7.2**	**B**	1.3	0.13	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Cobalt	**9.4**		0.50	0.050	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Copper	**91**		3.8	1.8	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Lead	**14**	**^**	1.3	0.26	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Molybdenum	**0.28**	**J**	1.3	0.16	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Nickel	**3.3**		1.3	0.13	mg/Kg		01/11/19 09:15	01/16/19 19:41	4
Selenium	**0.54**	**J**	2.5	0.38	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Silver	ND		0.63	0.13	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Thallium	**1.3**		1.3	0.36	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Vanadium	**70**		1.3	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:16	4
Zinc	**41**		3.8	1.6	mg/Kg		01/11/19 09:15	01/15/19 18:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.014	0.0021	mg/Kg		01/22/19 11:55	01/22/19 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-V9S-3.5-4
Date Collected: 01/10/19 08:12
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-4
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	54	ug/Kg		01/15/19 08:59	01/15/19 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/15/19 08:59*	*01/15/19 10:41*	*1*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*	*01/15/19 08:59*	*01/15/19 10:41*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*01/15/19 08:59*	*01/15/19 10:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Benzene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Bromoform	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Chloroform	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1

Client Sample ID: DG-V9S-3.5-4

Date Collected: 01/10/19 08:12
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Styrene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Toluene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/15/19 08:59	01/15/19 10:41	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/15/19 08:59	01/15/19 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/15/19 08:59*	*01/15/19 10:41*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*01/15/19 08:59*	*01/15/19 10:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**20**		9.6	4.8	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Acenaphthylene	**4.5**	**J F1 F2**	4.8	2.3	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Anthracene	**2.4**	**J F1**	4.8	1.9	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Benzo[a]anthracene	**2.1**	**J F1 F2**	4.8	1.4	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Benzo[a]pyrene	ND	F1	4.8	1.8	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Benzo[b]fluoranthene	**11**	**F1 F2**	4.8	2.0	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Benzo[g,h,i]perylene	ND	F1 F2	4.8	4.1	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Benzo[k]fluoranthene	**2.8**	**J F1 F2**	4.8	2.0	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Chrysene	**17**	**F1**	4.8	1.3	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Dibenz(a,h)anthracene	ND	F1 F2	4.8	3.4	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Fluoranthene	**29**	**F1**	4.8	1.3	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Fluorene	**3.0**	**J**	4.8	2.1	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Indeno[1,2,3-cd]pyrene	ND	F1 F2	4.8	4.0	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Naphthalene	**130**		4.8	3.4	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Phenanthrene	**59**	**F1**	4.8	1.7	ug/Kg		01/15/19 17:13	01/22/19 16:59	1
Pyrene	**16**	**F1 F2**	4.8	1.6	ug/Kg		01/15/19 17:13	01/22/19 16:59	1

Client Sample ID: DG-V9S-3.5-4

Date Collected: 01/10/19 08:12
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*01/15/19 17:13*	*01/22/19 16:59*	*1*
Terphenyl-d14	*67*		*35 - 146*	*01/15/19 17:13*	*01/22/19 16:59*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15		1.9	0.73	mg/Kg		01/11/19 15:04	01/18/19 18:51	1
Motor Oil Range Organics [C24-C36]	27	J	48	9.7	mg/Kg		01/11/19 15:04	01/18/19 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*81*		*40 - 130*	*01/11/19 15:04*	*01/18/19 18:51*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
4,4'-DDT	ND	F2	1.9	0.40	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
alpha-Chlordane	ND	F2	1.9	0.39	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Endosulfan II	ND		1.9	0.48	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Endosulfan sulfate	ND	F2	1.9	0.37	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Endrin	ND		1.9	0.45	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/15/19 17:04	01/19/19 12:21	1
Toxaphene	ND		39	6.6	ug/Kg		01/15/19 17:04	01/19/19 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*21 - 136*	*01/15/19 17:04*	*01/19/19 12:21*	*1*
Tetrachloro-m-xylene	*69*		*21 - 145*	*01/15/19 17:04*	*01/19/19 12:21*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:13	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:13	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:13	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:13	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:13	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:13	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 15:13	1

Client Sample ID: DG-V9S-3.5-4

Date Collected: 01/10/19 08:12
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/14/19 13:13*	*01/15/19 15:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.7	F1 F2	1.6	0.26	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Arsenic	5.5	F1	3.2	0.27	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Barium	420	B	1.6	0.23	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Beryllium	0.10	J F1	0.32	0.10	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Cadmium	1.7	F1	0.40	0.039	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Chromium	12	B F1 F2	1.6	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Cobalt	3.2	F1	0.63	0.063	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Copper	430	F2	4.8	2.3	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Lead	2400	^ F2	1.6	0.33	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Molybdenum	0.20	J	1.6	0.20	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Nickel	54		4.0	0.40	mg/Kg		01/11/19 09:15	01/16/19 19:27	10
Selenium	1.7	J F1	3.2	0.48	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Silver	1.8	F1	0.79	0.16	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Thallium	0.63	J	1.6	0.46	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Vanadium	8.6	F1	1.6	0.22	mg/Kg		01/11/19 09:15	01/15/19 18:01	4
Zinc	1600		4.8	2.0	mg/Kg		01/11/19 09:15	01/15/19 18:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.53		0.017	0.0025	mg/Kg		01/22/19 11:55	01/22/19 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33.3		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-V9S-7.5-8

Date Collected: 01/10/19 08:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	50	ug/Kg		01/15/19 08:59	01/15/19 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/15/19 08:59*	*01/15/19 13:46*	*1*
4-Bromofluorobenzene (Surr)	*116*		*79 - 120*	*01/15/19 08:59*	*01/15/19 13:46*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/15/19 08:59*	*01/15/19 13:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,1,1-Trichloroethane	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.6	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,1,2-Trichloroethane	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,1-Dichloroethane	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,1-Dichloropropene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,2,4-Trichlorobenzene	ND		3.6	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,2-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,2-Dichloroethane	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,2-Dichloropropane	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,3-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,3-Dichloropropane	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
1,4-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
2-Butanone (MEK)	ND		7.1	3.6	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
2-Hexanone	ND		7.1	3.6	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
4-Isopropyltoluene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Benzene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Bromoform	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Chlorobenzene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Chlorodibromomethane	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Chloroform	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
cis-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1

Client Sample ID: DG-V9S-7.5-8
Date Collected: 01/10/19 08:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Dibromomethane	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Dichlorobromomethane	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Ethylbenzene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Ethylene Dibromide	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Isopropylbenzene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Methylene Chloride	ND		7.1	3.6	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
N-Propylbenzene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Styrene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Tetrachloroethene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Toluene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
trans-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
trans-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Trichloroethene	ND		0.71	0.36	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Vinyl acetate	ND		5.7	2.9	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/15/19 08:59	01/15/19 13:46	1
Xylenes, Total	ND		1.4	0.93	ug/Kg		01/15/19 08:59	01/15/19 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/15/19 08:59*	*01/15/19 13:46*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/15/19 08:59*	*01/15/19 13:46*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.6	4.8	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Anthracene	ND		4.8	1.9	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Benzo[a]anthracene	ND		4.8	1.4	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Benzo[a]pyrene	ND		4.8	1.8	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Benzo[b]fluoranthene	ND		4.8	2.0	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Benzo[g,h,i]perylene	ND		4.8	4.1	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Benzo[k]fluoranthene	ND		4.8	2.0	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Chrysene	ND		4.8	1.3	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Fluoranthene	ND		4.8	1.3	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Fluorene	ND		4.8	2.1	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.0	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Naphthalene	ND		4.8	3.4	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Phenanthrene	ND		4.8	1.7	ug/Kg		01/15/19 17:13	01/22/19 18:09	1
Pyrene	ND		4.8	1.6	ug/Kg		01/15/19 17:13	01/22/19 18:09	1

Client Sample ID: DG-V9S-7.5-8

Date Collected: 01/10/19 08:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*01/15/19 17:13*	*01/22/19 18:09*	*1*
Terphenyl-d14	*83*		*35 - 146*	*01/15/19 17:13*	*01/22/19 18:09*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.8**		1.9	0.73	mg/Kg		01/11/19 15:04	01/18/19 20:18	1
Motor Oil Range Organics [C24-C36]	**18**	**J**	49	9.7	mg/Kg		01/11/19 15:04	01/18/19 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*105*		*40 - 130*	*01/11/19 15:04*	*01/18/19 20:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Aldrin	ND		2.0	0.49	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Endrin	ND		2.0	0.45	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/15/19 17:04	01/19/19 12:53	1
Toxaphene	ND		39	6.7	ug/Kg		01/15/19 17:04	01/19/19 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*21 - 136*	*01/15/19 17:04*	*01/19/19 12:53*	*1*
Tetrachloro-m-xylene	*70*		*21 - 145*	*01/15/19 17:04*	*01/19/19 12:53*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:07	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:07	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:07	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:07	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:07	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:07	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:07	1

Client Sample ID: DG-V9S-7.5-8

Date Collected: 01/10/19 08:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*01/14/19 13:13*	*01/15/19 16:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.79**	**J**	1.0	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Arsenic	**7.5**		2.0	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Barium	**120**	**B**	1.0	0.14	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Beryllium	**0.52**		0.20	0.066	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Cadmium	ND		0.26	0.025	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Chromium	**41**	**B**	1.0	0.11	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Cobalt	**13**		0.41	0.041	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Copper	**34**		3.1	1.5	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Lead	**14**	**^**	1.0	0.21	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Molybdenum	**0.14**	**J**	1.0	0.13	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Nickel	**29**		1.0	0.10	mg/Kg		01/11/19 09:15	01/16/19 19:55	4
Selenium	**1.3**	**J**	2.0	0.31	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Silver	ND		0.51	0.10	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Thallium	**0.34**	**J**	1.0	0.30	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Vanadium	**48**		1.0	0.14	mg/Kg		01/11/19 09:15	01/15/19 18:20	4
Zinc	**53**		3.1	1.3	mg/Kg		01/11/19 09:15	01/15/19 18:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.063**		0.014	0.0021	mg/Kg		01/22/19 11:55	01/22/19 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.6**		0.1	0.05	%			01/11/19 13:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-T9S-0.5-1
Date Collected: 01/10/19 09:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-6
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		92	64	ug/Kg		01/15/19 08:59	01/15/19 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/15/19 08:59*	*01/15/19 14:15*	*1*
4-Bromofluorobenzene (Surr)	*118*		*79 - 120*	*01/15/19 08:59*	*01/15/19 14:15*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/15/19 08:59*	*01/15/19 14:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,1,1-Trichloroethane	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.2	4.6	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,1,2-Trichloroethane	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,1-Dichloroethane	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,1-Dichloroethene	ND		1.8	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,1-Dichloropropene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,2,3-Trichlorobenzene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,2,3-Trichloropropane	ND		9.2	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,2,4-Trichlorobenzene	ND		4.6	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,2,4-Trimethylbenzene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,2-Dibromo-3-Chloropropane	ND		4.6	1.8	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,2-Dichlorobenzene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,2-Dichloroethane	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,2-Dichloropropane	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,3,5-Trimethylbenzene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,3-Dichlorobenzene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,3-Dichloropropane	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
1,4-Dichlorobenzene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
2,2-Dichloropropane	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
2-Butanone (MEK)	ND		9.2	4.6	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
2-Chlorotoluene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
2-Hexanone	ND		9.2	4.6	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
4-Chlorotoluene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
4-Isopropyltoluene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
4-Methyl-2-pentanone (MIBK)	ND		4.6	2.3	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Benzene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Bromobenzene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Bromoform	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Bromomethane	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Carbon disulfide	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Carbon tetrachloride	ND		1.8	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Chlorobenzene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Chlorobromomethane	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Chlorodibromomethane	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Chloroethane	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Chloroform	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Chloromethane	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
cis-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1

Client Sample ID: DG-T9S-0.5-1

Date Collected: 01/10/19 09:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Dibromomethane	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Dichlorobromomethane	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Dichlorodifluoromethane	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Ethylbenzene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Ethylene Dibromide	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Hexachlorobutadiene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Isopropylbenzene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Methyl tert-butyl ether	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Methylene Chloride	ND		9.2	4.6	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Naphthalene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
n-Butylbenzene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
N-Propylbenzene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
sec-Butylbenzene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Styrene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
tert-Butylbenzene	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Tetrachloroethene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Toluene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
trans-1,2-Dichloroethene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
trans-1,3-Dichloropropene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Trichloroethene	ND		0.92	0.46	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Trichlorofluoromethane	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Vinyl acetate	ND		7.3	3.7	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Vinyl chloride	ND		1.8	0.92	ug/Kg		01/15/19 08:59	01/15/19 14:15	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/15/19 08:59	01/15/19 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*01/15/19 08:59*	*01/15/19 14:15*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/15/19 08:59*	*01/15/19 14:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**7.5**	**J**	9.7	4.9	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Acenaphthylene	**3.0**	**J**	4.9	2.3	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Anthracene	**7.1**		4.9	1.9	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Benzo[a]anthracene	**7.5**		4.9	1.5	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Benzo[a]pyrene	**8.5**		4.9	1.9	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Benzo[b]fluoranthene	**15**		4.9	2.0	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Benzo[g,h,i]perylene	**6.6**		4.9	4.2	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Benzo[k]fluoranthene	**4.8**	**J**	4.9	2.0	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Chrysene	**12**		4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Fluoranthene	**15**		4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Fluorene	ND		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Indeno[1,2,3-cd]pyrene	**4.3**	**J**	4.9	4.1	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Naphthalene	**6.8**		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Phenanthrene	**12**		4.9	1.8	ug/Kg		01/15/19 17:13	01/22/19 20:06	1
Pyrene	**16**		4.9	1.7	ug/Kg		01/15/19 17:13	01/22/19 20:06	1

Client Sample ID: DG-T9S-0.5-1

Date Collected: 01/10/19 09:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*01/15/19 17:13*	*01/22/19 20:06*	*1*
Terphenyl-d14	*92*		*35 - 146*	*01/15/19 17:13*	*01/22/19 20:06*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**46**		2.0	0.75	mg/Kg		01/11/19 15:04	01/18/19 21:17	1
Motor Oil Range Organics [C24-C36]	**86**		50	10	mg/Kg		01/11/19 15:04	01/18/19 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*109*		*40 - 130*	*01/11/19 15:04*	*01/18/19 21:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**4.1**	**p**	1.9	0.59	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
4,4'-DDE	**1.3**	**J p**	1.9	0.40	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
4,4'-DDT	**7.9**		1.9	0.39	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Endrin	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/15/19 17:04	01/19/19 13:10	1
Toxaphene	ND		38	6.5	ug/Kg		01/15/19 17:04	01/19/19 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*21 - 136*	*01/15/19 17:04*	*01/19/19 13:10*	*1*
Tetrachloro-m-xylene	*65*		*21 - 145*	*01/15/19 17:04*	*01/19/19 13:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:21	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:21	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:21	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:21	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:21	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 16:21	1
Aroclor 1260	**17**	**J**	50	17	ug/Kg		01/14/19 13:13	01/15/19 16:21	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-T9S-0.5-1

Date Collected: 01/10/19 09:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*01/14/19 13:13*	*01/15/19 16:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.27	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Arsenic	**0.66**	**J**	3.3	0.28	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Barium	**27**	**B**	1.6	0.23	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Beryllium	ND		0.33	0.11	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Cadmium	**0.12**	**J**	0.41	0.040	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Chromium	**8.6**	**B**	1.6	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Cobalt	**12**		0.65	0.065	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Copper	**110**		4.9	2.3	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Lead	**20**	**^**	1.6	0.34	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Molybdenum	**0.22**	**J**	1.6	0.21	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Nickel	**4.4**		1.6	0.17	mg/Kg		01/11/19 09:15	01/16/19 20:00	4
Selenium	**0.78**	**J**	3.3	0.49	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Silver	ND		0.81	0.16	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Thallium	**1.4**	**J**	1.6	0.47	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Vanadium	**100**		1.6	0.22	mg/Kg		01/11/19 09:15	01/15/19 18:25	4
Zinc	**76**		4.9	2.1	mg/Kg		01/11/19 09:15	01/15/19 18:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.054**		0.015	0.0022	mg/Kg		01/22/19 11:55	01/22/19 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.8**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-T9S-3.5-4

Date Collected: 01/10/19 09:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		77	54	ug/Kg		01/15/19 08:59	01/15/19 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/15/19 08:59*	*01/15/19 14:43*	*1*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*	*01/15/19 08:59*	*01/15/19 14:43*	*1*
Toluene-d8 (Surr)	*124*	*X*	*79 - 123*	*01/15/19 08:59*	*01/15/19 14:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,1,1-Trichloroethane	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.9	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,1,2-Trichloroethane	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,1-Dichloroethane	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,1-Dichloroethene	ND		1.5	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,1-Dichloropropene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,2,3-Trichlorobenzene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,2,3-Trichloropropane	ND		7.7	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,2,4-Trichlorobenzene	ND		3.9	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,2,4-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.5	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,2-Dichlorobenzene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,2-Dichloroethane	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,2-Dichloropropane	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,3,5-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,3-Dichlorobenzene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,3-Dichloropropane	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
1,4-Dichlorobenzene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
2,2-Dichloropropane	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
2-Butanone (MEK)	ND		7.7	3.9	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
2-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
2-Hexanone	ND		7.7	3.9	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
4-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
4-Isopropyltoluene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Benzene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Bromobenzene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Bromoform	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Bromomethane	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Carbon tetrachloride	ND		1.5	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Chlorobenzene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Chlorodibromomethane	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Chloroethane	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Chloroform	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Chloromethane	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
cis-1,2-Dichloroethene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1

Client Sample ID: DG-T9S-3.5-4
Date Collected: 01/10/19 09:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Dibromomethane	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Dichlorobromomethane	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Ethylbenzene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Ethylene Dibromide	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Hexachlorobutadiene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Isopropylbenzene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Methylene Chloride	ND		7.7	3.9	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Naphthalene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
n-Butylbenzene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
N-Propylbenzene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
sec-Butylbenzene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Styrene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
tert-Butylbenzene	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Tetrachloroethene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Toluene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
trans-1,2-Dichloroethene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
trans-1,3-Dichloropropene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Trichloroethene	ND		0.77	0.39	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		01/15/19 08:59	01/15/19 14:43	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		01/15/19 08:59	01/15/19 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*01/15/19 08:59*	*01/15/19 14:43*	*1*
Toluene-d8 (Surr)	*124*	*X*	*79 - 123*	*01/15/19 08:59*	*01/15/19 14:43*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Acenaphthylene	ND		4.9	2.3	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Anthracene	ND		4.9	2.0	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Benzo[a]pyrene	ND		4.9	1.9	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Benzo[b]fluoranthene	ND		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Chrysene	ND		4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Fluoranthene	ND		4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Fluorene	ND		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Phenanthrene	ND		4.9	1.8	ug/Kg		01/15/19 17:13	01/22/19 18:33	1
Pyrene	ND		4.9	1.7	ug/Kg		01/15/19 17:13	01/22/19 18:33	1

Client Sample ID: DG-T9S-3.5-4

Date Collected: 01/10/19 09:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*01/15/19 17:13*	*01/22/19 18:33*	*1*
Terphenyl-d14	*86*		*35 - 146*	*01/15/19 17:13*	*01/22/19 18:33*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.9**	**J**	2.0	0.75	mg/Kg		01/11/19 15:04	01/23/19 00:13	1
Motor Oil Range Organics [C24-C36]	ND		50	9.9	mg/Kg		01/11/19 15:04	01/23/19 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*102*		*40 - 130*	*01/11/19 15:04*	*01/23/19 00:13*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Endrin	ND		1.9	0.45	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/15/19 17:04	01/19/19 09:27	1
Toxaphene	ND		39	6.6	ug/Kg		01/15/19 17:04	01/19/19 09:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*21 - 136*	*01/15/19 17:04*	*01/19/19 09:27*	*1*
Tetrachloro-m-xylene	*84*		*21 - 145*	*01/15/19 17:04*	*01/19/19 09:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:35	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:35	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:35	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:35	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:35	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:35	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:35	1

Client Sample ID: DG-T9S-3.5-4

Date Collected: 01/10/19 09:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*01/14/19 13:13*	*01/15/19 16:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.28	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Arsenic	ND		3.4	0.29	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Barium	**20**	**B**	1.7	0.24	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Beryllium	ND		0.34	0.11	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Cadmium	ND		0.42	0.042	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Chromium	**7.8**	**B**	1.7	0.18	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Cobalt	**7.1**		0.68	0.068	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Copper	**81**		5.1	2.4	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Lead	**2.2**		1.7	0.36	mg/Kg		01/11/19 09:15	01/16/19 20:04	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Nickel	**2.3**		1.7	0.17	mg/Kg		01/11/19 09:15	01/16/19 20:04	4
Selenium	ND		3.4	0.51	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Silver	ND		0.85	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Thallium	**1.0**	**J**	1.7	0.49	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Vanadium	**74**		1.7	0.23	mg/Kg		01/11/19 09:15	01/15/19 18:30	4
Zinc	**20**		5.1	2.2	mg/Kg		01/11/19 09:15	01/15/19 18:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**		0.015	0.0022	mg/Kg		01/22/19 11:55	01/22/19 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.1**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-P9S-0.5-1

Date Collected: 01/10/19 09:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		63	44	ug/Kg		01/15/19 08:59	01/15/19 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/15/19 08:59*	*01/15/19 15:11*	*1*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*	*01/15/19 08:59*	*01/15/19 15:11*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/15/19 08:59*	*01/15/19 15:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,1,1-Trichloroethane	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3	3.2	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,1,2-Trichloroethane	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,1-Dichloroethane	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,1-Dichloropropene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,2,3-Trichlorobenzene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,2,3-Trichloropropane	ND		6.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,2,4-Trichlorobenzene	ND		3.2	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,2,4-Trimethylbenzene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,2-Dichlorobenzene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,2-Dichloroethane	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,2-Dichloropropane	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,3,5-Trimethylbenzene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,3-Dichlorobenzene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,3-Dichloropropane	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
1,4-Dichlorobenzene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
2,2-Dichloropropane	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
2-Butanone (MEK)	ND		6.3	3.2	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
2-Chlorotoluene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
2-Hexanone	ND		6.3	3.2	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
4-Chlorotoluene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
4-Isopropyltoluene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Benzene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Bromobenzene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Bromoform	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Bromomethane	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Carbon disulfide	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Chlorobenzene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Chlorobromomethane	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Chlorodibromomethane	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Chloroethane	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Chloroform	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Chloromethane	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
cis-1,2-Dichloroethene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-P9S-0.5-1
Date Collected: 01/10/19 09:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Dibromomethane	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Dichlorobromomethane	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Dichlorodifluoromethane	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Ethylbenzene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Ethylene Dibromide	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Hexachlorobutadiene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Isopropylbenzene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Methyl tert-butyl ether	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Methylene Chloride	ND		6.3	3.2	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Naphthalene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
n-Butylbenzene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
N-Propylbenzene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
sec-Butylbenzene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Styrene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
tert-Butylbenzene	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Tetrachloroethene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Toluene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
trans-1,2-Dichloroethene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
trans-1,3-Dichloropropene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Trichloroethene	ND		0.63	0.32	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Trichlorofluoromethane	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Vinyl acetate	ND		5.1	2.5	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Vinyl chloride	ND		1.3	0.63	ug/Kg		01/15/19 08:59	01/15/19 15:11	1
Xylenes, Total	ND		1.3	0.82	ug/Kg		01/15/19 08:59	01/15/19 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/15/19 08:59*	*01/15/19 15:11*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*	*01/15/19 08:59*	*01/15/19 15:11*	*1*

Client Sample ID: DG-P9S-3.5-4

Date Collected: 01/10/19 09:17
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		01/15/19 08:59	01/15/19 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/15/19 08:59*	*01/15/19 15:40*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*79 - 120*	*01/15/19 08:59*	*01/15/19 15:40*	*1*
Toluene-d8 (Surr)	*125*	*X*	*79 - 123*	*01/15/19 08:59*	*01/15/19 15:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,1,1-Trichloroethane	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.4	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,1,2-Trichloroethane	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,1-Dichloroethane	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,1-Dichloropropene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,2,4-Trichlorobenzene	ND		3.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,2-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,2-Dichloroethane	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,2-Dichloropropane	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,3-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,3-Dichloropropane	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
1,4-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
2-Butanone (MEK)	ND		6.9	3.4	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
2-Hexanone	ND		6.9	3.4	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
4-Isopropyltoluene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Benzene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Bromoform	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Chlorobenzene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Chlorodibromomethane	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Chloroform	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
cis-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1

Client Sample ID: DG-P9S-3.5-4
Date Collected: 01/10/19 09:17
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Dibromomethane	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Dichlorobromomethane	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Ethylbenzene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Ethylene Dibromide	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Isopropylbenzene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Methylene Chloride	ND		6.9	3.4	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
N-Propylbenzene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Styrene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Tetrachloroethene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Toluene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
trans-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
trans-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Trichloroethene	ND		0.69	0.34	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Vinyl acetate	ND		5.5	2.7	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/15/19 08:59	01/15/19 15:40	1
Xylenes, Total	ND		1.4	0.89	ug/Kg		01/15/19 08:59	01/15/19 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*01/15/19 08:59*	*01/15/19 15:40*	*1*
Toluene-d8 (Surr)	*125*	*X*	*79 - 123*	*01/15/19 08:59*	*01/15/19 15:40*	*1*

Client Sample ID: DG-N9S-0.5-1

Date Collected: 01/10/19 09:30
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	53	ug/Kg		01/15/19 21:09	01/16/19 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*60 - 120*	*01/15/19 21:09*	*01/16/19 05:09*	*1*
4-Bromofluorobenzene (Surr)	*137*	*X **	*79 - 120*	*01/15/19 21:09*	*01/16/19 05:09*	*1*
Toluene-d8 (Surr)	*133*	*X*	*79 - 123*	*01/15/19 21:09*	*01/16/19 05:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,1,2,2-Tetrachloroethane	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,2,3-Trichlorobenzene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,2,3-Trichloropropane	ND	*	7.6	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,2,4-Trichlorobenzene	ND	*	3.8	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,2,4-Trimethylbenzene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,2-Dibromo-3-Chloropropane	ND	*	3.8	1.5	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,2-Dichlorobenzene	ND	*	0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,3,5-Trimethylbenzene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,3-Dichlorobenzene	ND	*	0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
1,4-Dichlorobenzene	ND	*	0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
2,2-Dichloropropane	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
2-Butanone (MEK)	ND		7.6	3.8	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
2-Chlorotoluene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
2-Hexanone	ND		7.6	3.8	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
4-Chlorotoluene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
4-Isopropyltoluene	ND	*	0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Benzene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Bromobenzene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Bromoform	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Bromomethane	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Chloroethane	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Chloroform	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Chloromethane	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1

Client Sample ID: DG-N9S-0.5-1

Date Collected: 01/10/19 09:30
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Dibromomethane	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Hexachlorobutadiene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Naphthalene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
n-Butylbenzene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
N-Propylbenzene	ND	*	0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
sec-Butylbenzene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Styrene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
tert-Butylbenzene	ND	*	1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Toluene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Trichloroethene	ND		0.76	0.38	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		01/15/19 21:09	01/16/19 05:09	1
Xylenes, Total	ND		1.5	0.99	ug/Kg		01/15/19 21:09	01/16/19 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*	*01/15/19 21:09*	*01/16/19 05:09*	*1*
Toluene-d8 (Surr)	*133*	*X*	*79 - 123*	*01/15/19 21:09*	*01/16/19 05:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**330**		95	47	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Acenaphthene	**97**		47	27	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Acenaphthylene	**2100**		47	23	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Anthracene	**710**		47	19	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Benzo[a]anthracene	**2800**		47	14	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Benzo[a]pyrene	**5400**		47	18	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Benzo[b]fluoranthene	**6200**		47	20	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Benzo[g,h,i]perylene	**2200**		47	41	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Benzo[k]fluoranthene	**2400**		47	20	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Chrysene	**4500**		47	13	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Dibenz(a,h)anthracene	**490**		47	33	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Fluoranthene	**5700**		47	13	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Fluorene	**310**		47	21	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Indeno[1,2,3-cd]pyrene	**1800**		47	40	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Naphthalene	**1100**		47	33	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Phenanthrene	**6000**		47	17	ug/Kg		01/15/19 17:13	01/22/19 21:40	10
Pyrene	**11000**		47	16	ug/Kg		01/15/19 17:13	01/22/19 21:40	10

Client Sample ID: DG-N9S-0.5-1

Date Collected: 01/10/19 09:30
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*33 - 120*	*01/15/19 17:13*	*01/22/19 21:40*	*10*
Terphenyl-d14	*67*		*35 - 146*	*01/15/19 17:13*	*01/22/19 21:40*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**380**		20	7.3	mg/Kg		01/11/19 15:04	01/19/19 18:10	10
Motor Oil Range Organics [C24-C36]	**960**		490	98	mg/Kg		01/11/19 15:04	01/19/19 18:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/11/19 15:04*	*01/19/19 18:10*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	1.2	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
4,4'-DDE	ND		3.8	0.80	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
4,4'-DDT	ND		3.8	0.78	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Aldrin	ND		3.8	0.95	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
alpha-BHC	ND		3.8	1.0	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
alpha-Chlordane	ND		3.8	0.76	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
beta-BHC	ND		3.8	0.68	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Chlordane (technical)	ND		76	6.1	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
delta-BHC	ND		3.8	0.84	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Dieldrin	ND		3.8	1.1	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Endosulfan I	ND		3.8	0.61	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Endosulfan II	ND		3.8	0.93	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Endosulfan sulfate	ND		3.8	0.72	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Endrin	ND		3.8	0.87	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Endrin aldehyde	ND		3.8	1.2	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Endrin ketone	ND		3.8	0.63	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
gamma-BHC (Lindane)	ND		3.8	1.2	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
gamma-Chlordane	ND		3.8	0.87	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Heptachlor	ND		3.8	0.87	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Heptachlor epoxide	ND		3.8	0.66	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Methoxychlor	ND		3.8	1.3	ug/Kg		01/15/19 17:04	01/19/19 09:44	2
Toxaphene	ND		76	13	ug/Kg		01/15/19 17:04	01/19/19 09:44	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*	*p*	*21 - 136*	*01/15/19 17:04*	*01/19/19 09:44*	*2*
Tetrachloro-m-xylene	*87*		*21 - 145*	*01/15/19 17:04*	*01/19/19 09:44*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:48	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:48	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:48	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:48	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:48	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:48	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 16:48	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-N9S-0.5-1

Date Collected: 01/10/19 09:30
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*45 - 120*	*01/14/19 13:13*	*01/15/19 16:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5		1.2	0.20	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Arsenic	32		2.5	0.21	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Barium	49	B	1.2	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Beryllium	ND		0.25	0.080	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Cadmium	0.24	J	0.31	0.030	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Chromium	36	B	1.2	0.13	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Cobalt	12		0.49	0.049	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Copper	110		3.7	1.7	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Lead	170	^	1.2	0.26	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Molybdenum	0.38	J	1.2	0.16	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Nickel	32		1.2	0.13	mg/Kg		01/11/19 09:15	01/16/19 20:09	4
Selenium	1.2	J	2.5	0.37	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Silver	ND		0.61	0.12	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Thallium	1.4		1.2	0.36	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Vanadium	75		1.2	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:35	4
Zinc	110		3.7	1.6	mg/Kg		01/11/19 09:15	01/15/19 18:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.016	0.0023	mg/Kg		01/22/19 11:55	01/22/19 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			01/11/19 13:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-N9S-3.5-4
Date Collected: 01/10/19 09:32
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-11
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	50	ug/Kg		01/15/19 21:09	01/16/19 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/15/19 21:09*	*01/16/19 05:37*	*1*
4-Bromofluorobenzene (Surr)	*138*	*X **	*79 - 120*	*01/15/19 21:09*	*01/16/19 05:37*	*1*
Toluene-d8 (Surr)	*135*	*X*	*79 - 123*	*01/15/19 21:09*	*01/16/19 05:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,1,1-Trichloroethane	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,1,2,2-Tetrachloroethane	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.5	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,1,2-Trichloroethane	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,1-Dichloroethane	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,1-Dichloropropene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,2,3-Trichlorobenzene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,2,3-Trichloropropane	ND	*	7.1	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,2,4-Trichlorobenzene	ND	*	3.5	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,2,4-Trimethylbenzene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,2-Dibromo-3-Chloropropane	ND	*	3.5	1.4	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,2-Dichlorobenzene	ND	*	0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,2-Dichloroethane	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,2-Dichloropropane	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,3,5-Trimethylbenzene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,3-Dichlorobenzene	ND	*	0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,3-Dichloropropane	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
1,4-Dichlorobenzene	ND	*	0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
2-Butanone (MEK)	ND		7.1	3.5	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
2-Chlorotoluene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
2-Hexanone	ND		7.1	3.5	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
4-Chlorotoluene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
4-Isopropyltoluene	ND	*	0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Benzene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Bromobenzene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Bromoform	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Chlorobenzene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Chlorodibromomethane	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Chloroform	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
cis-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1

Client Sample ID: DG-N9S-3.5-4

Date Collected: 01/10/19 09:32
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Dibromomethane	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Dichlorobromomethane	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Ethylbenzene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Ethylene Dibromide	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Hexachlorobutadiene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Isopropylbenzene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Methylene Chloride	ND		7.1	3.5	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Naphthalene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
n-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
N-Propylbenzene	ND	*	0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
sec-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Styrene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
tert-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Tetrachloroethene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Toluene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
trans-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
trans-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Trichloroethene	ND		0.71	0.35	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Vinyl acetate	ND		5.7	2.8	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/15/19 21:09	01/16/19 05:37	1
Xylenes, Total	ND		1.4	0.92	ug/Kg		01/15/19 21:09	01/16/19 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*01/15/19 21:09*	*01/16/19 05:37*	*1*
Toluene-d8 (Surr)	*135*	*X*	*79 - 123*	*01/15/19 21:09*	*01/16/19 05:37*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**16**		10	5.0	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Acenaphthylene	**32**		5.0	2.4	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Anthracene	**10**		5.0	2.0	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Benzo[a]anthracene	**36**		5.0	1.5	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Benzo[a]pyrene	**63**		5.0	1.9	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Benzo[b]fluoranthene	**94**		5.0	2.1	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Benzo[g,h,i]perylene	**47**		5.0	4.3	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Benzo[k]fluoranthene	**26**		5.0	2.1	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Chrysene	**65**		5.0	1.4	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Dibenz(a,h)anthracene	**11**		5.0	3.5	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Fluoranthene	**72**		5.0	1.4	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Fluorene	**4.4**	**J**	5.0	2.2	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Indeno[1,2,3-cd]pyrene	**36**		5.0	4.2	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Naphthalene	**36**		5.0	3.5	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Phenanthrene	**86**		5.0	1.8	ug/Kg		01/15/19 17:13	01/22/19 18:56	1
Pyrene	**110**		5.0	1.7	ug/Kg		01/15/19 17:13	01/22/19 18:56	1

Client Sample ID: DG-N9S-3.5-4

Date Collected: 01/10/19 09:32
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*01/15/19 17:13*	*01/22/19 18:56*	*1*
Terphenyl-d14	*82*		*35 - 146*	*01/15/19 17:13*	*01/22/19 18:56*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15		1.9	0.71	mg/Kg		01/11/19 15:04	01/18/19 21:46	1
Motor Oil Range Organics [C24-C36]	37	J	47	9.5	mg/Kg		01/11/19 15:04	01/18/19 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*105*		*40 - 130*	*01/11/19 15:04*	*01/18/19 21:46*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Endrin	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/15/19 17:04	01/19/19 10:01	1
Toxaphene	ND		38	6.5	ug/Kg		01/15/19 17:04	01/19/19 10:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*	*p*	*21 - 136*	*01/15/19 17:04*	*01/19/19 10:01*	*1*
Tetrachloro-m-xylene	*86*		*21 - 145*	*01/15/19 17:04*	*01/19/19 10:01*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:02	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:02	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:02	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:02	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:02	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:02	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:02	1

Client Sample ID: DG-N9S-3.5-4

Date Collected: 01/10/19 09:32
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*01/14/19 13:13*	*01/15/19 17:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.9**		1.4	0.24	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Arsenic	**140**		2.9	0.25	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Barium	**63**	**B**	1.4	0.21	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Beryllium	**0.67**		0.29	0.094	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Cadmium	ND		0.36	0.036	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Chromium	**48**	**B**	1.4	0.15	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Cobalt	**16**		0.58	0.058	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Copper	**54**		4.3	2.1	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Lead	**26**		1.4	0.30	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Molybdenum	**0.20**	**J**	1.4	0.19	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Nickel	**38**		1.4	0.15	mg/Kg		01/11/19 09:15	01/16/19 20:14	4
Selenium	**2.0**	**J**	2.9	0.43	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Silver	ND		0.72	0.15	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Thallium	**0.61**	**J**	1.4	0.42	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Vanadium	**50**		1.4	0.20	mg/Kg		01/11/19 09:15	01/15/19 18:49	4
Zinc	**110**		4.3	1.8	mg/Kg		01/11/19 09:15	01/15/19 18:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.015	0.0022	mg/Kg		01/22/19 11:55	01/22/19 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-O11S-0.5-1
Date Collected: 01/10/19 10:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		110	75	ug/Kg		01/15/19 20:51	01/16/19 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/15/19 20:51*	*01/16/19 00:04*	*1*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*	*01/15/19 20:51*	*01/16/19 00:04*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*	*01/15/19 20:51*	*01/16/19 00:04*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,1,1-Trichloroethane	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,1,2,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.4	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,1,2-Trichloroethane	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,1-Dichloroethane	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,1-Dichloroethene	ND		2.2	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,1-Dichloropropene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,2,3-Trichlorobenzene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,2,4-Trichlorobenzene	ND		5.4	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,2,4-Trimethylbenzene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,2-Dibromo-3-Chloropropane	ND		5.4	2.2	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,2-Dichlorobenzene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,2-Dichloroethane	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,2-Dichloropropane	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,3,5-Trimethylbenzene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,3-Dichlorobenzene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,3-Dichloropropane	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
1,4-Dichlorobenzene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
2,2-Dichloropropane	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
2-Butanone (MEK)	ND		11	5.4	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
2-Chlorotoluene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
2-Hexanone	ND		11	5.4	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
4-Chlorotoluene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
4-Isopropyltoluene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.4	2.7	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Benzene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Bromobenzene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Bromoform	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Bromomethane	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Carbon disulfide	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Carbon tetrachloride	ND		2.2	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Chlorobenzene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Chlorobromomethane	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Chlorodibromomethane	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Chloroethane	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Chloroform	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Chloromethane	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
cis-1,2-Dichloroethene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-O11S-0.5-1
Date Collected: 01/10/19 10:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Dibromomethane	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Dichlorobromomethane	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Dichlorodifluoromethane	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Ethylbenzene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Ethylene Dibromide	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Hexachlorobutadiene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Isopropylbenzene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Methyl tert-butyl ether	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Methylene Chloride	ND		11	5.4	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Naphthalene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
n-Butylbenzene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
N-Propylbenzene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
sec-Butylbenzene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Styrene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
tert-Butylbenzene	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Tetrachloroethene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Toluene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
trans-1,2-Dichloroethene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
trans-1,3-Dichloropropene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Trichloroethene	ND		1.1	0.54	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Trichlorofluoromethane	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Vinyl acetate	ND		8.6	4.3	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Vinyl chloride	ND		2.2	1.1	ug/Kg		01/15/19 20:51	01/16/19 00:04	1
Xylenes, Total	ND		2.2	1.4	ug/Kg		01/15/19 20:51	01/16/19 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*138*	*X*	*70 - 130*	*01/15/19 20:51*	*01/16/19 00:04*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*	*01/15/19 20:51*	*01/16/19 00:04*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.1**	**J**	9.9	4.9	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Acenaphthylene	**7.1**		4.9	2.4	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Anthracene	**7.2**		4.9	2.0	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Benzo[a]anthracene	**40**		4.9	1.5	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Benzo[a]pyrene	**39**		4.9	1.9	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Benzo[b]fluoranthene	**85**		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Benzo[g,h,i]perylene	**22**		4.9	4.2	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Benzo[k]fluoranthene	**26**		4.9	2.1	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Chrysene	**77**		4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Dibenz(a,h)anthracene	**7.0**		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Fluoranthene	**37**		4.9	1.4	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Fluorene	ND		4.9	2.2	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Indeno[1,2,3-cd]pyrene	**18**		4.9	4.1	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Naphthalene	**31**		4.9	3.4	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Phenanthrene	**58**		4.9	1.8	ug/Kg		01/15/19 17:13	01/22/19 20:30	1
Pyrene	**57**		4.9	1.7	ug/Kg		01/15/19 17:13	01/22/19 20:30	1

Client Sample ID: DG-O11S-0.5-1

Date Collected: 01/10/19 10:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*01/15/19 17:13*	*01/22/19 20:30*	*1*
Terphenyl-d14	*80*		*35 - 146*	*01/15/19 17:13*	*01/22/19 20:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**31**		2.0	0.73	mg/Kg		01/11/19 15:04	01/18/19 19:20	1
Motor Oil Range Organics [C24-C36]	**88**		49	9.8	mg/Kg		01/11/19 15:04	01/18/19 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*01/11/19 15:04*	*01/18/19 19:20*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Aldrin	ND		2.0	0.50	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Endrin	ND		2.0	0.46	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/15/19 17:04	01/19/19 10:17	1
Toxaphene	ND		40	6.8	ug/Kg		01/15/19 17:04	01/19/19 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*21 - 136*	*01/15/19 17:04*	*01/19/19 10:17*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/15/19 17:04*	*01/19/19 10:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:15	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:15	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:15	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:15	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:15	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:15	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 17:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-O11S-0.5-1

Date Collected: 01/10/19 10:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*01/14/19 13:13*	*01/15/19 17:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**		1.3	0.21	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Arsenic	**9.4**		2.5	0.21	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Barium	**39**	**B**	1.3	0.18	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Beryllium	**0.34**		0.25	0.082	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Cadmium	ND		0.31	0.031	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Chromium	**32**	**B**	1.3	0.13	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Cobalt	**14**		0.50	0.050	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Copper	**53**		3.8	1.8	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Lead	**68**		1.3	0.26	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Molybdenum	**0.21**	**J**	1.3	0.16	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Nickel	**46**		1.3	0.13	mg/Kg		01/11/19 09:15	01/16/19 20:18	4
Selenium	**1.0**	**J**	2.5	0.38	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Silver	ND		0.63	0.13	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Thallium	**1.4**		1.3	0.36	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Vanadium	**84**		1.3	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:54	4
Zinc	**71**		3.8	1.6	mg/Kg		01/11/19 09:15	01/15/19 18:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.049**		0.015	0.0022	mg/Kg		01/22/19 11:55	01/22/19 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.1**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-O11S-3.5-4

Date Collected: 01/10/19 10:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		01/15/19 20:51	01/16/19 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/15/19 20:51*	*01/16/19 00:28*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/15/19 20:51*	*01/16/19 00:28*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/15/19 20:51*	*01/16/19 00:28*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Benzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Bromoform	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Chloroform	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1

Client Sample ID: DG-O11S-3.5-4

Date Collected: 01/10/19 10:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-13

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Styrene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Toluene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 00:28	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/15/19 20:51	01/16/19 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*	*01/15/19 20:51*	*01/16/19 00:28*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/15/19 20:51*	*01/16/19 00:28*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**66**		48	24	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Acenaphthene	ND		24	14	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Acenaphthylene	**34**		24	12	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Anthracene	**38**		24	9.6	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Benzo[a]anthracene	**150**		24	7.2	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Benzo[a]pyrene	**140**		24	9.2	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Benzo[b]fluoranthene	**230**		24	10	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Benzo[g,h,i]perylene	**69**		24	21	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Benzo[k]fluoranthene	**88**		24	10	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Chrysene	**230**		24	6.8	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Dibenz(a,h)anthracene	**18**	**J**	24	17	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Fluoranthene	**180**		24	6.8	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Fluorene	ND		24	11	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Indeno[1,2,3-cd]pyrene	**53**		24	20	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Naphthalene	**78**		24	17	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Phenanthrene	**100**		24	8.7	ug/Kg		01/15/19 17:13	01/22/19 22:03	5
Pyrene	**320**		24	8.2	ug/Kg		01/15/19 17:13	01/22/19 22:03	5

Client Sample ID: DG-O11S-3.5-4

Date Collected: 01/10/19 10:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*01/15/19 17:13*	*01/22/19 22:03*	*5*
Terphenyl-d14	*85*		*35 - 146*	*01/15/19 17:13*	*01/22/19 22:03*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**99**		3.9	1.5	mg/Kg		01/15/19 13:31	01/17/19 23:23	2
Motor Oil Range Organics [C24-C36]	**330**		99	20	mg/Kg		01/15/19 13:31	01/17/19 23:23	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*78*		*40 - 130*	*01/15/19 13:31*	*01/17/19 23:23*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
4,4'-DDE	**0.58**	**J**	2.0	0.41	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Aldrin	ND		2.0	0.49	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Endrin	ND		2.0	0.45	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/15/19 17:04	01/19/19 10:34	1
Toxaphene	ND		39	6.7	ug/Kg		01/15/19 17:04	01/19/19 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*21 - 136*	*01/15/19 17:04*	*01/19/19 10:34*	*1*
Tetrachloro-m-xylene	*75*		*21 - 145*	*01/15/19 17:04*	*01/19/19 10:34*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:29	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:29	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:29	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:29	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:29	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:29	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:29	1

Client Sample ID: DG-O11S-3.5-4

Date Collected: 01/10/19 10:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*01/14/19 13:13*	*01/15/19 17:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12		1.7	0.27	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Arsenic	59		3.3	0.28	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Barium	140	B	1.7	0.23	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Beryllium	ND		0.33	0.11	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Cadmium	4.3		0.41	0.041	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Chromium	71	B	1.7	0.18	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Cobalt	11		0.66	0.066	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Copper	680		5.0	2.4	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Lead	2000		1.7	0.35	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Molybdenum	1.1	J	1.7	0.21	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Nickel	61		1.7	0.17	mg/Kg		01/11/19 09:15	01/16/19 20:23	4
Selenium	4.0		3.3	0.50	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Silver	0.17	J	0.83	0.17	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Thallium	1.3	J	1.7	0.48	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Vanadium	68		1.7	0.22	mg/Kg		01/11/19 09:15	01/15/19 18:59	4
Zinc	570		5.0	2.1	mg/Kg		01/11/19 09:15	01/15/19 18:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.39		0.017	0.0025	mg/Kg		01/22/19 11:55	01/22/19 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-Q11S-0.5-1

Date Collected: 01/10/19 10:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-14

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/15/19 20:51	01/16/19 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/15/19 20:51*	*01/16/19 00:52*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/15/19 20:51*	*01/16/19 00:52*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/15/19 20:51*	*01/16/19 00:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,1,1-Trichloroethane	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	3.9	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,1,2-Trichloroethane	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,1-Dichloroethane	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,1-Dichloropropene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,2,4-Trichlorobenzene	ND		3.9	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,2-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,2-Dichloroethane	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,2-Dichloropropane	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,3-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,3-Dichloropropane	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
1,4-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
2-Butanone (MEK)	ND		7.9	3.9	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
2-Hexanone	ND		7.9	3.9	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
4-Isopropyltoluene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Benzene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Bromoform	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Chlorobenzene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Chlorodibromomethane	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Chloroform	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
cis-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1

Client Sample ID: DG-Q11S-0.5-1

Date Collected: 01/10/19 10:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-14

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Dibromomethane	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Dichlorobromomethane	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Ethylbenzene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Ethylene Dibromide	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Isopropylbenzene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Methylene Chloride	ND		7.9	3.9	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
N-Propylbenzene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Styrene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Tetrachloroethene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Toluene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
trans-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
trans-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Trichloroethene	ND		0.79	0.39	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/15/19 20:51	01/16/19 00:52	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/15/19 20:51	01/16/19 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*136*	*X*	*70 - 130*	*01/15/19 20:51*	*01/16/19 00:52*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/15/19 20:51*	*01/16/19 00:52*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**220**		200	98	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Acenaphthene	ND		98	55	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Acenaphthylene	ND		98	47	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Anthracene	**74**	**J**	98	39	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Benzo[a]anthracene	**150**		98	29	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Benzo[a]pyrene	**150**		98	37	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Benzo[b]fluoranthene	**220**		98	41	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Benzo[g,h,i]perylene	**120**		98	85	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Benzo[k]fluoranthene	**75**	**J**	98	41	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Chrysene	**280**		98	28	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Dibenz(a,h)anthracene	ND		98	69	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Fluoranthene	**170**		98	28	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Fluorene	ND		98	43	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Indeno[1,2,3-cd]pyrene	ND		98	83	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Naphthalene	**150**		98	69	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Phenanthrene	**380**		98	35	ug/Kg		01/15/19 17:13	01/22/19 22:27	20
Pyrene	**300**		98	33	ug/Kg		01/15/19 17:13	01/22/19 22:27	20

Client Sample ID: DG-Q11S-0.5-1

Date Collected: 01/10/19 10:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*01/15/19 17:13*	*01/22/19 22:27*	*20*
Terphenyl-d14	*79*		*35 - 146*	*01/15/19 17:13*	*01/22/19 22:27*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	950		20	7.4	mg/Kg		01/15/19 13:31	01/18/19 00:12	10
Motor Oil Range Organics [C24-C36]	2800		490	98	mg/Kg		01/15/19 13:31	01/18/19 00:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/15/19 13:31*	*01/18/19 00:12*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	1.2	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
4,4'-DDE	ND		3.9	0.81	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
4,4'-DDT	ND		3.9	0.79	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Aldrin	ND		3.9	0.97	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
alpha-BHC	ND		3.9	1.1	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
alpha-Chlordane	ND		3.9	0.77	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
beta-BHC	ND		3.9	0.70	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Chlordane (technical)	ND		77	6.2	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
delta-BHC	ND		3.9	0.85	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Dieldrin	ND		3.9	1.1	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Endosulfan I	ND		3.9	0.62	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Endosulfan II	ND		3.9	0.95	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Endosulfan sulfate	ND		3.9	0.73	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Endrin	ND		3.9	0.89	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Endrin ketone	ND		3.9	0.64	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
gamma-Chlordane	ND		3.9	0.89	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Heptachlor	ND		3.9	0.89	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Heptachlor epoxide	ND		3.9	0.68	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Methoxychlor	ND		3.9	1.3	ug/Kg		01/15/19 17:04	01/21/19 14:34	2
Toxaphene	ND		77	13	ug/Kg		01/15/19 17:04	01/21/19 14:34	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*21 - 136*	*01/15/19 17:04*	*01/21/19 14:34*	*2*
Tetrachloro-m-xylene	*67*		*21 - 145*	*01/15/19 17:04*	*01/21/19 14:34*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:42	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:42	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:42	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:42	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:42	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:42	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:42	1

Client Sample ID: DG-Q11S-0.5-1

Date Collected: 01/10/19 10:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*01/14/19 13:13*	*01/15/19 17:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.1**		1.3	0.21	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Arsenic	**9.1**		2.5	0.21	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Barium	**75**	**B**	1.3	0.18	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Beryllium	ND		0.25	0.081	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Cadmium	**0.18**	**J**	0.31	0.031	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Chromium	**21**	**B**	1.3	0.13	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Cobalt	**13**		0.50	0.050	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Copper	**170**		3.8	1.8	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Lead	**420**		1.3	0.26	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Molybdenum	**0.51**	**J**	1.3	0.16	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Nickel	**17**		1.3	0.13	mg/Kg		01/11/19 09:15	01/16/19 20:28	4
Selenium	**1.5**	**J**	2.5	0.38	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Silver	ND		0.63	0.13	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Thallium	**1.3**		1.3	0.36	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Vanadium	**84**		1.3	0.17	mg/Kg		01/11/19 09:15	01/15/19 19:03	4
Zinc	**140**		3.8	1.6	mg/Kg		01/11/19 09:15	01/15/19 19:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.015	0.0022	mg/Kg		01/22/19 11:55	01/22/19 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.6**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-Q11S-3.5-4

Date Collected: 01/10/19 10:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	50	ug/Kg		01/10/19 19:30	01/16/19 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/10/19 19:30*	*01/16/19 13:39*	*1*
4-Bromofluorobenzene (Surr)	*128*	*X*	*79 - 120*	*01/10/19 19:30*	*01/16/19 13:39*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*	*01/10/19 19:30*	*01/16/19 13:39*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,2,4-Trichlorobenzene	ND		3.6	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,2,4-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,3,5-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
2,2-Dichloropropane	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
2-Butanone (MEK)	ND		7.2	3.6	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
2-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
2-Hexanone	ND		7.2	3.6	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
4-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
4-Isopropyltoluene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Benzene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Bromobenzene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Bromoform	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Bromomethane	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Chloroethane	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Chloroform	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Chloromethane	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1

Client Sample ID: DG-Q11S-3.5-4
Date Collected: 01/10/19 10:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Dibromomethane	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Hexachlorobutadiene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Naphthalene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
n-Butylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
N-Propylbenzene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
sec-Butylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Styrene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
tert-Butylbenzene	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Tetrachloroethene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Toluene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Trichloroethene	ND		0.72	0.36	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		01/10/19 19:30	01/16/19 13:39	1
Xylenes, Total	ND		1.4	0.94	ug/Kg		01/10/19 19:30	01/16/19 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/10/19 19:30*	*01/16/19 13:39*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*	*01/10/19 19:30*	*01/16/19 13:39*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**520**	**J**	960	480	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Acenaphthene	ND		480	270	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Acenaphthylene	ND		480	230	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Anthracene	ND		480	190	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Benzo[a]anthracene	ND		480	140	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Benzo[a]pyrene	ND		480	180	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Benzo[b]fluoranthene	ND		480	200	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Benzo[g,h,i]perylene	ND		480	410	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Benzo[k]fluoranthene	ND		480	200	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Chrysene	ND		480	130	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Dibenz(a,h)anthracene	ND		480	340	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Fluoranthene	ND		480	130	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Fluorene	ND		480	210	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Indeno[1,2,3-cd]pyrene	ND		480	400	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Naphthalene	ND		480	340	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Phenanthrene	**260**	**J**	480	170	ug/Kg		01/15/19 17:13	01/22/19 22:50	100
Pyrene	ND		480	160	ug/Kg		01/15/19 17:13	01/22/19 22:50	100

Client Sample ID: DG-Q11S-3.5-4

Date Collected: 01/10/19 10:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*33 - 120*	*01/15/19 17:13*	*01/22/19 22:50*	*100*
Terphenyl-d14	*83*		*35 - 146*	*01/15/19 17:13*	*01/22/19 22:50*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2300		95	36	mg/Kg		01/15/19 13:31	01/18/19 02:37	50
Motor Oil Range Organics [C24-C36]	5700		2400	470	mg/Kg		01/15/19 13:31	01/18/19 02:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/15/19 13:31*	*01/18/19 02:37*	*50*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.4	2.9	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
4,4'-DDE	ND		9.4	2.0	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
4,4'-DDT	ND		9.4	1.9	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Aldrin	ND		9.4	2.3	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
alpha-BHC	ND		9.4	2.6	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
alpha-Chlordane	ND		9.4	1.9	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
beta-BHC	ND		9.4	1.7	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Chlordane (technical)	ND		190	15	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
delta-BHC	ND		9.4	2.1	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Dieldrin	ND		9.4	2.8	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Endosulfan I	ND		9.4	1.5	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Endosulfan II	ND		9.4	2.3	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Endosulfan sulfate	ND		9.4	1.8	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Endrin	ND		9.4	2.2	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Endrin aldehyde	ND		9.4	3.0	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Endrin ketone	ND		9.4	1.6	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
gamma-BHC (Lindane)	ND		9.4	3.0	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
gamma-Chlordane	ND		9.4	2.2	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Heptachlor	ND		9.4	2.2	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Heptachlor epoxide	ND		9.4	1.6	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Methoxychlor	ND		9.4	3.2	ug/Kg		01/15/19 17:04	01/21/19 14:51	5
Toxaphene	ND		190	32	ug/Kg		01/15/19 17:04	01/21/19 14:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*21 - 136*	*01/15/19 17:04*	*01/21/19 14:51*	*5*
Tetrachloro-m-xylene	*81*		*21 - 145*	*01/15/19 17:04*	*01/21/19 14:51*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:56	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:56	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:56	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:56	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:56	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:56	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 17:56	1

Client Sample ID: DG-Q11S-3.5-4

Date Collected: 01/10/19 10:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*54*		*45 - 120*	*01/14/19 13:13*	*01/15/19 17:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.5**		1.8	0.30	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Arsenic	**14**		3.6	0.31	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Barium	**47**	**B**	1.8	0.26	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Beryllium	**0.72**		0.36	0.12	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Cadmium	ND		0.45	0.045	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Chromium	**37**	**B**	1.8	0.19	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Cobalt	**18**		0.72	0.072	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Copper	**77**		5.4	2.6	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Lead	**48**		1.8	0.38	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Nickel	**43**		1.8	0.18	mg/Kg		01/11/19 09:15	01/16/19 20:32	4
Selenium	**2.1**	**J**	3.6	0.54	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Silver	ND		0.90	0.18	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Thallium	ND		1.8	0.52	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Vanadium	**47**		1.8	0.25	mg/Kg		01/11/19 09:15	01/15/19 19:08	4
Zinc	**98**		5.4	2.3	mg/Kg		01/11/19 09:15	01/15/19 19:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.093**		0.015	0.0022	mg/Kg		01/23/19 10:47	01/23/19 16:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DUP-74

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		77	54	ug/Kg		01/10/19 19:30	01/16/19 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/10/19 19:30*	*01/16/19 14:05*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/10/19 19:30*	*01/16/19 14:05*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*01/10/19 19:30*	*01/16/19 14:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,1,1-Trichloroethane	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.8	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,1,2-Trichloroethane	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,1-Dichloroethane	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,1-Dichloropropene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,2,3-Trichlorobenzene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,2,3-Trichloropropane	ND		7.7	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,2,4-Trichlorobenzene	ND		3.8	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,2,4-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,2-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,2-Dichloroethane	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,2-Dichloropropane	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,3,5-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,3-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,3-Dichloropropane	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
1,4-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
2,2-Dichloropropane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
2-Butanone (MEK)	ND		7.7	3.8	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
2-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
2-Hexanone	ND		7.7	3.8	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
4-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
4-Isopropyltoluene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Benzene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Bromobenzene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Bromoform	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Bromomethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Chlorobenzene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Chlorodibromomethane	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Chloroethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Chloroform	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Chloromethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
cis-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1

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Date Collected: 01/10/19 00:00
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Lab Sample ID: 720-90698-16

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Dibromomethane	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Dichlorobromomethane	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Ethylbenzene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Ethylene Dibromide	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Hexachlorobutadiene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Isopropylbenzene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Methylene Chloride	ND		7.7	3.8	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Naphthalene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
n-Butylbenzene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
N-Propylbenzene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
sec-Butylbenzene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Styrene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
tert-Butylbenzene	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Tetrachloroethene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Toluene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
trans-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
trans-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Trichloroethene	ND		0.77	0.38	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 14:05	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		01/10/19 19:30	01/16/19 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*01/10/19 19:30*	*01/16/19 14:05*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*01/10/19 19:30*	*01/16/19 14:05*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		380	190	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Acenaphthene	ND		190	110	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Acenaphthylene	ND		190	91	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Anthracene	ND		190	76	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Benzo[a]anthracene	**58**	**J**	190	57	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Benzo[a]pyrene	**91**	**J**	190	72	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Benzo[b]fluoranthene	**150**	**J**	190	80	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Benzo[g,h,i]perylene	ND		190	160	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Benzo[k]fluoranthene	ND		190	80	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Chrysene	**170**	**J**	190	53	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Dibenz(a,h)anthracene	ND		190	130	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Fluoranthene	**110**	**J**	190	53	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Fluorene	ND		190	84	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Indeno[1,2,3-cd]pyrene	ND		190	160	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Naphthalene	**130**	**J**	190	130	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Phenanthrene	**230**		190	68	ug/Kg		01/15/19 17:13	01/24/19 13:49	40
Pyrene	**180**	**J**	190	65	ug/Kg		01/15/19 17:13	01/24/19 13:49	40

Client Sample ID: DUP-74

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*01/15/19 17:13*	*01/24/19 13:49*	*40*
Terphenyl-d14	*85*		*35 - 146*	*01/15/19 17:13*	*01/24/19 13:49*	*40*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**920**		19	7.2	mg/Kg		01/15/19 13:31	01/18/19 00:36	10
Motor Oil Range Organics [C24-C36]	**2600**		480	96	mg/Kg		01/15/19 13:31	01/18/19 00:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/15/19 13:31*	*01/18/19 00:36*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.0	1.2	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
4,4'-DDE	ND		4.0	0.83	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
4,4'-DDT	ND		4.0	0.81	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Aldrin	ND		4.0	0.99	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
alpha-BHC	ND		4.0	1.1	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
alpha-Chlordane	ND		4.0	0.79	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
beta-BHC	ND		4.0	0.71	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Chlordane (technical)	ND		79	6.3	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
delta-BHC	ND		4.0	0.87	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Dieldrin	ND		4.0	1.2	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Endosulfan I	ND		4.0	0.63	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Endosulfan II	ND		4.0	0.97	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Endosulfan sulfate	ND		4.0	0.75	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Endrin	ND		4.0	0.91	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Endrin aldehyde	ND		4.0	1.2	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Endrin ketone	ND		4.0	0.65	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
gamma-BHC (Lindane)	ND		4.0	1.2	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
gamma-Chlordane	ND		4.0	0.91	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Heptachlor	ND		4.0	0.91	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Heptachlor epoxide	ND		4.0	0.69	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Methoxychlor	ND		4.0	1.3	ug/Kg		01/15/19 17:04	01/21/19 15:08	2
Toxaphene	ND		79	13	ug/Kg		01/15/19 17:04	01/21/19 15:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*21 - 136*	*01/15/19 17:04*	*01/21/19 15:08*	*2*
Tetrachloro-m-xylene	*72*		*21 - 145*	*01/15/19 17:04*	*01/21/19 15:08*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:10	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:10	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:10	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:10	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:10	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:10	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:10	1

Client Sample ID: DUP-74

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*01/14/19 13:13*	*01/15/19 18:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.2**		1.8	0.30	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Arsenic	**7.5**		3.6	0.30	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Barium	**55**	**B**	1.8	0.25	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Beryllium	ND		0.36	0.12	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Cadmium	**0.13**	**J**	0.45	0.044	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Chromium	**16**	**B**	1.8	0.19	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Cobalt	**11**		0.71	0.071	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Copper	**130**		5.4	2.5	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Lead	**430**		1.8	0.38	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Nickel	**13**		1.8	0.18	mg/Kg		01/11/19 09:15	01/16/19 20:37	4
Selenium	**1.2**	**J**	3.6	0.54	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Silver	ND		0.89	0.18	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Thallium	**1.1**	**J**	1.8	0.52	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Vanadium	**71**		1.8	0.24	mg/Kg		01/11/19 09:15	01/15/19 19:13	4
Zinc	**110**		5.4	2.3	mg/Kg		01/11/19 09:15	01/15/19 19:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.015	0.0022	mg/Kg		01/23/19 10:47	01/23/19 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.05	%			01/11/19 13:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-S11S-0.5-1
Date Collected: 01/10/19 10:50
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-17
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		81	57	ug/Kg		01/10/19 19:30	01/16/19 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/10/19 19:30*	*01/16/19 14:32*	*1*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*	*01/10/19 19:30*	*01/16/19 14:32*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*01/10/19 19:30*	*01/16/19 14:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,1,1-Trichloroethane	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.1	4.1	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,1,2-Trichloroethane	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,1-Dichloroethane	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,1-Dichloroethene	ND		1.6	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,1-Dichloropropene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,2,3-Trichlorobenzene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,2,3-Trichloropropane	ND		8.1	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,2,4-Trichlorobenzene	ND		4.1	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,2,4-Trimethylbenzene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,2-Dichlorobenzene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,2-Dichloroethane	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,2-Dichloropropane	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,3,5-Trimethylbenzene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,3-Dichlorobenzene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,3-Dichloropropane	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
1,4-Dichlorobenzene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
2,2-Dichloropropane	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
2-Butanone (MEK)	ND		8.1	4.1	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
2-Chlorotoluene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
2-Hexanone	ND		8.1	4.1	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
4-Chlorotoluene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
4-Isopropyltoluene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.0	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Benzene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Bromobenzene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Bromoform	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Bromomethane	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Carbon disulfide	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Carbon tetrachloride	ND		1.6	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Chlorobenzene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Chlorobromomethane	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Chlorodibromomethane	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Chloroethane	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Chloroform	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Chloromethane	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
cis-1,2-Dichloroethene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1

Client Sample ID: DG-S11S-0.5-1
Date Collected: 01/10/19 10:50
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-17
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Dibromomethane	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Dichlorobromomethane	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Dichlorodifluoromethane	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Ethylbenzene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Ethylene Dibromide	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Hexachlorobutadiene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Isopropylbenzene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Methyl tert-butyl ether	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Methylene Chloride	ND		8.1	4.1	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Naphthalene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
n-Butylbenzene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
N-Propylbenzene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
sec-Butylbenzene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Styrene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
tert-Butylbenzene	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Tetrachloroethene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Toluene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
trans-1,2-Dichloroethene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
trans-1,3-Dichloropropene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Trichloroethene	ND		0.81	0.41	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Trichlorofluoromethane	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Vinyl acetate	ND		6.5	3.3	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Vinyl chloride	ND		1.6	0.81	ug/Kg		01/10/19 19:30	01/16/19 14:32	1
Xylenes, Total	ND		1.6	1.1	ug/Kg		01/10/19 19:30	01/16/19 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/10/19 19:30*	*01/16/19 14:32*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*01/10/19 19:30*	*01/16/19 14:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		500	250	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Acenaphthene	ND		250	140	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Acenaphthylene	ND		250	120	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Anthracene	ND		250	99	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Benzo[a]anthracene	ND		250	74	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Benzo[a]pyrene	ND		250	94	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Benzo[b]fluoranthene	ND		250	100	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Benzo[g,h,i]perylene	ND		250	210	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Benzo[k]fluoranthene	ND		250	100	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Chrysene	ND		250	69	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Dibenz(a,h)anthracene	ND		250	170	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Fluoranthene	ND		250	69	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Fluorene	ND		250	110	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Indeno[1,2,3-cd]pyrene	ND		250	210	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Naphthalene	ND		250	170	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Phenanthrene	ND		250	89	ug/Kg		01/15/19 17:13	01/22/19 23:37	50
Pyrene	ND		250	84	ug/Kg		01/15/19 17:13	01/22/19 23:37	50

Client Sample ID: DG-S11S-0.5-1

Date Collected: 01/10/19 10:50
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*01/15/19 17:13*	*01/22/19 23:37*	*50*
Terphenyl-d14	*81*		*35 - 146*	*01/15/19 17:13*	*01/22/19 23:37*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	680		40	15	mg/Kg		01/15/19 13:31	01/17/19 23:47	20
Motor Oil Range Organics [C24-C36]	1900		990	200	mg/Kg		01/15/19 13:31	01/17/19 23:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/15/19 13:31*	*01/17/19 23:47*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.5	2.9	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
4,4'-DDE	ND		9.5	2.0	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
4,4'-DDT	ND		9.5	1.9	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Aldrin	ND		9.5	2.4	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
alpha-BHC	ND		9.5	2.6	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
alpha-Chlordane	ND		9.5	1.9	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
beta-BHC	ND		9.5	1.7	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Chlordane (technical)	ND		190	15	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
delta-BHC	ND		9.5	2.1	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Dieldrin	ND		9.5	2.8	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Endosulfan I	ND		9.5	1.5	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Endosulfan II	ND		9.5	2.3	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Endosulfan sulfate	ND		9.5	1.8	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Endrin	ND		9.5	2.2	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Endrin aldehyde	ND		9.5	3.0	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Endrin ketone	ND		9.5	1.6	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
gamma-BHC (Lindane)	ND		9.5	3.0	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
gamma-Chlordane	ND		9.5	2.2	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Heptachlor	ND		9.5	2.2	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Heptachlor epoxide	ND		9.5	1.7	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Methoxychlor	ND		9.5	3.2	ug/Kg		01/15/19 17:04	01/21/19 15:25	5
Toxaphene	ND		190	32	ug/Kg		01/15/19 17:04	01/21/19 15:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*21 - 136*	*01/15/19 17:04*	*01/21/19 15:25*	*5*
Tetrachloro-m-xylene	*78*		*21 - 145*	*01/15/19 17:04*	*01/21/19 15:25*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:23	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:23	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:23	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:23	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:23	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:23	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 18:23	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-S11S-0.5-1

Date Collected: 01/10/19 10:50
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*01/14/19 13:13*	*01/15/19 18:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.37**	**J**	1.3	0.22	mg/Kg		01/11/19 09:15	01/16/19 20:51	4
Arsenic	**1.2**	**J**	2.6	0.22	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Barium	**55**	**B**	1.3	0.19	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Beryllium	ND		0.26	0.086	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Cadmium	ND		0.33	0.033	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Chromium	**9.7**	**B**	1.3	0.14	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Cobalt	**7.4**		0.53	0.053	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Copper	**37**		3.9	1.9	mg/Kg		01/11/19 09:15	01/16/19 20:51	4
Lead	**39**		1.3	0.28	mg/Kg		01/11/19 09:15	01/16/19 20:51	4
Molybdenum	ND		1.3	0.17	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Nickel	**3.1**		1.3	0.13	mg/Kg		01/11/19 09:15	01/16/19 20:51	4
Selenium	ND		2.6	0.39	mg/Kg		01/11/19 09:15	01/16/19 20:51	4
Silver	ND		0.66	0.13	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Thallium	**1.0**	**J**	1.3	0.38	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Vanadium	**53**		1.3	0.18	mg/Kg		01/11/19 09:15	01/15/19 19:18	4
Zinc	**48**		3.9	1.7	mg/Kg		01/11/19 09:15	01/15/19 19:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.049**		0.014	0.0021	mg/Kg		01/23/19 10:47	01/23/19 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.6**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-S11S-3.5-4
Date Collected: 01/10/19 10:52
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-18
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		95	66	ug/Kg		01/10/19 19:30	01/16/19 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/10/19 19:30*	*01/16/19 14:58*	*1*
4-Bromofluorobenzene (Surr)	*119*	*	*79 - 120*	*01/10/19 19:30*	*01/16/19 14:58*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*01/10/19 19:30*	*01/16/19 14:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,1,1-Trichloroethane	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,1,2,2-Tetrachloroethane	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.5	4.7	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,1,2-Trichloroethane	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,1-Dichloroethane	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,1-Dichloropropene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,2,3-Trichlorobenzene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,2,3-Trichloropropane	ND	*	9.5	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,2,4-Trichlorobenzene	ND	*	4.7	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,2,4-Trimethylbenzene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,2-Dibromo-3-Chloropropane	ND	*	4.7	1.9	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,2-Dichlorobenzene	ND	*	0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,2-Dichloroethane	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,2-Dichloropropane	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,3,5-Trimethylbenzene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,3-Dichlorobenzene	ND	*	0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,3-Dichloropropane	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
1,4-Dichlorobenzene	ND	*	0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
2,2-Dichloropropane	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
2-Butanone (MEK)	ND		9.5	4.7	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
2-Chlorotoluene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
2-Hexanone	ND		9.5	4.7	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
4-Chlorotoluene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
4-Isopropyltoluene	ND	*	0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.4	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Benzene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Bromobenzene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Bromoform	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Bromomethane	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Carbon disulfide	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Chlorobenzene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Chlorobromomethane	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Chlorodibromomethane	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Chloroethane	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Chloroform	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Chloromethane	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
cis-1,2-Dichloroethene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1

Client Sample ID: DG-S11S-3.5-4

Date Collected: 01/10/19 10:52
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-18

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Dibromomethane	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Dichlorobromomethane	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Dichlorodifluoromethane	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Ethylbenzene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Ethylene Dibromide	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Hexachlorobutadiene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Isopropylbenzene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Methyl tert-butyl ether	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Methylene Chloride	ND		9.5	4.7	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Naphthalene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
n-Butylbenzene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
N-Propylbenzene	ND	*	0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
sec-Butylbenzene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Styrene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
tert-Butylbenzene	ND	*	1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Tetrachloroethene	**1.2**		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Toluene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
trans-1,2-Dichloroethene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
trans-1,3-Dichloropropene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Trichloroethene	ND		0.95	0.47	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Trichlorofluoromethane	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Vinyl acetate	ND		7.6	3.8	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Vinyl chloride	ND		1.9	0.95	ug/Kg		01/10/19 19:30	01/16/19 14:58	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/10/19 19:30	01/16/19 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/10/19 19:30*	*01/16/19 14:58*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*01/10/19 19:30*	*01/16/19 14:58*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**240**	**J**	400	200	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Acenaphthene	ND		200	110	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Acenaphthylene	ND		200	95	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Anthracene	ND		200	79	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Benzo[a]anthracene	**97**	**J**	200	59	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Benzo[a]pyrene	**97**	**J**	200	75	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Benzo[b]fluoranthene	**240**		200	83	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Benzo[g,h,i]perylene	ND		200	170	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Benzo[k]fluoranthene	ND		200	83	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Chrysene	**230**		200	55	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Dibenz(a,h)anthracene	ND		200	140	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Fluoranthene	**290**		200	55	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Fluorene	ND		200	87	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Indeno[1,2,3-cd]pyrene	ND		200	170	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Naphthalene	ND		200	140	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Phenanthrene	**460**		200	71	ug/Kg		01/15/19 17:13	01/24/19 14:12	40
Pyrene	**320**		200	67	ug/Kg		01/15/19 17:13	01/24/19 14:12	40

Client Sample ID: DG-S11S-3.5-4

Date Collected: 01/10/19 10:52
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*01/15/19 17:13*	*01/24/19 14:12*	*40*
Terphenyl-d14	*85*		*35 - 146*	*01/15/19 17:13*	*01/24/19 14:12*	*40*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1200**		19	7.0	mg/Kg		01/15/19 13:31	01/17/19 22:58	10
Motor Oil Range Organics [C24-C36]	**2700**		470	94	mg/Kg		01/15/19 13:31	01/17/19 22:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/15/19 13:31*	*01/17/19 22:58*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.0	1.2	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
4,4'-DDE	ND		4.0	0.84	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
4,4'-DDT	ND		4.0	0.82	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Aldrin	ND		4.0	1.0	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
alpha-BHC	ND		4.0	1.1	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
alpha-Chlordane	ND		4.0	0.80	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
beta-BHC	ND		4.0	0.72	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Chlordane (technical)	ND		80	6.4	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
delta-BHC	ND		4.0	0.88	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Dieldrin	ND		4.0	1.2	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Endosulfan I	ND		4.0	0.64	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Endosulfan II	ND		4.0	0.98	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Endosulfan sulfate	ND		4.0	0.76	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Endrin	ND		4.0	0.92	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Endrin aldehyde	ND		4.0	1.3	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Endrin ketone	ND		4.0	0.66	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
gamma-BHC (Lindane)	ND		4.0	1.3	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
gamma-Chlordane	ND		4.0	0.92	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Heptachlor	ND		4.0	0.92	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Heptachlor epoxide	ND		4.0	0.70	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Methoxychlor	ND		4.0	1.4	ug/Kg		01/15/19 17:04	01/19/19 10:51	2
Toxaphene	ND		80	14	ug/Kg		01/15/19 17:04	01/19/19 10:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*21 - 136*	*01/15/19 17:04*	*01/19/19 10:51*	*2*
Tetrachloro-m-xylene	*83*		*21 - 145*	*01/15/19 17:04*	*01/19/19 10:51*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:54	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:54	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:54	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:54	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:54	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:54	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/16/19 19:54	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-S11S-3.5-4
Date Collected: 01/10/19 10:52
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-18
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/14/19 13:13*	*01/16/19 19:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	26		2.8	0.47	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Arsenic	31		5.6	0.48	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Barium	100		2.8	0.40	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Beryllium	0.34	J	0.56	0.18	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Cadmium	0.34	J	0.71	0.070	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Chromium	22	B	2.8	0.30	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Cobalt	13		1.1	0.11	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Copper	1600		8.5	4.0	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Lead	1300		2.8	0.59	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Molybdenum	3.6		2.8	0.36	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Nickel	120		2.8	0.29	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Selenium	5.5	J	5.6	0.85	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Silver	ND		1.4	0.29	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Thallium	ND		2.8	0.82	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Vanadium	75		2.8	0.38	mg/Kg		01/11/19 09:15	01/16/19 20:56	10
Zinc	130		8.5	3.6	mg/Kg		01/11/19 09:15	01/16/19 20:56	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.3		0.061	0.0090	mg/Kg		01/23/19 10:47	01/23/19 16:56	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.4		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-U11S-0.5-1

Date Collected: 01/10/19 11:20
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-19

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	4100		160	110	ug/Kg		01/11/19 10:40	01/17/19 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*60 - 120*	*01/11/19 10:40*	*01/17/19 23:02*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X	*79 - 120*	*01/11/19 10:40*	*01/17/19 23:02*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*	*01/11/19 10:40*	*01/17/19 23:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,1,1-Trichloroethane	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,1,2,2-Tetrachloroethane	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.9	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,1,2-Trichloroethane	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,1-Dichloroethane	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,1-Dichloroethene	ND		1.5	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,1-Dichloropropene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,2,3-Trichlorobenzene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,2,3-Trichloropropane	ND	*	7.7	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,2,4-Trichlorobenzene	ND	*	3.9	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,2,4-Trimethylbenzene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,2-Dibromo-3-Chloropropane	ND	*	3.9	1.5	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,2-Dichlorobenzene	ND	*	0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,2-Dichloroethane	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,2-Dichloropropane	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,3,5-Trimethylbenzene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,3-Dichlorobenzene	ND	*	0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,3-Dichloropropane	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
1,4-Dichlorobenzene	ND	*	0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
2,2-Dichloropropane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
2-Butanone (MEK)	ND		7.7	3.9	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
2-Chlorotoluene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
2-Hexanone	ND		7.7	3.9	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
4-Chlorotoluene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
4-Isopropyltoluene	ND	*	0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Benzene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Bromobenzene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Bromoform	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Bromomethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Carbon tetrachloride	ND		1.5	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Chlorobenzene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Chlorodibromomethane	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Chloroethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Chloroform	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Chloromethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
cis-1,2-Dichloroethene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1

Client Sample ID: DG-U11S-0.5-1

Date Collected: 01/10/19 11:20
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-19

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Dibromomethane	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Dichlorobromomethane	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Ethylbenzene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Ethylene Dibromide	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Hexachlorobutadiene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Isopropylbenzene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Methylene Chloride	ND		7.7	3.9	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Naphthalene	**3.0**	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
n-Butylbenzene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
N-Propylbenzene	ND	*	0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
sec-Butylbenzene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Styrene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
tert-Butylbenzene	ND	*	1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Tetrachloroethene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Toluene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
trans-1,2-Dichloroethene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
trans-1,3-Dichloropropene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Trichloroethene	ND		0.77	0.39	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		01/10/19 19:30	01/16/19 15:24	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*	*01/10/19 19:30*	*01/16/19 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*01/11/19 10:40*	*01/17/19 23:02*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*01/10/19 19:30*	*01/16/19 15:24*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*	*01/11/19 10:40*	*01/17/19 23:02*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**1000**		390	200	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Acenaphthene	**130**	**J**	200	110	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Acenaphthylene	ND		200	94	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Anthracene	**170**	**J**	200	79	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Benzo[a]anthracene	**92**	**J**	200	59	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Benzo[a]pyrene	**140**	**J**	200	75	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Benzo[b]fluoranthene	**190**	**J**	200	83	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Benzo[g,h,i]perylene	ND		200	170	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Benzo[k]fluoranthene	ND		200	83	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Chrysene	**300**		200	55	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Dibenz(a,h)anthracene	ND		200	140	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Fluoranthene	**230**		200	55	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Fluorene	**150**	**J**	200	87	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Indeno[1,2,3-cd]pyrene	ND		200	170	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Naphthalene	**380**		200	140	ug/Kg		01/15/19 17:13	01/24/19 14:36	40
Phenanthrene	**650**		200	71	ug/Kg		01/15/19 17:13	01/24/19 14:36	40

Client Sample ID: DG-U11S-0.5-1

Date Collected: 01/10/19 11:20
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-19

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	660		200	67	ug/Kg		01/15/19 17:13	01/24/19 14:36	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*01/15/19 17:13*	*01/24/19 14:36*	*40*
Terphenyl-d14	*83*		*35 - 146*	*01/15/19 17:13*	*01/24/19 14:36*	*40*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3600		98	37	mg/Kg		01/15/19 13:31	01/18/19 16:24	50
Motor Oil Range Organics [C24-C36]	4900		2400	490	mg/Kg		01/15/19 13:31	01/18/19 16:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/15/19 13:31*	*01/18/19 16:24*	*50*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.9	3.0	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
4,4'-DDE	ND		9.9	2.1	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
4,4'-DDT	ND		9.9	2.0	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Aldrin	ND		9.9	2.5	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
alpha-BHC	ND		9.9	2.7	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
alpha-Chlordane	ND		9.9	2.0	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
beta-BHC	ND		9.9	1.8	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Chlordane (technical)	ND		200	16	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
delta-BHC	ND		9.9	2.2	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Dieldrin	ND		9.9	2.9	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Endosulfan I	ND		9.9	1.6	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Endosulfan II	ND		9.9	2.4	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Endosulfan sulfate	ND		9.9	1.9	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Endrin	ND		9.9	2.3	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Endrin aldehyde	ND		9.9	3.1	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Endrin ketone	ND		9.9	1.6	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
gamma-BHC (Lindane)	ND		9.9	3.1	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
gamma-Chlordane	ND		9.9	2.3	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Heptachlor	ND		9.9	2.3	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Heptachlor epoxide	ND		9.9	1.7	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Methoxychlor	ND		9.9	3.4	ug/Kg		01/15/19 17:04	01/21/19 15:41	5
Toxaphene	ND		200	34	ug/Kg		01/15/19 17:04	01/21/19 15:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*21 - 136*	*01/15/19 17:04*	*01/21/19 15:41*	*5*
Tetrachloro-m-xylene	*64*	*p*	*21 - 145*	*01/15/19 17:04*	*01/21/19 15:41*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 18:50	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 18:50	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 18:50	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 18:50	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 18:50	1

Client Sample ID: DG-U11S-0.5-1

Date Collected: 01/10/19 11:20
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-19

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 18:50	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/14/19 13:13*	*01/15/19 18:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**34**		1.5	0.26	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Arsenic	**11**		3.1	0.26	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Barium	**68**	**B**	1.5	0.22	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Beryllium	ND		0.31	0.10	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Cadmium	**0.20**	**J**	0.38	0.038	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Chromium	**17**	**B**	1.5	0.16	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Cobalt	**8.8**		0.62	0.062	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Copper	**150**		4.6	2.2	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Lead	**840**		1.5	0.32	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Molybdenum	ND		1.5	0.20	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Nickel	**12**		1.5	0.16	mg/Kg		01/11/19 09:15	01/16/19 21:01	4
Selenium	ND		3.1	0.46	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Silver	ND		0.77	0.16	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Thallium	**1.3**	**J**	1.5	0.45	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Vanadium	**65**		1.5	0.21	mg/Kg		01/11/19 09:15	01/15/19 19:27	4
Zinc	**120**		4.6	2.0	mg/Kg		01/11/19 09:15	01/15/19 19:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.017	0.0025	mg/Kg		01/23/19 10:47	01/23/19 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.1**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-U11S-3.5-4

Date Collected: 01/10/19 11:22
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		96	67	ug/Kg		01/15/19 21:09	01/16/19 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/15/19 21:09*	*01/16/19 01:50*	*1*
4-Bromofluorobenzene (Surr)	*125*	*X*	*79 - 120*	*01/15/19 21:09*	*01/16/19 01:50*	*1*
Toluene-d8 (Surr)	*129*	*X*	*79 - 123*	*01/15/19 21:09*	*01/16/19 01:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,1,1-Trichloroethane	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.6	4.8	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,1,2-Trichloroethane	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,1-Dichloroethane	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,1-Dichloroethene	ND		1.9	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,1-Dichloropropene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,2,3-Trichlorobenzene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,2,3-Trichloropropane	ND		9.6	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,2,4-Trichlorobenzene	ND		4.8	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,2,4-Trimethylbenzene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,2-Dibromo-3-Chloropropane	ND		4.8	1.9	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,2-Dichlorobenzene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,2-Dichloroethane	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,2-Dichloropropane	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,3,5-Trimethylbenzene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,3-Dichlorobenzene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,3-Dichloropropane	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
1,4-Dichlorobenzene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
2,2-Dichloropropane	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
2-Butanone (MEK)	ND		9.6	4.8	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
2-Chlorotoluene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
2-Hexanone	ND		9.6	4.8	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
4-Chlorotoluene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
4-Isopropyltoluene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
4-Methyl-2-pentanone (MIBK)	ND		4.8	2.4	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Benzene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Bromobenzene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Bromoform	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Bromomethane	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Carbon disulfide	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Carbon tetrachloride	ND		1.9	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Chlorobenzene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Chlorobromomethane	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Chlorodibromomethane	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Chloroethane	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Chloroform	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Chloromethane	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
cis-1,2-Dichloroethene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1

Client Sample ID: DG-U11S-3.5-4

Date Collected: 01/10/19 11:22
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-20

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Dibromomethane	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Dichlorobromomethane	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Dichlorodifluoromethane	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Ethylbenzene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Ethylene Dibromide	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Hexachlorobutadiene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Isopropylbenzene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Methyl tert-butyl ether	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Methylene Chloride	ND		9.6	4.8	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Naphthalene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
n-Butylbenzene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
N-Propylbenzene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
sec-Butylbenzene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Styrene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
tert-Butylbenzene	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Tetrachloroethene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Toluene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
trans-1,2-Dichloroethene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
trans-1,3-Dichloropropene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Trichloroethene	ND		0.96	0.48	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Trichlorofluoromethane	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Vinyl acetate	ND		7.6	3.8	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Vinyl chloride	ND		1.9	0.96	ug/Kg		01/15/19 21:09	01/16/19 01:50	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/15/19 21:09	01/16/19 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/15/19 21:09*	*01/16/19 01:50*	*1*
Toluene-d8 (Surr)	*129*	*X*	*79 - 123*	*01/15/19 21:09*	*01/16/19 01:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**46**		9.9	5.0	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Acenaphthene	**8.0**		5.0	2.8	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Acenaphthylene	**7.8**		5.0	2.4	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Anthracene	**28**		5.0	2.0	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Benzo[a]anthracene	**12**		5.0	1.5	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Benzo[a]pyrene	**17**		5.0	1.9	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Benzo[b]fluoranthene	**34**		5.0	2.1	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Benzo[g,h,i]perylene	**8.4**		5.0	4.3	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Benzo[k]fluoranthene	**8.7**		5.0	2.1	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Chrysene	**30**		5.0	1.4	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Fluoranthene	**32**		5.0	1.4	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Fluorene	**9.0**		5.0	2.2	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Indeno[1,2,3-cd]pyrene	**6.3**		5.0	4.2	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Naphthalene	**40**		5.0	3.5	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Phenanthrene	**76**		5.0	1.8	ug/Kg		01/15/19 17:13	01/22/19 20:53	1
Pyrene	**51**		5.0	1.7	ug/Kg		01/15/19 17:13	01/22/19 20:53	1

Client Sample ID: DG-U11S-3.5-4

Date Collected: 01/10/19 11:22
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-20

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		33 - 120	01/15/19 17:13	01/22/19 20:53	1
Terphenyl-d14	86		35 - 146	01/15/19 17:13	01/22/19 20:53	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	270		5.7	2.1	mg/Kg		01/15/19 13:31	01/18/19 02:12	3
Motor Oil Range Organics [C24-C36]	450		140	28	mg/Kg		01/15/19 13:31	01/18/19 02:12	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	81		40 - 130	01/15/19 13:31	01/18/19 02:12	3

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Aldrin	ND		2.0	0.50	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Endrin	ND		2.0	0.46	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/15/19 17:04	01/19/19 11:07	1
Toxaphene	ND		40	6.8	ug/Kg		01/15/19 17:04	01/19/19 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		21 - 136	01/15/19 17:04	01/19/19 11:07	1
Tetrachloro-m-xylene	81		21 - 145	01/15/19 17:04	01/19/19 11:07	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:04	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:04	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:04	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:04	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:04	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:04	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:04	1

Client Sample ID: DG-U11S-3.5-4

Date Collected: 01/10/19 11:22
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*01/14/19 13:13*	*01/15/19 19:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.6**	**J**	1.7	0.28	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Arsenic	**8.7**		3.4	0.29	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Barium	**130**	**B**	1.7	0.24	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Beryllium	**0.61**		0.34	0.11	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Cadmium	**0.46**		0.42	0.042	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Chromium	**35**	**B**	1.7	0.18	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Cobalt	**11**		0.67	0.067	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Copper	**34**		5.0	2.4	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Lead	**94**		1.7	0.35	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Nickel	**53**		1.7	0.17	mg/Kg		01/11/19 09:15	01/16/19 21:05	4
Selenium	**0.89**	**J**	3.4	0.50	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Silver	ND		0.84	0.17	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Thallium	**1.1**	**J**	1.7	0.49	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Vanadium	**39**		1.7	0.23	mg/Kg		01/11/19 09:15	01/15/19 19:32	4
Zinc	**290**		5.0	2.1	mg/Kg		01/11/19 09:15	01/15/19 19:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.014	0.0021	mg/Kg		01/23/19 10:47	01/23/19 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.8**		0.1	0.05	%			01/11/19 13:50	1

Client Sample ID: DG-V13S-0.5-1

Date Collected: 01/10/19 12:50
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-21

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		200	140	ug/Kg		01/10/19 19:30	01/16/19 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/10/19 19:30*	*01/16/19 15:51*	*1*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*	*01/10/19 19:30*	*01/16/19 15:51*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*01/10/19 19:30*	*01/16/19 15:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,1,2,2-Tetrachloroethane	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	10	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,1-Dichloroethene	ND		4.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,2,3-Trichlorobenzene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,2,3-Trichloropropane	ND		20	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,2,4-Trichlorobenzene	ND		10	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,2,4-Trimethylbenzene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,2-Dibromo-3-Chloropropane	ND		10	4.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,3,5-Trimethylbenzene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
2,2-Dichloropropane	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
2-Butanone (MEK)	ND		20	10	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
2-Chlorotoluene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
2-Hexanone	ND		20	10	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
4-Chlorotoluene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
4-Isopropyltoluene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
4-Methyl-2-pentanone (MIBK)	ND		10	5.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Benzene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Bromobenzene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Bromoform	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Bromomethane	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Carbon disulfide	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Carbon tetrachloride	ND		4.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Chlorobenzene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Chlorobromomethane	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Chlorodibromomethane	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Chloroethane	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Chloroform	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Chloromethane	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1

Client Sample ID: DG-V13S-0.5-1

Date Collected: 01/10/19 12:50
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-21

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Dibromomethane	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Dichlorobromomethane	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Dichlorodifluoromethane	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Ethylbenzene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Ethylene Dibromide	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Hexachlorobutadiene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Methyl tert-butyl ether	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Methylene Chloride	ND		20	10	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Naphthalene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
n-Butylbenzene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
sec-Butylbenzene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Styrene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
tert-Butylbenzene	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Toluene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Trichloroethene	ND		2.0	1.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Trichlorofluoromethane	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Vinyl acetate	ND		16	8.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Vinyl chloride	ND		4.0	2.0	ug/Kg		01/10/19 19:30	01/16/19 15:51	1
Xylenes, Total	ND		4.0	2.6	ug/Kg		01/10/19 19:30	01/16/19 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/10/19 19:30*	*01/16/19 15:51*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*01/10/19 19:30*	*01/16/19 15:51*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	94	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Acenaphthene	ND		94	53	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Acenaphthylene	ND		94	45	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Anthracene	ND		94	38	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Benzo[a]anthracene	ND		94	28	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Benzo[a]pyrene	**63**	**J**	94	36	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Benzo[b]fluoranthene	**100**		94	40	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Benzo[g,h,i]perylene	ND		94	81	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Benzo[k]fluoranthene	ND		94	40	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Chrysene	**66**	**J**	94	26	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Dibenz(a,h)anthracene	ND		94	66	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Fluoranthene	**64**	**J**	94	26	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Fluorene	ND		94	42	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Indeno[1,2,3-cd]pyrene	ND		94	79	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Naphthalene	**70**	**J**	94	66	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Phenanthrene	**78**	**J**	94	34	ug/Kg		01/15/19 17:13	01/24/19 15:23	20
Pyrene	**83**	**J**	94	32	ug/Kg		01/15/19 17:13	01/24/19 15:23	20

Client Sample ID: DG-V13S-0.5-1

Date Collected: 01/10/19 12:50
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*33 - 120*	*01/15/19 17:13*	*01/24/19 15:23*	*20*
Terphenyl-d14	*80*		*35 - 146*	*01/15/19 17:13*	*01/24/19 15:23*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	710		39	15	mg/Kg		01/15/19 13:31	01/18/19 16:54	20
Motor Oil Range Organics [C24-C36]	2300		990	200	mg/Kg		01/15/19 13:31	01/18/19 16:54	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/15/19 13:31*	*01/18/19 16:54*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	1.2	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
4,4'-DDE	ND		3.8	0.81	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
4,4'-DDT	ND		3.8	0.79	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Aldrin	ND		3.8	0.96	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
alpha-BHC	ND		3.8	1.1	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
alpha-Chlordane	ND		3.8	0.77	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
beta-BHC	ND		3.8	0.69	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Chlordane (technical)	ND		77	6.1	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
delta-BHC	ND		3.8	0.85	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Dieldrin	ND		3.8	1.1	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Endosulfan I	ND		3.8	0.61	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Endosulfan II	ND		3.8	0.94	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Endosulfan sulfate	ND		3.8	0.73	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Endrin	ND		3.8	0.88	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Endrin aldehyde	ND		3.8	1.2	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Endrin ketone	ND		3.8	0.63	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
gamma-BHC (Lindane)	ND		3.8	1.2	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
gamma-Chlordane	ND		3.8	0.88	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Heptachlor	ND		3.8	0.88	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Heptachlor epoxide	ND		3.8	0.67	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Methoxychlor	ND		3.8	1.3	ug/Kg		01/15/19 17:04	01/21/19 15:58	2
Toxaphene	ND		77	13	ug/Kg		01/15/19 17:04	01/21/19 15:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*21 - 136*	*01/15/19 17:04*	*01/21/19 15:58*	*2*
Tetrachloro-m-xylene	*65*		*21 - 145*	*01/15/19 17:04*	*01/21/19 15:58*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:17	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:17	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:17	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:17	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:17	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:17	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 19:17	1

Client Sample ID: DG-V13S-0.5-1

Date Collected: 01/10/19 12:50
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/14/19 13:13*	*01/15/19 19:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.2		1.6	0.27	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Arsenic	7.1		3.3	0.28	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Barium	66		1.6	0.23	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Beryllium	0.25	J	0.33	0.11	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Cadmium	0.36	J	0.41	0.040	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Chromium	36	B	1.6	0.17	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Cobalt	8.7		0.65	0.065	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Copper	120		4.9	2.3	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Lead	360		1.6	0.34	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Molybdenum	0.76	J	1.6	0.21	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Nickel	33		1.6	0.17	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Selenium	0.59	J	3.3	0.49	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Silver	ND		0.81	0.16	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Thallium	ND		1.6	0.47	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Vanadium	64		1.6	0.22	mg/Kg		01/12/19 09:26	01/15/19 17:25	4
Zinc	230		4.9	2.1	mg/Kg		01/12/19 09:26	01/15/19 17:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.097		0.015	0.0022	mg/Kg		01/23/19 10:47	01/23/19 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.05	%			01/11/19 14:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-V13S-3.5-4
Date Collected: 01/10/19 12:52
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-22
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		89	62	ug/Kg		01/10/19 19:30	01/16/19 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/10/19 19:30*	*01/16/19 16:17*	*1*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*	*01/10/19 19:30*	*01/16/19 16:17*	*1*
Toluene-d8 (Surr)	*112*		*79 - 123*	*01/10/19 19:30*	*01/16/19 16:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,1,1-Trichloroethane	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.9	4.4	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,1,2-Trichloroethane	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,1-Dichloroethane	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,1-Dichloropropene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,2,3-Trichlorobenzene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,2,3-Trichloropropane	ND		8.9	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,2,4-Trichlorobenzene	ND		4.4	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,2,4-Trimethylbenzene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,2-Dichlorobenzene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,2-Dichloroethane	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,2-Dichloropropane	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,3,5-Trimethylbenzene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,3-Dichlorobenzene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,3-Dichloropropane	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
1,4-Dichlorobenzene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
2,2-Dichloropropane	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
2-Butanone (MEK)	ND		8.9	4.4	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
2-Chlorotoluene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
2-Hexanone	ND		8.9	4.4	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
4-Chlorotoluene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
4-Isopropyltoluene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Benzene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Bromobenzene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Bromoform	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Bromomethane	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Carbon disulfide	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Chlorobenzene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Chlorobromomethane	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Chlorodibromomethane	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Chloroethane	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Chloroform	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Chloromethane	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
cis-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1

Client Sample ID: DG-V13S-3.5-4

Date Collected: 01/10/19 12:52
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-22

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Dibromomethane	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Dichlorobromomethane	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Dichlorodifluoromethane	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Ethylbenzene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Ethylene Dibromide	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Hexachlorobutadiene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Isopropylbenzene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Methyl tert-butyl ether	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Methylene Chloride	ND		8.9	4.4	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Naphthalene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
n-Butylbenzene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
N-Propylbenzene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
sec-Butylbenzene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Styrene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
tert-Butylbenzene	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Tetrachloroethene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Toluene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
trans-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
trans-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Trichloroethene	ND		0.89	0.44	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Trichlorofluoromethane	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Vinyl acetate	ND		7.1	3.5	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Vinyl chloride	ND		1.8	0.89	ug/Kg		01/10/19 19:30	01/16/19 16:17	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/10/19 19:30	01/16/19 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/10/19 19:30*	*01/16/19 16:17*	*1*
Toluene-d8 (Surr)	*112*		*79 - 123*	*01/10/19 19:30*	*01/16/19 16:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	98	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Acenaphthene	ND		98	55	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Acenaphthylene	ND		98	47	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Anthracene	ND		98	39	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Benzo[a]anthracene	**170**		98	29	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Benzo[a]pyrene	**170**		98	37	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Benzo[b]fluoranthene	**220**		98	41	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Benzo[g,h,i]perylene	**100**		98	84	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Benzo[k]fluoranthene	**83**	**J**	98	41	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Chrysene	**200**		98	27	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Dibenz(a,h)anthracene	ND		98	68	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Fluoranthene	**260**		98	27	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Fluorene	ND		98	43	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Indeno[1,2,3-cd]pyrene	ND		98	82	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Naphthalene	ND		98	68	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Phenanthrene	**250**		98	35	ug/Kg		01/15/19 17:13	01/22/19 21:16	20
Pyrene	**440**		98	33	ug/Kg		01/15/19 17:13	01/22/19 21:16	20

Client Sample ID: DG-V13S-3.5-4

Date Collected: 01/10/19 12:52
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-22

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*119*		*33 - 120*	*01/15/19 17:13*	*01/22/19 21:16*	*20*
Terphenyl-d14	*132*		*35 - 146*	*01/15/19 17:13*	*01/22/19 21:16*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**710**		19	7.1	mg/Kg		01/17/19 11:04	01/22/19 16:55	10
Motor Oil Range Organics [C24-C36]	**2300**		470	94	mg/Kg		01/17/19 11:04	01/22/19 16:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/17/19 11:04*	*01/22/19 16:55*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Endrin	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/15/19 17:04	01/19/19 11:24	1
Toxaphene	ND		39	6.6	ug/Kg		01/15/19 17:04	01/19/19 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*21 - 136*	*01/15/19 17:04*	*01/19/19 11:24*	*1*
Tetrachloro-m-xylene	*79*		*21 - 145*	*01/15/19 17:04*	*01/19/19 11:24*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 19:31	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 19:31	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 19:31	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 19:31	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 19:31	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 13:13	01/15/19 19:31	1
Aroclor 1260	**21**	**J**	49	17	ug/Kg		01/14/19 13:13	01/15/19 19:31	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-V13S-3.5-4

Date Collected: 01/10/19 12:52
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-22

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*01/14/19 13:13*	*01/15/19 19:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.4	0.23	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Arsenic	5.4		2.8	0.23	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Barium	63		1.4	0.20	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Beryllium	0.24	J	0.28	0.090	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Cadmium	0.37		0.34	0.034	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Chromium	43	B	1.4	0.15	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Cobalt	7.7		0.55	0.055	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Copper	120		4.1	2.0	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Lead	280		1.4	0.29	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Molybdenum	0.67	J	1.4	0.18	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Nickel	36		1.4	0.14	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Selenium	0.89	J	2.8	0.41	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Silver	0.42	J	0.69	0.14	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Thallium	ND		1.4	0.40	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Vanadium	64		1.4	0.19	mg/Kg		01/12/19 09:26	01/15/19 17:29	4
Zinc	120		4.1	1.8	mg/Kg		01/12/19 09:26	01/15/19 17:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.086		0.017	0.0025	mg/Kg		01/23/19 10:47	01/23/19 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.05	%			01/11/19 14:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-V13S-7.5-8
Date Collected: 01/10/19 12:55
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-23
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		01/15/19 21:09	01/16/19 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/15/19 21:09*	*01/16/19 03:15*	*1*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*	*01/15/19 21:09*	*01/16/19 03:15*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*01/15/19 21:09*	*01/16/19 03:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Benzene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Bromoform	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Chloroform	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1

Client Sample ID: DG-V13S-7.5-8

Date Collected: 01/10/19 12:55
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-23

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Styrene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Toluene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Vinyl acetate	ND		6.3	3.1	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/15/19 21:09	01/16/19 03:15	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/15/19 21:09	01/16/19 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/15/19 21:09*	*01/16/19 03:15*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*	*01/15/19 21:09*	*01/16/19 03:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.6	4.8	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Anthracene	**3.5**	**J**	4.8	1.9	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Benzo[a]anthracene	**6.2**		4.8	1.4	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Benzo[a]pyrene	**3.0**	**J**	4.8	1.8	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Benzo[b]fluoranthene	**5.2**		4.8	2.0	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Benzo[g,h,i]perylene	ND		4.8	4.1	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Benzo[k]fluoranthene	**2.4**	**J**	4.8	2.0	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Chrysene	**6.1**		4.8	1.3	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Fluoranthene	**13**		4.8	1.3	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Fluorene	ND		4.8	2.1	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.0	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Naphthalene	ND		4.8	3.4	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Phenanthrene	**13**		4.8	1.7	ug/Kg		01/15/19 17:13	01/22/19 19:19	1
Pyrene	**8.8**		4.8	1.6	ug/Kg		01/15/19 17:13	01/22/19 19:19	1

Client Sample ID: DG-V13S-7.5-8

Date Collected: 01/10/19 12:55
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-23

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*01/15/19 17:13*	*01/22/19 19:19*	*1*
Terphenyl-d14	*80*		*35 - 146*	*01/15/19 17:13*	*01/22/19 19:19*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.7**		1.9	0.72	mg/Kg		01/17/19 11:04	01/23/19 01:36	1
Motor Oil Range Organics [C24-C36]	**22**	**J**	48	9.5	mg/Kg		01/17/19 11:04	01/23/19 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*104*		*40 - 130*	*01/17/19 11:04*	*01/23/19 01:36*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Aldrin	ND		1.9	0.47	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Endosulfan II	ND		1.9	0.46	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Endrin	ND		1.9	0.43	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Heptachlor	ND		1.9	0.43	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Methoxychlor	ND		1.9	0.64	ug/Kg		01/15/19 17:04	01/19/19 11:41	1
Toxaphene	ND		38	6.4	ug/Kg		01/15/19 17:04	01/19/19 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*01/15/19 17:04*	*01/19/19 11:41*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*01/15/19 17:04*	*01/19/19 11:41*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:10	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:10	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:10	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:10	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:10	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:10	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:10	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-V13S-7.5-8

Date Collected: 01/10/19 12:55
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-23

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*01/14/19 14:05*	*01/15/19 16:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.7	0.28	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Arsenic	6.2		3.3	0.28	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Barium	100		1.7	0.24	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Beryllium	0.66		0.33	0.11	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Cadmium	ND		0.42	0.041	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Chromium	59	B	1.7	0.18	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Cobalt	14		0.67	0.067	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Copper	28		5.0	2.4	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Lead	9.3		1.7	0.35	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Molybdenum	0.53	J	1.7	0.21	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Nickel	39		1.7	0.17	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Selenium	1.1	J	3.3	0.50	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Silver	ND		0.83	0.17	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Thallium	ND		1.7	0.48	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Vanadium	59		1.7	0.23	mg/Kg		01/12/19 09:26	01/15/19 17:34	4
Zinc	59		5.0	2.1	mg/Kg		01/12/19 09:26	01/15/19 17:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.014	0.0021	mg/Kg		01/23/19 10:47	01/23/19 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.1		0.1	0.05	%			01/11/19 14:15	1

Client Sample ID: DG-T13S-0.5-1

Date Collected: 01/10/19 13:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-24

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	46	ug/Kg		01/15/19 21:09	01/16/19 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/15/19 21:09*	*01/16/19 03:44*	*1*
4-Bromofluorobenzene (Surr)	*124*	*X*	*79 - 120*	*01/15/19 21:09*	*01/16/19 03:44*	*1*
Toluene-d8 (Surr)	*133*	*X*	*79 - 123*	*01/15/19 21:09*	*01/16/19 03:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
2-Butanone (MEK)	ND		6.6	3.3	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
2-Hexanone	ND		6.6	3.3	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Benzene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Bromobenzene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Bromoform	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Bromomethane	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Chloroethane	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Chloroform	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Chloromethane	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1

Client Sample ID: DG-T13S-0.5-1

Date Collected: 01/10/19 13:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-24

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Dibromomethane	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Naphthalene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Styrene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Toluene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Trichloroethene	ND		0.66	0.33	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Vinyl acetate	ND		5.3	2.7	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		01/15/19 21:09	01/16/19 03:44	1
Xylenes, Total	ND		1.3	0.86	ug/Kg		01/15/19 21:09	01/16/19 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*	*01/15/19 21:09*	*01/16/19 03:44*	*1*
Toluene-d8 (Surr)	*133*	*X*	*79 - 123*	*01/15/19 21:09*	*01/16/19 03:44*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**78**		50	25	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Acenaphthene	ND		25	14	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Acenaphthylene	ND		25	12	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Anthracene	**10**	**J**	25	9.9	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Benzo[a]anthracene	**8.5**	**J**	25	7.4	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Benzo[a]pyrene	**14**	**J**	25	9.4	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Benzo[b]fluoranthene	**29**		25	10	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Benzo[g,h,i]perylene	ND		25	21	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Benzo[k]fluoranthene	ND		25	10	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Chrysene	**26**		25	6.9	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Dibenz(a,h)anthracene	ND		25	17	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Fluoranthene	**20**	**J**	25	6.9	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Fluorene	ND		25	11	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Indeno[1,2,3-cd]pyrene	ND		25	21	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Naphthalene	**56**		25	17	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Phenanthrene	**43**		25	8.9	ug/Kg		01/18/19 14:16	01/22/19 07:50	5
Pyrene	**27**		25	8.4	ug/Kg		01/18/19 14:16	01/22/19 07:50	5

Client Sample ID: DG-T13S-0.5-1

Date Collected: 01/10/19 13:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*36*		*33 - 120*	*01/18/19 14:16*	*01/22/19 07:50*	*5*
Terphenyl-d14	*44*		*35 - 146*	*01/18/19 14:16*	*01/22/19 07:50*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**280**		9.7	3.6	mg/Kg		01/17/19 11:04	01/22/19 16:26	5
Motor Oil Range Organics [C24-C36]	**730**		240	49	mg/Kg		01/17/19 11:04	01/22/19 16:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/17/19 11:04*	*01/22/19 16:26*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Aldrin	ND		1.9	0.48	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Endrin	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/15/19 17:04	01/19/19 11:58	1
Toxaphene	ND		38	6.5	ug/Kg		01/15/19 17:04	01/19/19 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*21 - 136*	*01/15/19 17:04*	*01/19/19 11:58*	*1*
Tetrachloro-m-xylene	*81*		*21 - 145*	*01/15/19 17:04*	*01/19/19 11:58*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:23	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:23	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:23	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:23	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:23	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:23	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:23	1

Client Sample ID: DG-T13S-0.5-1

Date Collected: 01/10/19 13:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*01/14/19 14:05*	*01/15/19 16:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.9		1.1	0.19	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Arsenic	4.3		2.3	0.19	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Barium	80		1.1	0.16	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Beryllium	0.23		0.23	0.074	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Cadmium	0.25	J	0.28	0.028	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Chromium	20	B	1.1	0.12	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Cobalt	11		0.45	0.045	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Copper	430		3.4	1.6	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Lead	410		1.1	0.24	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Molybdenum	1.4		1.1	0.15	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Nickel	26		1.1	0.12	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Selenium	1.4	J	2.3	0.34	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Silver	ND		0.57	0.11	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Thallium	ND		1.1	0.33	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Vanadium	87		1.1	0.15	mg/Kg		01/12/19 09:26	01/15/19 17:48	4
Zinc	110		3.4	1.4	mg/Kg		01/12/19 09:26	01/15/19 17:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.015	0.0022	mg/Kg		01/23/19 10:47	01/23/19 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			01/11/19 14:15	1

Client Sample ID: DG-T13S-3.5-4

Date Collected: 01/10/19 13:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-25

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		68	47	ug/Kg		01/16/19 00:03	01/16/19 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/16/19 00:03*	*01/16/19 00:53*	*1*
4-Bromofluorobenzene (Surr)	*119*		*79 - 120*	*01/16/19 00:03*	*01/16/19 00:53*	*1*
Toluene-d8 (Surr)	*124*	*X*	*79 - 123*	*01/16/19 00:03*	*01/16/19 00:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,1,1-Trichloroethane	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	3.4	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,1,2-Trichloroethane	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,1-Dichloroethane	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,1-Dichloropropene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,2,3-Trichlorobenzene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,2,3-Trichloropropane	ND		6.8	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,2,4-Trichlorobenzene	ND		3.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,2,4-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,2-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,2-Dichloroethane	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,2-Dichloropropane	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,3,5-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,3-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,3-Dichloropropane	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
1,4-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
2,2-Dichloropropane	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
2-Butanone (MEK)	ND		6.8	3.4	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
2-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
2-Hexanone	ND		6.8	3.4	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
4-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
4-Isopropyltoluene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Benzene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Bromobenzene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Bromoform	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Bromomethane	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Carbon disulfide	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Chlorobenzene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Chlorobromomethane	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Chlorodibromomethane	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Chloroethane	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Chloroform	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Chloromethane	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
cis-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1

Client Sample ID: DG-T13S-3.5-4

Date Collected: 01/10/19 13:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-25

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Dibromomethane	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Dichlorobromomethane	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Dichlorodifluoromethane	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Ethylbenzene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Ethylene Dibromide	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Hexachlorobutadiene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Isopropylbenzene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Methyl tert-butyl ether	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Methylene Chloride	ND		6.8	3.4	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Naphthalene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
n-Butylbenzene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
N-Propylbenzene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
sec-Butylbenzene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Styrene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
tert-Butylbenzene	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Tetrachloroethene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Toluene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
trans-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
trans-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Trichloroethene	ND		0.68	0.34	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Trichlorofluoromethane	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Vinyl chloride	ND		1.4	0.68	ug/Kg		01/16/19 00:03	01/16/19 00:53	1
Xylenes, Total	ND		1.4	0.88	ug/Kg		01/16/19 00:03	01/16/19 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/16/19 00:03*	*01/16/19 00:53*	*1*
Toluene-d8 (Surr)	*124*	*X*	*79 - 123*	*01/16/19 00:03*	*01/16/19 00:53*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**5.4**	**J**	9.9	4.9	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Anthracene	**3.2**	**J**	4.9	2.0	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Benzo[a]anthracene	**10**		4.9	1.5	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Benzo[a]pyrene	**11**		4.9	1.9	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Benzo[b]fluoranthene	**15**		4.9	2.1	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Benzo[g,h,i]perylene	**13**		4.9	4.2	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Benzo[k]fluoranthene	**5.3**		4.9	2.1	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Chrysene	**14**		4.9	1.4	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Dibenz(a,h)anthracene	ND		4.9	3.5	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Fluoranthene	**27**		4.9	1.4	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Fluorene	ND		4.9	2.2	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Indeno[1,2,3-cd]pyrene	**8.5**		4.9	4.1	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Naphthalene	**5.2**		4.9	3.5	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Phenanthrene	**25**		4.9	1.8	ug/Kg		01/18/19 14:16	01/21/19 12:47	1
Pyrene	**23**		4.9	1.7	ug/Kg		01/18/19 14:16	01/21/19 12:47	1

Client Sample ID: DG-T13S-3.5-4

Date Collected: 01/10/19 13:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-25

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*01/18/19 14:16*	*01/21/19 12:47*	*1*
Terphenyl-d14	*99*		*35 - 146*	*01/18/19 14:16*	*01/21/19 12:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		1.9	0.71	mg/Kg		01/17/19 11:04	01/18/19 11:55	1
Motor Oil Range Organics [C24-C36]	27	J	47	9.5	mg/Kg		01/17/19 11:04	01/18/19 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*110*		*40 - 130*	*01/17/19 11:04*	*01/18/19 11:55*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Aldrin	ND		2.0	0.50	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Endrin	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Methoxychlor	ND	F1	2.0	0.68	ug/Kg		01/17/19 09:26	01/19/19 09:33	1
Toxaphene	ND		40	6.8	ug/Kg		01/17/19 09:26	01/19/19 09:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*21 - 136*	*01/17/19 09:26*	*01/19/19 09:33*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/17/19 09:26*	*01/19/19 09:33*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:56	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:56	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:56	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:56	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:56	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:56	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-T13S-3.5-4

Date Collected: 01/10/19 13:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-25

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*01/14/19 14:05*	*01/15/19 15:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.70**	**J F1**	1.4	0.23	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Arsenic	**2.9**		2.8	0.23	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Barium	**71**	**B F1**	1.4	0.20	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Beryllium	**0.12**	**J**	0.28	0.090	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Cadmium	ND		0.34	0.034	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Chromium	**71**	**B F1**	1.4	0.15	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Cobalt	**7.9**		0.55	0.055	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Copper	**12**		4.1	2.0	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Lead	**6.3**		1.4	0.29	mg/Kg		01/11/19 09:15	01/16/19 21:19	4
Molybdenum	**0.18**	**J**	1.4	0.18	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Nickel	**50**	**F1 F2**	1.4	0.14	mg/Kg		01/11/19 09:15	01/16/19 21:19	4
Selenium	**1.0**	**J**	2.8	0.41	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Silver	ND		0.69	0.14	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Thallium	**0.65**	**J**	1.4	0.40	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Vanadium	**46**		1.4	0.19	mg/Kg		01/11/19 09:15	01/15/19 19:56	4
Zinc	**25**		4.1	1.8	mg/Kg		01/11/19 09:15	01/15/19 19:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.016	0.0024	mg/Kg		01/23/19 10:47	01/23/19 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.3**		0.1	0.05	%			01/11/19 14:15	1

Client Sample ID: DUP-91

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-26

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		01/15/19 20:51	01/16/19 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/15/19 20:51*	*01/16/19 01:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/15/19 20:51*	*01/16/19 01:16*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/15/19 20:51*	*01/16/19 01:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Benzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Bromoform	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Chloroform	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1

Client Sample ID: DUP-91
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-26
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Styrene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Toluene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/15/19 20:51	01/16/19 01:16	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/15/19 20:51	01/16/19 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*140*	*X*	*70 - 130*	*01/15/19 20:51*	*01/16/19 01:16*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/15/19 20:51*	*01/16/19 01:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**220**		99	50	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Acenaphthene	ND		50	28	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Acenaphthylene	**25**	**J**	50	24	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Anthracene	**21**	**J**	50	20	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Benzo[a]anthracene	**21**	**J**	50	15	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Benzo[a]pyrene	**34**	**J**	50	19	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Benzo[b]fluoranthene	**56**		50	21	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Benzo[g,h,i]perylene	**74**		50	43	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Benzo[k]fluoranthene	ND		50	21	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Chrysene	**57**		50	14	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Dibenz(a,h)anthracene	ND		50	35	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Fluoranthene	**38**	**J**	50	14	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Fluorene	ND		50	22	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Indeno[1,2,3-cd]pyrene	ND		50	42	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Naphthalene	**120**		50	35	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Phenanthrene	**94**		50	18	ug/Kg		01/18/19 14:16	01/25/19 11:36	10
Pyrene	**55**		50	17	ug/Kg		01/18/19 14:16	01/25/19 11:36	10

Client Sample ID: DUP-91

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-26

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*33 - 120*	*01/18/19 14:16*	*01/25/19 11:36*	*10*
Terphenyl-d14	*100*		*35 - 146*	*01/18/19 14:16*	*01/25/19 11:36*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**530**		20	7.5	mg/Kg		01/17/19 11:04	01/22/19 15:27	10
Motor Oil Range Organics [C24-C36]	**1500**		500	100	mg/Kg		01/17/19 11:04	01/22/19 15:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/17/19 11:04*	*01/22/19 15:27*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	1.2	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
4,4'-DDE	ND		3.9	0.81	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
4,4'-DDT	ND		3.9	0.79	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Aldrin	ND		3.9	0.97	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
alpha-BHC	ND		3.9	1.1	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
alpha-Chlordane	ND		3.9	0.78	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
beta-BHC	ND		3.9	0.70	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Chlordane (technical)	ND		78	6.2	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
delta-BHC	ND		3.9	0.85	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Dieldrin	ND		3.9	1.1	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Endosulfan I	ND		3.9	0.62	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Endosulfan II	ND		3.9	0.95	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Endosulfan sulfate	ND		3.9	0.74	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Endrin	ND		3.9	0.89	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Endrin ketone	ND		3.9	0.64	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
gamma-Chlordane	ND		3.9	0.89	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Heptachlor	ND		3.9	0.89	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Heptachlor epoxide	ND		3.9	0.68	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Methoxychlor	ND		3.9	1.3	ug/Kg		01/17/19 09:26	01/24/19 13:06	2
Toxaphene	ND		78	13	ug/Kg		01/17/19 09:26	01/24/19 13:06	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*21 - 136*	*01/17/19 09:26*	*01/24/19 13:06*	*2*
Tetrachloro-m-xylene	*91*		*21 - 145*	*01/17/19 09:26*	*01/24/19 13:06*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 16:36	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 16:36	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 16:36	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 16:36	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 16:36	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 16:36	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 16:36	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DUP-91

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-26

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	72		45 - 120	01/14/19 14:05	01/15/19 16:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	15		4.6	0.77	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Arsenic	19		9.3	0.79	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Barium	120		4.6	0.66	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Beryllium	ND		0.93	0.30	mg/Kg		01/12/19 09:26	01/24/19 15:21	10
Cadmium	1.3		1.2	0.11	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Chromium	60	B	4.6	0.49	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Cobalt	25		1.9	0.19	mg/Kg		01/12/19 09:26	01/24/19 15:21	10
Copper	1300		14	6.6	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Lead	2500		4.6	0.97	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Molybdenum	6.8		4.6	0.59	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Nickel	130		4.6	0.47	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Selenium	ND		9.3	1.4	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Silver	ND		2.3	0.47	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Thallium	ND		4.6	1.3	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Vanadium	66		4.6	0.63	mg/Kg		01/12/19 09:26	01/24/19 12:32	10
Zinc	310		14	5.9	mg/Kg		01/12/19 09:26	01/24/19 12:32	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.56		0.016	0.0023	mg/Kg		01/23/19 10:47	01/23/19 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.05	%			01/11/19 14:15	1

Client Sample ID: DG-P13S-0.5-1

Date Collected: 01/10/19 13:55
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-27

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		91	64	ug/Kg		01/15/19 20:51	01/16/19 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*	*01/15/19 20:51*	*01/16/19 01:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*	*01/15/19 20:51*	*01/16/19 01:39*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/15/19 20:51*	*01/16/19 01:39*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,1,1-Trichloroethane	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.1	4.5	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,1,2-Trichloroethane	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,1-Dichloroethane	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,1-Dichloroethene	ND		1.8	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,1-Dichloropropene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,2,3-Trichlorobenzene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,2,3-Trichloropropane	ND		9.1	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,2,4-Trichlorobenzene	ND		4.5	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,2,4-Trimethylbenzene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,2-Dibromo-3-Chloropropane	ND		4.5	1.8	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,2-Dichlorobenzene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,2-Dichloroethane	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,2-Dichloropropane	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,3,5-Trimethylbenzene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,3-Dichlorobenzene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,3-Dichloropropane	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
1,4-Dichlorobenzene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
2,2-Dichloropropane	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
2-Butanone (MEK)	ND		9.1	4.5	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
2-Chlorotoluene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
2-Hexanone	ND		9.1	4.5	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
4-Chlorotoluene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
4-Isopropyltoluene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
4-Methyl-2-pentanone (MIBK)	ND		4.5	2.3	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Benzene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Bromobenzene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Bromoform	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Bromomethane	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Carbon disulfide	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Carbon tetrachloride	ND		1.8	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Chlorobenzene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Chlorobromomethane	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Chlorodibromomethane	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Chloroethane	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Chloroform	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Chloromethane	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
cis-1,2-Dichloroethene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1

Client Sample ID: DG-P13S-0.5-1
Date Collected: 01/10/19 13:55
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-27
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Dibromomethane	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Dichlorobromomethane	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Dichlorodifluoromethane	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Ethylbenzene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Ethylene Dibromide	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Hexachlorobutadiene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Isopropylbenzene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Methyl tert-butyl ether	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Methylene Chloride	ND		9.1	4.5	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Naphthalene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
n-Butylbenzene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
N-Propylbenzene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
sec-Butylbenzene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Styrene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
tert-Butylbenzene	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Tetrachloroethene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Toluene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
trans-1,2-Dichloroethene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
trans-1,3-Dichloropropene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Trichloroethene	ND		0.91	0.45	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Trichlorofluoromethane	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Vinyl acetate	ND		7.3	3.6	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Vinyl chloride	ND		1.8	0.91	ug/Kg		01/15/19 20:51	01/16/19 01:39	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/15/19 20:51	01/16/19 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*137*	*X*	*70 - 130*	*01/15/19 20:51*	*01/16/19 01:39*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/15/19 20:51*	*01/16/19 01:39*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Anthracene	ND		4.9	2.0	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Benzo[a]pyrene	**2.3**	**J**	4.9	1.9	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Benzo[b]fluoranthene	**4.0**	**J**	4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Benzo[g,h,i]perylene	ND		4.9	4.3	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Chrysene	**2.7**	**J**	4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Dibenz(a,h)anthracene	ND		4.9	3.5	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Fluoranthene	**4.0**	**J**	4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Fluorene	ND		4.9	2.2	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.2	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Naphthalene	ND		4.9	3.5	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Phenanthrene	**3.9**	**J**	4.9	1.8	ug/Kg		01/18/19 14:16	01/24/19 18:08	1
Pyrene	**3.9**	**J**	4.9	1.7	ug/Kg		01/18/19 14:16	01/24/19 18:08	1

Client Sample ID: DG-P13S-0.5-1

Date Collected: 01/10/19 13:55
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-27

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*33 - 120*	*01/18/19 14:16*	*01/24/19 18:08*	*1*
Terphenyl-d14	*112*		*35 - 146*	*01/18/19 14:16*	*01/24/19 18:08*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**25**		1.9	0.72	mg/Kg		01/17/19 11:04	01/23/19 02:34	1
Motor Oil Range Organics [C24-C36]	**89**		48	9.6	mg/Kg		01/17/19 11:04	01/23/19 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*01/17/19 11:04*	*01/23/19 02:34*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
4,4'-DDT	**9.6**		2.0	0.40	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Aldrin	ND		2.0	0.49	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Endrin	ND		2.0	0.45	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/17/19 09:26	01/24/19 13:22	1
Toxaphene	ND		39	6.7	ug/Kg		01/17/19 09:26	01/24/19 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*01/17/19 09:26*	*01/24/19 13:22*	*1*
Tetrachloro-m-xylene	*96*		*21 - 145*	*01/17/19 09:26*	*01/24/19 13:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:49	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:49	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:49	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:49	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:49	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:49	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 16:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-P13S-0.5-1

Date Collected: 01/10/19 13:55
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-27

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*01/14/19 14:05*	*01/15/19 16:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.7	0.28	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Arsenic	1.4	J	3.3	0.28	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Barium	37		1.7	0.24	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Beryllium	0.17	J	0.33	0.11	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Cadmium	0.26	J	0.42	0.041	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Chromium	18	B	1.7	0.18	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Cobalt	11		0.67	0.067	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Copper	110		5.0	2.4	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Lead	150		1.7	0.35	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Molybdenum	0.52	J	1.7	0.21	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Nickel	7.4		1.7	0.17	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Selenium	1.6	J	3.3	0.50	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Silver	ND		0.83	0.17	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Thallium	ND		1.7	0.48	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Vanadium	110		1.7	0.23	mg/Kg		01/12/19 09:26	01/15/19 17:57	4
Zinc	110		5.0	2.1	mg/Kg		01/12/19 09:26	01/15/19 17:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.015	0.0022	mg/Kg		01/23/19 10:47	01/23/19 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.6		0.1	0.05	%			01/11/19 14:15	1

Client Sample ID: DG-P13S-3.5-4
Date Collected: 01/10/19 13:57
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-28
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		60	42	ug/Kg		01/15/19 20:51	01/16/19 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*	*01/15/19 20:51*	*01/16/19 02:03*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/15/19 20:51*	*01/16/19 02:03*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/15/19 20:51*	*01/16/19 02:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,1,1-Trichloroethane	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.0	3.0	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,1,2-Trichloroethane	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,1-Dichloroethane	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,1-Dichloroethene	ND		1.2	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,1-Dichloropropene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,2,3-Trichlorobenzene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,2,3-Trichloropropane	ND		6.0	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,2,4-Trichlorobenzene	ND		3.0	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,2,4-Trimethylbenzene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,2-Dibromo-3-Chloropropane	ND		3.0	1.2	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,2-Dichlorobenzene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,2-Dichloroethane	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,2-Dichloropropane	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,3,5-Trimethylbenzene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,3-Dichlorobenzene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,3-Dichloropropane	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
1,4-Dichlorobenzene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
2,2-Dichloropropane	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
2-Butanone (MEK)	ND		6.0	3.0	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
2-Chlorotoluene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
2-Hexanone	ND		6.0	3.0	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
4-Chlorotoluene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
4-Isopropyltoluene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		3.0	1.5	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Benzene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Bromobenzene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Bromoform	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Bromomethane	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Carbon disulfide	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Carbon tetrachloride	ND		1.2	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Chlorobenzene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Chlorobromomethane	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Chlorodibromomethane	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Chloroethane	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Chloroform	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Chloromethane	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
cis-1,2-Dichloroethene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1

Client Sample ID: DG-P13S-3.5-4

Date Collected: 01/10/19 13:57
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-28

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Dibromomethane	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Dichlorobromomethane	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Dichlorodifluoromethane	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Ethylbenzene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Ethylene Dibromide	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Hexachlorobutadiene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Isopropylbenzene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Methyl tert-butyl ether	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Methylene Chloride	ND		6.0	3.0	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Naphthalene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
n-Butylbenzene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
N-Propylbenzene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
sec-Butylbenzene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Styrene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
tert-Butylbenzene	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Tetrachloroethene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Toluene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
trans-1,2-Dichloroethene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
trans-1,3-Dichloropropene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Trichloroethene	ND		0.60	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Trichlorofluoromethane	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Vinyl acetate	ND		4.8	2.4	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Vinyl chloride	ND		1.2	0.60	ug/Kg		01/15/19 20:51	01/16/19 02:03	1
Xylenes, Total	ND		1.2	0.78	ug/Kg		01/15/19 20:51	01/16/19 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*149*	*X*	*70 - 130*	*01/15/19 20:51*	*01/16/19 02:03*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/15/19 20:51*	*01/16/19 02:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**7.8**	**J**	9.8	4.9	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Acenaphthylene	**4.0**	**J**	4.9	2.3	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Anthracene	**2.7**	**J**	4.9	2.0	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Benzo[a]anthracene	**5.8**		4.9	1.5	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Benzo[a]pyrene	**11**		4.9	1.9	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Benzo[b]fluoranthene	**36**		4.9	2.0	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Benzo[g,h,i]perylene	**9.4**		4.9	4.2	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Benzo[k]fluoranthene	**6.0**		4.9	2.0	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Chrysene	**29**		4.9	1.4	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Fluoranthene	**18**		4.9	1.4	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Fluorene	ND		4.9	2.1	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Indeno[1,2,3-cd]pyrene	**6.1**		4.9	4.1	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Naphthalene	**45**		4.9	3.4	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Phenanthrene	**50**		4.9	1.8	ug/Kg		01/18/19 14:16	01/22/19 19:43	1
Pyrene	**21**		4.9	1.7	ug/Kg		01/18/19 14:16	01/22/19 19:43	1

Client Sample ID: DG-P13S-3.5-4

Date Collected: 01/10/19 13:57
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-28

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*01/18/19 14:16*	*01/22/19 19:43*	*1*
Terphenyl-d14	*100*		*35 - 146*	*01/18/19 14:16*	*01/22/19 19:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**90**		3.8	1.4	mg/Kg		01/17/19 11:04	01/22/19 15:57	2
Motor Oil Range Organics [C24-C36]	**330**		94	19	mg/Kg		01/17/19 11:04	01/22/19 15:57	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*64*		*40 - 130*	*01/17/19 11:04*	*01/22/19 15:57*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Aldrin	ND		2.0	0.50	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Endrin	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/17/19 09:26	01/24/19 13:39	1
Toxaphene	ND		40	6.8	ug/Kg		01/17/19 09:26	01/24/19 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*21 - 136*	*01/17/19 09:26*	*01/24/19 13:39*	*1*
Tetrachloro-m-xylene	*91*		*21 - 145*	*01/17/19 09:26*	*01/24/19 13:39*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:03	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:03	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:03	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:03	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:03	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:03	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:03	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-P13S-3.5-4

Date Collected: 01/10/19 13:57
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-28

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*01/14/19 14:05*	*01/15/19 17:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.6		1.7	0.27	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Arsenic	16		3.3	0.28	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Barium	72		1.7	0.23	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Beryllium	0.84		0.33	0.11	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Cadmium	2.3		0.41	0.041	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Chromium	32	B	1.7	0.18	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Cobalt	18		0.66	0.066	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Copper	300		5.0	2.4	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Lead	790		1.7	0.35	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Molybdenum	1.2	J	1.7	0.21	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Nickel	47		1.7	0.17	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Selenium	2.0	J	3.3	0.50	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Silver	ND		0.83	0.17	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Thallium	0.85	J	1.7	0.48	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Vanadium	41		1.7	0.22	mg/Kg		01/12/19 09:26	01/15/19 18:02	4
Zinc	330		5.0	2.1	mg/Kg		01/12/19 09:26	01/15/19 18:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.016	0.0023	mg/Kg		01/23/19 10:47	01/23/19 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.6		0.1	0.05	%			01/11/19 14:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DUP-90
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-29
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		59	42	ug/Kg		01/15/19 20:51	01/16/19 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/15/19 20:51*	*01/16/19 02:27*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/15/19 20:51*	*01/16/19 02:27*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/15/19 20:51*	*01/16/19 02:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,1,1-Trichloroethane	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.9	3.0	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,1,2-Trichloroethane	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,1-Dichloroethane	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,1-Dichloroethene	ND		1.2	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,1-Dichloropropene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,2,3-Trichlorobenzene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,2,3-Trichloropropane	ND		5.9	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,2,4-Trichlorobenzene	ND		3.0	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,2,4-Trimethylbenzene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,2-Dibromo-3-Chloropropane	ND		3.0	1.2	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,2-Dichlorobenzene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,2-Dichloroethane	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,2-Dichloropropane	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,3,5-Trimethylbenzene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,3-Dichlorobenzene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,3-Dichloropropane	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
1,4-Dichlorobenzene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
2,2-Dichloropropane	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
2-Butanone (MEK)	ND		5.9	3.0	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
2-Chlorotoluene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
2-Hexanone	ND		5.9	3.0	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
4-Chlorotoluene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
4-Isopropyltoluene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
4-Methyl-2-pentanone (MIBK)	ND		3.0	1.5	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Benzene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Bromobenzene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Bromoform	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Bromomethane	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Carbon disulfide	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Carbon tetrachloride	ND		1.2	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Chlorobenzene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Chlorobromomethane	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Chlorodibromomethane	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Chloroethane	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Chloroform	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Chloromethane	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
cis-1,2-Dichloroethene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1

Client Sample ID: DUP-90
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-29
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Dibromomethane	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Dichlorobromomethane	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Dichlorodifluoromethane	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Ethylbenzene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Ethylene Dibromide	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Hexachlorobutadiene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Isopropylbenzene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Methyl tert-butyl ether	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Methylene Chloride	ND		5.9	3.0	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Naphthalene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
n-Butylbenzene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
N-Propylbenzene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
sec-Butylbenzene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Styrene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
tert-Butylbenzene	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Tetrachloroethene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Toluene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
trans-1,2-Dichloroethene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
trans-1,3-Dichloropropene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Trichloroethene	ND		0.59	0.30	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Trichlorofluoromethane	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Vinyl acetate	ND		4.7	2.4	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Vinyl chloride	ND		1.2	0.59	ug/Kg		01/15/19 20:51	01/16/19 02:27	1
Xylenes, Total	ND		1.2	0.77	ug/Kg		01/15/19 20:51	01/16/19 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*139*	*X*	*70 - 130*	*01/15/19 20:51*	*01/16/19 02:27*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/15/19 20:51*	*01/16/19 02:27*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**6.2**	**J**	9.8	4.9	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Acenaphthylene	**3.8**	**J**	4.9	2.3	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Anthracene	**2.6**	**J**	4.9	2.0	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Benzo[a]anthracene	**5.3**		4.9	1.5	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Benzo[a]pyrene	**11**		4.9	1.9	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Benzo[b]fluoranthene	**36**		4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Benzo[g,h,i]perylene	**8.3**		4.9	4.2	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Benzo[k]fluoranthene	**6.8**		4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Chrysene	**26**		4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Fluoranthene	**18**		4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Fluorene	ND		4.9	2.2	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Indeno[1,2,3-cd]pyrene	**5.8**		4.9	4.1	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Naphthalene	**37**		4.9	3.4	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Phenanthrene	**42**		4.9	1.8	ug/Kg		01/18/19 14:16	01/24/19 15:46	1
Pyrene	**21**		4.9	1.7	ug/Kg		01/18/19 14:16	01/24/19 15:46	1

Client Sample ID: DUP-90

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-29

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*33 - 120*	*01/18/19 14:16*	*01/24/19 15:46*	*1*
Terphenyl-d14	*117*		*35 - 146*	*01/18/19 14:16*	*01/24/19 15:46*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22		2.0	0.74	mg/Kg		01/17/19 11:04	01/23/19 02:05	1
Motor Oil Range Organics [C24-C36]	70		49	9.9	mg/Kg		01/17/19 11:04	01/23/19 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*40 - 130*	*01/17/19 11:04*	*01/23/19 02:05*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Aldrin	ND		1.9	0.47	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Endosulfan II	ND		1.9	0.46	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Endrin	ND		1.9	0.43	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Endrin aldehyde	ND		1.9	0.59	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
gamma-BHC (Lindane)	ND		1.9	0.59	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Heptachlor	ND		1.9	0.43	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Methoxychlor	ND		1.9	0.64	ug/Kg		01/17/19 09:26	01/24/19 13:29	1
Toxaphene	ND		38	6.4	ug/Kg		01/17/19 09:26	01/24/19 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*21 - 136*	*01/17/19 09:26*	*01/24/19 13:29*	*1*
Tetrachloro-m-xylene	*89*		*21 - 145*	*01/17/19 09:26*	*01/24/19 13:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:16	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:16	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:16	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:16	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:16	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:16	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:16	1

Client Sample ID: DUP-90

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-29

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*01/14/19 14:05*	*01/15/19 17:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.0		1.4	0.23	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Arsenic	15		2.7	0.23	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Barium	53		1.4	0.19	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Beryllium	0.87		0.27	0.089	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Cadmium	0.72		0.34	0.034	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Chromium	37	B	1.4	0.15	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Cobalt	16		0.55	0.055	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Copper	150		4.1	2.0	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Lead	200		1.4	0.29	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Molybdenum	1.1	J	1.4	0.18	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Nickel	46		1.4	0.14	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Selenium	2.5	J	2.7	0.41	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Silver	ND		0.68	0.14	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Thallium	ND		1.4	0.40	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Vanadium	43		1.4	0.19	mg/Kg		01/12/19 09:26	01/15/19 18:07	4
Zinc	310		4.1	1.7	mg/Kg		01/12/19 09:26	01/15/19 18:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.079		0.015	0.0023	mg/Kg		01/23/19 10:47	01/23/19 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.05	%			01/11/19 14:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-N13S-0.5-1
Date Collected: 01/10/19 14:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-30
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	53	ug/Kg		01/15/19 20:51	01/16/19 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/15/19 20:51*	*01/16/19 02:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/15/19 20:51*	*01/16/19 02:51*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/15/19 20:51*	*01/16/19 02:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,2,3-Trichlorobenzene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,2,3-Trichloropropane	ND		7.6	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,2,4-Trichlorobenzene	ND		3.8	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,2,4-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,2-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,3,5-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,3-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
1,4-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
2,2-Dichloropropane	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
2-Butanone (MEK)	ND		7.6	3.8	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
2-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
2-Hexanone	ND		7.6	3.8	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
4-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
4-Isopropyltoluene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Benzene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Bromobenzene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Bromoform	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Bromomethane	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Chloroethane	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Chloroform	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Chloromethane	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1

Client Sample ID: DG-N13S-0.5-1

Date Collected: 01/10/19 14:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-30

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Dibromomethane	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Hexachlorobutadiene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Naphthalene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
n-Butylbenzene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
N-Propylbenzene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
sec-Butylbenzene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Styrene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
tert-Butylbenzene	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Toluene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Trichloroethene	ND		0.76	0.38	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		01/15/19 20:51	01/16/19 02:51	1
Xylenes, Total	ND		1.5	0.99	ug/Kg		01/15/19 20:51	01/16/19 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*135*	*X*	*70 - 130*	*01/15/19 20:51*	*01/16/19 02:51*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/15/19 20:51*	*01/16/19 02:51*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**10**	**J**	20	9.8	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Acenaphthene	ND		9.8	5.5	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Acenaphthylene	**22**		9.8	4.7	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Anthracene	**49**		9.8	3.9	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Benzo[a]anthracene	**62**		9.8	2.9	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Benzo[a]pyrene	**140**		9.8	3.7	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Benzo[b]fluoranthene	**180**		9.8	4.1	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Benzo[g,h,i]perylene	**83**		9.8	8.4	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Benzo[k]fluoranthene	**61**		9.8	4.1	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Chrysene	**87**		9.8	2.7	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Dibenz(a,h)anthracene	**11**		9.8	6.9	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Fluoranthene	**170**		9.8	2.7	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Fluorene	ND		9.8	4.3	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Indeno[1,2,3-cd]pyrene	**64**		9.8	8.2	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Naphthalene	**22**		9.8	6.9	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Phenanthrene	**59**		9.8	3.5	ug/Kg		01/18/19 14:16	01/24/19 14:59	2
Pyrene	**230**		9.8	3.3	ug/Kg		01/18/19 14:16	01/24/19 14:59	2

Client Sample ID: DG-N13S-0.5-1

Date Collected: 01/10/19 14:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-30

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		33 - 120	01/18/19 14:16	01/24/19 14:59	2
Terphenyl-d14	99		35 - 146	01/18/19 14:16	01/24/19 14:59	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**59**		1.9	0.71	mg/Kg		01/17/19 11:04	01/23/19 03:03	1
Motor Oil Range Organics [C24-C36]	**170**		47	9.4	mg/Kg		01/17/19 11:04	01/23/19 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	79		40 - 130	01/17/19 11:04	01/23/19 03:03	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
4,4'-DDT	**1.4**	**J**	2.0	0.41	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Aldrin	ND		2.0	0.50	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
alpha-Chlordane	**0.68**	**J**	2.0	0.40	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Endrin	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/17/19 09:26	01/24/19 13:45	1
Toxaphene	ND		40	6.8	ug/Kg		01/17/19 09:26	01/24/19 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		21 - 136	01/17/19 09:26	01/24/19 13:45	1
Tetrachloro-m-xylene	84		21 - 145	01/17/19 09:26	01/24/19 13:45	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:29	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:29	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:29	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:29	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:29	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:29	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 17:29	1

Client Sample ID: DG-N13S-0.5-1

Date Collected: 01/10/19 14:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-30

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*01/14/19 14:05*	*01/15/19 17:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.7	0.28	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Arsenic	3.3	J	3.4	0.29	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Barium	120		1.7	0.24	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Beryllium	0.30	J	0.34	0.11	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Cadmium	0.18	J	0.42	0.042	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Chromium	15	B	1.7	0.18	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Cobalt	13		0.68	0.068	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Copper	93		5.1	2.4	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Lead	58		1.7	0.36	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Molybdenum	0.53	J	1.7	0.22	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Nickel	15		1.7	0.17	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Selenium	1.3	J	3.4	0.51	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Silver	ND		0.85	0.17	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Thallium	ND		1.7	0.49	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Vanadium	97		1.7	0.23	mg/Kg		01/12/19 09:26	01/15/19 18:12	4
Zinc	90		5.1	2.2	mg/Kg		01/12/19 09:26	01/15/19 18:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.079		0.016	0.0024	mg/Kg		01/23/19 10:47	01/23/19 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			01/11/19 14:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-N13S-3.5-4
Date Collected: 01/10/19 14:17
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-31
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		130	91	ug/Kg		01/11/19 10:40	01/17/19 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/11/19 10:40*	*01/17/19 21:16*	*1*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*	*01/11/19 10:40*	*01/17/19 21:16*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*01/11/19 10:40*	*01/17/19 21:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	F2	2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,1,1-Trichloroethane	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,1,2,2-Tetrachloroethane	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13	6.5	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,1,2-Trichloroethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,1-Dichloroethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,1-Dichloroethene	ND		2.6	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,1-Dichloropropene	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,2,3-Trichlorobenzene	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,2,3-Trichloropropane	ND		13	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,2,4-Trichlorobenzene	ND		6.5	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,2,4-Trimethylbenzene	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,2-Dibromo-3-Chloropropane	ND		6.5	2.6	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,2-Dichlorobenzene	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,2-Dichloroethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,2-Dichloropropane	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,3,5-Trimethylbenzene	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,3-Dichlorobenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,3-Dichloropropane	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
1,4-Dichlorobenzene	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
2,2-Dichloropropane	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
2-Butanone (MEK)	ND		13	6.5	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
2-Chlorotoluene	ND	F2	2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
2-Hexanone	ND		13	6.5	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
4-Chlorotoluene	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
4-Isopropyltoluene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
4-Methyl-2-pentanone (MIBK)	ND		6.5	3.2	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Benzene	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Bromobenzene	ND	F2	2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Bromoform	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Bromomethane	ND	F2	2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Carbon disulfide	ND	F2	2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Carbon tetrachloride	ND		2.6	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Chlorobenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Chlorobromomethane	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Chlorodibromomethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Chloroethane	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Chloroform	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Chloromethane	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
cis-1,2-Dichloroethene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1

Client Sample ID: DG-N13S-3.5-4

Date Collected: 01/10/19 14:17
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-31

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Dibromomethane	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Dichlorobromomethane	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Dichlorodifluoromethane	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Ethylbenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Ethylene Dibromide	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Hexachlorobutadiene	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Isopropylbenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Methyl tert-butyl ether	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Methylene Chloride	ND		13	6.5	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Naphthalene	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
n-Butylbenzene	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
N-Propylbenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
sec-Butylbenzene	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Styrene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
tert-Butylbenzene	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Tetrachloroethene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Toluene	ND	F2	1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
trans-1,2-Dichloroethene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
trans-1,3-Dichloropropene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Trichloroethene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Trichlorofluoromethane	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Vinyl acetate	ND		10	5.2	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Vinyl chloride	ND		2.6	1.3	ug/Kg		01/11/19 10:40	01/17/19 21:16	1
Xylenes, Total	ND		2.6	1.7	ug/Kg		01/11/19 10:40	01/17/19 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*01/11/19 10:40*	*01/17/19 21:16*	*1*
Toluene-d8 (Surr)	*115*		*79 - 123*	*01/11/19 10:40*	*01/17/19 21:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**190**		9.9	4.9	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Acenaphthene	**8.7**		4.9	2.8	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Acenaphthylene	**2.9**	**J**	4.9	2.4	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Anthracene	**12**		4.9	2.0	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Benzo[a]anthracene	**8.7**		4.9	1.5	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Benzo[a]pyrene	**8.1**		4.9	1.9	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Benzo[b]fluoranthene	**14**		4.9	2.1	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Benzo[g,h,i]perylene	**8.5**		4.9	4.3	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Benzo[k]fluoranthene	**2.1**	**J**	4.9	2.1	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Chrysene	**30**		4.9	1.4	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Dibenz(a,h)anthracene	**3.6**	**J**	4.9	3.5	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Fluoranthene	**15**		4.9	1.4	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Fluorene	**54**		4.9	2.2	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.2	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Naphthalene	**79**		4.9	3.5	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Phenanthrene	**160**		4.9	1.8	ug/Kg		01/18/19 14:16	01/21/19 13:11	1
Pyrene	**27**		4.9	1.7	ug/Kg		01/18/19 14:16	01/21/19 13:11	1

Client Sample ID: DG-N13S-3.5-4

Date Collected: 01/10/19 14:17
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-31

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*01/18/19 14:16*	*01/21/19 13:11*	*1*
Terphenyl-d14	*100*		*35 - 146*	*01/18/19 14:16*	*01/21/19 13:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		1.9	0.72	mg/Kg		01/17/19 11:04	01/21/19 23:04	1
Motor Oil Range Organics [C24-C36]	**15**	**J**	48	9.5	mg/Kg		01/17/19 11:04	01/21/19 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*113*		*40 - 130*	*01/17/19 11:04*	*01/21/19 23:04*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**1.6**	**J p F1**	1.9	0.59	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Aldrin	ND		1.9	0.48	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
beta-BHC	ND	F1 F2	1.9	0.35	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
delta-BHC	ND	F1 F2	1.9	0.43	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Dieldrin	ND	F2	1.9	0.57	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Endosulfan II	ND	F1	1.9	0.47	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Endrin	ND		1.9	0.45	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Endrin aldehyde	ND	* F1	1.9	0.61	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Heptachlor	ND	F1 F2	1.9	0.45	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/17/19 09:43	01/24/19 10:06	1
Toxaphene	ND		39	6.6	ug/Kg		01/17/19 09:43	01/24/19 10:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*21 - 136*	*01/17/19 09:43*	*01/24/19 10:06*	*1*
Tetrachloro-m-xylene	*98*		*21 - 145*	*01/17/19 09:43*	*01/24/19 10:06*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:21	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:21	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:21	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:21	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:21	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:21	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:13	01/16/19 13:21	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-N13S-3.5-4

Date Collected: 01/10/19 14:17
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-31

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*01/14/19 14:13*	*01/16/19 13:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.59**	**J F1**	1.8	0.29	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Arsenic	**2.8**	**J F1**	3.5	0.30	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Barium	**50**	**F1**	1.8	0.25	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Beryllium	**0.23**	**J F1**	0.35	0.12	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Cadmium	ND		0.44	0.044	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Chromium	**130**	**B F1**	1.8	0.19	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Cobalt	**25**		0.71	0.071	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Copper	**35**	**F1**	5.3	2.5	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Lead	**7.9**		1.8	0.37	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Molybdenum	**0.79**	**J**	1.8	0.23	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Nickel	**120**	**F1**	1.8	0.18	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Selenium	**1.4**	**J**	3.5	0.53	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Silver	ND		0.88	0.18	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Thallium	ND		1.8	0.51	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Vanadium	**74**	**F1**	1.8	0.24	mg/Kg		01/12/19 09:26	01/15/19 17:20	4
Zinc	**57**	**F1**	5.3	2.2	mg/Kg		01/12/19 09:26	01/15/19 17:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.017	0.0025	mg/Kg		01/23/19 10:47	01/23/19 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.05	%			01/11/19 14:15	1

Client Sample ID: DG-N13S-7.5-8
Date Collected: 01/10/19 14:20
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-32
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		120	83	ug/Kg		01/11/19 10:40	01/17/19 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/11/19 10:40*	*01/17/19 21:43*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/11/19 10:40*	*01/17/19 21:43*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*01/11/19 10:40*	*01/17/19 21:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,1,1-Trichloroethane	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,1,2,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	5.9	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,1,2-Trichloroethane	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,1-Dichloroethane	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,1-Dichloroethene	ND		2.4	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,1-Dichloropropene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,2,3-Trichlorobenzene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,2,3-Trichloropropane	ND		12	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,2,4-Trichlorobenzene	ND		5.9	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,2,4-Trimethylbenzene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,2-Dibromo-3-Chloropropane	ND		5.9	2.4	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,2-Dichlorobenzene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,2-Dichloroethane	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,2-Dichloropropane	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,3,5-Trimethylbenzene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,3-Dichlorobenzene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,3-Dichloropropane	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
1,4-Dichlorobenzene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
2,2-Dichloropropane	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
2-Butanone (MEK)	ND		12	5.9	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
2-Chlorotoluene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
2-Hexanone	ND		12	5.9	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
4-Chlorotoluene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
4-Isopropyltoluene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.9	3.0	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Benzene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Bromobenzene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Bromoform	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Bromomethane	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Carbon disulfide	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Carbon tetrachloride	ND		2.4	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Chlorobenzene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Chlorobromomethane	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Chlorodibromomethane	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Chloroethane	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Chloroform	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Chloromethane	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
cis-1,2-Dichloroethene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1

Client Sample ID: DG-N13S-7.5-8
Date Collected: 01/10/19 14:20
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-32
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Dibromomethane	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Dichlorobromomethane	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Dichlorodifluoromethane	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Ethylbenzene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Ethylene Dibromide	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Hexachlorobutadiene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Isopropylbenzene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Methyl tert-butyl ether	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Methylene Chloride	ND		12	5.9	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Naphthalene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
n-Butylbenzene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
N-Propylbenzene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
sec-Butylbenzene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Styrene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
tert-Butylbenzene	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Tetrachloroethene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Toluene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
trans-1,2-Dichloroethene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
trans-1,3-Dichloropropene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Trichloroethene	ND		1.2	0.59	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Trichlorofluoromethane	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Vinyl acetate	ND		9.5	4.8	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Vinyl chloride	ND		2.4	1.2	ug/Kg		01/11/19 10:40	01/17/19 21:43	1
Xylenes, Total	ND		2.4	1.5	ug/Kg		01/11/19 10:40	01/17/19 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*01/11/19 10:40*	*01/17/19 21:43*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*01/11/19 10:40*	*01/17/19 21:43*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Anthracene	ND		4.9	2.0	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Benzo[a]pyrene	ND		4.9	1.9	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Benzo[b]fluoranthene	ND		4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Chrysene	ND		4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Fluoranthene	ND		4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Fluorene	ND		4.9	2.2	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Phenanthrene	ND		4.9	1.8	ug/Kg		01/18/19 14:16	01/24/19 16:10	1
Pyrene	ND		4.9	1.7	ug/Kg		01/18/19 14:16	01/24/19 16:10	1

Client Sample ID: DG-N13S-7.5-8

Date Collected: 01/10/19 14:20
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-32

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		33 - 120	01/18/19 14:16	01/24/19 16:10	1
Terphenyl-d14	107		35 - 146	01/18/19 14:16	01/24/19 16:10	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.3**	**J**	2.0	0.73	mg/Kg		01/17/19 11:04	01/22/19 13:31	1
Motor Oil Range Organics [C24-C36]	ND		49	9.8	mg/Kg		01/17/19 11:04	01/22/19 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	90		40 - 130	01/17/19 11:04	01/22/19 13:31	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Aldrin	ND		2.0	0.50	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Endrin	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/17/19 09:26	01/24/19 14:02	1
Toxaphene	ND		40	6.8	ug/Kg		01/17/19 09:26	01/24/19 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		21 - 136	01/17/19 09:26	01/24/19 14:02	1
Tetrachloro-m-xylene	86		21 - 145	01/17/19 09:26	01/24/19 14:02	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:43	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:43	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:43	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:43	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:43	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:43	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:43	1

Client Sample ID: DG-N13S-7.5-8

Date Collected: 01/10/19 14:20
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-32

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*	*01/14/19 14:05*	*01/15/19 17:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.22	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Arsenic	**3.8**		2.6	0.22	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Barium	**29**		1.3	0.19	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Beryllium	**0.30**		0.26	0.085	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Cadmium	ND		0.33	0.032	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Chromium	**50**	**B**	1.3	0.14	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Cobalt	**8.1**		0.52	0.052	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Copper	**5.2**		3.9	1.9	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Lead	**2.3**		1.3	0.27	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Molybdenum	**0.39**	**J**	1.3	0.17	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Nickel	**21**		1.3	0.13	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Selenium	ND		2.6	0.39	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Silver	ND		0.65	0.13	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Thallium	ND		1.3	0.38	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Vanadium	**36**		1.3	0.18	mg/Kg		01/12/19 09:26	01/15/19 18:16	4
Zinc	**14**		3.9	1.7	mg/Kg		01/12/19 09:26	01/15/19 18:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.016	0.0024	mg/Kg		01/23/19 10:47	01/23/19 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.6**		0.1	0.05	%			01/11/19 14:15	1

Client Sample ID: DUP-89

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-33

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		120	86	ug/Kg		01/11/19 10:40	01/17/19 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*60 - 120*	*01/11/19 10:40*	*01/17/19 22:09*	*1*
4-Bromofluorobenzene (Surr)	*123*	** X*	*79 - 120*	*01/11/19 10:40*	*01/17/19 22:09*	*1*
Toluene-d8 (Surr)	*120*		*79 - 123*	*01/11/19 10:40*	*01/17/19 22:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,1,1-Trichloroethane	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,1,2,2-Tetrachloroethane	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	6.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,1,2-Trichloroethane	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,1-Dichloroethane	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,1-Dichloroethene	ND		2.5	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,1-Dichloropropene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,2,3-Trichlorobenzene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,2,3-Trichloropropane	ND	*	12	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,2,4-Trichlorobenzene	ND	*	6.2	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,2,4-Trimethylbenzene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,2-Dibromo-3-Chloropropane	ND	*	6.2	2.5	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,2-Dichlorobenzene	ND	*	1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,2-Dichloroethane	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,2-Dichloropropane	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,3,5-Trimethylbenzene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,3-Dichlorobenzene	ND	*	1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,3-Dichloropropane	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
1,4-Dichlorobenzene	ND	*	1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
2,2-Dichloropropane	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
2-Butanone (MEK)	ND		12	6.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
2-Chlorotoluene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
2-Hexanone	ND		12	6.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
4-Chlorotoluene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
4-Isopropyltoluene	ND	*	1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
4-Methyl-2-pentanone (MIBK)	ND		6.2	3.1	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Benzene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Bromobenzene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Bromoform	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Bromomethane	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Carbon disulfide	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Carbon tetrachloride	ND		2.5	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Chlorobenzene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Chlorobromomethane	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Chlorodibromomethane	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Chloroethane	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Chloroform	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Chloromethane	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
cis-1,2-Dichloroethene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1

Client Sample ID: DUP-89
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-33
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Dibromomethane	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Dichlorobromomethane	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Dichlorodifluoromethane	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Ethylbenzene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Ethylene Dibromide	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Hexachlorobutadiene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Isopropylbenzene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Methyl tert-butyl ether	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Methylene Chloride	ND		12	6.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Naphthalene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
n-Butylbenzene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
N-Propylbenzene	ND	*	1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
sec-Butylbenzene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Styrene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
tert-Butylbenzene	ND	*	2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Tetrachloroethene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Toluene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
trans-1,2-Dichloroethene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
trans-1,3-Dichloropropene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Trichloroethene	ND		1.2	0.62	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Trichlorofluoromethane	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Vinyl acetate	ND		9.9	4.9	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Vinyl chloride	ND		2.5	1.2	ug/Kg		01/11/19 10:40	01/17/19 22:09	1
Xylenes, Total	ND		2.5	1.6	ug/Kg		01/11/19 10:40	01/17/19 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*	*01/11/19 10:40*	*01/17/19 22:09*	*1*
Toluene-d8 (Surr)	*120*		*79 - 123*	*01/11/19 10:40*	*01/17/19 22:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**23**		20	9.8	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Acenaphthene	ND		9.8	5.5	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Acenaphthylene	**18**		9.8	4.7	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Anthracene	**48**		9.8	3.9	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Benzo[a]anthracene	**37**		9.8	2.9	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Benzo[a]pyrene	**80**		9.8	3.7	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Benzo[b]fluoranthene	**100**		9.8	4.1	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Benzo[g,h,i]perylene	**72**		9.8	8.4	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Benzo[k]fluoranthene	**35**		9.8	4.1	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Chrysene	**63**		9.8	2.7	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Dibenz(a,h)anthracene	**9.5**	**J**	9.8	6.8	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Fluoranthene	**100**		9.8	2.7	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Fluorene	ND		9.8	4.3	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Indeno[1,2,3-cd]pyrene	**50**		9.8	8.2	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Naphthalene	**27**		9.8	6.8	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Phenanthrene	**50**		9.8	3.5	ug/Kg		01/18/19 14:16	01/25/19 11:59	2
Pyrene	**120**		9.8	3.3	ug/Kg		01/18/19 14:16	01/25/19 11:59	2

Client Sample ID: DUP-89

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-33

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*33 - 120*	*01/18/19 14:16*	*01/25/19 11:59*	*2*
Terphenyl-d14	*95*		*35 - 146*	*01/18/19 14:16*	*01/25/19 11:59*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**57**		2.0	0.74	mg/Kg		01/17/19 11:04	01/23/19 03:33	1
Motor Oil Range Organics [C24-C36]	**160**		50	9.9	mg/Kg		01/17/19 11:04	01/23/19 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*82*		*40 - 130*	*01/17/19 11:04*	*01/23/19 03:33*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
4,4'-DDT	**0.44**	**J p**	1.9	0.39	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Aldrin	ND		1.9	0.47	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Endosulfan II	ND		1.9	0.46	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Endrin	ND		1.9	0.43	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Endrin aldehyde	ND		1.9	0.59	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
gamma-BHC (Lindane)	ND		1.9	0.59	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
gamma-Chlordane	ND		1.9	0.43	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Heptachlor	ND		1.9	0.43	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Methoxychlor	ND		1.9	0.64	ug/Kg		01/17/19 09:26	01/24/19 14:19	1
Toxaphene	ND		38	6.4	ug/Kg		01/17/19 09:26	01/24/19 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*21 - 136*	*01/17/19 09:26*	*01/24/19 14:19*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/17/19 09:26*	*01/24/19 14:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:56	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:56	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:56	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:56	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:56	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:56	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 17:56	1

Client Sample ID: DUP-89

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-33

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*01/14/19 14:05*	*01/15/19 17:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	J	1.9	0.32	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Arsenic	6.7		3.8	0.33	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Barium	150		1.9	0.27	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Beryllium	0.55		0.38	0.13	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Cadmium	0.40	J	0.48	0.048	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Chromium	21	B	1.9	0.20	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Cobalt	14		0.77	0.077	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Copper	79		5.8	2.7	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Lead	95		1.9	0.40	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Molybdenum	0.75	J	1.9	0.25	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Nickel	27		1.9	0.20	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Selenium	2.7	J	3.8	0.58	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Silver	ND		0.96	0.19	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Thallium	ND		1.9	0.56	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Vanadium	73		1.9	0.26	mg/Kg		01/12/19 09:26	01/15/19 18:21	4
Zinc	140		5.8	2.4	mg/Kg		01/12/19 09:26	01/15/19 18:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		0.015	0.0022	mg/Kg		01/23/19 10:47	01/23/19 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.05	%			01/11/19 14:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-O15S-0.5-1
Date Collected: 01/10/19 15:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-34
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		140	100	ug/Kg		01/11/19 10:40	01/17/19 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/11/19 10:40*	*01/17/19 22:36*	*1*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*	*01/11/19 10:40*	*01/17/19 22:36*	*1*
Toluene-d8 (Surr)	*113*		*79 - 123*	*01/11/19 10:40*	*01/17/19 22:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	F2	2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,1,1-Trichloroethane	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,1,2,2-Tetrachloroethane	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14	7.2	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,1,2-Trichloroethane	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,1-Dichloroethane	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,1-Dichloroethene	ND		2.9	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,1-Dichloropropene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,2,3-Trichlorobenzene	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,2,3-Trichloropropane	ND		14	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,2,4-Trichlorobenzene	ND		7.2	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,2,4-Trimethylbenzene	ND	F2	2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,2-Dibromo-3-Chloropropane	ND		7.2	2.9	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,2-Dichlorobenzene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,2-Dichloroethane	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,2-Dichloropropane	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,3,5-Trimethylbenzene	ND	F2	2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,3-Dichlorobenzene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,3-Dichloropropane	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
1,4-Dichlorobenzene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
2,2-Dichloropropane	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
2-Butanone (MEK)	ND		14	7.2	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
2-Chlorotoluene	ND	F2	2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
2-Hexanone	ND		14	7.2	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
4-Chlorotoluene	ND	F2	2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
4-Isopropyltoluene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
4-Methyl-2-pentanone (MIBK)	ND		7.2	3.6	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Benzene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Bromobenzene	ND	F2	2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Bromoform	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Bromomethane	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Carbon disulfide	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Carbon tetrachloride	ND		2.9	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Chlorobenzene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Chlorobromomethane	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Chlorodibromomethane	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Chloroethane	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Chloroform	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Chloromethane	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
cis-1,2-Dichloroethene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1

Client Sample ID: DG-O15S-0.5-1
Date Collected: 01/10/19 15:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-34
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Dibromomethane	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Dichlorobromomethane	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Dichlorodifluoromethane	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Ethylbenzene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Ethylene Dibromide	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Hexachlorobutadiene	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Isopropylbenzene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Methyl tert-butyl ether	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Methylene Chloride	ND		14	7.2	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Naphthalene	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
n-Butylbenzene	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
N-Propylbenzene	ND	F2	1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
sec-Butylbenzene	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Styrene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
tert-Butylbenzene	ND	F2	2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Tetrachloroethene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Toluene	ND	F2	1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
trans-1,2-Dichloroethene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
trans-1,3-Dichloropropene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Trichloroethene	ND		1.4	0.72	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Trichlorofluoromethane	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Vinyl acetate	ND		11	5.7	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Vinyl chloride	ND		2.9	1.4	ug/Kg		01/11/19 10:40	01/17/19 22:36	1
Xylenes, Total	ND		2.9	1.9	ug/Kg		01/11/19 10:40	01/17/19 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/11/19 10:40*	*01/17/19 22:36*	*1*
Toluene-d8 (Surr)	*113*		*79 - 123*	*01/11/19 10:40*	*01/17/19 22:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**9.3**	**J**	9.9	4.9	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Acenaphthene	**2.8**	**J**	4.9	2.8	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Acenaphthylene	**5.0**		4.9	2.4	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Anthracene	**3.1**	**J**	4.9	2.0	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Benzo[a]anthracene	**7.4**		4.9	1.5	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Benzo[a]pyrene	**9.9**		4.9	1.9	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Benzo[b]fluoranthene	**16**		4.9	2.1	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Benzo[g,h,i]perylene	**9.0**		4.9	4.2	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Benzo[k]fluoranthene	**5.6**		4.9	2.1	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Chrysene	**15**		4.9	1.4	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Fluoranthene	**16**		4.9	1.4	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Fluorene	**3.0**	**J**	4.9	2.2	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Indeno[1,2,3-cd]pyrene	**7.1**		4.9	4.1	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Naphthalene	**11**		4.9	3.4	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Phenanthrene	**21**		4.9	1.8	ug/Kg		01/18/19 14:16	01/21/19 15:08	1
Pyrene	**22**		4.9	1.7	ug/Kg		01/18/19 14:16	01/21/19 15:08	1

Client Sample ID: DG-O15S-0.5-1

Date Collected: 01/10/19 15:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-34

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		33 - 120	01/18/19 14:16	01/21/19 15:08	1
Terphenyl-d14	103		35 - 146	01/18/19 14:16	01/21/19 15:08	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**65**		2.0	0.74	mg/Kg		01/18/19 10:21	01/21/19 12:58	1
Motor Oil Range Organics [C24-C36]	**120**		49	9.9	mg/Kg		01/18/19 10:21	01/21/19 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	82		40 - 130	01/18/19 10:21	01/21/19 12:58	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.62**	**J p F1**	1.9	0.58	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Aldrin	ND		1.9	0.47	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Endosulfan II	ND	F1	1.9	0.46	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Endrin	ND		1.9	0.44	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Endrin aldehyde	ND	*	1.9	0.60	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Methoxychlor	ND		1.9	0.64	ug/Kg		01/17/19 09:43	01/24/19 10:55	1
Toxaphene	ND		38	6.4	ug/Kg		01/17/19 09:43	01/24/19 10:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		21 - 136	01/17/19 09:43	01/24/19 10:55	1
Tetrachloro-m-xylene	91		21 - 145	01/17/19 09:43	01/24/19 10:55	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:00	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:00	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:00	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:00	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:00	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:00	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 16:00	1

Client Sample ID: DG-O15S-0.5-1
Date Collected: 01/10/19 15:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-34
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*	*01/14/19 14:16*	*01/16/19 16:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.4**		1.8	0.29	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Arsenic	**75**		3.5	0.30	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Barium	**170**	**F1**	1.8	0.25	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Beryllium	**0.37**	**F1**	0.35	0.11	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Cadmium	**0.044**	**J**	0.44	0.044	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Chromium	**210**	**B**	1.8	0.19	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Cobalt	**29**		0.70	0.070	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Copper	**34**	**F1**	5.3	2.5	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Lead	**11**		1.8	0.37	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Molybdenum	**0.53**	**J**	1.8	0.22	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Nickel	**300**		1.8	0.18	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Selenium	**1.5**	**J**	3.5	0.53	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Silver	ND		0.88	0.18	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Thallium	ND		1.8	0.51	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Vanadium	**81**	**F1**	1.8	0.24	mg/Kg		01/12/19 09:26	01/15/19 18:44	4
Zinc	**62**		5.3	2.2	mg/Kg		01/12/19 09:26	01/15/19 18:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**		1.5	0.21	mg/Kg		01/17/19 19:30	01/18/19 15:15	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.05	%			01/11/19 14:15	1

Client Sample ID: DG-O15S-3.5-4

Date Collected: 01/10/19 15:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-35

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	46	ug/Kg		01/11/19 10:40	01/17/19 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/11/19 10:40*	*01/17/19 17:53*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/11/19 10:40*	*01/17/19 17:53*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*01/11/19 10:40*	*01/17/19 17:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
2-Butanone (MEK)	**10**		6.6	3.3	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
2-Hexanone	ND		6.6	3.3	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Benzene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Bromobenzene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Bromoform	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Bromomethane	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Chloroethane	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Chloroform	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Chloromethane	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1

Client Sample ID: DG-O15S-3.5-4

Date Collected: 01/10/19 15:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-35

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Dibromomethane	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Naphthalene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Styrene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Toluene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Trichloroethene	ND		0.66	0.33	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Vinyl acetate	ND		5.3	2.6	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		01/11/19 10:40	01/17/19 17:53	1
Xylenes, Total	ND		1.3	0.86	ug/Kg		01/11/19 10:40	01/17/19 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*01/11/19 10:40*	*01/17/19 17:53*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*01/11/19 10:40*	*01/17/19 17:53*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**9.1**	**J**	9.7	4.9	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Acenaphthylene	ND		4.9	2.3	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Anthracene	ND		4.9	1.9	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Benzo[a]anthracene	**3.0**	**J**	4.9	1.5	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Benzo[a]pyrene	**5.1**		4.9	1.8	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Benzo[b]fluoranthene	**8.3**		4.9	2.0	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Benzo[k]fluoranthene	**3.1**	**J**	4.9	2.0	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Chrysene	**5.5**		4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Fluoranthene	**6.8**		4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Fluorene	ND		4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Naphthalene	**6.0**		4.9	3.4	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Phenanthrene	**6.4**		4.9	1.7	ug/Kg		01/18/19 14:16	01/24/19 16:34	1
Pyrene	**7.9**		4.9	1.7	ug/Kg		01/18/19 14:16	01/24/19 16:34	1

Client Sample ID: DG-O15S-3.5-4

Date Collected: 01/10/19 15:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-35

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*33 - 120*	*01/18/19 14:16*	*01/24/19 16:34*	*1*
Terphenyl-d14	*106*		*35 - 146*	*01/18/19 14:16*	*01/24/19 16:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8.3		1.9	0.73	mg/Kg		01/17/19 11:04	01/22/19 14:00	1
Motor Oil Range Organics [C24-C36]	30	J	48	9.7	mg/Kg		01/17/19 11:04	01/22/19 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*91*		*40 - 130*	*01/17/19 11:04*	*01/22/19 14:00*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Aldrin	ND		1.9	0.48	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Endrin	ND		1.9	0.44	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/17/19 09:26	01/24/19 14:36	1
Toxaphene	ND		39	6.6	ug/Kg		01/17/19 09:26	01/24/19 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*01/17/19 09:26*	*01/24/19 14:36*	*1*
Tetrachloro-m-xylene	*89*		*21 - 145*	*01/17/19 09:26*	*01/24/19 14:36*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 18:09	1
Aroclor 1221	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 18:09	1
Aroclor 1232	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 18:09	1
Aroclor 1242	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 18:09	1
Aroclor 1248	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 18:09	1
Aroclor 1254	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 18:09	1
Aroclor 1260	ND		49	17	ug/Kg		01/14/19 14:05	01/15/19 18:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-O15S-3.5-4

Date Collected: 01/10/19 15:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-35

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*	*01/14/19 14:05*	*01/15/19 18:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.2	0.20	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Arsenic	4.6		2.4	0.20	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Barium	84		1.2	0.17	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Beryllium	0.22	J	0.24	0.078	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Cadmium	0.056	J	0.30	0.030	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Chromium	73	B	1.2	0.13	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Cobalt	8.0		0.48	0.048	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Copper	15		3.6	1.7	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Lead	20		1.2	0.25	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Molybdenum	0.67	J	1.2	0.15	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Nickel	36		1.2	0.12	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Selenium	0.62	J	2.4	0.36	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Silver	ND		0.60	0.12	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Thallium	ND		1.2	0.35	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Vanadium	38		1.2	0.16	mg/Kg		01/12/19 09:26	01/15/19 18:49	4
Zinc	77		3.6	1.5	mg/Kg		01/12/19 09:26	01/15/19 18:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26	F1	0.014	0.0021	mg/Kg		01/17/19 19:30	01/18/19 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.9		0.1	0.05	%			01/11/19 14:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-O15S-7.5-8
Date Collected: 01/10/19 15:05
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-36
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		65	45	ug/Kg		01/11/19 10:40	01/17/19 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/11/19 10:40*	*01/17/19 18:26*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/11/19 10:40*	*01/17/19 18:26*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*01/11/19 10:40*	*01/17/19 18:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,1,1-Trichloroethane	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.5	3.2	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,1,2-Trichloroethane	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,1-Dichloroethane	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,1-Dichloropropene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,2,3-Trichlorobenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,2,3-Trichloropropane	ND		6.5	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,2,4-Trichlorobenzene	ND		3.2	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,2,4-Trimethylbenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,2-Dichlorobenzene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,2-Dichloroethane	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,2-Dichloropropane	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,3,5-Trimethylbenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,3-Dichlorobenzene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,3-Dichloropropane	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
1,4-Dichlorobenzene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
2,2-Dichloropropane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
2-Butanone (MEK)	ND		6.5	3.2	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
2-Chlorotoluene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
2-Hexanone	ND		6.5	3.2	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
4-Chlorotoluene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
4-Isopropyltoluene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Benzene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Bromobenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Bromoform	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Bromomethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Carbon disulfide	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Chlorobenzene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Chlorobromomethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Chlorodibromomethane	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Chloroethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Chloroform	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Chloromethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
cis-1,2-Dichloroethene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1

Client Sample ID: DG-O15S-7.5-8
Date Collected: 01/10/19 15:05
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-36
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Dibromomethane	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Dichlorobromomethane	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Dichlorodifluoromethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Ethylbenzene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Ethylene Dibromide	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Hexachlorobutadiene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Isopropylbenzene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Methyl tert-butyl ether	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Methylene Chloride	ND		6.5	3.2	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Naphthalene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
n-Butylbenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
N-Propylbenzene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
sec-Butylbenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Styrene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
tert-Butylbenzene	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Tetrachloroethene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Toluene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
trans-1,2-Dichloroethene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
trans-1,3-Dichloropropene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Trichloroethene	ND		0.65	0.32	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Trichlorofluoromethane	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Vinyl acetate	ND		5.2	2.6	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Vinyl chloride	ND		1.3	0.65	ug/Kg		01/11/19 10:40	01/17/19 18:26	1
Xylenes, Total	ND		1.3	0.84	ug/Kg		01/11/19 10:40	01/17/19 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/11/19 10:40*	*01/17/19 18:26*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*01/11/19 10:40*	*01/17/19 18:26*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Anthracene	ND		4.9	2.0	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Benzo[a]pyrene	ND		4.9	1.9	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Benzo[b]fluoranthene	ND		4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Chrysene	ND		4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Dibenz(a,h)anthracene	ND		4.9	3.5	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Fluoranthene	ND		4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Fluorene	ND		4.9	2.2	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Naphthalene	ND		4.9	3.5	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Phenanthrene	ND		4.9	1.8	ug/Kg		01/18/19 14:16	01/24/19 16:57	1
Pyrene	ND		4.9	1.7	ug/Kg		01/18/19 14:16	01/24/19 16:57	1

Client Sample ID: DG-O15S-7.5-8

Date Collected: 01/10/19 15:05
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-36

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		33 - 120	01/18/19 14:16	01/24/19 16:57	1
Terphenyl-d14	106		35 - 146	01/18/19 14:16	01/24/19 16:57	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.2**	**J**	2.0	0.74	mg/Kg		01/17/19 11:04	01/23/19 01:07	1
Motor Oil Range Organics [C24-C36]	ND		49	9.9	mg/Kg		01/17/19 11:04	01/23/19 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	102		40 - 130	01/17/19 11:04	01/23/19 01:07	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Aldrin	ND		2.0	0.50	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Endrin	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/17/19 09:26	01/24/19 14:52	1
Toxaphene	ND		40	6.8	ug/Kg		01/17/19 09:26	01/24/19 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		21 - 136	01/17/19 09:26	01/24/19 14:52	1
Tetrachloro-m-xylene	91		21 - 145	01/17/19 09:26	01/24/19 14:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:23	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:23	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:23	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:23	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:23	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:23	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:23	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-O15S-7.5-8

Date Collected: 01/10/19 15:05
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-36

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*45 - 120*	*01/14/19 14:05*	*01/15/19 18:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.0	0.17	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Arsenic	1.5	J	2.1	0.18	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Barium	49		1.0	0.15	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Beryllium	0.21		0.21	0.068	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Cadmium	0.038	J	0.26	0.026	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Chromium	45	B	1.0	0.11	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Cobalt	8.1		0.42	0.042	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Copper	7.1		3.1	1.5	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Lead	3.5		1.0	0.22	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Molybdenum	0.21	J	1.0	0.13	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Nickel	25		1.0	0.11	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Selenium	0.40	J	2.1	0.31	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Silver	ND		0.52	0.11	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Thallium	ND		1.0	0.30	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Vanadium	32		1.0	0.14	mg/Kg		01/12/19 09:26	01/15/19 18:54	4
Zinc	18		3.1	1.3	mg/Kg		01/12/19 09:26	01/15/19 18:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.015	0.0023	mg/Kg		01/17/19 19:30	01/18/19 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		0.1	0.05	%			01/11/19 14:15	1

Client Sample ID: DUP-105

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-37

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		01/11/19 10:40	01/17/19 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/11/19 10:40*	*01/17/19 18:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/11/19 10:40*	*01/17/19 18:52*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*01/11/19 10:40*	*01/17/19 18:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,1,1-Trichloroethane	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.4	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,1,2-Trichloroethane	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,1-Dichloroethane	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,1-Dichloropropene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,2,4-Trichlorobenzene	ND		3.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,2-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,2-Dichloroethane	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,2-Dichloropropane	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,3-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,3-Dichloropropane	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
1,4-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
2-Butanone (MEK)	ND		6.9	3.4	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
2-Hexanone	ND		6.9	3.4	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
4-Isopropyltoluene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Benzene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Bromoform	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Chlorobenzene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Chlorodibromomethane	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Chloroform	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
cis-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1

Client Sample ID: DUP-105

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-37

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Dibromomethane	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Dichlorobromomethane	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Ethylbenzene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Ethylene Dibromide	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Isopropylbenzene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Methylene Chloride	ND		6.9	3.4	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
N-Propylbenzene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Styrene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Tetrachloroethene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Toluene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
trans-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
trans-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Trichloroethene	ND		0.69	0.34	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/11/19 10:40	01/17/19 18:52	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		01/11/19 10:40	01/17/19 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*01/11/19 10:40*	*01/17/19 18:52*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*01/11/19 10:40*	*01/17/19 18:52*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**7.8**	**J**	9.8	4.9	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Anthracene	ND		4.9	2.0	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Benzo[a]anthracene	**2.3**	**J**	4.9	1.5	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Benzo[a]pyrene	**3.9**	**J**	4.9	1.9	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Benzo[b]fluoranthene	**6.6**		4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Benzo[k]fluoranthene	**2.3**	**J**	4.9	2.1	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Chrysene	**4.5**	**J**	4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Fluoranthene	**5.4**		4.9	1.4	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Fluorene	ND		4.9	2.2	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Naphthalene	**4.5**	**J**	4.9	3.4	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Phenanthrene	**5.7**		4.9	1.8	ug/Kg		01/18/19 14:16	01/24/19 17:21	1
Pyrene	**6.1**		4.9	1.7	ug/Kg		01/18/19 14:16	01/24/19 17:21	1

Client Sample ID: DUP-105

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-37

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*01/18/19 14:16*	*01/24/19 17:21*	*1*
Terphenyl-d14	*102*		*35 - 146*	*01/18/19 14:16*	*01/24/19 17:21*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7.3		2.0	0.74	mg/Kg		01/18/19 10:21	01/21/19 21:36	1
Motor Oil Range Organics [C24-C36]	30	J	49	9.9	mg/Kg		01/18/19 10:21	01/21/19 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*103*		*40 - 130*	*01/18/19 10:21*	*01/21/19 21:36*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Aldrin	ND		2.0	0.50	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Endrin	ND		2.0	0.46	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Endrin aldehyde	ND	*	2.0	0.63	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/17/19 09:43	01/24/19 12:33	1
Toxaphene	ND		40	6.8	ug/Kg		01/17/19 09:43	01/24/19 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*21 - 136*	*01/17/19 09:43*	*01/24/19 12:33*	*1*
Tetrachloro-m-xylene	*112*		*21 - 145*	*01/17/19 09:43*	*01/24/19 12:33*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:36	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:36	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:36	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:36	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:36	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:36	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 18:36	1

Client Sample ID: DUP-105

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-37

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*	*01/14/19 14:05*	*01/15/19 18:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.23	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Arsenic	**4.5**		2.8	0.23	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Barium	**69**		1.4	0.20	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Beryllium	**0.20**	**J**	0.28	0.090	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Cadmium	**0.041**	**J**	0.34	0.034	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Chromium	**160**	**B**	1.4	0.15	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Cobalt	**13**		0.55	0.055	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Copper	**27**		4.1	2.0	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Lead	**20**		1.4	0.29	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Molybdenum	**0.57**	**J**	1.4	0.18	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Nickel	**92**		1.4	0.14	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Selenium	**1.9**	**J**	2.8	0.41	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Silver	ND		0.69	0.14	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Thallium	ND		1.4	0.40	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Vanadium	**48**		1.4	0.19	mg/Kg		01/12/19 09:26	01/15/19 18:59	4
Zinc	**75**		4.1	1.8	mg/Kg		01/12/19 09:26	01/15/19 18:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.017	0.0025	mg/Kg		01/17/19 19:30	01/18/19 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		0.1	0.05	%			01/11/19 14:15	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCA (70-130)	TOL (79-123)								
440-229636-A-2 MS	Matrix Spike	101	99								
440-229636-A-2 MSD	Matrix Spike Duplicate	103	100								
440-230264-A-15 MS	Matrix Spike	97	103								
440-230264-A-15 MSD	Matrix Spike Duplicate	95	102								
720-90698-1	DG-X9S-0.5-1	102	123								
720-90698-2	DG-X9S-3.5-4	103	130 X								
720-90698-2 - RA	DG-X9S-3.5-4	122	146 X *								
720-90698-3	DG-V9S-0.5-1	112	121								
720-90698-4	DG-V9S-3.5-4	101	121								
720-90698-4 MS	DG-V9S-3.5-4	95	121								
720-90698-4 MSD	DG-V9S-3.5-4	96	126 X								
720-90698-5	DG-V9S-7.5-8	103	123								
720-90698-6	DG-T9S-0.5-1	102	123								
720-90698-7	DG-T9S-3.5-4	100	124 X								
720-90698-8	DG-P9S-0.5-1	105	123								
720-90698-9	DG-P9S-3.5-4	109	125 X								
720-90698-10	DG-N9S-0.5-1	126	133 X								
720-90698-11	DG-N9S-3.5-4	109	135 X								
720-90698-12	DG-O11S-0.5-1	138 X	96								
720-90698-13	DG-O11S-3.5-4	133 X	98								
720-90698-14	DG-Q11S-0.5-1	136 X	97								
720-90698-15	DG-Q11S-3.5-4	103	116								
720-90698-16	DUP-74	100	109								
720-90698-17	DG-S11S-0.5-1	107	108								
720-90698-18	DG-S11S-3.5-4	106	115								
720-90698-19	DG-U11S-0.5-1	114	117								
720-90698-19	DG-U11S-0.5-1	113	114								
720-90698-20	DG-U11S-3.5-4	105	129 X								
720-90698-21	DG-V13S-0.5-1	105	111								
720-90698-22	DG-V13S-3.5-4	103	112								
720-90698-23	DG-V13S-7.5-8	106	121								
720-90698-24	DG-T13S-0.5-1	111	133 X								
720-90698-25	DG-T13S-3.5-4	104	124 X								
720-90698-25 MS	DG-T13S-3.5-4	96	116								
720-90698-25 MSD	DG-T13S-3.5-4	96	115								
720-90698-26	DUP-91	140 X	98								
720-90698-27	DG-P13S-0.5-1	137 X	97								
720-90698-28	DG-P13S-3.5-4	149 X	97								
720-90698-29	DUP-90	139 X	98								
720-90698-30	DG-N13S-0.5-1	135 X	98								
720-90698-31	DG-N13S-3.5-4	100	115								
720-90698-31 MS	DG-N13S-3.5-4	99	105								
720-90698-31 MSD	DG-N13S-3.5-4	97	103								
720-90698-32	DG-N13S-7.5-8	98	109								
720-90698-33	DUP-89	111	120								
720-90698-34	DG-O15S-0.5-1	104	113								
720-90698-34 MS	DG-O15S-0.5-1	102	105								
720-90698-34 MSD	DG-O15S-0.5-1	97	107								
720-90698-35	DG-O15S-3.5-4	100	105								

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(79-123)
720-90698-36	DG-O15S-7.5-8	101	105
720-90698-37	DUP-105	98	110
LCS 440-522443/5	Lab Control Sample	100	111
LCS 440-522630/7	Lab Control Sample	130	96
LCS 440-522644/5	Lab Control Sample	107	113
LCS 440-522714/6	Lab Control Sample	101	98
LCS 440-523011/5	Lab Control Sample	95	99
LCS 440-523259/14	Lab Control Sample	98	100
LCSD 440-522630/8	Lab Control Sample Dup	133 X	97
MB 440-522443/4	Method Blank	93	123
MB 440-522630/6	Method Blank	131 X	96
MB 440-522644/4	Method Blank	102	121
MB 440-522714/5	Method Blank	102	105
MB 440-523011/4	Method Blank	96	105
MB 440-523259/4	Method Blank	100	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
440-229636-A-2 MS	Matrix Spike	103	99	99
440-229636-A-2 MSD	Matrix Spike Duplicate	104	98	100
440-230264-A-15 MS	Matrix Spike	103	107	103
440-230264-A-15 MSD	Matrix Spike Duplicate	101	106	102
720-90698-1	DG-X9S-0.5-1	102	116	123
720-90698-2	DG-X9S-3.5-4	107	123 X	130 X
720-90698-3	DG-V9S-0.5-1	110	118	121
720-90698-4	DG-V9S-3.5-4	104	117	121
720-90698-4 MS	DG-V9S-3.5-4	104	118	121
720-90698-4 MSD	DG-V9S-3.5-4	105	123 X	126 X
720-90698-5	DG-V9S-7.5-8	104	116	123
720-90698-6	DG-T9S-0.5-1	105	118	123
720-90698-7	DG-T9S-3.5-4	101	113	124 X
720-90698-8	DG-P9S-0.5-1	105	112	123
720-90698-9	DG-P9S-3.5-4	107	121 X	125 X
720-90698-10	DG-N9S-0.5-1	119	137 X *	133 X
720-90698-11	DG-N9S-3.5-4	109	138 X *	135 X
720-90698-12	DG-O11S-0.5-1	107	96	96
720-90698-13	DG-O11S-3.5-4	108	105	98
720-90698-14	DG-Q11S-0.5-1	110	100	97
720-90698-15	DG-Q11S-3.5-4	108	128 X	116
720-90698-16	DUP-74	107	106	109
720-90698-17	DG-S11S-0.5-1	106	112	108

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-90698-18	DG-S11S-3.5-4	110	119 *	115
720-90698-19	DG-U11S-0.5-1	114	121 * X	114
720-90698-20	DG-U11S-3.5-4	105	125 X	129 X
720-90698-21	DG-V13S-0.5-1	109	113	111
720-90698-22	DG-V13S-3.5-4	109	117	112
720-90698-23	DG-V13S-7.5-8	105	117	121
720-90698-24	DG-T13S-0.5-1	108	124 X	133 X
720-90698-25	DG-T13S-3.5-4	106	119	124 X
720-90698-25 MS	DG-T13S-3.5-4	104	109	116
720-90698-25 MSD	DG-T13S-3.5-4	104	110	115
720-90698-26	DUP-91	108	99	98
720-90698-27	DG-P13S-0.5-1	112	97	97
720-90698-28	DG-P13S-3.5-4	112	105	97
720-90698-29	DUP-90	108	104	98
720-90698-30	DG-N13S-0.5-1	109	99	98
720-90698-31	DG-N13S-3.5-4	106	117	115
720-90698-31 MS	DG-N13S-3.5-4	108	104	105
720-90698-31 MSD	DG-N13S-3.5-4	106	105	103
720-90698-32	DG-N13S-7.5-8	105	105	109
720-90698-33	DUP-89	111	123 * X	120
720-90698-34	DG-O15S-0.5-1	108	108	113
720-90698-34 MS	DG-O15S-0.5-1	105	101	105
720-90698-34 MSD	DG-O15S-0.5-1	106	112	107
720-90698-35	DG-O15S-3.5-4	105	104	105
720-90698-36	DG-O15S-7.5-8	106	99	105
720-90698-37	DUP-105	104	105	110
LCS 440-522444/6	Lab Control Sample	99	108	118
LCS 440-522631/9	Lab Control Sample	105	99	99
LCS 440-522645/6	Lab Control Sample	101	113	122
LCS 440-522715/7	Lab Control Sample	104	99	106
LCS 440-523012/6	Lab Control Sample	103	100	105
LCS 440-523260/15	Lab Control Sample	103	100	106
LCSD 440-522631/10	Lab Control Sample Dup	107	100	98
MB 440-522444/4	Method Blank	99	109	123
MB 440-522631/6	Method Blank	106	99	96
MB 440-522645/4	Method Blank	105	115	121
MB 440-522715/5	Method Blank	104	100	105
MB 440-523012/4	Method Blank	105	102	105
MB 440-523260/4	Method Blank	104	99	108

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)								
720-90673-E-19-E MS	Matrix Spike	62	84								
720-90673-E-19-F MSD	Matrix Spike Duplicate	68	91								
720-90698-1	DG-X9S-0.5-1	75	107								
720-90698-2	DG-X9S-3.5-4	67	75								
720-90698-3	DG-V9S-0.5-1	74	88								
720-90698-4	DG-V9S-3.5-4	71	67								
720-90698-4 MS	DG-V9S-3.5-4	62	63								
720-90698-4 MSD	DG-V9S-3.5-4	64	74								
720-90698-5	DG-V9S-7.5-8	71	83								
720-90698-6	DG-T9S-0.5-1	73	92								
720-90698-7	DG-T9S-3.5-4	73	86								
720-90698-10	DG-N9S-0.5-1	62	67								
720-90698-11	DG-N9S-3.5-4	72	82								
720-90698-12	DG-O11S-0.5-1	68	80								
720-90698-13	DG-O11S-3.5-4	75	85								
720-90698-14	DG-Q11S-0.5-1	67	79								
720-90698-15	DG-Q11S-3.5-4	62	83								
720-90698-16	DUP-74	72	85								
720-90698-17	DG-S11S-0.5-1	67	81								
720-90698-18	DG-S11S-3.5-4	72	85								
720-90698-19	DG-U11S-0.5-1	71	83								
720-90698-20	DG-U11S-3.5-4	72	86								
720-90698-21	DG-V13S-0.5-1	70	80								
720-90698-22	DG-V13S-3.5-4	119	132								
720-90698-23	DG-V13S-7.5-8	71	80								
720-90698-24	DG-T13S-0.5-1	36	44								
720-90698-25	DG-T13S-3.5-4	73	99								
720-90698-25 MS	DG-T13S-3.5-4	70	94								
720-90698-25 MSD	DG-T13S-3.5-4	68	95								
720-90698-26	DUP-91	89	100								
720-90698-27	DG-P13S-0.5-1	84	112								
720-90698-28	DG-P13S-3.5-4	81	100								
720-90698-29	DUP-90	86	117								
720-90698-30	DG-N13S-0.5-1	87	99								
720-90698-31	DG-N13S-3.5-4	75	100								
720-90698-31 MS	DG-N13S-3.5-4	68	98								
720-90698-31 MSD	DG-N13S-3.5-4	71	100								
720-90698-32	DG-N13S-7.5-8	87	107								
720-90698-33	DUP-89	86	95								
720-90698-34	DG-O15S-0.5-1	75	103								
720-90698-34 MS	DG-O15S-0.5-1	71	101								
720-90698-34 MSD	DG-O15S-0.5-1	71	103								
720-90698-35	DG-O15S-3.5-4	86	106								
720-90698-36	DG-O15S-7.5-8	83	106								
720-90698-37	DUP-105	77	102								
LCS 720-258562/2-A	Lab Control Sample	76	108								
LCS 720-258581/2-A	Lab Control Sample	56	62								
LCS 720-258709/2-A	Lab Control Sample	64	95								
MB 720-258562/1-A	Method Blank	87	115								

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)						
MB 720-258581/1-A	Method Blank	70	84						
MB 720-258709/1-A	Method Blank	66	96						

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TPH1 (40-130)							
720-90698-1	DG-X9S-0.5-1	89							
720-90698-2	DG-X9S-3.5-4	89							
720-90698-3	DG-V9S-0.5-1	90							
720-90698-4	DG-V9S-3.5-4	81							
720-90698-4 MS	DG-V9S-3.5-4	106							
720-90698-4 MSD	DG-V9S-3.5-4	98							
720-90698-5	DG-V9S-7.5-8	105							
720-90698-6	DG-T9S-0.5-1	109							
720-90698-7	DG-T9S-3.5-4	102							
720-90698-10	DG-N9S-0.5-1	0 X D							
720-90698-11	DG-N9S-3.5-4	105							
720-90698-12	DG-O11S-0.5-1	106							
720-90698-13	DG-O11S-3.5-4	78							
720-90698-14	DG-Q11S-0.5-1	0 X D							
720-90698-15	DG-Q11S-3.5-4	0 X D							
720-90698-16	DUP-74	0 X D							
720-90698-17	DG-S11S-0.5-1	0 X D							
720-90698-18	DG-S11S-3.5-4	0 X D							
720-90698-19	DG-U11S-0.5-1	0 X D							
720-90698-20	DG-U11S-3.5-4	81							
720-90698-21	DG-V13S-0.5-1	0 X D							
720-90698-22	DG-V13S-3.5-4	0 X D							
720-90698-23	DG-V13S-7.5-8	104							
720-90698-24	DG-T13S-0.5-1	0 X D							
720-90698-25	DG-T13S-3.5-4	110							
720-90698-25 MS	DG-T13S-3.5-4	106							
720-90698-25 MSD	DG-T13S-3.5-4	115							
720-90698-26	DUP-91	0 X D							
720-90698-27	DG-P13S-0.5-1	90							
720-90698-28	DG-P13S-3.5-4	64							
720-90698-29	DUP-90	96							
720-90698-30	DG-N13S-0.5-1	79							
720-90698-31	DG-N13S-3.5-4	113							
720-90698-31 MS	DG-N13S-3.5-4	115							
720-90698-31 MSD	DG-N13S-3.5-4	115							
720-90698-32	DG-N13S-7.5-8	90							

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-90698-33	DUP-89	82
720-90698-34	DG-O15S-0.5-1	82
720-90698-34 MS	DG-O15S-0.5-1	86
720-90698-34 MSD	DG-O15S-0.5-1	87
720-90698-35	DG-O15S-3.5-4	91
720-90698-36	DG-O15S-7.5-8	102
720-90698-37	DUP-105	103
720-90765-A-1-E MS	Matrix Spike	104
720-90765-A-1-F MSD	Matrix Spike Duplicate	107
LCS 720-258386/2-A	Lab Control Sample	127
LCS 720-258556/2-A	Lab Control Sample	104
LCS 720-258695/2-A	Lab Control Sample	126
LCS 720-258765/2-A	Lab Control Sample	111
MB 720-258386/1-A	Method Blank	110
MB 720-258556/1-A	Method Blank	95
MB 720-258695/1-A	Method Blank	110
MB 720-258765/1-A	Method Blank	107

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX1 (21-145)
720-90673-E-33-E MS	Matrix Spike	104	85
720-90698-1	DG-X9S-0.5-1	67	92
720-90698-4	DG-V9S-3.5-4	48	69
720-90698-4 MSD	DG-V9S-3.5-4	61	80
720-90698-5	DG-V9S-7.5-8	60	70
720-90698-6	DG-T9S-0.5-1	47	65
720-90698-10	DG-N9S-0.5-1	86 p	87
720-90698-11	DG-N9S-3.5-4	96 p	86
720-90698-18	DG-S11S-3.5-4	88	83
720-90698-23	DG-V13S-7.5-8	89	87
720-90698-25	DG-T13S-3.5-4	91	85
720-90698-27	DG-P13S-0.5-1	89	96
720-90698-28	DG-P13S-3.5-4	69	91
720-90698-30	DG-N13S-0.5-1	82	84
720-90698-31 MSD	DG-N13S-3.5-4	118	106
720-90698-33	DUP-89	80	85
720-90698-34	DG-O15S-0.5-1	100	91
720-90698-34 MS	DG-O15S-0.5-1	103	98
720-90698-35	DG-O15S-3.5-4	89	89
720-90698-36	DG-O15S-7.5-8	94	91

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX1 (21-145)
720-90673-E-33-F MSD	Matrix Spike Duplicate	73	85
720-90698-2	DG-X9S-3.5-4	68	83
720-90698-3	DG-V9S-0.5-1	56	61
720-90698-4 MS	DG-V9S-3.5-4	47	70
720-90698-12	DG-O11S-0.5-1	72	85
720-90698-16	DUP-74	79	72
720-90698-19	DG-U11S-0.5-1	72	64 p
720-90698-20	DG-U11S-3.5-4	73	81
720-90698-21	DG-V13S-0.5-1	70	65
720-90698-22	DG-V13S-3.5-4	73	79
720-90698-24	DG-T13S-0.5-1	60	81
720-90698-26	DUP-91	105	91
720-90698-34 MSD	DG-O15S-0.5-1	104	92
720-90698-37	DUP-105	62	112

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX2 (21-145)
720-90698-7	DG-T9S-3.5-4	107	84
720-90698-13	DG-O11S-3.5-4	72	75
720-90698-17	DG-S11S-0.5-1	93	78
720-90698-25 MS	DG-T13S-3.5-4	111	89
720-90698-25 MSD	DG-T13S-3.5-4	99	94
720-90698-31	DG-N13S-3.5-4	105	98
720-90698-32	DG-N13S-7.5-8	96	86
LCS 720-258564/2-A	Lab Control Sample	114	94
LCS 720-258580/2-A	Lab Control Sample	112	99
LCS 720-258689/2-A	Lab Control Sample	113	93
MB 720-258564/1-A	Method Blank	117	101
MB 720-258580/1-A	Method Blank	106	92
MB 720-258689/1-A	Method Blank	95	78

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX2 (21-145)
720-90698-14	DG-Q11S-0.5-1	61	67
720-90698-15	DG-Q11S-3.5-4	86	81
720-90698-29	DUP-90	109	89
720-90698-31 MS	DG-N13S-3.5-4	85	68
LCS 720-258691/2-A	Lab Control Sample	131	91
MB 720-258691/1-A	Method Blank	118	85

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
720-90698-1	DG-X9S-0.5-1	73
720-90698-2	DG-X9S-3.5-4	57
720-90698-3	DG-V9S-0.5-1	80
720-90698-4	DG-V9S-3.5-4	60
720-90698-4 MS	DG-V9S-3.5-4	52
720-90698-4 MSD	DG-V9S-3.5-4	45
720-90698-5	DG-V9S-7.5-8	64
720-90698-6	DG-T9S-0.5-1	81
720-90698-7	DG-T9S-3.5-4	89
720-90698-10	DG-N9S-0.5-1	79
720-90698-11	DG-N9S-3.5-4	63
720-90698-12	DG-O11S-0.5-1	55
720-90698-13	DG-O11S-3.5-4	52
720-90698-14	DG-Q11S-0.5-1	66
720-90698-15	DG-Q11S-3.5-4	54
720-90698-16	DUP-74	50
720-90698-17	DG-S11S-0.5-1	71
720-90698-18	DG-S11S-3.5-4	58
720-90698-19	DG-U11S-0.5-1	60
720-90698-20	DG-U11S-3.5-4	66
720-90698-21	DG-V13S-0.5-1	60
720-90698-22	DG-V13S-3.5-4	65
720-90698-23	DG-V13S-7.5-8	81
720-90698-24	DG-T13S-0.5-1	69
720-90698-25	DG-T13S-3.5-4	85
720-90698-25 MS	DG-T13S-3.5-4	90
720-90698-25 MSD	DG-T13S-3.5-4	83
720-90698-26	DUP-91	72
720-90698-27	DG-P13S-0.5-1	71
720-90698-28	DG-P13S-3.5-4	74
720-90698-29	DUP-90	71
720-90698-30	DG-N13S-0.5-1	80

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DCB2 (45-120)						
720-90698-31	DG-N13S-3.5-4	66						
720-90698-31 MS	DG-N13S-3.5-4	76						
720-90698-31 MSD	DG-N13S-3.5-4	68						
720-90698-32	DG-N13S-7.5-8	75						
720-90698-33	DUP-89	74						
720-90698-34	DG-O15S-0.5-1	78						
720-90698-34 MS	DG-O15S-0.5-1	89						
720-90698-34 MSD	DG-O15S-0.5-1	89						
720-90698-35	DG-O15S-3.5-4	75						
720-90698-36	DG-O15S-7.5-8	82						
720-90698-37	DUP-105	75						
LCS 440-522310/2-A	Lab Control Sample	93						
LCS 440-522319/2-A	Lab Control Sample	94						
LCS 440-522323/2-A	Lab Control Sample	99						
LCS 440-522324/2-A	Lab Control Sample	102						
MB 440-522310/1-A	Method Blank	86						
MB 440-522319/1-A	Method Blank	91						
MB 440-522323/1-A	Method Blank	95						
MB 440-522324/1-A	Method Blank	98						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-522443/4
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/15/19 08:50	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/15/19 08:50	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/15/19 08:50	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/15/19 08:50	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/15/19 08:50	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/15/19 08:50	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
2-Hexanone	ND		10	5.0	ug/Kg			01/15/19 08:50	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/15/19 08:50	1
Benzene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Bromoform	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/15/19 08:50	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Chloroform	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522443/4
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/15/19 08:50	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Styrene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Toluene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/15/19 08:50	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/15/19 08:50	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/15/19 08:50	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/15/19 08:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*01/15/19 08:50*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*		*01/15/19 08:50*	*1*

Lab Sample ID: LCS 440-522443/5
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/Kg		101	70 - 130
1,1,1-Trichloroethane	50.0	48.6		ug/Kg		97	65 - 135
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/Kg		111	55 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.0		ug/Kg		110	60 - 140
1,1,2-Trichloroethane	50.0	59.3		ug/Kg		119	65 - 135
1,1-Dichloroethane	50.0	54.0		ug/Kg		108	70 - 130
1,1-Dichloroethene	50.0	59.3		ug/Kg		119	70 - 125
1,1-Dichloropropene	50.0	56.7		ug/Kg		113	70 - 130
1,2,3-Trichlorobenzene	50.0	43.8		ug/Kg		88	60 - 130
1,2,3-Trichloropropane	50.0	48.0		ug/Kg		96	60 - 135
1,2,4-Trichlorobenzene	50.0	45.0		ug/Kg		90	70 - 135
1,2,4-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	43.0		ug/Kg		86	50 - 135
1,2-Dichlorobenzene	50.0	52.8		ug/Kg		106	75 - 120
1,2-Dichloroethane	50.0	49.8		ug/Kg		100	60 - 140
1,2-Dichloropropane	50.0	60.5		ug/Kg		121	70 - 130
1,3,5-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 125
1,3-Dichlorobenzene	50.0	52.6		ug/Kg		105	75 - 125
1,3-Dichloropropane	50.0	56.1		ug/Kg		112	70 - 125
1,4-Dichlorobenzene	50.0	53.8		ug/Kg		108	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522443/5
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	53.2		ug/Kg		106	60 - 145
2-Butanone (MEK)	50.0	51.0		ug/Kg		102	40 - 145
2-Chlorotoluene	50.0	51.2		ug/Kg		102	70 - 125
2-Hexanone	50.0	47.6		ug/Kg		95	40 - 150
4-Chlorotoluene	50.0	51.4		ug/Kg		103	75 - 125
4-Isopropyltoluene	50.0	51.3		ug/Kg		103	75 - 125
4-Methyl-2-pentanone (MIBK)	50.0	55.8		ug/Kg		112	40 - 145
Benzene	50.0	56.8		ug/Kg		114	65 - 120
Bromobenzene	50.0	56.2		ug/Kg		112	75 - 120
Bromoform	50.0	49.7		ug/Kg		99	55 - 135
Bromomethane	50.0	56.7		ug/Kg		113	60 - 145
Carbon disulfide	50.0	58.1		ug/Kg		116	50 - 130
Carbon tetrachloride	50.0	48.4		ug/Kg		97	65 - 140
Chlorobenzene	50.0	53.6		ug/Kg		107	75 - 120
Chlorobromomethane	50.0	50.6		ug/Kg		101	70 - 135
Chlorodibromomethane	50.0	53.1		ug/Kg		106	65 - 140
Chloroethane	50.0	59.9		ug/Kg		120	60 - 140
Chloroform	50.0	50.4		ug/Kg		101	70 - 130
Chloromethane	50.0	61.5		ug/Kg		123	45 - 145
cis-1,2-Dichloroethene	50.0	55.6		ug/Kg		111	70 - 125
cis-1,3-Dichloropropene	50.0	58.7		ug/Kg		117	75 - 125
Dibromomethane	50.0	55.8		ug/Kg		112	70 - 130
Dichlorobromomethane	50.0	52.0		ug/Kg		104	70 - 135
Dichlorodifluoromethane	50.0	44.7		ug/Kg		89	35 - 160
Ethylbenzene	50.0	54.3		ug/Kg		109	70 - 125
Ethylene Dibromide	50.0	53.2		ug/Kg		106	70 - 130
Hexachlorobutadiene	50.0	41.1		ug/Kg		82	60 - 135
Isopropylbenzene	50.0	53.1		ug/Kg		106	75 - 130
Methyl tert-butyl ether	50.0	49.2		ug/Kg		98	60 - 140
Methylene Chloride	50.0	55.3		ug/Kg		111	55 - 135
m-Xylene & p-Xylene	50.0	55.5		ug/Kg		111	70 - 125
Naphthalene	50.0	40.9		ug/Kg		82	55 - 135
n-Butylbenzene	50.0	52.3		ug/Kg		105	70 - 130
N-Propylbenzene	50.0	54.7		ug/Kg		109	70 - 130
o-Xylene	50.0	55.9		ug/Kg		112	70 - 125
sec-Butylbenzene	50.0	52.3		ug/Kg		105	70 - 125
Styrene	50.0	51.2		ug/Kg		102	75 - 130
tert-Butylbenzene	50.0	49.5		ug/Kg		99	70 - 125
Tetrachloroethene	50.0	57.7		ug/Kg		115	70 - 125
Toluene	50.0	57.2		ug/Kg		114	70 - 125
trans-1,2-Dichloroethene	50.0	56.2		ug/Kg		112	70 - 125
trans-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	70 - 135
Trichloroethene	50.0	53.7		ug/Kg		107	70 - 125
Trichlorofluoromethane	50.0	45.3		ug/Kg		91	60 - 145
Vinyl acetate	50.0	55.6		ug/Kg		111	45 - 145
Vinyl chloride	50.0	65.8		ug/Kg		132	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522443/5
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*111*		*79 - 123*

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 522472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		44.1	48.8		ug/Kg		111	65 - 145
1,1,1-Trichloroethane	ND		44.1	43.6		ug/Kg		99	65 - 145
1,1,2,2-Tetrachloroethane	ND		44.1	64.5		ug/Kg		146	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		44.1	50.9		ug/Kg		115	60 - 140
1,1,2-Trichloroethane	ND		44.1	57.4		ug/Kg		130	65 - 140
1,1-Dichloroethane	ND		44.1	48.2		ug/Kg		109	65 - 135
1,1-Dichloroethene	ND		44.1	53.7		ug/Kg		122	65 - 135
1,1-Dichloropropene	ND		44.1	47.5		ug/Kg		108	65 - 135
1,2,3-Trichlorobenzene	ND		44.1	30.1		ug/Kg		68	45 - 145
1,2,3-Trichloropropane	ND		44.1	55.8		ug/Kg		127	50 - 150
1,2,4-Trichlorobenzene	ND		44.1	29.5		ug/Kg		67	50 - 140
1,2,4-Trimethylbenzene	ND		44.1	49.0		ug/Kg		111	65 - 140
1,2-Dibromo-3-Chloropropane	ND		44.1	46.4		ug/Kg		105	40 - 150
1,2-Dichlorobenzene	ND		44.1	45.7		ug/Kg		104	70 - 130
1,2-Dichloroethane	ND		44.1	43.0		ug/Kg		98	60 - 150
1,2-Dichloropropane	ND		44.1	53.2		ug/Kg		121	65 - 130
1,3,5-Trimethylbenzene	ND		44.1	51.9		ug/Kg		118	65 - 135
1,3-Dichlorobenzene	ND		44.1	43.6		ug/Kg		99	70 - 130
1,3-Dichloropropane	ND		44.1	52.8		ug/Kg		120	65 - 140
1,4-Dichlorobenzene	ND		44.1	43.1		ug/Kg		98	70 - 130
2,2-Dichloropropane	ND		44.1	48.2		ug/Kg		109	65 - 150
2-Butanone (MEK)	ND		44.1	48.4		ug/Kg		110	25 - 170
2-Chlorotoluene	ND		44.1	50.5		ug/Kg		114	60 - 135
2-Hexanone	ND		44.1	50.2		ug/Kg		114	35 - 160
4-Chlorotoluene	ND		44.1	48.0		ug/Kg		109	65 - 135
4-Isopropyltoluene	ND		44.1	50.3		ug/Kg		114	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		44.1	56.4		ug/Kg		128	40 - 155
Benzene	ND		44.1	49.0		ug/Kg		111	65 - 130
Bromobenzene	ND		44.1	51.7		ug/Kg		117	65 - 140
Bromoform	ND		44.1	45.8		ug/Kg		104	50 - 145
Bromomethane	ND		44.1	50.5		ug/Kg		115	60 - 155
Carbon disulfide	ND		44.1	50.9		ug/Kg		115	40 - 140
Carbon tetrachloride	ND		44.1	43.2		ug/Kg		98	60 - 145
Chlorobenzene	ND		44.1	43.9		ug/Kg		100	70 - 130
Chlorobromomethane	ND		44.1	46.1		ug/Kg		105	65 - 145
Chlorodibromomethane	ND		44.1	50.6		ug/Kg		115	60 - 145
Chloroethane	ND		44.1	56.7		ug/Kg		129	60 - 150
Chloroform	ND		44.1	44.8		ug/Kg		102	65 - 135
Chloromethane	ND		44.1	56.6		ug/Kg		128	40 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 522472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	ND		44.1	47.9		ug/Kg		109	65 - 135
cis-1,3-Dichloropropene	ND		44.1	55.6		ug/Kg		126	70 - 135
Dibromomethane	ND		44.1	47.7		ug/Kg		108	65 - 140
Dichlorobromomethane	ND		44.1	44.3		ug/Kg		101	65 - 145
Dichlorodifluoromethane	ND		44.1	41.1		ug/Kg		93	30 - 160
Ethylbenzene	ND		44.1	48.6		ug/Kg		110	70 - 135
Ethylene Dibromide	ND		44.1	49.2		ug/Kg		112	65 - 140
Hexachlorobutadiene	ND		44.1	35.1		ug/Kg		80	50 - 145
Isopropylbenzene	ND		44.1	46.5		ug/Kg		105	70 - 145
Methyl tert-butyl ether	ND		44.1	46.9		ug/Kg		106	55 - 155
Methylene Chloride	ND		44.1	51.1		ug/Kg		116	55 - 145
m-Xylene & p-Xylene	ND		44.1	48.3		ug/Kg		110	70 - 130
Naphthalene	ND		44.1	27.0		ug/Kg		61	40 - 150
n-Butylbenzene	ND		44.1	48.0		ug/Kg		109	55 - 145
N-Propylbenzene	ND		44.1	56.1		ug/Kg		127	65 - 140
o-Xylene	ND		44.1	48.1		ug/Kg		109	65 - 130
sec-Butylbenzene	ND		44.1	51.7		ug/Kg		117	60 - 135
Styrene	ND		44.1	39.2		ug/Kg		89	70 - 140
tert-Butylbenzene	ND		44.1	51.5		ug/Kg		117	60 - 140
Tetrachloroethene	ND		44.1	49.6		ug/Kg		113	65 - 135
Toluene	ND		44.1	51.9		ug/Kg		118	70 - 130
trans-1,2-Dichloroethene	ND		44.1	48.8		ug/Kg		111	70 - 135
trans-1,3-Dichloropropene	ND		44.1	49.9		ug/Kg		113	60 - 145
Trichloroethene	ND		44.1	45.4		ug/Kg		103	65 - 140
Trichlorofluoromethane	ND		44.1	42.2		ug/Kg		96	55 - 155
Vinyl acetate	ND		44.1	45.3		ug/Kg		103	40 - 150
Vinyl chloride	ND		44.1	58.9		ug/Kg		134	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*121*		*79 - 123*

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 522472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		44.9	51.8		ug/Kg		115	65 - 145	6	20
1,1,1-Trichloroethane	ND		44.9	41.2		ug/Kg		92	65 - 145	6	20
1,1,2,2-Tetrachloroethane	ND		44.9	76.2	F1	ug/Kg		170	40 - 160	17	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		44.9	44.4		ug/Kg		99	60 - 140	14	40
1,1,2-Trichloroethane	ND		44.9	62.9		ug/Kg		140	65 - 140	9	30
1,1-Dichloroethane	ND		44.9	49.6		ug/Kg		111	65 - 135	3	25
1,1-Dichloroethene	ND		44.9	48.3		ug/Kg		108	65 - 135	11	25
1,1-Dichloropropene	ND		44.9	44.2		ug/Kg		99	65 - 135	7	20
1,2,3-Trichlorobenzene	ND		44.9	26.1		ug/Kg		58	45 - 145	14	30
1,2,3-Trichloropropane	ND		44.9	63.6		ug/Kg		142	50 - 150	13	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 522472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		44.9	27.0		ug/Kg		60	50 - 140	9	30
1,2,4-Trimethylbenzene	ND		44.9	59.6		ug/Kg		133	65 - 140	20	25
1,2-Dibromo-3-Chloropropane	ND		44.9	54.0		ug/Kg		120	40 - 150	15	30
1,2-Dichlorobenzene	ND		44.9	51.2		ug/Kg		114	70 - 130	11	25
1,2-Dichloroethane	ND		44.9	44.4		ug/Kg		99	60 - 150	3	25
1,2-Dichloropropane	ND		44.9	54.5		ug/Kg		121	65 - 130	2	20
1,3,5-Trimethylbenzene	ND		44.9	62.9	F1	ug/Kg		140	65 - 135	19	25
1,3-Dichlorobenzene	ND		44.9	50.9		ug/Kg		113	70 - 130	15	25
1,3-Dichloropropane	ND		44.9	60.0		ug/Kg		134	65 - 140	13	25
1,4-Dichlorobenzene	ND		44.9	49.9		ug/Kg		111	70 - 130	15	25
2,2-Dichloropropane	ND		44.9	43.1		ug/Kg		96	65 - 150	11	25
2-Butanone (MEK)	ND		44.9	43.1		ug/Kg		96	25 - 170	12	40
2-Chlorotoluene	ND		44.9	59.0		ug/Kg		131	60 - 135	16	25
2-Hexanone	ND		44.9	49.3		ug/Kg		110	35 - 160	2	40
4-Chlorotoluene	ND		44.9	55.8		ug/Kg		124	65 - 135	15	25
4-Isopropyltoluene	ND		44.9	59.6		ug/Kg		133	60 - 140	17	25
4-Methyl-2-pentanone (MIBK)	ND		44.9	59.1		ug/Kg		132	40 - 155	5	40
Benzene	ND		44.9	49.9		ug/Kg		111	65 - 130	2	20
Bromobenzene	ND		44.9	58.8		ug/Kg		131	65 - 140	13	25
Bromoform	ND		44.9	47.1		ug/Kg		105	50 - 145	3	30
Bromomethane	ND		44.9	52.1		ug/Kg		116	60 - 155	3	25
Carbon disulfide	ND		44.9	47.3		ug/Kg		105	40 - 140	7	20
Carbon tetrachloride	ND		44.9	41.2		ug/Kg		92	60 - 145	5	25
Chlorobenzene	ND		44.9	48.9		ug/Kg		109	70 - 130	11	25
Chlorobromomethane	ND		44.9	46.9		ug/Kg		104	65 - 145	2	25
Chlorodibromomethane	ND		44.9	54.6		ug/Kg		122	60 - 145	8	25
Chloroethane	ND		44.9	56.3		ug/Kg		126	60 - 150	1	25
Chloroform	ND		44.9	44.1		ug/Kg		98	65 - 135	2	20
Chloromethane	ND		44.9	53.0		ug/Kg		118	40 - 145	7	25
cis-1,2-Dichloroethene	ND		44.9	46.0		ug/Kg		103	65 - 135	4	25
cis-1,3-Dichloropropene	ND		44.9	60.0		ug/Kg		134	70 - 135	8	25
Dibromomethane	ND		44.9	50.3		ug/Kg		112	65 - 140	5	25
Dichlorobromomethane	ND		44.9	46.2		ug/Kg		103	65 - 145	4	20
Dichlorodifluoromethane	ND		44.9	33.7		ug/Kg		75	30 - 160	20	35
Ethylbenzene	ND		44.9	51.8		ug/Kg		116	70 - 135	7	25
Ethylene Dibromide	ND		44.9	52.3		ug/Kg		116	65 - 140	6	25
Hexachlorobutadiene	ND		44.9	35.9		ug/Kg		80	50 - 145	2	35
Isopropylbenzene	ND		44.9	50.3		ug/Kg		112	70 - 145	8	25
Methyl tert-butyl ether	ND		44.9	45.6		ug/Kg		102	55 - 155	3	35
Methylene Chloride	ND		44.9	50.7		ug/Kg		113	55 - 145	1	25
m-Xylene & p-Xylene	ND		44.9	51.1		ug/Kg		114	70 - 130	6	25
Naphthalene	ND		44.9	21.8		ug/Kg		49	40 - 150	21	40
n-Butylbenzene	ND		44.9	56.7		ug/Kg		126	55 - 145	17	30
N-Propylbenzene	ND		44.9	65.6	F1	ug/Kg		146	65 - 140	16	25
o-Xylene	ND		44.9	53.2		ug/Kg		118	65 - 130	10	25
sec-Butylbenzene	ND		44.9	60.5		ug/Kg		135	60 - 135	16	25
Styrene	ND		44.9	40.4		ug/Kg		90	70 - 140	3	25
tert-Butylbenzene	ND		44.9	61.5		ug/Kg		137	60 - 140	18	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 522443

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 522472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		44.9	52.0		ug/Kg		116	65 - 135	5	25
Toluene	ND		44.9	56.1		ug/Kg		125	70 - 130	8	20
trans-1,2-Dichloroethene	ND		44.9	46.2		ug/Kg		103	70 - 135	6	25
trans-1,3-Dichloropropene	ND		44.9	52.8		ug/Kg		118	60 - 145	6	25
Trichloroethene	ND		44.9	44.7		ug/Kg		100	65 - 140	2	25
Trichlorofluoromethane	ND		44.9	37.6		ug/Kg		84	55 - 155	12	25
Vinyl acetate	ND		44.9	46.5		ug/Kg		104	40 - 150	3	30
Vinyl chloride	ND		44.9	55.6		ug/Kg		124	55 - 140	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*126*	*X*	*79 - 123*

Lab Sample ID: MB 440-522630/6
Matrix: Solid
Analysis Batch: 522630

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/15/19 19:18	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/15/19 19:18	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/15/19 19:18	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/15/19 19:18	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/15/19 19:18	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/15/19 19:18	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
2-Hexanone	ND		10	5.0	ug/Kg			01/15/19 19:18	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/15/19 19:18	1
Benzene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Bromoform	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522630/6
Matrix: Solid
Analysis Batch: 522630

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/15/19 19:18	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Chloroform	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/15/19 19:18	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Styrene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Toluene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/15/19 19:18	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/15/19 19:18	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/15/19 19:18	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/15/19 19:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*131*	*X*	*70 - 130*		*01/15/19 19:18*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/15/19 19:18*	*1*

Lab Sample ID: LCS 440-522630/7
Matrix: Solid
Analysis Batch: 522630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.4		ug/Kg		97	70 - 130
1,1,1-Trichloroethane	50.0	51.9		ug/Kg		104	65 - 135
1,1,2,2-Tetrachloroethane	50.0	43.3		ug/Kg		87	55 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522630/7
Matrix: Solid
Analysis Batch: 522630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.2		ug/Kg		86	60 - 140
1,1,2-Trichloroethane	50.0	43.5		ug/Kg		87	65 - 135
1,1-Dichloroethane	50.0	44.8		ug/Kg		90	70 - 130
1,1-Dichloroethene	50.0	43.3		ug/Kg		87	70 - 125
1,1-Dichloropropene	50.0	43.3		ug/Kg		87	70 - 130
1,2,3-Trichlorobenzene	50.0	41.4		ug/Kg		83	60 - 130
1,2,3-Trichloropropane	50.0	50.5		ug/Kg		101	60 - 135
1,2,4-Trichlorobenzene	50.0	42.2		ug/Kg		84	70 - 135
1,2,4-Trimethylbenzene	50.0	44.5		ug/Kg		89	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	51.4		ug/Kg		103	50 - 135
1,2-Dichlorobenzene	50.0	44.6		ug/Kg		89	75 - 120
1,2-Dichloroethane	50.0	56.4		ug/Kg		113	60 - 140
1,2-Dichloropropane	50.0	46.4		ug/Kg		93	70 - 130
1,3,5-Trimethylbenzene	50.0	43.7		ug/Kg		87	70 - 125
1,3-Dichlorobenzene	50.0	43.9		ug/Kg		88	75 - 125
1,3-Dichloropropane	50.0	44.9		ug/Kg		90	70 - 125
1,4-Dichlorobenzene	50.0	44.3		ug/Kg		89	75 - 120
2,2-Dichloropropane	50.0	49.3		ug/Kg		99	60 - 145
2-Butanone (MEK)	50.0	49.0		ug/Kg		98	40 - 145
2-Chlorotoluene	50.0	42.9		ug/Kg		86	70 - 125
2-Hexanone	50.0	67.4		ug/Kg		135	40 - 150
4-Chlorotoluene	50.0	44.6		ug/Kg		89	75 - 125
4-Isopropyltoluene	50.0	43.7		ug/Kg		87	75 - 125
4-Methyl-2-pentanone (MIBK)	50.0	61.6		ug/Kg		123	40 - 145
Benzene	50.0	42.9		ug/Kg		86	65 - 120
Bromobenzene	50.0	45.5		ug/Kg		91	75 - 120
Bromoform	50.0	51.6		ug/Kg		103	55 - 135
Bromomethane	50.0	43.5		ug/Kg		87	60 - 145
Carbon disulfide	50.0	39.3		ug/Kg		79	50 - 130
Carbon tetrachloride	50.0	53.6		ug/Kg		107	65 - 140
Chlorobenzene	50.0	42.4		ug/Kg		85	75 - 120
Chlorobromomethane	50.0	46.4		ug/Kg		93	70 - 135
Chlorodibromomethane	50.0	50.3		ug/Kg		101	65 - 140
Chloroethane	50.0	40.3		ug/Kg		81	60 - 140
Chloroform	50.0	48.5		ug/Kg		97	70 - 130
Chloromethane	50.0	32.3		ug/Kg		65	45 - 145
cis-1,2-Dichloroethene	50.0	43.3		ug/Kg		87	70 - 125
cis-1,3-Dichloropropene	50.0	46.9		ug/Kg		94	75 - 125
Dibromomethane	50.0	46.9		ug/Kg		94	70 - 130
Dichlorobromomethane	50.0	52.1		ug/Kg		104	70 - 135
Dichlorodifluoromethane	50.0	36.9		ug/Kg		74	35 - 160
Ethylbenzene	50.0	43.7		ug/Kg		87	70 - 125
Ethylene Dibromide	50.0	43.9		ug/Kg		88	70 - 130
Hexachlorobutadiene	50.0	40.8		ug/Kg		82	60 - 135
Isopropylbenzene	50.0	44.6		ug/Kg		89	75 - 130
Methyl tert-butyl ether	50.0	50.2		ug/Kg		100	60 - 140
Methylene Chloride	50.0	39.3		ug/Kg		79	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522630/7
Matrix: Solid
Analysis Batch: 522630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	44.0		ug/Kg		88	70 - 125
Naphthalene	50.0	42.5		ug/Kg		85	55 - 135
n-Butylbenzene	50.0	43.5		ug/Kg		87	70 - 130
N-Propylbenzene	50.0	43.0		ug/Kg		86	70 - 130
o-Xylene	50.0	44.5		ug/Kg		89	70 - 125
sec-Butylbenzene	50.0	43.0		ug/Kg		86	70 - 125
Styrene	50.0	44.6		ug/Kg		89	75 - 130
tert-Butylbenzene	50.0	43.6		ug/Kg		87	70 - 125
Tetrachloroethene	50.0	42.2		ug/Kg		84	70 - 125
Toluene	50.0	40.8		ug/Kg		82	70 - 125
trans-1,2-Dichloroethene	50.0	44.9		ug/Kg		90	70 - 125
trans-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 135
Trichloroethene	50.0	45.2		ug/Kg		90	70 - 125
Trichlorofluoromethane	50.0	53.0		ug/Kg		106	60 - 145
Vinyl acetate	50.0	58.2		ug/Kg		116	45 - 145
Vinyl chloride	50.0	32.8		ug/Kg		66	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: LCSD 440-522630/8
Matrix: Solid
Analysis Batch: 522630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	70 - 130	0	20
1,1,1-Trichloroethane	50.0	50.6		ug/Kg		101	65 - 135	3	20
1,1,2,2-Tetrachloroethane	50.0	41.8		ug/Kg		84	55 - 140	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.4		ug/Kg		85	60 - 140	2	40
1,1,2-Trichloroethane	50.0	44.8		ug/Kg		90	65 - 135	3	20
1,1-Dichloroethane	50.0	45.8		ug/Kg		92	70 - 130	2	20
1,1-Dichloroethene	50.0	43.4		ug/Kg		87	70 - 125	0	20
1,1-Dichloropropene	50.0	42.8		ug/Kg		86	70 - 130	1	20
1,2,3-Trichlorobenzene	50.0	42.4		ug/Kg		85	60 - 130	2	20
1,2,3-Trichloropropane	50.0	49.0		ug/Kg		98	60 - 135	3	25
1,2,4-Trichlorobenzene	50.0	41.8		ug/Kg		84	70 - 135	1	20
1,2,4-Trimethylbenzene	50.0	44.8		ug/Kg		90	70 - 125	0	20
1,2-Dibromo-3-Chloropropane	50.0	52.1		ug/Kg		104	50 - 135	1	30
1,2-Dichlorobenzene	50.0	43.3		ug/Kg		87	75 - 120	3	20
1,2-Dichloroethane	50.0	56.5		ug/Kg		113	60 - 140	0	20
1,2-Dichloropropane	50.0	46.3		ug/Kg		93	70 - 130	0	20
1,3,5-Trimethylbenzene	50.0	43.9		ug/Kg		88	70 - 125	1	20
1,3-Dichlorobenzene	50.0	44.2		ug/Kg		88	75 - 125	0	20
1,3-Dichloropropane	50.0	46.5		ug/Kg		93	70 - 125	3	20
1,4-Dichlorobenzene	50.0	44.3		ug/Kg		89	75 - 120	0	20
2,2-Dichloropropane	50.0	49.8		ug/Kg		100	60 - 145	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522630/8
Matrix: Solid
Analysis Batch: 522630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			50.0	48.1		ug/Kg		96	40 - 145	2	35
2-Chlorotoluene			50.0	42.7		ug/Kg		85	70 - 125	0	20
2-Hexanone			50.0	67.1		ug/Kg		134	40 - 150	0	35
4-Chlorotoluene			50.0	44.3		ug/Kg		89	75 - 125	1	20
4-Isopropyltoluene			50.0	42.9		ug/Kg		86	75 - 125	2	20
4-Methyl-2-pentanone (MIBK)			50.0	59.9		ug/Kg		120	40 - 145	3	35
Benzene			50.0	42.6		ug/Kg		85	65 - 120	1	20
Bromobenzene			50.0	45.8		ug/Kg		92	75 - 120	1	20
Bromoform			50.0	51.9		ug/Kg		104	55 - 135	0	25
Bromomethane			50.0	42.5		ug/Kg		85	60 - 145	2	20
Carbon disulfide			50.0	39.4		ug/Kg		79	50 - 130	0	20
Carbon tetrachloride			50.0	51.6		ug/Kg		103	65 - 140	4	20
Chlorobenzene			50.0	42.1		ug/Kg		84	75 - 120	1	20
Chlorobromomethane			50.0	47.6		ug/Kg		95	70 - 135	2	20
Chlorodibromomethane			50.0	50.8		ug/Kg		102	65 - 140	1	20
Chloroethane			50.0	40.7		ug/Kg		81	60 - 140	1	25
Chloroform			50.0	48.3		ug/Kg		97	70 - 130	0	20
Chloromethane			50.0	34.7		ug/Kg		69	45 - 145	7	25
cis-1,2-Dichloroethene			50.0	44.1		ug/Kg		88	70 - 125	2	20
cis-1,3-Dichloropropene			50.0	46.8		ug/Kg		94	75 - 125	0	20
Dibromomethane			50.0	46.1		ug/Kg		92	70 - 130	2	20
Dichlorobromomethane			50.0	52.2		ug/Kg		104	70 - 135	0	20
Dichlorodifluoromethane			50.0	36.5		ug/Kg		73	35 - 160	1	30
Ethylbenzene			50.0	43.6		ug/Kg		87	70 - 125	0	20
Ethylene Dibromide			50.0	45.1		ug/Kg		90	70 - 130	3	20
Hexachlorobutadiene			50.0	39.7		ug/Kg		79	60 - 135	3	20
Isopropylbenzene			50.0	44.1		ug/Kg		88	75 - 130	1	20
Methyl tert-butyl ether			50.0	49.4		ug/Kg		99	60 - 140	2	25
Methylene Chloride			50.0	41.4		ug/Kg		83	55 - 135	5	20
m-Xylene & p-Xylene			50.0	43.4		ug/Kg		87	70 - 125	1	20
Naphthalene			50.0	42.3		ug/Kg		85	55 - 135	0	25
n-Butylbenzene			50.0	42.9		ug/Kg		86	70 - 130	1	20
N-Propylbenzene			50.0	42.7		ug/Kg		85	70 - 130	1	20
o-Xylene			50.0	44.1		ug/Kg		88	70 - 125	1	20
sec-Butylbenzene			50.0	42.1		ug/Kg		84	70 - 125	2	20
Styrene			50.0	44.8		ug/Kg		90	75 - 130	0	20
tert-Butylbenzene			50.0	43.2		ug/Kg		86	70 - 125	1	20
Tetrachloroethene			50.0	41.0		ug/Kg		82	70 - 125	3	20
Toluene			50.0	40.5		ug/Kg		81	70 - 125	1	20
trans-1,2-Dichloroethene			50.0	43.9		ug/Kg		88	70 - 125	2	20
trans-1,3-Dichloropropene			50.0	50.9		ug/Kg		102	70 - 135	1	20
Trichloroethene			50.0	45.2		ug/Kg		90	70 - 125	0	20
Trichlorofluoromethane			50.0	51.6		ug/Kg		103	60 - 145	3	25
Vinyl acetate			50.0	59.3		ug/Kg		119	45 - 145	2	20
Vinyl chloride			50.0	33.2		ug/Kg		66	55 - 135	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*133*	*X*	*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522630/8
Matrix: Solid
Analysis Batch: 522630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	97		79 - 123

Lab Sample ID: MB 440-522644/4
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/15/19 20:37	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/15/19 20:37	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/15/19 20:37	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/15/19 20:37	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/15/19 20:37	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/15/19 20:37	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
2-Hexanone	ND		10	5.0	ug/Kg			01/15/19 20:37	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/15/19 20:37	1
Benzene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Bromoform	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/15/19 20:37	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Chloroform	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522644/4
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/15/19 20:37	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Styrene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Toluene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/15/19 20:37	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/15/19 20:37	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/15/19 20:37	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/15/19 20:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*01/15/19 20:37*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*		*01/15/19 20:37*	*1*

Lab Sample ID: LCS 440-522644/5
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/Kg		98	70 - 130
1,1,1-Trichloroethane	50.0	44.9		ug/Kg		90	65 - 135
1,1,2,2-Tetrachloroethane	50.0	58.2		ug/Kg		116	55 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9		ug/Kg		102	60 - 140
1,1,2-Trichloroethane	50.0	57.9		ug/Kg		116	65 - 135
1,1-Dichloroethane	50.0	52.4		ug/Kg		105	70 - 130
1,1-Dichloroethene	50.0	55.2		ug/Kg		110	70 - 125
1,1-Dichloropropene	50.0	52.4		ug/Kg		105	70 - 130
1,2,3-Trichlorobenzene	50.0	38.0		ug/Kg		76	60 - 130
1,2,3-Trichloropropane	50.0	49.4		ug/Kg		99	60 - 135
1,2,4-Trichlorobenzene	50.0	39.4		ug/Kg		79	70 - 135
1,2,4-Trimethylbenzene	50.0	49.6		ug/Kg		99	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	42.4		ug/Kg		85	50 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522644/5
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	52.4		ug/Kg		105	75 - 120
1,2-Dichloroethane	50.0	48.9		ug/Kg		98	60 - 140
1,2-Dichloropropane	50.0	58.1		ug/Kg		116	70 - 130
1,3,5-Trimethylbenzene	50.0	50.2		ug/Kg		100	70 - 125
1,3-Dichlorobenzene	50.0	51.3		ug/Kg		103	75 - 125
1,3-Dichloropropane	50.0	53.8		ug/Kg		108	70 - 125
1,4-Dichlorobenzene	50.0	51.6		ug/Kg		103	75 - 120
2,2-Dichloropropane	50.0	47.2		ug/Kg		94	60 - 145
2-Butanone (MEK)	50.0	46.5		ug/Kg		93	40 - 145
2-Chlorotoluene	50.0	51.6		ug/Kg		103	70 - 125
2-Hexanone	50.0	47.3		ug/Kg		95	40 - 150
4-Chlorotoluene	50.0	51.8		ug/Kg		104	75 - 125
4-Isopropyltoluene	50.0	48.8		ug/Kg		98	75 - 125
4-Methyl-2-pentanone (MIBK)	50.0	57.0		ug/Kg		114	40 - 145
Benzene	50.0	55.1		ug/Kg		110	65 - 120
Bromobenzene	50.0	54.7		ug/Kg		109	75 - 120
Bromoform	50.0	46.4		ug/Kg		93	55 - 135
Bromomethane	50.0	57.3		ug/Kg		115	60 - 145
Carbon disulfide	50.0	53.8		ug/Kg		108	50 - 130
Carbon tetrachloride	50.0	45.9		ug/Kg		92	65 - 140
Chlorobenzene	50.0	50.8		ug/Kg		102	75 - 120
Chlorobromomethane	50.0	48.2		ug/Kg		96	70 - 135
Chlorodibromomethane	50.0	51.6		ug/Kg		103	65 - 140
Chloroethane	50.0	62.7		ug/Kg		125	60 - 140
Chloroform	50.0	48.6		ug/Kg		97	70 - 130
Chloromethane	50.0	60.4		ug/Kg		121	45 - 145
cis-1,2-Dichloroethene	50.0	52.8		ug/Kg		106	70 - 125
cis-1,3-Dichloropropene	50.0	58.5		ug/Kg		117	75 - 125
Dibromomethane	50.0	55.3		ug/Kg		111	70 - 130
Dichlorobromomethane	50.0	50.9		ug/Kg		102	70 - 135
Dichlorodifluoromethane	50.0	41.3		ug/Kg		83	35 - 160
Ethylbenzene	50.0	51.6		ug/Kg		103	70 - 125
Ethylene Dibromide	50.0	52.2		ug/Kg		104	70 - 130
Hexachlorobutadiene	50.0	38.0		ug/Kg		76	60 - 135
Isopropylbenzene	50.0	48.6		ug/Kg		97	75 - 130
Methyl tert-butyl ether	50.0	46.7		ug/Kg		93	60 - 140
Methylene Chloride	50.0	54.1		ug/Kg		108	55 - 135
m-Xylene & p-Xylene	50.0	52.0		ug/Kg		104	70 - 125
Naphthalene	50.0	38.6		ug/Kg		77	55 - 135
n-Butylbenzene	50.0	51.4		ug/Kg		103	70 - 130
N-Propylbenzene	50.0	55.0		ug/Kg		110	70 - 130
o-Xylene	50.0	53.6		ug/Kg		107	70 - 125
sec-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 125
Styrene	50.0	48.8		ug/Kg		98	75 - 130
tert-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 125
Tetrachloroethene	50.0	52.6		ug/Kg		105	70 - 125
Toluene	50.0	55.6		ug/Kg		111	70 - 125
trans-1,2-Dichloroethene	50.0	54.6		ug/Kg		109	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522644/5
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	52.8		ug/Kg		106	70 - 135
Trichloroethene	50.0	51.4		ug/Kg		103	70 - 125
Trichlorofluoromethane	50.0	42.2		ug/Kg		84	60 - 145
Vinyl acetate	50.0	52.4		ug/Kg		105	45 - 145
Vinyl chloride	50.0	65.4		ug/Kg		131	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*113*		*79 - 123*

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		39.1	40.9		ug/Kg		105	65 - 145
1,1,1-Trichloroethane	ND		39.1	38.5		ug/Kg		99	65 - 145
1,1,2,2-Tetrachloroethane	ND		39.1	48.6		ug/Kg		124	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		39.1	42.6		ug/Kg		109	60 - 140
1,1,2-Trichloroethane	ND		39.1	49.7		ug/Kg		127	65 - 140
1,1-Dichloroethane	ND		39.1	43.4		ug/Kg		111	65 - 135
1,1-Dichloroethene	ND		39.1	43.9		ug/Kg		112	65 - 135
1,1-Dichloropropene	ND		39.1	43.5		ug/Kg		111	65 - 135
1,2,3-Trichlorobenzene	ND		39.1	31.1		ug/Kg		80	45 - 145
1,2,3-Trichloropropane	ND		39.1	40.6		ug/Kg		104	50 - 150
1,2,4-Trichlorobenzene	ND		39.1	30.4		ug/Kg		78	50 - 140
1,2,4-Trimethylbenzene	ND		39.1	40.9		ug/Kg		105	65 - 140
1,2-Dibromo-3-Chloropropane	ND		39.1	37.8		ug/Kg		97	40 - 150
1,2-Dichlorobenzene	ND		39.1	41.5		ug/Kg		106	70 - 130
1,2-Dichloroethane	ND		39.1	39.8		ug/Kg		102	60 - 150
1,2-Dichloropropane	ND		39.1	46.9		ug/Kg		120	65 - 130
1,3,5-Trimethylbenzene	ND		39.1	41.0		ug/Kg		105	65 - 135
1,3-Dichlorobenzene	ND		39.1	40.2		ug/Kg		103	70 - 130
1,3-Dichloropropane	ND		39.1	44.7		ug/Kg		114	65 - 140
1,4-Dichlorobenzene	ND		39.1	41.2		ug/Kg		105	70 - 130
2,2-Dichloropropane	ND		39.1	40.5		ug/Kg		104	65 - 150
2-Butanone (MEK)	ND		39.1	44.4		ug/Kg		114	25 - 170
2-Chlorotoluene	ND		39.1	40.2		ug/Kg		103	60 - 135
2-Hexanone	ND		39.1	43.5		ug/Kg		111	35 - 160
4-Chlorotoluene	ND		39.1	41.8		ug/Kg		107	65 - 135
4-Isopropyltoluene	ND		39.1	39.8		ug/Kg		102	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		39.1	47.9		ug/Kg		123	40 - 155
Benzene	ND		39.1	43.4		ug/Kg		111	65 - 130
Bromobenzene	ND		39.1	42.7		ug/Kg		109	65 - 140
Bromoform	ND		39.1	38.6		ug/Kg		99	50 - 145
Bromomethane	ND		39.1	44.7		ug/Kg		114	60 - 155
Carbon disulfide	ND		39.1	44.5		ug/Kg		114	40 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	ND		39.1	38.0		ug/Kg		97	60 - 145
Chlorobenzene	ND		39.1	41.5		ug/Kg		106	70 - 130
Chlorobromomethane	ND		39.1	39.7		ug/Kg		102	65 - 145
Chlorodibromomethane	ND		39.1	43.3		ug/Kg		111	60 - 145
Chloroethane	ND		39.1	49.9		ug/Kg		128	60 - 150
Chloroform	ND		39.1	39.3		ug/Kg		101	65 - 135
Chloromethane	ND		39.1	48.6		ug/Kg		124	40 - 145
cis-1,2-Dichloroethene	ND		39.1	42.5		ug/Kg		109	65 - 135
cis-1,3-Dichloropropene	ND		39.1	48.1		ug/Kg		123	70 - 135
Dibromomethane	ND		39.1	43.7		ug/Kg		112	65 - 140
Dichlorobromomethane	ND		39.1	40.4		ug/Kg		103	65 - 145
Dichlorodifluoromethane	ND		39.1	33.3		ug/Kg		85	30 - 160
Ethylbenzene	ND		39.1	42.4		ug/Kg		108	70 - 135
Ethylene Dibromide	ND		39.1	43.3		ug/Kg		111	65 - 140
Hexachlorobutadiene	ND		39.1	29.3		ug/Kg		75	50 - 145
Isopropylbenzene	ND		39.1	40.1		ug/Kg		103	70 - 145
Methyl tert-butyl ether	ND		39.1	38.7		ug/Kg		99	55 - 155
Methylene Chloride	ND		39.1	43.0		ug/Kg		110	55 - 145
m-Xylene & p-Xylene	ND		39.1	42.8		ug/Kg		110	70 - 130
Naphthalene	ND		39.1	32.0		ug/Kg		82	40 - 150
n-Butylbenzene	ND		39.1	41.4		ug/Kg		106	55 - 145
N-Propylbenzene	ND		39.1	43.5		ug/Kg		111	65 - 140
o-Xylene	ND		39.1	42.7		ug/Kg		109	65 - 130
sec-Butylbenzene	ND		39.1	41.4		ug/Kg		106	60 - 135
Styrene	ND		39.1	38.2		ug/Kg		98	70 - 140
tert-Butylbenzene	ND		39.1	39.3		ug/Kg		101	60 - 140
Tetrachloroethene	ND		39.1	42.8		ug/Kg		110	65 - 135
Toluene	ND		39.1	45.2		ug/Kg		116	70 - 130
trans-1,2-Dichloroethene	ND		39.1	44.3		ug/Kg		113	70 - 135
trans-1,3-Dichloropropene	ND		39.1	43.1		ug/Kg		110	60 - 145
Trichloroethene	ND		39.1	41.0		ug/Kg		105	65 - 140
Trichlorofluoromethane	ND		39.1	35.8		ug/Kg		92	55 - 155
Vinyl acetate	ND		39.1	40.5		ug/Kg		104	40 - 150
Vinyl chloride	ND		39.1	52.8		ug/Kg		135	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*116*		*79 - 123*

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.2	49.0		ug/Kg		100	65 - 145	18	20
1,1,1-Trichloroethane	ND		49.2	43.6		ug/Kg		89	65 - 145	12	20
1,1,2,2-Tetrachloroethane	ND		49.2	60.5		ug/Kg		123	40 - 160	22	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.2	47.7		ug/Kg		97	60 - 140	11	40
1,1,2-Trichloroethane	ND		49.2	59.1		ug/Kg		120	65 - 140	17	30
1,1-Dichloroethane	ND		49.2	49.8		ug/Kg		101	65 - 135	14	25
1,1-Dichloroethene	ND		49.2	53.3		ug/Kg		108	65 - 135	19	25
1,1-Dichloropropene	ND		49.2	50.3		ug/Kg		102	65 - 135	14	20
1,2,3-Trichlorobenzene	ND		49.2	39.6		ug/Kg		80	45 - 145	24	30
1,2,3-Trichloropropane	ND		49.2	52.4		ug/Kg		106	50 - 150	25	30
1,2,4-Trichlorobenzene	ND		49.2	40.3		ug/Kg		82	50 - 140	28	30
1,2,4-Trimethylbenzene	ND		49.2	48.4		ug/Kg		98	65 - 140	17	25
1,2-Dibromo-3-Chloropropane	ND		49.2	48.7		ug/Kg		99	40 - 150	25	30
1,2-Dichlorobenzene	ND		49.2	51.3		ug/Kg		104	70 - 130	21	25
1,2-Dichloroethane	ND		49.2	47.9		ug/Kg		97	60 - 150	19	25
1,2-Dichloropropane	ND		49.2	55.9		ug/Kg		114	65 - 130	18	20
1,3,5-Trimethylbenzene	ND		49.2	48.2		ug/Kg		98	65 - 135	16	25
1,3-Dichlorobenzene	ND		49.2	49.8		ug/Kg		101	70 - 130	21	25
1,3-Dichloropropane	ND		49.2	56.8		ug/Kg		115	65 - 140	24	25
1,4-Dichlorobenzene	ND		49.2	50.8		ug/Kg		103	70 - 130	21	25
2,2-Dichloropropane	ND		49.2	46.7		ug/Kg		95	65 - 150	14	25
2-Butanone (MEK)	ND		49.2	55.2		ug/Kg		112	25 - 170	22	40
2-Chlorotoluene	ND		49.2	48.7		ug/Kg		99	60 - 135	19	25
2-Hexanone	ND		49.2	54.3		ug/Kg		110	35 - 160	22	40
4-Chlorotoluene	ND		49.2	49.7		ug/Kg		101	65 - 135	17	25
4-Isopropyltoluene	ND		49.2	47.0		ug/Kg		96	60 - 140	17	25
4-Methyl-2-pentanone (MIBK)	ND		49.2	63.9		ug/Kg		130	40 - 155	29	40
Benzene	ND		49.2	51.3		ug/Kg		104	65 - 130	17	20
Bromobenzene	ND		49.2	52.8		ug/Kg		107	65 - 140	21	25
Bromoform	ND		49.2	49.2		ug/Kg		100	50 - 145	24	30
Bromomethane	ND		49.2	52.6		ug/Kg		107	60 - 155	16	25
Carbon disulfide	ND		49.2	51.8		ug/Kg		105	40 - 140	15	20
Carbon tetrachloride	ND		49.2	44.0		ug/Kg		89	60 - 145	15	25
Chlorobenzene	ND		49.2	50.3		ug/Kg		102	70 - 130	19	25
Chlorobromomethane	ND		49.2	46.3		ug/Kg		94	65 - 145	15	25
Chlorodibromomethane	ND		49.2	52.6		ug/Kg		107	60 - 145	19	25
Chloroethane	ND		49.2	59.3		ug/Kg		120	60 - 150	17	25
Chloroform	ND		49.2	47.0		ug/Kg		95	65 - 135	18	20
Chloromethane	ND		49.2	56.1		ug/Kg		114	40 - 145	14	25
cis-1,2-Dichloroethene	ND		49.2	50.7		ug/Kg		103	65 - 135	17	25
cis-1,3-Dichloropropene	ND		49.2	57.4		ug/Kg		117	70 - 135	18	25
Dibromomethane	ND		49.2	54.3		ug/Kg		110	65 - 140	22	25
Dichlorobromomethane	ND		49.2	49.5		ug/Kg		101	65 - 145	20	20
Dichlorodifluoromethane	ND		49.2	38.6		ug/Kg		78	30 - 160	15	35
Ethylbenzene	ND		49.2	49.6		ug/Kg		101	70 - 135	16	25
Ethylene Dibromide	ND		49.2	53.9		ug/Kg		110	65 - 140	22	25
Hexachlorobutadiene	ND		49.2	35.0		ug/Kg		71	50 - 145	18	35
Isopropylbenzene	ND		49.2	48.0		ug/Kg		98	70 - 145	18	25
Methyl tert-butyl ether	ND		49.2	48.1		ug/Kg		98	55 - 155	22	35
Methylene Chloride	ND		49.2	52.3		ug/Kg		106	55 - 145	20	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 522644

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	ND		49.2	51.2		ug/Kg		104	70 - 130	18	25
Naphthalene	ND		49.2	42.6		ug/Kg		87	40 - 150	28	40
n-Butylbenzene	ND		49.2	49.3		ug/Kg		100	55 - 145	18	30
N-Propylbenzene	ND		49.2	53.0		ug/Kg		108	65 - 140	20	25
o-Xylene	ND		49.2	51.5		ug/Kg		105	65 - 130	19	25
sec-Butylbenzene	ND		49.2	47.5		ug/Kg		97	60 - 135	14	25
Styrene	ND		49.2	47.0		ug/Kg		96	70 - 140	21	25
tert-Butylbenzene	ND		49.2	46.2		ug/Kg		94	60 - 140	16	25
Tetrachloroethene	ND		49.2	50.3		ug/Kg		102	65 - 135	16	25
Toluene	ND		49.2	53.6		ug/Kg		109	70 - 130	17	20
trans-1,2-Dichloroethene	ND		49.2	52.0		ug/Kg		106	70 - 135	16	25
trans-1,3-Dichloropropene	ND		49.2	54.7		ug/Kg		111	60 - 145	24	25
Trichloroethene	ND		49.2	48.8		ug/Kg		99	65 - 140	17	25
Trichlorofluoromethane	ND		49.2	40.4		ug/Kg		82	55 - 155	12	25
Vinyl acetate	ND		49.2	49.3		ug/Kg		100	40 - 150	20	30
Vinyl chloride	ND		49.2	59.9		ug/Kg		122	55 - 140	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*115*		*79 - 123*

Lab Sample ID: MB 440-522714/5
Matrix: Solid
Analysis Batch: 522714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/16/19 08:57	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/16/19 08:57	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/16/19 08:57	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/16/19 08:57	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/16/19 08:57	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/16/19 08:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522714/5
Matrix: Solid
Analysis Batch: 522714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
2-Hexanone	ND		10	5.0	ug/Kg			01/16/19 08:57	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/16/19 08:57	1
Benzene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Bromoform	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/16/19 08:57	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Chloroform	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/16/19 08:57	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Styrene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Toluene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/16/19 08:57	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/16/19 08:57	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/16/19 08:57	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/16/19 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*01/16/19 08:57*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*		*01/16/19 08:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522714/6
Matrix: Solid
Analysis Batch: 522714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	70 - 130
1,1,1-Trichloroethane	50.0	53.1		ug/Kg		106	65 - 135
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/Kg		104	55 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.9		ug/Kg		106	60 - 140
1,1,2-Trichloroethane	50.0	51.8		ug/Kg		104	65 - 135
1,1-Dichloroethane	50.0	50.2		ug/Kg		100	70 - 130
1,1-Dichloroethene	50.0	53.4		ug/Kg		107	70 - 125
1,1-Dichloropropene	50.0	53.0		ug/Kg		106	70 - 130
1,2,3-Trichlorobenzene	50.0	48.7		ug/Kg		97	60 - 130
1,2,3-Trichloropropane	50.0	56.1		ug/Kg		112	60 - 135
1,2,4-Trichlorobenzene	50.0	51.8		ug/Kg		104	70 - 135
1,2,4-Trimethylbenzene	50.0	47.6		ug/Kg		95	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	55.2		ug/Kg		110	50 - 135
1,2-Dichlorobenzene	50.0	52.1		ug/Kg		104	75 - 120
1,2-Dichloroethane	50.0	52.1		ug/Kg		104	60 - 140
1,2-Dichloropropane	50.0	52.5		ug/Kg		105	70 - 130
1,3,5-Trimethylbenzene	50.0	48.5		ug/Kg		97	70 - 125
1,3-Dichlorobenzene	50.0	50.6		ug/Kg		101	75 - 125
1,3-Dichloropropane	50.0	50.9		ug/Kg		102	70 - 125
1,4-Dichlorobenzene	50.0	51.5		ug/Kg		103	75 - 120
2,2-Dichloropropane	50.0	52.8		ug/Kg		106	60 - 145
2-Butanone (MEK)	50.0	57.9		ug/Kg		116	40 - 145
2-Chlorotoluene	50.0	47.8		ug/Kg		96	70 - 125
2-Hexanone	50.0	47.4		ug/Kg		95	40 - 150
4-Chlorotoluene	50.0	48.1		ug/Kg		96	75 - 125
4-Isopropyltoluene	50.0	49.6		ug/Kg		99	75 - 125
4-Methyl-2-pentanone (MIBK)	50.0	47.9		ug/Kg		96	40 - 145
Benzene	50.0	51.0		ug/Kg		102	65 - 120
Bromobenzene	50.0	50.4		ug/Kg		101	75 - 120
Bromoform	50.0	53.8		ug/Kg		108	55 - 135
Bromomethane	50.0	49.5		ug/Kg		99	60 - 145
Carbon disulfide	50.0	52.5		ug/Kg		105	50 - 130
Carbon tetrachloride	50.0	51.8		ug/Kg		104	65 - 140
Chlorobenzene	50.0	49.6		ug/Kg		99	75 - 120
Chlorobromomethane	50.0	56.3		ug/Kg		113	70 - 135
Chlorodibromomethane	50.0	53.0		ug/Kg		106	65 - 140
Chloroethane	50.0	46.7		ug/Kg		93	60 - 140
Chloroform	50.0	51.6		ug/Kg		103	70 - 130
Chloromethane	50.0	42.6		ug/Kg		85	45 - 145
cis-1,2-Dichloroethene	50.0	55.3		ug/Kg		111	70 - 125
cis-1,3-Dichloropropene	50.0	54.3		ug/Kg		109	75 - 125
Dibromomethane	50.0	55.0		ug/Kg		110	70 - 130
Dichlorobromomethane	50.0	51.6		ug/Kg		103	70 - 135
Dichlorodifluoromethane	50.0	43.7		ug/Kg		87	35 - 160
Ethylbenzene	50.0	48.2		ug/Kg		96	70 - 125
Ethylene Dibromide	50.0	51.4		ug/Kg		103	70 - 130
Hexachlorobutadiene	50.0	48.9		ug/Kg		98	60 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522714/6
Matrix: Solid
Analysis Batch: 522714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	49.0		ug/Kg		98	75 - 130
Methyl tert-butyl ether	50.0	56.3		ug/Kg		113	60 - 140
Methylene Chloride	50.0	52.1		ug/Kg		104	55 - 135
m-Xylene & p-Xylene	50.0	48.4		ug/Kg		97	70 - 125
Naphthalene	50.0	55.4		ug/Kg		111	55 - 135
n-Butylbenzene	50.0	48.2		ug/Kg		96	70 - 130
N-Propylbenzene	50.0	47.6		ug/Kg		95	70 - 130
o-Xylene	50.0	50.4		ug/Kg		101	70 - 125
sec-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 125
Styrene	50.0	44.2		ug/Kg		88	75 - 130
tert-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 125
Tetrachloroethene	50.0	50.6		ug/Kg		101	70 - 125
Toluene	50.0	47.9		ug/Kg		96	70 - 125
trans-1,2-Dichloroethene	50.0	52.9		ug/Kg		106	70 - 125
trans-1,3-Dichloropropene	50.0	51.8		ug/Kg		104	70 - 135
Trichloroethene	50.0	54.2		ug/Kg		108	70 - 125
Trichlorofluoromethane	50.0	48.1		ug/Kg		96	60 - 145
Vinyl acetate	50.0	54.4		ug/Kg		109	45 - 145
Vinyl chloride	50.0	42.0		ug/Kg		84	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 440-229636-A-2 MS
Matrix: Solid
Analysis Batch: 522714

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.8	51.9		ug/Kg		104	65 - 145
1,1,1-Trichloroethane	ND		49.8	55.4		ug/Kg		111	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.8	52.7		ug/Kg		106	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.8	55.3		ug/Kg		111	60 - 140
1,1,2-Trichloroethane	ND		49.8	53.8		ug/Kg		108	65 - 140
1,1-Dichloroethane	ND		49.8	51.3		ug/Kg		103	65 - 135
1,1-Dichloroethene	ND		49.8	56.5		ug/Kg		114	65 - 135
1,1-Dichloropropene	ND		49.8	55.6		ug/Kg		112	65 - 135
1,2,3-Trichlorobenzene	ND		49.8	51.4		ug/Kg		103	45 - 145
1,2,3-Trichloropropane	ND		49.8	58.8		ug/Kg		118	50 - 150
1,2,4-Trichlorobenzene	ND		49.8	55.3		ug/Kg		111	50 - 140
1,2,4-Trimethylbenzene	ND		49.8	49.8		ug/Kg		100	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.8	58.1		ug/Kg		117	40 - 150
1,2-Dichlorobenzene	ND		49.8	53.9		ug/Kg		108	70 - 130
1,2-Dichloroethane	ND		49.8	53.5		ug/Kg		107	60 - 150
1,2-Dichloropropane	ND		49.8	53.4		ug/Kg		107	65 - 130
1,3,5-Trimethylbenzene	ND		49.8	50.4		ug/Kg		101	65 - 135
1,3-Dichlorobenzene	ND		49.8	53.7		ug/Kg		108	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-229636-A-2 MS
Matrix: Solid
Analysis Batch: 522714

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	ND		49.8	53.4		ug/Kg		107	65 - 140
1,4-Dichlorobenzene	ND		49.8	53.6		ug/Kg		108	70 - 130
2,2-Dichloropropane	ND		49.8	54.5		ug/Kg		109	65 - 150
2-Butanone (MEK)	ND		49.8	65.2		ug/Kg		131	25 - 170
2-Chlorotoluene	ND		49.8	49.2		ug/Kg		99	60 - 135
2-Hexanone	ND		49.8	53.2		ug/Kg		107	35 - 160
4-Chlorotoluene	ND		49.8	50.6		ug/Kg		102	65 - 135
4-Isopropyltoluene	ND		49.8	51.9		ug/Kg		104	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		49.8	51.8		ug/Kg		104	40 - 155
Benzene	ND		49.8	53.1		ug/Kg		107	65 - 130
Bromobenzene	ND		49.8	53.1		ug/Kg		107	65 - 140
Bromoform	ND		49.8	55.4		ug/Kg		111	50 - 145
Bromomethane	ND		49.8	51.7		ug/Kg		104	60 - 155
Carbon disulfide	ND		49.8	54.5		ug/Kg		109	40 - 140
Carbon tetrachloride	ND		49.8	54.2		ug/Kg		109	60 - 145
Chlorobenzene	ND		49.8	51.8		ug/Kg		104	70 - 130
Chlorobromomethane	ND		49.8	58.6		ug/Kg		118	65 - 145
Chlorodibromomethane	ND		49.8	55.9		ug/Kg		112	60 - 145
Chloroethane	ND		49.8	47.7		ug/Kg		96	60 - 150
Chloroform	ND		49.8	53.6		ug/Kg		108	65 - 135
Chloromethane	ND		49.8	42.5		ug/Kg		85	40 - 145
cis-1,2-Dichloroethene	ND		49.8	58.4		ug/Kg		117	65 - 135
cis-1,3-Dichloropropene	ND		49.8	56.3		ug/Kg		113	70 - 135
Dibromomethane	ND		49.8	57.7		ug/Kg		116	65 - 140
Dichlorobromomethane	ND		49.8	53.8		ug/Kg		108	65 - 145
Dichlorodifluoromethane	ND		49.8	43.1		ug/Kg		87	30 - 160
Ethylbenzene	ND		49.8	49.9		ug/Kg		100	70 - 135
Ethylene Dibromide	ND		49.8	53.6		ug/Kg		108	65 - 140
Hexachlorobutadiene	ND		49.8	48.4		ug/Kg		97	50 - 145
Isopropylbenzene	ND		49.8	50.1		ug/Kg		101	70 - 145
Methyl tert-butyl ether	ND		49.8	59.1		ug/Kg		119	55 - 155
Methylene Chloride	ND		49.8	57.1		ug/Kg		115	55 - 145
m-Xylene & p-Xylene	ND		49.8	49.7		ug/Kg		100	70 - 130
Naphthalene	ND		49.8	59.4		ug/Kg		119	40 - 150
n-Butylbenzene	ND		49.8	49.7		ug/Kg		100	55 - 145
N-Propylbenzene	ND		49.8	49.8		ug/Kg		100	65 - 140
o-Xylene	ND		49.8	51.8		ug/Kg		104	65 - 130
sec-Butylbenzene	ND		49.8	50.0		ug/Kg		100	60 - 135
Styrene	ND		49.8	46.5		ug/Kg		93	70 - 140
tert-Butylbenzene	ND		49.8	49.8		ug/Kg		100	60 - 140
Tetrachloroethene	ND		49.8	53.6		ug/Kg		108	65 - 135
Toluene	ND		49.8	49.8		ug/Kg		100	70 - 130
trans-1,2-Dichloroethene	ND		49.8	55.5		ug/Kg		111	70 - 135
trans-1,3-Dichloropropene	ND		49.8	53.7		ug/Kg		108	60 - 145
Trichloroethene	ND		49.8	59.2		ug/Kg		119	65 - 140
Trichlorofluoromethane	ND		49.8	50.0		ug/Kg		100	55 - 155
Vinyl acetate	ND		49.8	40.3		ug/Kg		81	40 - 150
Vinyl chloride	ND		49.8	43.5		ug/Kg		87	55 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-229636-A-2 MS
Matrix: Solid
Analysis Batch: 522714

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 440-229636-A-2 MSD
Matrix: Solid
Analysis Batch: 522714

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	49.1		ug/Kg		98	65 - 145	6	20
1,1,1-Trichloroethane	ND		50.0	51.5		ug/Kg		103	65 - 145	7	20
1,1,2,2-Tetrachloroethane	ND		50.0	47.9		ug/Kg		96	40 - 160	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	51.9		ug/Kg		104	60 - 140	6	40
1,1,2-Trichloroethane	ND		50.0	51.9		ug/Kg		104	65 - 140	4	30
1,1-Dichloroethane	ND		50.0	48.5		ug/Kg		97	65 - 135	6	25
1,1-Dichloroethene	ND		50.0	53.3		ug/Kg		107	65 - 135	6	25
1,1-Dichloropropene	ND		50.0	52.1		ug/Kg		104	65 - 135	7	20
1,2,3-Trichlorobenzene	ND		50.0	49.4		ug/Kg		99	45 - 145	4	30
1,2,3-Trichloropropane	ND		50.0	55.9		ug/Kg		112	50 - 150	5	30
1,2,4-Trichlorobenzene	ND		50.0	50.2		ug/Kg		100	50 - 140	10	30
1,2,4-Trimethylbenzene	ND		50.0	46.9		ug/Kg		94	65 - 140	6	25
1,2-Dibromo-3-Chloropropane	ND		50.0	55.5		ug/Kg		111	40 - 150	5	30
1,2-Dichlorobenzene	ND		50.0	50.6		ug/Kg		101	70 - 130	6	25
1,2-Dichloroethane	ND		50.0	50.9		ug/Kg		102	60 - 150	5	25
1,2-Dichloropropane	ND		50.0	51.0		ug/Kg		102	65 - 130	4	20
1,3,5-Trimethylbenzene	ND		50.0	46.7		ug/Kg		93	65 - 135	8	25
1,3-Dichlorobenzene	ND		50.0	50.1		ug/Kg		100	70 - 130	7	25
1,3-Dichloropropane	ND		50.0	51.5		ug/Kg		103	65 - 140	4	25
1,4-Dichlorobenzene	ND		50.0	49.3		ug/Kg		99	70 - 130	8	25
2,2-Dichloropropane	ND		50.0	51.7		ug/Kg		103	65 - 150	5	25
2-Butanone (MEK)	ND		50.0	58.0		ug/Kg		116	25 - 170	12	40
2-Chlorotoluene	ND		50.0	47.1		ug/Kg		94	60 - 135	4	25
2-Hexanone	ND		50.0	49.0		ug/Kg		98	35 - 160	8	40
4-Chlorotoluene	ND		50.0	46.9		ug/Kg		94	65 - 135	8	25
4-Isopropyltoluene	ND		50.0	47.8		ug/Kg		96	60 - 140	8	25
4-Methyl-2-pentanone (MIBK)	ND		50.0	49.5		ug/Kg		99	40 - 155	5	40
Benzene	ND		50.0	50.5		ug/Kg		101	65 - 130	5	20
Bromobenzene	ND		50.0	50.2		ug/Kg		100	65 - 140	6	25
Bromoform	ND		50.0	54.9		ug/Kg		110	50 - 145	1	30
Bromomethane	ND		50.0	48.5		ug/Kg		97	60 - 155	6	25
Carbon disulfide	ND		50.0	51.6		ug/Kg		103	40 - 140	6	20
Carbon tetrachloride	ND		50.0	50.1		ug/Kg		100	60 - 145	8	25
Chlorobenzene	ND		50.0	48.5		ug/Kg		97	70 - 130	7	25
Chlorobromomethane	ND		50.0	55.7		ug/Kg		111	65 - 145	5	25
Chlorodibromomethane	ND		50.0	52.8		ug/Kg		106	60 - 145	6	25
Chloroethane	ND		50.0	46.2		ug/Kg		92	60 - 150	3	25
Chloroform	ND		50.0	50.9		ug/Kg		102	65 - 135	5	20
Chloromethane	ND		50.0	40.7		ug/Kg		81	40 - 145	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-229636-A-2 MSD
Matrix: Solid
Analysis Batch: 522714

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		50.0	54.2		ug/Kg		108	65 - 135	7	25
cis-1,3-Dichloropropene	ND		50.0	53.4		ug/Kg		107	70 - 135	5	25
Dibromomethane	ND		50.0	53.3		ug/Kg		107	65 - 140	8	25
Dichlorobromomethane	ND		50.0	51.5		ug/Kg		103	65 - 145	4	20
Dichlorodifluoromethane	ND		50.0	39.0		ug/Kg		78	30 - 160	10	35
Ethylbenzene	ND		50.0	47.7		ug/Kg		95	70 - 135	4	25
Ethylene Dibromide	ND		50.0	51.6		ug/Kg		103	65 - 140	4	25
Hexachlorobutadiene	ND		50.0	43.9		ug/Kg		88	50 - 145	10	35
Isopropylbenzene	ND		50.0	48.0		ug/Kg		96	70 - 145	4	25
Methyl tert-butyl ether	ND		50.0	56.4		ug/Kg		113	55 - 155	5	35
Methylene Chloride	ND		50.0	53.7		ug/Kg		107	55 - 145	6	25
m-Xylene & p-Xylene	ND		50.0	48.1		ug/Kg		96	70 - 130	3	25
Naphthalene	ND		50.0	56.7		ug/Kg		113	40 - 150	5	40
n-Butylbenzene	ND		50.0	46.0		ug/Kg		92	55 - 145	8	30
N-Propylbenzene	ND		50.0	46.7		ug/Kg		93	65 - 140	6	25
o-Xylene	ND		50.0	49.5		ug/Kg		99	65 - 130	5	25
sec-Butylbenzene	ND		50.0	46.0		ug/Kg		92	60 - 135	8	25
Styrene	ND		50.0	43.9		ug/Kg		88	70 - 140	6	25
tert-Butylbenzene	ND		50.0	47.0		ug/Kg		94	60 - 140	6	25
Tetrachloroethene	ND		50.0	50.5		ug/Kg		101	65 - 135	6	25
Toluene	ND		50.0	48.0		ug/Kg		96	70 - 130	4	20
trans-1,2-Dichloroethene	ND		50.0	50.7		ug/Kg		101	70 - 135	9	25
trans-1,3-Dichloropropene	ND		50.0	52.3		ug/Kg		105	60 - 145	3	25
Trichloroethene	ND		50.0	57.5		ug/Kg		115	65 - 140	3	25
Trichlorofluoromethane	ND		50.0	47.3		ug/Kg		95	55 - 155	6	25
Vinyl acetate	ND		50.0	31.1		ug/Kg		62	40 - 150	26	30
Vinyl chloride	ND		50.0	40.6		ug/Kg		81	55 - 140	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-523011/4
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/17/19 08:28	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/17/19 08:28	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/17/19 08:28	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/17/19 08:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523011/4
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/17/19 08:28	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/17/19 08:28	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
2-Hexanone	ND		10	5.0	ug/Kg			01/17/19 08:28	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/17/19 08:28	1
Benzene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Bromoform	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/17/19 08:28	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Chloroform	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/17/19 08:28	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Styrene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Toluene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523011/4
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/17/19 08:28	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/17/19 08:28	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/17/19 08:28	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/17/19 08:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*01/17/19 08:28*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*		*01/17/19 08:28*	*1*

Lab Sample ID: LCS 440-523011/5
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.5		ug/Kg		103	70 - 130
1,1,1-Trichloroethane	50.0	54.4		ug/Kg		109	65 - 135
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	55 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.4		ug/Kg		109	60 - 140
1,1,2-Trichloroethane	50.0	49.7		ug/Kg		99	65 - 135
1,1-Dichloroethane	50.0	51.9		ug/Kg		104	70 - 130
1,1-Dichloroethene	50.0	55.8		ug/Kg		112	70 - 125
1,1-Dichloropropene	50.0	54.8		ug/Kg		110	70 - 130
1,2,3-Trichlorobenzene	50.0	48.7		ug/Kg		97	60 - 130
1,2,3-Trichloropropane	50.0	48.1		ug/Kg		96	60 - 135
1,2,4-Trichlorobenzene	50.0	51.6		ug/Kg		103	70 - 135
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	43.8		ug/Kg		88	50 - 135
1,2-Dichlorobenzene	50.0	52.2		ug/Kg		104	75 - 120
1,2-Dichloroethane	50.0	51.3		ug/Kg		103	60 - 140
1,2-Dichloropropane	50.0	54.3		ug/Kg		109	70 - 130
1,3,5-Trimethylbenzene	50.0	50.0		ug/Kg		100	70 - 125
1,3-Dichlorobenzene	50.0	52.8		ug/Kg		106	75 - 125
1,3-Dichloropropane	50.0	49.6		ug/Kg		99	70 - 125
1,4-Dichlorobenzene	50.0	52.9		ug/Kg		106	75 - 120
2,2-Dichloropropane	50.0	57.7		ug/Kg		115	60 - 145
2-Butanone (MEK)	50.0	50.1		ug/Kg		100	40 - 145
2-Chlorotoluene	50.0	49.6		ug/Kg		99	70 - 125
2-Hexanone	50.0	38.8		ug/Kg		78	40 - 150
4-Chlorotoluene	50.0	49.8		ug/Kg		100	75 - 125
4-Isopropyltoluene	50.0	51.5		ug/Kg		103	75 - 125
4-Methyl-2-pentanone (MIBK)	50.0	40.1		ug/Kg		80	40 - 145
Benzene	50.0	53.3		ug/Kg		107	65 - 120
Bromobenzene	50.0	52.3		ug/Kg		105	75 - 120
Bromoform	50.0	49.3		ug/Kg		99	55 - 135
Bromomethane	50.0	52.4		ug/Kg		105	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523011/5
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	50.0	54.0		ug/Kg		108	50 - 130
Carbon tetrachloride	50.0	53.2		ug/Kg		106	65 - 140
Chlorobenzene	50.0	52.2		ug/Kg		104	75 - 120
Chlorobromomethane	50.0	56.6		ug/Kg		113	70 - 135
Chlorodibromomethane	50.0	51.7		ug/Kg		103	65 - 140
Chloroethane	50.0	48.5		ug/Kg		97	60 - 140
Chloroform	50.0	53.9		ug/Kg		108	70 - 130
Chloromethane	50.0	44.6		ug/Kg		89	45 - 145
cis-1,2-Dichloroethene	50.0	57.5		ug/Kg		115	70 - 125
cis-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	75 - 125
Dibromomethane	50.0	51.7		ug/Kg		103	70 - 130
Dichlorobromomethane	50.0	53.7		ug/Kg		107	70 - 135
Dichlorodifluoromethane	50.0	46.4		ug/Kg		93	35 - 160
Ethylbenzene	50.0	49.8		ug/Kg		100	70 - 125
Ethylene Dibromide	50.0	48.8		ug/Kg		98	70 - 130
Hexachlorobutadiene	50.0	49.3		ug/Kg		99	60 - 135
Isopropylbenzene	50.0	51.0		ug/Kg		102	75 - 130
Methyl tert-butyl ether	50.0	54.3		ug/Kg		109	60 - 140
Methylene Chloride	50.0	52.5		ug/Kg		105	55 - 135
m-Xylene & p-Xylene	50.0	50.8		ug/Kg		102	70 - 125
Naphthalene	50.0	48.8		ug/Kg		98	55 - 135
n-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 130
N-Propylbenzene	50.0	49.7		ug/Kg		99	70 - 130
o-Xylene	50.0	51.4		ug/Kg		103	70 - 125
sec-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 125
Styrene	50.0	45.2		ug/Kg		90	75 - 130
tert-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 125
Tetrachloroethene	50.0	53.6		ug/Kg		107	70 - 125
Toluene	50.0	50.0		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	54.1		ug/Kg		108	70 - 125
trans-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	70 - 135
Trichloroethene	50.0	56.2		ug/Kg		112	70 - 125
Trichlorofluoromethane	50.0	50.1		ug/Kg		100	60 - 145
Vinyl acetate	50.0	49.5		ug/Kg		99	45 - 145
Vinyl chloride	50.0	44.2		ug/Kg		88	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 440-230264-A-15 MS
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.8	54.9		ug/Kg		110	65 - 145
1,1,1-Trichloroethane	ND		49.8	54.2		ug/Kg		109	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.8	50.8		ug/Kg		102	40 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230264-A-15 MS
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.8	47.3		ug/Kg		95	60 - 140
1,1,2-Trichloroethane	ND		49.8	54.3		ug/Kg		109	65 - 140
1,1-Dichloroethane	ND		49.8	51.2		ug/Kg		103	65 - 135
1,1-Dichloroethene	ND		49.8	51.9		ug/Kg		104	65 - 135
1,1-Dichloropropene	ND		49.8	53.0		ug/Kg		107	65 - 135
1,2,3-Trichlorobenzene	ND		49.8	35.0		ug/Kg		70	45 - 145
1,2,3-Trichloropropane	ND		49.8	58.4		ug/Kg		117	50 - 150
1,2,4-Trichlorobenzene	ND		49.8	39.2		ug/Kg		79	50 - 140
1,2,4-Trimethylbenzene	ND		49.8	49.2		ug/Kg		99	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.8	51.0		ug/Kg		102	40 - 150
1,2-Dichlorobenzene	ND		49.8	52.5		ug/Kg		105	70 - 130
1,2-Dichloroethane	ND		49.8	51.9		ug/Kg		104	60 - 150
1,2-Dichloropropane	ND		49.8	53.1		ug/Kg		107	65 - 130
1,3,5-Trimethylbenzene	ND		49.8	50.7		ug/Kg		102	65 - 135
1,3-Dichlorobenzene	ND		49.8	53.3		ug/Kg		107	70 - 130
1,3-Dichloropropane	ND		49.8	53.6		ug/Kg		108	65 - 140
1,4-Dichlorobenzene	ND		49.8	53.4		ug/Kg		107	70 - 130
2,2-Dichloropropane	ND		49.8	57.7		ug/Kg		116	65 - 150
2-Butanone (MEK)	ND		49.8	48.4		ug/Kg		97	25 - 170
2-Chlorotoluene	ND		49.8	52.6		ug/Kg		106	60 - 135
2-Hexanone	ND		49.8	37.9		ug/Kg		76	35 - 160
4-Chlorotoluene	ND		49.8	53.0		ug/Kg		106	65 - 135
4-Isopropyltoluene	ND		49.8	44.8		ug/Kg		90	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		49.8	42.0		ug/Kg		84	40 - 155
Benzene	ND		49.8	53.2		ug/Kg		107	65 - 130
Bromobenzene	ND		49.8	58.6		ug/Kg		118	65 - 140
Bromoform	ND		49.8	51.1		ug/Kg		103	50 - 145
Bromomethane	ND		49.8	40.7		ug/Kg		82	60 - 155
Carbon disulfide	ND		49.8	45.3		ug/Kg		91	40 - 140
Carbon tetrachloride	ND		49.8	52.7		ug/Kg		106	60 - 145
Chlorobenzene	ND		49.8	53.3		ug/Kg		107	70 - 130
Chlorobromomethane	ND		49.8	57.7		ug/Kg		116	65 - 145
Chlorodibromomethane	ND		49.8	56.8		ug/Kg		114	60 - 145
Chloroethane	ND		49.8	40.3		ug/Kg		81	60 - 150
Chloroform	ND		49.8	54.2		ug/Kg		109	65 - 135
Chloromethane	ND		49.8	32.2		ug/Kg		65	40 - 145
cis-1,2-Dichloroethene	ND		49.8	57.3		ug/Kg		115	65 - 135
cis-1,3-Dichloropropene	ND		49.8	58.5		ug/Kg		117	70 - 135
Dibromomethane	ND		49.8	54.6		ug/Kg		110	65 - 140
Dichlorobromomethane	ND		49.8	53.6		ug/Kg		108	65 - 145
Dichlorodifluoromethane	ND		49.8	30.8		ug/Kg		62	30 - 160
Ethylbenzene	ND		49.8	49.9		ug/Kg		100	70 - 135
Ethylene Dibromide	ND		49.8	53.0		ug/Kg		106	65 - 140
Hexachlorobutadiene	ND		49.8	29.4		ug/Kg		59	50 - 145
Isopropylbenzene	ND		49.8	46.6		ug/Kg		94	70 - 145
Methyl tert-butyl ether	ND		49.8	54.6		ug/Kg		110	55 - 155
Methylene Chloride	ND		49.8	53.6		ug/Kg		108	55 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230264-A-15 MS
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	ND		49.8	50.7		ug/Kg		102	70 - 130
Naphthalene	ND		49.8	44.6		ug/Kg		90	40 - 150
n-Butylbenzene	ND		49.8	38.1		ug/Kg		77	55 - 145
N-Propylbenzene	ND		49.8	49.4		ug/Kg		99	65 - 140
o-Xylene	ND		49.8	51.8		ug/Kg		104	65 - 130
sec-Butylbenzene	ND		49.8	43.1		ug/Kg		86	60 - 135
Styrene	ND		49.8	45.9		ug/Kg		92	70 - 140
tert-Butylbenzene	ND		49.8	47.8		ug/Kg		96	60 - 140
Tetrachloroethene	ND		49.8	52.7		ug/Kg		106	65 - 135
Toluene	ND		49.8	53.3		ug/Kg		107	70 - 130
trans-1,2-Dichloroethene	ND		49.8	53.7		ug/Kg		108	70 - 135
trans-1,3-Dichloropropene	ND		49.8	54.7		ug/Kg		110	60 - 145
Trichloroethene	ND		49.8	59.2		ug/Kg		119	65 - 140
Trichlorofluoromethane	ND		49.8	42.2		ug/Kg		85	55 - 155
Vinyl acetate	ND	F1	49.8	ND	F1	ug/Kg		0	40 - 150
Vinyl chloride	ND		49.8	33.3		ug/Kg		67	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: 440-230264-A-15 MSD
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.7	52.4		ug/Kg		105	65 - 145	5	20
1,1,1-Trichloroethane	ND		49.7	53.3		ug/Kg		107	65 - 145	2	20
1,1,2,2-Tetrachloroethane	ND		49.7	44.5		ug/Kg		90	40 - 160	13	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.7	49.4		ug/Kg		99	60 - 140	4	40
1,1,2-Trichloroethane	ND		49.7	50.4		ug/Kg		101	65 - 140	7	30
1,1-Dichloroethane	ND		49.7	51.5		ug/Kg		104	65 - 135	0	25
1,1-Dichloroethene	ND		49.7	50.6		ug/Kg		102	65 - 135	2	25
1,1-Dichloropropene	ND		49.7	52.4		ug/Kg		105	65 - 135	1	20
1,2,3-Trichlorobenzene	ND		49.7	36.2		ug/Kg		73	45 - 145	3	30
1,2,3-Trichloropropane	ND		49.7	52.6		ug/Kg		106	50 - 150	11	30
1,2,4-Trichlorobenzene	ND		49.7	39.8		ug/Kg		80	50 - 140	1	30
1,2,4-Trimethylbenzene	ND		49.7	48.6		ug/Kg		98	65 - 140	1	25
1,2-Dibromo-3-Chloropropane	ND		49.7	46.7		ug/Kg		94	40 - 150	9	30
1,2-Dichlorobenzene	ND		49.7	51.7		ug/Kg		104	70 - 130	2	25
1,2-Dichloroethane	ND		49.7	50.4		ug/Kg		101	60 - 150	3	25
1,2-Dichloropropane	ND		49.7	52.3		ug/Kg		105	65 - 130	1	20
1,3,5-Trimethylbenzene	ND		49.7	49.8		ug/Kg		100	65 - 135	2	25
1,3-Dichlorobenzene	ND		49.7	52.7		ug/Kg		106	70 - 130	1	25
1,3-Dichloropropane	ND		49.7	49.9		ug/Kg		100	65 - 140	7	25
1,4-Dichlorobenzene	ND		49.7	52.7		ug/Kg		106	70 - 130	1	25
2,2-Dichloropropane	ND		49.7	56.8		ug/Kg		114	65 - 150	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230264-A-15 MSD
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	ND		49.7	41.5		ug/Kg		83	25 - 170	15	40
2-Chlorotoluene	ND		49.7	51.6		ug/Kg		104	60 - 135	2	25
2-Hexanone	ND		49.7	33.8		ug/Kg		68	35 - 160	12	40
4-Chlorotoluene	ND		49.7	51.9		ug/Kg		104	65 - 135	2	25
4-Isopropyltoluene	ND		49.7	45.5		ug/Kg		91	60 - 140	2	25
4-Methyl-2-pentanone (MIBK)	ND		49.7	36.8		ug/Kg		74	40 - 155	13	40
Benzene	ND		49.7	52.2		ug/Kg		105	65 - 130	2	20
Bromobenzene	ND		49.7	55.8		ug/Kg		112	65 - 140	5	25
Bromoform	ND		49.7	48.0		ug/Kg		97	50 - 145	6	30
Bromomethane	ND		49.7	40.3		ug/Kg		81	60 - 155	1	25
Carbon disulfide	ND		49.7	45.4		ug/Kg		91	40 - 140	0	20
Carbon tetrachloride	ND		49.7	51.6		ug/Kg		104	60 - 145	2	25
Chlorobenzene	ND		49.7	51.8		ug/Kg		104	70 - 130	3	25
Chlorobromomethane	ND		49.7	53.7		ug/Kg		108	65 - 145	7	25
Chlorodibromomethane	ND		49.7	52.0		ug/Kg		105	60 - 145	9	25
Chloroethane	ND		49.7	38.9		ug/Kg		78	60 - 150	4	25
Chloroform	ND		49.7	54.2		ug/Kg		109	65 - 135	0	20
Chloromethane	ND		49.7	31.8		ug/Kg		64	40 - 145	1	25
cis-1,2-Dichloroethene	ND		49.7	56.9		ug/Kg		114	65 - 135	1	25
cis-1,3-Dichloropropene	ND		49.7	55.9		ug/Kg		112	70 - 135	5	25
Dibromomethane	ND		49.7	51.5		ug/Kg		104	65 - 140	6	25
Dichlorobromomethane	ND		49.7	52.6		ug/Kg		106	65 - 145	2	20
Dichlorodifluoromethane	ND		49.7	31.0		ug/Kg		62	30 - 160	1	35
Ethylbenzene	ND		49.7	48.9		ug/Kg		98	70 - 135	2	25
Ethylene Dibromide	ND		49.7	49.1		ug/Kg		99	65 - 140	8	25
Hexachlorobutadiene	ND		49.7	28.8		ug/Kg		58	50 - 145	2	35
Isopropylbenzene	ND		49.7	47.3		ug/Kg		95	70 - 145	1	25
Methyl tert-butyl ether	ND		49.7	53.9		ug/Kg		108	55 - 155	1	35
Methylene Chloride	ND		49.7	51.4		ug/Kg		103	55 - 145	4	25
m-Xylene & p-Xylene	ND		49.7	48.6		ug/Kg		98	70 - 130	4	25
Naphthalene	ND		49.7	41.6		ug/Kg		84	40 - 150	7	40
n-Butylbenzene	ND		49.7	38.9		ug/Kg		78	55 - 145	2	30
N-Propylbenzene	ND		49.7	49.3		ug/Kg		99	65 - 140	0	25
o-Xylene	ND		49.7	51.0		ug/Kg		103	65 - 130	2	25
sec-Butylbenzene	ND		49.7	43.1		ug/Kg		87	60 - 135	0	25
Styrene	ND		49.7	45.1		ug/Kg		91	70 - 140	2	25
tert-Butylbenzene	ND		49.7	47.2		ug/Kg		95	60 - 140	1	25
Tetrachloroethene	ND		49.7	52.6		ug/Kg		106	65 - 135	0	25
Toluene	ND		49.7	51.0		ug/Kg		103	70 - 130	4	20
trans-1,2-Dichloroethene	ND		49.7	53.0		ug/Kg		107	70 - 135	1	25
trans-1,3-Dichloropropene	ND		49.7	51.0		ug/Kg		103	60 - 145	7	25
Trichloroethene	ND		49.7	60.4		ug/Kg		122	65 - 140	2	25
Trichlorofluoromethane	ND		49.7	42.6		ug/Kg		86	55 - 155	1	25
Vinyl acetate	ND	F1	49.7	ND	F1	ug/Kg		0	40 - 150	NC	30
Vinyl chloride	ND		49.7	33.2		ug/Kg		67	55 - 140	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230264-A-15 MSD
Matrix: Solid
Analysis Batch: 523011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	102		79 - 123

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND	F2	61.7	69.2		ug/Kg		112	65 - 145
1,1,1-Trichloroethane	ND	F2	61.7	71.1		ug/Kg		115	65 - 145
1,1,2,2-Tetrachloroethane	ND		61.7	68.2		ug/Kg		110	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		61.7	73.2		ug/Kg		119	60 - 140
1,1,2-Trichloroethane	ND		61.7	66.6		ug/Kg		108	65 - 140
1,1-Dichloroethane	ND		61.7	66.5		ug/Kg		108	65 - 135
1,1-Dichloroethene	ND		61.7	69.9		ug/Kg		113	65 - 135
1,1-Dichloropropene	ND	F2	61.7	65.8		ug/Kg		107	65 - 135
1,2,3-Trichlorobenzene	ND		61.7	58.6		ug/Kg		95	45 - 145
1,2,3-Trichloropropane	ND		61.7	71.3		ug/Kg		116	50 - 150
1,2,4-Trichlorobenzene	ND		61.7	59.9		ug/Kg		97	50 - 140
1,2,4-Trimethylbenzene	ND		61.7	68.0		ug/Kg		110	65 - 140
1,2-Dibromo-3-Chloropropane	ND		61.7	67.8		ug/Kg		110	40 - 150
1,2-Dichlorobenzene	ND	F2	61.7	68.5		ug/Kg		111	70 - 130
1,2-Dichloroethane	ND		61.7	66.0		ug/Kg		107	60 - 150
1,2-Dichloropropane	ND	F2	61.7	68.1		ug/Kg		110	65 - 130
1,3,5-Trimethylbenzene	ND		61.7	69.7		ug/Kg		113	65 - 135
1,3-Dichlorobenzene	ND		61.7	67.4		ug/Kg		109	70 - 130
1,3-Dichloropropane	ND	F2	61.7	65.1		ug/Kg		105	65 - 140
1,4-Dichlorobenzene	ND	F2	61.7	66.2		ug/Kg		107	70 - 130
2,2-Dichloropropane	ND		61.7	72.4		ug/Kg		117	65 - 150
2-Butanone (MEK)	ND		61.7	61.2		ug/Kg		99	25 - 170
2-Chlorotoluene	ND	F2	61.7	67.9		ug/Kg		110	60 - 135
2-Hexanone	ND		61.7	55.9		ug/Kg		91	35 - 160
4-Chlorotoluene	ND		61.7	66.7		ug/Kg		108	65 - 135
4-Isopropyltoluene	ND		61.7	67.9		ug/Kg		110	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		61.7	56.0		ug/Kg		91	40 - 155
Benzene	ND	F2	61.7	66.5		ug/Kg		108	65 - 130
Bromobenzene	ND	F2	61.7	69.4		ug/Kg		112	65 - 140
Bromoform	ND		61.7	65.0		ug/Kg		105	50 - 145
Bromomethane	ND	F2	61.7	62.3		ug/Kg		101	60 - 155
Carbon disulfide	ND	F2	61.7	62.4		ug/Kg		101	40 - 140
Carbon tetrachloride	ND		61.7	70.5		ug/Kg		114	60 - 145
Chlorobenzene	ND		61.7	66.1		ug/Kg		107	70 - 130
Chlorobromomethane	ND		61.7	70.8		ug/Kg		115	65 - 145
Chlorodibromomethane	ND		61.7	70.0		ug/Kg		113	60 - 145
Chloroethane	ND		61.7	60.3		ug/Kg		98	60 - 150
Chloroform	ND	F2	61.7	69.5		ug/Kg		113	65 - 135
Chloromethane	ND		61.7	56.5		ug/Kg		92	40 - 145
cis-1,2-Dichloroethene	ND		61.7	71.9		ug/Kg		116	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	ND		61.7	70.6		ug/Kg		114	70 - 135
Dibromomethane	ND	F2	61.7	65.8		ug/Kg		107	65 - 140
Dichlorobromomethane	ND	F2	61.7	67.5		ug/Kg		109	65 - 145
Dichlorodifluoromethane	ND		61.7	62.7		ug/Kg		102	30 - 160
Ethylbenzene	ND		61.7	64.0		ug/Kg		104	70 - 135
Ethylene Dibromide	ND	F2	61.7	63.9		ug/Kg		104	65 - 140
Hexachlorobutadiene	ND		61.7	59.2		ug/Kg		96	50 - 145
Isopropylbenzene	ND		61.7	64.7		ug/Kg		105	70 - 145
Methyl tert-butyl ether	ND		61.7	70.0		ug/Kg		113	55 - 155
Methylene Chloride	ND		61.7	66.0		ug/Kg		107	55 - 145
m-Xylene & p-Xylene	ND		61.7	65.0		ug/Kg		105	70 - 130
Naphthalene	ND		61.7	66.2		ug/Kg		107	40 - 150
n-Butylbenzene	ND		61.7	59.8		ug/Kg		97	55 - 145
N-Propylbenzene	ND		61.7	66.4		ug/Kg		108	65 - 140
o-Xylene	ND		61.7	68.9		ug/Kg		112	65 - 130
sec-Butylbenzene	ND		61.7	66.5		ug/Kg		108	60 - 135
Styrene	ND		61.7	58.1		ug/Kg		94	70 - 140
tert-Butylbenzene	ND		61.7	70.9		ug/Kg		115	60 - 140
Tetrachloroethene	ND		61.7	68.8		ug/Kg		112	65 - 135
Toluene	ND	F2	61.7	64.7		ug/Kg		105	70 - 130
trans-1,2-Dichloroethene	ND		61.7	67.8		ug/Kg		110	70 - 135
trans-1,3-Dichloropropene	ND		61.7	65.3		ug/Kg		106	60 - 145
Trichloroethene	ND		61.7	68.2		ug/Kg		111	65 - 140
Trichlorofluoromethane	ND		61.7	64.3		ug/Kg		104	55 - 155
Vinyl acetate	ND		61.7	55.7		ug/Kg		90	40 - 150
Vinyl chloride	ND		61.7	54.8		ug/Kg		89	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	F2	78.9	89.3	F4	ug/Kg		113	65 - 145	25	20
1,1,1-Trichloroethane	ND	F2	78.9	92.3	F4	ug/Kg		117	65 - 145	26	20
1,1,2,2-Tetrachloroethane	ND		78.9	91.5		ug/Kg		116	40 - 160	29	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		78.9	92.5		ug/Kg		117	60 - 140	23	40
1,1,2-Trichloroethane	ND		78.9	84.9		ug/Kg		108	65 - 140	24	30
1,1-Dichloroethane	ND		78.9	85.7		ug/Kg		109	65 - 135	25	25
1,1-Dichloroethene	ND		78.9	90.3		ug/Kg		114	65 - 135	25	25
1,1-Dichloropropene	ND	F2	78.9	85.9	F4	ug/Kg		109	65 - 135	26	20
1,2,3-Trichlorobenzene	ND		78.9	75.9		ug/Kg		96	45 - 145	26	30
1,2,3-Trichloropropane	ND		78.9	94.1		ug/Kg		119	50 - 150	28	30
1,2,4-Trichlorobenzene	ND		78.9	76.0		ug/Kg		96	50 - 140	24	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	ND		78.9	87.1		ug/Kg		110	65 - 140	25	25
1,2-Dibromo-3-Chloropropane	ND		78.9	87.5		ug/Kg		111	40 - 150	25	30
1,2-Dichlorobenzene	ND	F2	78.9	89.1	F4	ug/Kg		113	70 - 130	26	25
1,2-Dichloroethane	ND		78.9	84.7		ug/Kg		107	60 - 150	25	25
1,2-Dichloropropane	ND	F2	78.9	87.5	F4	ug/Kg		111	65 - 130	25	20
1,3,5-Trimethylbenzene	ND		78.9	89.3		ug/Kg		113	65 - 135	25	25
1,3-Dichlorobenzene	ND		78.9	86.1		ug/Kg		109	70 - 130	24	25
1,3-Dichloropropane	ND	F2	78.9	86.2	F4	ug/Kg		109	65 - 140	28	25
1,4-Dichlorobenzene	ND	F2	78.9	86.8	F4	ug/Kg		110	70 - 130	27	25
2,2-Dichloropropane	ND		78.9	90.0		ug/Kg		114	65 - 150	22	25
2-Butanone (MEK)	ND		78.9	78.5		ug/Kg		100	25 - 170	25	40
2-Chlorotoluene	ND	F2	78.9	88.1	F4	ug/Kg		112	60 - 135	26	25
2-Hexanone	ND		78.9	71.8		ug/Kg		91	35 - 160	25	40
4-Chlorotoluene	ND		78.9	84.1		ug/Kg		107	65 - 135	23	25
4-Isopropyltoluene	ND		78.9	86.7		ug/Kg		110	60 - 140	24	25
4-Methyl-2-pentanone (MIBK)	ND		78.9	74.2		ug/Kg		94	40 - 155	28	40
Benzene	ND	F2	78.9	85.8	F4	ug/Kg		109	65 - 130	25	20
Bromobenzene	ND	F2	78.9	91.3	F4	ug/Kg		116	65 - 140	27	25
Bromoform	ND		78.9	85.0		ug/Kg		108	50 - 145	27	30
Bromomethane	ND	F2	78.9	82.0	F4	ug/Kg		104	60 - 155	27	25
Carbon disulfide	ND	F2	78.9	80.4	F4	ug/Kg		102	40 - 140	25	20
Carbon tetrachloride	ND		78.9	89.4		ug/Kg		113	60 - 145	24	25
Chlorobenzene	ND		78.9	83.4		ug/Kg		106	70 - 130	23	25
Chlorobromomethane	ND		78.9	89.4		ug/Kg		113	65 - 145	23	25
Chlorodibromomethane	ND		78.9	89.6		ug/Kg		114	60 - 145	24	25
Chloroethane	ND		78.9	77.0		ug/Kg		98	60 - 150	24	25
Chloroform	ND	F2	78.9	88.0	F4	ug/Kg		112	65 - 135	23	20
Chloromethane	ND		78.9	72.9		ug/Kg		92	40 - 145	25	25
cis-1,2-Dichloroethene	ND		78.9	92.2		ug/Kg		117	65 - 135	25	25
cis-1,3-Dichloropropene	ND		78.9	90.6		ug/Kg		115	70 - 135	25	25
Dibromomethane	ND	F2	78.9	87.7	F4	ug/Kg		111	65 - 140	28	25
Dichlorobromomethane	ND	F2	78.9	86.8	F4	ug/Kg		110	65 - 145	25	20
Dichlorodifluoromethane	ND		78.9	78.2		ug/Kg		99	30 - 160	22	35
Ethylbenzene	ND		78.9	81.4		ug/Kg		103	70 - 135	24	25
Ethylene Dibromide	ND	F2	78.9	83.7	F4	ug/Kg		106	65 - 140	27	25
Hexachlorobutadiene	ND		78.9	76.8		ug/Kg		97	50 - 145	26	35
Isopropylbenzene	ND		78.9	82.9		ug/Kg		105	70 - 145	25	25
Methyl tert-butyl ether	ND		78.9	93.3		ug/Kg		118	55 - 155	29	35
Methylene Chloride	ND		78.9	85.2		ug/Kg		108	55 - 145	25	25
m-Xylene & p-Xylene	ND		78.9	83.8		ug/Kg		106	70 - 130	25	25
Naphthalene	ND		78.9	87.4		ug/Kg		111	40 - 150	28	40
n-Butylbenzene	ND		78.9	75.9		ug/Kg		96	55 - 145	24	30
N-Propylbenzene	ND		78.9	84.7		ug/Kg		107	65 - 140	24	25
o-Xylene	ND		78.9	86.8		ug/Kg		110	65 - 130	23	25
sec-Butylbenzene	ND		78.9	84.6		ug/Kg		107	60 - 135	24	25
Styrene	ND		78.9	73.2		ug/Kg		93	70 - 140	23	25
tert-Butylbenzene	ND		78.9	91.4		ug/Kg		116	60 - 140	25	25
Tetrachloroethene	ND		78.9	87.8		ug/Kg		111	65 - 135	24	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	ND	F2	78.9	83.9	F4	ug/Kg		106	70 - 130	26	20
trans-1,2-Dichloroethene	ND		78.9	85.9		ug/Kg		109	70 - 135	24	25
trans-1,3-Dichloropropene	ND		78.9	83.3		ug/Kg		106	60 - 145	24	25
Trichloroethene	ND		78.9	85.0		ug/Kg		108	65 - 140	22	25
Trichlorofluoromethane	ND		78.9	82.9		ug/Kg		105	55 - 155	25	25
Vinyl acetate	ND		78.9	71.2		ug/Kg		90	40 - 150	25	30
Vinyl chloride	ND		78.9	71.1		ug/Kg		90	55 - 140	26	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND	F2	72.0	79.2		ug/Kg		110	65 - 145
1,1,1-Trichloroethane	ND		72.0	80.0		ug/Kg		111	65 - 145
1,1,2,2-Tetrachloroethane	ND		72.0	83.6		ug/Kg		116	40 - 160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		72.0	81.1		ug/Kg		113	60 - 140
1,1,2-Trichloroethane	ND		72.0	84.5		ug/Kg		117	65 - 140
1,1-Dichloroethane	ND		72.0	76.1		ug/Kg		106	65 - 135
1,1-Dichloroethene	ND		72.0	80.9		ug/Kg		112	65 - 135
1,1-Dichloropropene	ND		72.0	77.6		ug/Kg		108	65 - 135
1,2,3-Trichlorobenzene	ND		72.0	68.2		ug/Kg		95	45 - 145
1,2,3-Trichloropropane	ND		72.0	88.1		ug/Kg		122	50 - 150
1,2,4-Trichlorobenzene	ND		72.0	70.6		ug/Kg		98	50 - 140
1,2,4-Trimethylbenzene	ND	F2	72.0	72.1		ug/Kg		100	65 - 140
1,2-Dibromo-3-Chloropropane	ND		72.0	82.7		ug/Kg		115	40 - 150
1,2-Dichlorobenzene	ND		72.0	77.1		ug/Kg		107	70 - 130
1,2-Dichloroethane	ND		72.0	80.7		ug/Kg		112	60 - 150
1,2-Dichloropropane	ND		72.0	79.2		ug/Kg		110	65 - 130
1,3,5-Trimethylbenzene	ND	F2	72.0	72.4		ug/Kg		101	65 - 135
1,3-Dichlorobenzene	ND		72.0	76.9		ug/Kg		107	70 - 130
1,3-Dichloropropane	ND		72.0	81.5		ug/Kg		113	65 - 140
1,4-Dichlorobenzene	ND		72.0	73.4		ug/Kg		102	70 - 130
2,2-Dichloropropane	ND		72.0	76.9		ug/Kg		107	65 - 150
2-Butanone (MEK)	ND		72.0	79.2		ug/Kg		110	25 - 170
2-Chlorotoluene	ND	F2	72.0	73.2		ug/Kg		102	60 - 135
2-Hexanone	ND		72.0	72.0		ug/Kg		100	35 - 160
4-Chlorotoluene	ND	F2	72.0	73.1		ug/Kg		101	65 - 135
4-Isopropyltoluene	ND		72.0	72.3		ug/Kg		100	60 - 140
4-Methyl-2-pentanone (MIBK)	ND		72.0	73.9		ug/Kg		103	40 - 155
Benzene	ND		72.0	76.6		ug/Kg		106	65 - 130
Bromobenzene	ND	F2	72.0	78.6		ug/Kg		109	65 - 140
Bromoform	ND		72.0	82.6		ug/Kg		115	50 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	ND		72.0	73.7		ug/Kg		102	60 - 155
Carbon disulfide	ND		72.0	77.1		ug/Kg		107	40 - 140
Carbon tetrachloride	ND		72.0	77.1		ug/Kg		107	60 - 145
Chlorobenzene	ND		72.0	77.0		ug/Kg		107	70 - 130
Chlorobromomethane	ND		72.0	88.5		ug/Kg		123	65 - 145
Chlorodibromomethane	ND		72.0	84.7		ug/Kg		118	60 - 145
Chloroethane	ND		72.0	68.0		ug/Kg		94	60 - 150
Chloroform	ND		72.0	78.1		ug/Kg		108	65 - 135
Chloromethane	ND		72.0	64.7		ug/Kg		90	40 - 145
cis-1,2-Dichloroethene	ND		72.0	84.0		ug/Kg		117	65 - 135
cis-1,3-Dichloropropene	ND		72.0	85.0		ug/Kg		118	70 - 135
Dibromomethane	ND		72.0	82.9		ug/Kg		115	65 - 140
Dichlorobromomethane	ND		72.0	79.8		ug/Kg		111	65 - 145
Dichlorodifluoromethane	ND		72.0	68.2		ug/Kg		95	30 - 160
Ethylbenzene	ND		72.0	72.2		ug/Kg		100	70 - 135
Ethylene Dibromide	ND		72.0	81.2		ug/Kg		113	65 - 140
Hexachlorobutadiene	ND		72.0	61.7		ug/Kg		86	50 - 145
Isopropylbenzene	ND		72.0	72.9		ug/Kg		101	70 - 145
Methyl tert-butyl ether	ND		72.0	87.2		ug/Kg		121	55 - 155
Methylene Chloride	ND		72.0	79.0		ug/Kg		110	55 - 145
m-Xylene & p-Xylene	ND		72.0	72.3		ug/Kg		100	70 - 130
Naphthalene	ND		72.0	78.9		ug/Kg		110	40 - 150
n-Butylbenzene	ND		72.0	67.5		ug/Kg		94	55 - 145
N-Propylbenzene	ND	F2	72.0	71.2		ug/Kg		99	65 - 140
o-Xylene	ND		72.0	76.8		ug/Kg		107	65 - 130
sec-Butylbenzene	ND		72.0	70.4		ug/Kg		98	60 - 135
Styrene	ND		72.0	67.4		ug/Kg		94	70 - 140
tert-Butylbenzene	ND	F2	72.0	72.9		ug/Kg		101	60 - 140
Tetrachloroethene	ND		72.0	78.0		ug/Kg		108	65 - 135
Toluene	ND	F2	72.0	75.5		ug/Kg		105	70 - 130
trans-1,2-Dichloroethene	ND		72.0	77.5		ug/Kg		108	70 - 135
trans-1,3-Dichloropropene	ND		72.0	80.0		ug/Kg		111	60 - 145
Trichloroethene	ND		72.0	78.6		ug/Kg		109	65 - 140
Trichlorofluoromethane	ND		72.0	72.4		ug/Kg		100	55 - 155
Vinyl acetate	ND		72.0	32.5		ug/Kg		45	40 - 150
Vinyl chloride	ND		72.0	61.8		ug/Kg		86	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	F2	86.2	99.4	F4	ug/Kg		115	65 - 145	23	20
1,1,1-Trichloroethane	ND		86.2	96.6		ug/Kg		112	65 - 145	19	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	ND		86.2	102		ug/Kg		119	40 - 160	20	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		86.2	95.8		ug/Kg		111	60 - 140	17	40
1,1,2-Trichloroethane	ND		86.2	95.3		ug/Kg		111	65 - 140	12	30
1,1-Dichloroethane	ND		86.2	93.0		ug/Kg		108	65 - 135	20	25
1,1-Dichloroethene	ND		86.2	96.4		ug/Kg		112	65 - 135	17	25
1,1-Dichloropropene	ND		86.2	90.4		ug/Kg		105	65 - 135	15	20
1,2,3-Trichlorobenzene	ND		86.2	69.3		ug/Kg		80	45 - 145	2	30
1,2,3-Trichloropropane	ND		86.2	108		ug/Kg		125	50 - 150	20	30
1,2,4-Trichlorobenzene	ND		86.2	74.1		ug/Kg		86	50 - 140	5	30
1,2,4-Trimethylbenzene	ND	F2	86.2	95.8	F4	ug/Kg		111	65 - 140	28	25
1,2-Dibromo-3-Chloropropane	ND		86.2	97.0		ug/Kg		113	40 - 150	16	30
1,2-Dichlorobenzene	ND		86.2	96.8		ug/Kg		112	70 - 130	23	25
1,2-Dichloroethane	ND		86.2	88.4		ug/Kg		103	60 - 150	9	25
1,2-Dichloropropane	ND		86.2	94.1		ug/Kg		109	65 - 130	17	20
1,3,5-Trimethylbenzene	ND	F2	86.2	98.0	F4	ug/Kg		114	65 - 135	30	25
1,3-Dichlorobenzene	ND		86.2	94.1		ug/Kg		109	70 - 130	20	25
1,3-Dichloropropane	ND		86.2	94.4		ug/Kg		110	65 - 140	15	25
1,4-Dichlorobenzene	ND		86.2	92.4		ug/Kg		107	70 - 130	23	25
2,2-Dichloropropane	ND		86.2	96.2		ug/Kg		112	65 - 150	22	25
2-Butanone (MEK)	ND		86.2	79.4		ug/Kg		92	25 - 170	0	40
2-Chlorotoluene	ND	F2	86.2	97.9	F4	ug/Kg		114	60 - 135	29	25
2-Hexanone	ND		86.2	73.3		ug/Kg		85	35 - 160	2	40
4-Chlorotoluene	ND	F2	86.2	94.8	F4	ug/Kg		110	65 - 135	26	25
4-Isopropyltoluene	ND		86.2	92.8		ug/Kg		108	60 - 140	25	25
4-Methyl-2-pentanone (MIBK)	ND		86.2	77.2		ug/Kg		90	40 - 155	4	40
Benzene	ND		86.2	92.1		ug/Kg		107	65 - 130	18	20
Bromobenzene	ND	F2	86.2	103	F4	ug/Kg		119	65 - 140	27	25
Bromoform	ND		86.2	89.3		ug/Kg		104	50 - 145	8	30
Bromomethane	ND		86.2	88.2		ug/Kg		102	60 - 155	18	25
Carbon disulfide	ND		86.2	85.2		ug/Kg		99	40 - 140	10	20
Carbon tetrachloride	ND		86.2	93.8		ug/Kg		109	60 - 145	20	25
Chlorobenzene	ND		86.2	90.7		ug/Kg		105	70 - 130	16	25
Chlorobromomethane	ND		86.2	99.0		ug/Kg		115	65 - 145	11	25
Chlorodibromomethane	ND		86.2	98.3		ug/Kg		114	60 - 145	15	25
Chloroethane	ND		86.2	84.7		ug/Kg		98	60 - 150	22	25
Chloroform	ND		86.2	94.4		ug/Kg		109	65 - 135	19	20
Chloromethane	ND		86.2	79.1		ug/Kg		92	40 - 145	20	25
cis-1,2-Dichloroethene	ND		86.2	98.1		ug/Kg		114	65 - 135	15	25
cis-1,3-Dichloropropene	ND		86.2	100		ug/Kg		116	70 - 135	17	25
Dibromomethane	ND		86.2	87.9		ug/Kg		102	65 - 140	6	25
Dichlorobromomethane	ND		86.2	92.5		ug/Kg		107	65 - 145	15	20
Dichlorodifluoromethane	ND		86.2	83.6		ug/Kg		97	30 - 160	20	35
Ethylbenzene	ND		86.2	88.8		ug/Kg		103	70 - 135	21	25
Ethylene Dibromide	ND		86.2	90.5		ug/Kg		105	65 - 140	11	25
Hexachlorobutadiene	ND		86.2	54.7		ug/Kg		63	50 - 145	12	35
Isopropylbenzene	ND		86.2	86.7		ug/Kg		101	70 - 145	17	25
Methyl tert-butyl ether	ND		86.2	97.4		ug/Kg		113	55 - 155	11	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND		86.2	92.0		ug/Kg		107	55 - 145	15	25
m-Xylene & p-Xylene	ND		86.2	88.3		ug/Kg		102	70 - 130	20	25
Naphthalene	ND		86.2	84.4		ug/Kg		98	40 - 150	7	40
n-Butylbenzene	ND		86.2	77.2		ug/Kg		90	55 - 145	13	30
N-Propylbenzene	ND	F2	86.2	94.7	F4	ug/Kg		110	65 - 140	28	25
o-Xylene	ND		86.2	93.5		ug/Kg		108	65 - 130	20	25
sec-Butylbenzene	ND		86.2	89.0		ug/Kg		103	60 - 135	23	25
Styrene	ND		86.2	78.2		ug/Kg		91	70 - 140	15	25
tert-Butylbenzene	ND	F2	86.2	98.7	F4	ug/Kg		114	60 - 140	30	25
Tetrachloroethene	ND		86.2	92.2		ug/Kg		107	65 - 135	17	25
Toluene	ND	F2	86.2	94.0	F4	ug/Kg		109	70 - 130	22	20
trans-1,2-Dichloroethene	ND		86.2	89.5		ug/Kg		104	70 - 135	14	25
trans-1,3-Dichloropropene	ND		86.2	89.7		ug/Kg		104	60 - 145	11	25
Trichloroethene	ND		86.2	91.8		ug/Kg		107	65 - 140	16	25
Trichlorofluoromethane	ND		86.2	86.7		ug/Kg		101	55 - 155	18	25
Vinyl acetate	ND		86.2	36.1		ug/Kg		42	40 - 150	11	30
Vinyl chloride	ND		86.2	77.9		ug/Kg		90	55 - 140	23	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: MB 440-523259/4
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/17/19 20:50	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/17/19 20:50	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/17/19 20:50	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/17/19 20:50	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/17/19 20:50	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523259/4
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/17/19 20:50	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
2-Hexanone	ND		10	5.0	ug/Kg			01/17/19 20:50	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/17/19 20:50	1
Benzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Bromoform	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/17/19 20:50	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Chloroform	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/17/19 20:50	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Styrene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Toluene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/17/19 20:50	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/17/19 20:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/17/19 20:50*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*		*01/17/19 20:50*	*1*

Lab Sample ID: LCS 440-523259/14
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.4		ug/Kg		105	70 - 130
1,1,1-Trichloroethane	50.0	55.1		ug/Kg		110	65 - 135
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/Kg		99	55 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.7		ug/Kg		111	60 - 140
1,1,2-Trichloroethane	50.0	49.8		ug/Kg		100	65 - 135
1,1-Dichloroethane	50.0	52.0		ug/Kg		104	70 - 130
1,1-Dichloroethene	50.0	55.7		ug/Kg		111	70 - 125
1,1-Dichloropropene	50.0	54.2		ug/Kg		108	70 - 130
1,2,3-Trichlorobenzene	50.0	49.6		ug/Kg		99	60 - 130
1,2,3-Trichloropropane	50.0	50.8		ug/Kg		102	60 - 135
1,2,4-Trichlorobenzene	50.0	52.6		ug/Kg		105	70 - 135
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/Kg		97	50 - 135
1,2-Dichlorobenzene	50.0	53.2		ug/Kg		106	75 - 120
1,2-Dichloroethane	50.0	51.7		ug/Kg		103	60 - 140
1,2-Dichloropropane	50.0	53.8		ug/Kg		108	70 - 130
1,3,5-Trimethylbenzene	50.0	51.2		ug/Kg		102	70 - 125
1,3-Dichlorobenzene	50.0	53.5		ug/Kg		107	75 - 125
1,3-Dichloropropane	50.0	50.3		ug/Kg		101	70 - 125
1,4-Dichlorobenzene	50.0	52.5		ug/Kg		105	75 - 120
2,2-Dichloropropane	50.0	56.0		ug/Kg		112	60 - 145
2-Butanone (MEK)	50.0	50.9		ug/Kg		102	40 - 145
2-Chlorotoluene	50.0	50.7		ug/Kg		101	70 - 125
2-Hexanone	50.0	40.6		ug/Kg		81	40 - 150
4-Chlorotoluene	50.0	50.4		ug/Kg		101	75 - 125
4-Isopropyltoluene	50.0	51.8		ug/Kg		104	75 - 125
4-Methyl-2-pentanone (MIBK)	50.0	40.7		ug/Kg		81	40 - 145
Benzene	50.0	52.9		ug/Kg		106	65 - 120
Bromobenzene	50.0	52.7		ug/Kg		105	75 - 120
Bromoform	50.0	50.0		ug/Kg		100	55 - 135
Bromomethane	50.0	49.7		ug/Kg		99	60 - 145
Carbon disulfide	50.0	53.5		ug/Kg		107	50 - 130
Carbon tetrachloride	50.0	54.1		ug/Kg		108	65 - 140
Chlorobenzene	50.0	51.3		ug/Kg		103	75 - 120
Chlorobromomethane	50.0	57.7		ug/Kg		115	70 - 135
Chlorodibromomethane	50.0	53.3		ug/Kg		107	65 - 140
Chloroethane	50.0	46.4		ug/Kg		93	60 - 140
Chloroform	50.0	53.8		ug/Kg		108	70 - 130
Chloromethane	50.0	43.5		ug/Kg		87	45 - 145
cis-1,2-Dichloroethene	50.0	58.3		ug/Kg		117	70 - 125
cis-1,3-Dichloropropene	50.0	54.5		ug/Kg		109	75 - 125
Dibromomethane	50.0	52.4		ug/Kg		105	70 - 130
Dichlorobromomethane	50.0	53.9		ug/Kg		108	70 - 135
Dichlorodifluoromethane	50.0	45.9		ug/Kg		92	35 - 160
Ethylbenzene	50.0	49.8		ug/Kg		100	70 - 125
Ethylene Dibromide	50.0	50.9		ug/Kg		102	70 - 130
Hexachlorobutadiene	50.0	49.6		ug/Kg		99	60 - 135
Isopropylbenzene	50.0	50.4		ug/Kg		101	75 - 130
Methyl tert-butyl ether	50.0	55.2		ug/Kg		110	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523259/14
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	53.5		ug/Kg		107	55 - 135
m-Xylene & p-Xylene	50.0	50.5		ug/Kg		101	70 - 125
Naphthalene	50.0	51.4		ug/Kg		103	55 - 135
n-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 130
N-Propylbenzene	50.0	50.1		ug/Kg		100	70 - 130
o-Xylene	50.0	51.9		ug/Kg		104	70 - 125
sec-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 125
Styrene	50.0	45.5		ug/Kg		91	75 - 130
tert-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 125
Tetrachloroethene	50.0	54.8		ug/Kg		110	70 - 125
Toluene	50.0	50.0		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	54.1		ug/Kg		108	70 - 125
trans-1,3-Dichloropropene	50.0	51.9		ug/Kg		104	70 - 135
Trichloroethene	50.0	56.0		ug/Kg		112	70 - 125
Trichlorofluoromethane	50.0	48.5		ug/Kg		97	60 - 145
Vinyl acetate	50.0	47.0		ug/Kg		94	45 - 145
Vinyl chloride	50.0	42.9		ug/Kg		86	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-522444/4
Matrix: Solid
Analysis Batch: 522444

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/15/19 08:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*01/15/19 08:50*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*		*01/15/19 08:50*	*1*
Toluene-d8 (Surr)	*123*		*79 - 123*		*01/15/19 08:50*	*1*

Lab Sample ID: LCS 440-522444/6
Matrix: Solid
Analysis Batch: 522444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	875		ug/Kg		88	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-522444/6
Matrix: Solid
Analysis Batch: 522444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		79 - 120
Toluene-d8 (Surr)	118		79 - 123

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 522444

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 522472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		3040	2640		ug/Kg		87	55 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	104		60 - 120
4-Bromofluorobenzene (Surr)	118		79 - 120
Toluene-d8 (Surr)	121		79 - 123

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 522444

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 522472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3100	2590		ug/Kg		84	55 - 140	2	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	105		60 - 120
4-Bromofluorobenzene (Surr)	123	X	79 - 120
Toluene-d8 (Surr)	126	X	79 - 123

Lab Sample ID: MB 440-522631/6
Matrix: Solid
Analysis Batch: 522631

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/15/19 19:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		60 - 120		01/15/19 19:18	1
4-Bromofluorobenzene (Surr)	99		79 - 120		01/15/19 19:18	1
Toluene-d8 (Surr)	96		79 - 123		01/15/19 19:18	1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-522631/9
Matrix: Solid
Analysis Batch: 522631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	765		ug/Kg		77	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: LCSD 440-522631/10
Matrix: Solid
Analysis Batch: 522631

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	742		ug/Kg		74	60 - 135	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-522645/4
Matrix: Solid
Analysis Batch: 522645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/15/19 20:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*		*01/15/19 20:37*	*1*
4-Bromofluorobenzene (Surr)	*115*		*79 - 120*		*01/15/19 20:37*	*1*
Toluene-d8 (Surr)	*121*		*79 - 123*		*01/15/19 20:37*	*1*

Lab Sample ID: LCS 440-522645/6
Matrix: Solid
Analysis Batch: 522645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	822		ug/Kg		82	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*
Toluene-d8 (Surr)	*122*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 522645

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2700	2500		ug/Kg		93	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*
Toluene-d8 (Surr)	*116*		*79 - 123*

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 522645

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3400	3030		ug/Kg		89	55 - 140	19	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*
Toluene-d8 (Surr)	*115*		*79 - 123*

Lab Sample ID: MB 440-522715/5
Matrix: Solid
Analysis Batch: 522715

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/16/19 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*01/16/19 08:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*		*01/16/19 08:57*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*		*01/16/19 08:57*	*1*

Lab Sample ID: LCS 440-522715/7
Matrix: Solid
Analysis Batch: 522715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			1000	1090		ug/Kg		109	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*106*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-229636-A-2 MS
Matrix: Solid
Analysis Batch: 522715

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		3440	3450		ug/Kg		101	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 440-229636-A-2 MSD
Matrix: Solid
Analysis Batch: 522715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3450	3220		ug/Kg		93	55 - 140	7	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-523012/4
Matrix: Solid
Analysis Batch: 523012

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/17/19 08:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*		*01/17/19 08:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*01/17/19 08:28*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*		*01/17/19 08:28*	*1*

Lab Sample ID: LCS 440-523012/6
Matrix: Solid
Analysis Batch: 523012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			1000	1040		ug/Kg		104	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-230264-A-15 MS
Matrix: Solid
Analysis Batch: 523012

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		3440	2880		ug/Kg		84	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: 440-230264-A-15 MSD
Matrix: Solid
Analysis Batch: 523012

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3430	2940		ug/Kg		86	55 - 140	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		4260	4110		ug/Kg		96	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*108*		*60 - 120*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		5440	5150		ug/Kg		95	55 - 140	23	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		4970	4740		ug/Kg		95	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		5950	5070		ug/Kg		85	55 - 140	7	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*60 - 120*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: MB 440-523260/4
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/17/19 20:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*01/17/19 20:50*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*01/17/19 20:50*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*		*01/17/19 20:50*	*1*

Lab Sample ID: LCS 440-523260/15
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			1000	1030		ug/Kg		103	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*106*		*79 - 123*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-258562/1-A
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Anthracene	ND		5.0	2.0	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Chrysene	ND		5.0	1.4	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Fluorene	ND		5.0	2.2	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/15/19 15:04	01/18/19 12:32	1
Pyrene	ND		5.0	1.7	ug/Kg		01/15/19 15:04	01/18/19 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*01/15/19 15:04*	*01/18/19 12:32*	*1*
Terphenyl-d14	*115*		*35 - 146*	*01/15/19 15:04*	*01/18/19 12:32*	*1*

Lab Sample ID: LCS 720-258562/2-A
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	570		ug/Kg		85	46 - 110
Acenaphthene	667	638		ug/Kg		96	46 - 106
Acenaphthylene	667	633		ug/Kg		95	46 - 108
Anthracene	667	686		ug/Kg		103	55 - 103
Benzo[a]anthracene	667	661		ug/Kg		99	54 - 110
Benzo[a]pyrene	667	705		ug/Kg		106	62 - 111
Benzo[b]fluoranthene	667	660		ug/Kg		99	60 - 109
Benzo[g,h,i]perylene	667	734		ug/Kg		110	52 - 114
Benzo[k]fluoranthene	667	690		ug/Kg		104	58 - 109
Chrysene	667	775	*	ug/Kg		116	54 - 108
Dibenz(a,h)anthracene	667	744		ug/Kg		112	58 - 112
Fluoranthene	667	684		ug/Kg		103	59 - 109
Fluorene	667	668		ug/Kg		100	52 - 106
Indeno[1,2,3-cd]pyrene	667	740		ug/Kg		111	55 - 120
Naphthalene	667	584		ug/Kg		88	49 - 110
Phenanthrene	667	653		ug/Kg		98	57 - 110
Pyrene	667	709		ug/Kg		106	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*33 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-258562/2-A
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258562

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	*108*		*35 - 146*

Lab Sample ID: 720-90673-E-19-E MS
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	27		639	454		ug/Kg		67	46 - 110
Acenaphthene	ND		639	511		ug/Kg		80	46 - 106
Acenaphthylene	2.4	J	639	493		ug/Kg		77	46 - 108
Anthracene	7.9		639	536		ug/Kg		83	55 - 103
Benzo[a]anthracene	6.6		639	513		ug/Kg		79	54 - 110
Benzo[a]pyrene	5.2		639	509		ug/Kg		79	62 - 111
Benzo[b]fluoranthene	14		639	491		ug/Kg		75	60 - 109
Benzo[g,h,i]perylene	11		639	468		ug/Kg		72	52 - 114
Benzo[k]fluoranthene	5.0		639	521		ug/Kg		81	58 - 109
Chrysene	13	*	639	592		ug/Kg		91	54 - 108
Dibenz(a,h)anthracene	ND		639	478		ug/Kg		75	58 - 112
Fluoranthene	14		639	472		ug/Kg		72	59 - 109
Fluorene	3.8	J	639	531		ug/Kg		83	52 - 106
Indeno[1,2,3-cd]pyrene	7.1		639	474		ug/Kg		73	55 - 120
Naphthalene	25		639	451		ug/Kg		67	49 - 110
Phenanthrene	26		639	536		ug/Kg		80	57 - 110
Pyrene	12		639	565		ug/Kg		87	50 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*62*		*33 - 120*
Terphenyl-d14	*84*		*35 - 146*

Lab Sample ID: 720-90673-E-19-F MSD
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	27		638	498		ug/Kg		74	46 - 110	9	35
Acenaphthene	ND		638	547		ug/Kg		86	46 - 106	7	35
Acenaphthylene	2.4	J	638	531		ug/Kg		83	46 - 108	8	35
Anthracene	7.9		638	572		ug/Kg		88	55 - 103	6	35
Benzo[a]anthracene	6.6		638	546		ug/Kg		85	54 - 110	6	35
Benzo[a]pyrene	5.2		638	545		ug/Kg		85	62 - 111	7	35
Benzo[b]fluoranthene	14		638	523		ug/Kg		80	60 - 109	6	35
Benzo[g,h,i]perylene	11		638	454		ug/Kg		69	52 - 114	3	35
Benzo[k]fluoranthene	5.0		638	555		ug/Kg		86	58 - 109	6	35
Chrysene	13	*	638	629		ug/Kg		97	54 - 108	6	35
Dibenz(a,h)anthracene	ND		638	486		ug/Kg		76	58 - 112	2	35
Fluoranthene	14		638	503		ug/Kg		77	59 - 109	6	35
Fluorene	3.8	J	638	580		ug/Kg		90	52 - 106	9	35
Indeno[1,2,3-cd]pyrene	7.1		638	476		ug/Kg		74	55 - 120	0	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90673-E-19-F MSD
Matrix: Solid
Analysis Batch: 258768

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	25		638	489		ug/Kg		73	49 - 110	8	35
Phenanthrene	26		638	570		ug/Kg		85	57 - 110	6	35
Pyrene	12		638	599		ug/Kg		92	50 - 120	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*33 - 120*
Terphenyl-d14	*91*		*35 - 146*

Lab Sample ID: MB 720-258581/1-A
Matrix: Solid
Analysis Batch: 258958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Anthracene	ND		5.0	2.0	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Chrysene	ND		5.0	1.4	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Fluorene	ND		5.0	2.2	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/15/19 17:13	01/22/19 15:49	1
Pyrene	ND		5.0	1.7	ug/Kg		01/15/19 17:13	01/22/19 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*33 - 120*	*01/15/19 17:13*	*01/22/19 15:49*	*1*
Terphenyl-d14	*84*		*35 - 146*	*01/15/19 17:13*	*01/22/19 15:49*	*1*

Lab Sample ID: LCS 720-258581/2-A
Matrix: Solid
Analysis Batch: 258958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	406		ug/Kg		61	46 - 110
Acenaphthene	667	427		ug/Kg		64	46 - 106
Acenaphthylene	667	430		ug/Kg		65	46 - 108
Anthracene	667	424		ug/Kg		64	55 - 103
Benzo[a]anthracene	667	413		ug/Kg		62	54 - 110
Benzo[a]pyrene	667	415		ug/Kg		62	62 - 111
Benzo[b]fluoranthene	667	406		ug/Kg		61	60 - 109
Benzo[g,h,i]perylene	667	367		ug/Kg		55	52 - 114

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-258581/2-A
Matrix: Solid
Analysis Batch: 258958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[k]fluoranthene	667	402		ug/Kg		60	58 - 109
Chrysene	667	453		ug/Kg		68	54 - 108
Dibenz(a,h)anthracene	667	414		ug/Kg		62	58 - 112
Fluoranthene	667	444		ug/Kg		67	59 - 109
Fluorene	667	438		ug/Kg		66	52 - 106
Indeno[1,2,3-cd]pyrene	667	406		ug/Kg		61	55 - 120
Naphthalene	667	409		ug/Kg		61	49 - 110
Phenanthrene	667	407		ug/Kg		61	57 - 110
Pyrene	667	398		ug/Kg		60	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*56*		*33 - 120*
Terphenyl-d14	*62*		*35 - 146*

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 258958

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	20		641	403		ug/Kg		60	46 - 110
Acenaphthene	ND		641	368		ug/Kg		57	46 - 106
Acenaphthylene	4.5	J F1 F2	641	61.1	F1	ug/Kg		9	46 - 108
Anthracene	2.4	J F1	641	52.3	F1	ug/Kg		8	55 - 103
Benzo[a]anthracene	2.1	J F1 F2	641	97.2	F1	ug/Kg		15	54 - 110
Benzo[a]pyrene	ND	F1	641	32.0	F1	ug/Kg		5	62 - 111
Benzo[b]fluoranthene	11	F1 F2	641	209	F1	ug/Kg		31	60 - 109
Benzo[g,h,i]perylene	ND	F1 F2	641	109	F1	ug/Kg		17	52 - 114
Benzo[k]fluoranthene	2.8	J F1 F2	641	171	F1	ug/Kg		26	58 - 109
Chrysene	17	F1	641	294	F1	ug/Kg		43	54 - 108
Dibenz(a,h)anthracene	ND	F1 F2	641	129	F1	ug/Kg		20	58 - 112
Fluoranthene	29	F1	641	317	F1	ug/Kg		45	59 - 109
Fluorene	3.0	J	641	391		ug/Kg		60	52 - 106
Indeno[1,2,3-cd]pyrene	ND	F1 F2	641	103	F1	ug/Kg		16	55 - 120
Naphthalene	130		641	454		ug/Kg		50	49 - 110
Phenanthrene	59	F1	641	386	F1	ug/Kg		51	57 - 110
Pyrene	16	F1 F2	641	242	F1	ug/Kg		35	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*33 - 120*
Terphenyl-d14	*63*		*35 - 146*

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 258958

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	20		639	429		ug/Kg		64	46 - 110	6	35
Acenaphthene	ND		639	404		ug/Kg		63	46 - 106	9	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 258958

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	4.5	J F1 F2	639	244	F1 F2	ug/Kg		38	46 - 108	120	35
Anthracene	2.4	J F1	639	48.0	F1	ug/Kg		7	55 - 103	9	35
Benzo[a]anthracene	2.1	J F1 F2	639	174	F1 F2	ug/Kg		27	54 - 110	57	35
Benzo[a]pyrene	ND	F1	639	37.9	F1	ug/Kg		6	62 - 111	17	35
Benzo[b]fluoranthene	11	F1 F2	639	316	F1 F2	ug/Kg		48	60 - 109	41	35
Benzo[g,h,i]perylene	ND	F1 F2	639	173	F1 F2	ug/Kg		27	52 - 114	46	35
Benzo[k]fluoranthene	2.8	J F1 F2	639	278	F1 F2	ug/Kg		43	58 - 109	48	35
Chrysene	17	F1	639	405		ug/Kg		61	54 - 108	32	35
Dibenz(a,h)anthracene	ND	F1 F2	639	200	F1 F2	ug/Kg		31	58 - 112	43	35
Fluoranthene	29	F1	639	441		ug/Kg		64	59 - 109	33	35
Fluorene	3.0	J	639	461		ug/Kg		72	52 - 106	16	35
Indeno[1,2,3-cd]pyrene	ND	F1 F2	639	194	F1 F2	ug/Kg		30	55 - 120	61	35
Naphthalene	130		639	498		ug/Kg		57	49 - 110	9	35
Phenanthrene	59	F1	639	466		ug/Kg		64	57 - 110	19	35
Pyrene	16	F1 F2	639	348	F2	ug/Kg		52	50 - 120	36	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*33 - 120*
Terphenyl-d14	*74*		*35 - 146*

Lab Sample ID: MB 720-258709/1-A
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Anthracene	ND		5.0	2.0	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Chrysene	ND		5.0	1.4	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Fluorene	ND		5.0	2.2	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/18/19 14:16	01/21/19 11:37	1
Pyrene	ND		5.0	1.7	ug/Kg		01/18/19 14:16	01/21/19 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*33 - 120*	*01/18/19 14:16*	*01/21/19 11:37*	*1*
Terphenyl-d14	*96*		*35 - 146*	*01/18/19 14:16*	*01/21/19 11:37*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-258709/2-A
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	442		ug/Kg		66	46 - 110
Acenaphthene	667	476		ug/Kg		71	46 - 106
Acenaphthylene	667	478		ug/Kg		72	46 - 108
Anthracene	667	564		ug/Kg		85	55 - 103
Benzo[a]anthracene	667	580		ug/Kg		87	54 - 110
Benzo[a]pyrene	667	623		ug/Kg		93	62 - 111
Benzo[b]fluoranthene	667	582		ug/Kg		87	60 - 109
Benzo[g,h,i]perylene	667	599		ug/Kg		90	52 - 114
Benzo[k]fluoranthene	667	619		ug/Kg		93	58 - 109
Chrysene	667	655		ug/Kg		98	54 - 108
Dibenz(a,h)anthracene	667	634		ug/Kg		95	58 - 112
Fluoranthene	667	577		ug/Kg		87	59 - 109
Fluorene	667	519		ug/Kg		78	52 - 106
Indeno[1,2,3-cd]pyrene	667	634		ug/Kg		95	55 - 120
Naphthalene	667	441		ug/Kg		66	49 - 110
Phenanthrene	667	526		ug/Kg		79	57 - 110
Pyrene	667	574		ug/Kg		86	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*33 - 120*
Terphenyl-d14	*95*		*35 - 146*

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	5.4	J	656	506		ug/Kg		76	46 - 110
Acenaphthene	ND		656	518		ug/Kg		79	46 - 106
Acenaphthylene	ND		656	529		ug/Kg		81	46 - 108
Anthracene	3.2	J	656	540		ug/Kg		82	55 - 103
Benzo[a]anthracene	10		656	543		ug/Kg		81	54 - 110
Benzo[a]pyrene	11		656	576		ug/Kg		86	62 - 111
Benzo[b]fluoranthene	15		656	576		ug/Kg		86	60 - 109
Benzo[g,h,i]perylene	13		656	548		ug/Kg		82	52 - 114
Benzo[k]fluoranthene	5.3		656	543		ug/Kg		82	58 - 109
Chrysene	14		656	620		ug/Kg		92	54 - 108
Dibenz(a,h)anthracene	ND		656	559		ug/Kg		85	58 - 112
Fluoranthene	27		656	587		ug/Kg		85	59 - 109
Fluorene	ND		656	547		ug/Kg		83	52 - 106
Indeno[1,2,3-cd]pyrene	8.5		656	567		ug/Kg		85	55 - 120
Naphthalene	5.2		656	502		ug/Kg		76	49 - 110
Phenanthrene	25		656	565		ug/Kg		82	57 - 110
Pyrene	23		656	593		ug/Kg		87	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*33 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258709

Surrogate	MS %Recovery	MS Qualifier	Limits
Terphenyl-d14	*94*		*35 - 146*

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	5.4	J	656	486		ug/Kg		73	46 - 110	4	35
Acenaphthene	ND		656	497		ug/Kg		76	46 - 106	4	35
Acenaphthylene	ND		656	509		ug/Kg		78	46 - 108	4	35
Anthracene	3.2	J	656	542		ug/Kg		82	55 - 103	0	35
Benzo[a]anthracene	10		656	557		ug/Kg		83	54 - 110	3	35
Benzo[a]pyrene	11		656	598		ug/Kg		89	62 - 111	4	35
Benzo[b]fluoranthene	15		656	604		ug/Kg		90	60 - 109	5	35
Benzo[g,h,i]perylene	13		656	556		ug/Kg		83	52 - 114	1	35
Benzo[k]fluoranthene	5.3		656	562		ug/Kg		85	58 - 109	3	35
Chrysene	14		656	654		ug/Kg		98	54 - 108	5	35
Dibenz(a,h)anthracene	ND		656	566		ug/Kg		86	58 - 112	1	35
Fluoranthene	27		656	630		ug/Kg		92	59 - 109	7	35
Fluorene	ND		656	529		ug/Kg		81	52 - 106	3	35
Indeno[1,2,3-cd]pyrene	8.5		656	578		ug/Kg		87	55 - 120	2	35
Naphthalene	5.2		656	482		ug/Kg		73	49 - 110	4	35
Phenanthrene	25		656	615		ug/Kg		90	57 - 110	8	35
Pyrene	23		656	624		ug/Kg		92	50 - 120	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	*68*		*33 - 120*
Terphenyl-d14	*95*		*35 - 146*

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	190		654	712		ug/Kg		80	46 - 110
Acenaphthene	8.7		654	513		ug/Kg		77	46 - 106
Acenaphthylene	2.9	J	654	514		ug/Kg		78	46 - 108
Anthracene	12		654	575		ug/Kg		86	55 - 103
Benzo[a]anthracene	8.7		654	554		ug/Kg		83	54 - 110
Benzo[a]pyrene	8.1		654	593		ug/Kg		89	62 - 111
Benzo[b]fluoranthene	14		654	576		ug/Kg		86	60 - 109
Benzo[g,h,i]perylene	8.5		654	532		ug/Kg		80	52 - 114
Benzo[k]fluoranthene	2.1	J	654	561		ug/Kg		86	58 - 109
Chrysene	30		654	656		ug/Kg		96	54 - 108
Dibenz(a,h)anthracene	3.6	J	654	571		ug/Kg		87	58 - 112
Fluoranthene	15		654	575		ug/Kg		86	59 - 109
Fluorene	54		654	616		ug/Kg		86	52 - 106
Indeno[1,2,3-cd]pyrene	ND		654	567		ug/Kg		87	55 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	79		654	565		ug/Kg		74	49 - 110
Phenanthrene	160		654	758		ug/Kg		92	57 - 110
Pyrene	27		654	603		ug/Kg		88	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*33 - 120*
Terphenyl-d14	*98*		*35 - 146*

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	190		658	703		ug/Kg		78	46 - 110	1	35
Acenaphthene	8.7		658	540		ug/Kg		81	46 - 106	5	35
Acenaphthylene	2.9	J	658	540		ug/Kg		82	46 - 108	5	35
Anthracene	12		658	586		ug/Kg		87	55 - 103	2	35
Benzo[a]anthracene	8.7		658	572		ug/Kg		86	54 - 110	3	35
Benzo[a]pyrene	8.1		658	612		ug/Kg		92	62 - 111	3	35
Benzo[b]fluoranthene	14		658	604		ug/Kg		90	60 - 109	5	35
Benzo[g,h,i]perylene	8.5		658	541		ug/Kg		81	52 - 114	2	35
Benzo[k]fluoranthene	2.1	J	658	569		ug/Kg		86	58 - 109	1	35
Chrysene	30		658	670		ug/Kg		97	54 - 108	2	35
Dibenz(a,h)anthracene	3.6	J	658	585		ug/Kg		88	58 - 112	2	35
Fluoranthene	15		658	586		ug/Kg		87	59 - 109	2	35
Fluorene	54		658	632		ug/Kg		88	52 - 106	3	35
Indeno[1,2,3-cd]pyrene	ND		658	577		ug/Kg		88	55 - 120	2	35
Naphthalene	79		658	572		ug/Kg		75	49 - 110	1	35
Phenanthrene	160		658	759		ug/Kg		91	57 - 110	0	35
Pyrene	27		658	616		ug/Kg		89	50 - 120	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*33 - 120*
Terphenyl-d14	*100*		*35 - 146*

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	9.3	J	658	497		ug/Kg		74	46 - 110
Acenaphthene	2.8	J	658	539		ug/Kg		81	46 - 106
Acenaphthylene	5.0		658	558		ug/Kg		84	46 - 108
Anthracene	3.1	J	658	572		ug/Kg		86	55 - 103
Benzo[a]anthracene	7.4		658	555		ug/Kg		83	54 - 110
Benzo[a]pyrene	9.9		658	603		ug/Kg		90	62 - 111
Benzo[b]fluoranthene	16		658	608		ug/Kg		90	60 - 109
Benzo[g,h,i]perylene	9.0		658	418		ug/Kg		62	52 - 114

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[k]fluoranthene	5.6		658	595		ug/Kg		89	58 - 109
Chrysene	15		658	636		ug/Kg		94	54 - 108
Dibenz(a,h)anthracene	ND		658	473		ug/Kg		72	58 - 112
Fluoranthene	16		658	602		ug/Kg		89	59 - 109
Fluorene	3.0	J	658	583		ug/Kg		88	52 - 106
Indeno[1,2,3-cd]pyrene	7.1		658	467		ug/Kg		70	55 - 120
Naphthalene	11		658	471		ug/Kg		70	49 - 110
Phenanthrene	21		658	580		ug/Kg		85	57 - 110
Pyrene	22		658	626		ug/Kg		92	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*33 - 120*
Terphenyl-d14	*101*		*35 - 146*

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 258858

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	9.3	J	657	485		ug/Kg		72	46 - 110	3	35
Acenaphthene	2.8	J	657	530		ug/Kg		80	46 - 106	2	35
Acenaphthylene	5.0		657	543		ug/Kg		82	46 - 108	3	35
Anthracene	3.1	J	657	575		ug/Kg		87	55 - 103	1	35
Benzo[a]anthracene	7.4		657	561		ug/Kg		84	54 - 110	1	35
Benzo[a]pyrene	9.9		657	603		ug/Kg		90	62 - 111	0	35
Benzo[b]fluoranthene	16		657	614		ug/Kg		91	60 - 109	1	35
Benzo[g,h,i]perylene	9.0		657	373		ug/Kg		55	52 - 114	11	35
Benzo[k]fluoranthene	5.6		657	608		ug/Kg		92	58 - 109	2	35
Chrysene	15		657	643		ug/Kg		96	54 - 108	1	35
Dibenz(a,h)anthracene	ND		657	438		ug/Kg		67	58 - 112	7	35
Fluoranthene	16		657	592		ug/Kg		88	59 - 109	2	35
Fluorene	3.0	J	657	579		ug/Kg		88	52 - 106	1	35
Indeno[1,2,3-cd]pyrene	7.1		657	430		ug/Kg		64	55 - 120	8	35
Naphthalene	11		657	454		ug/Kg		68	49 - 110	4	35
Phenanthrene	21		657	586		ug/Kg		86	57 - 110	1	35
Pyrene	22		657	626		ug/Kg		92	50 - 120	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*33 - 120*
Terphenyl-d14	*103*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-258386/1-A
Matrix: Solid
Analysis Batch: 258737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/11/19 15:04	01/19/19 00:13	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/11/19 15:04	01/19/19 00:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*110*		*40 - 130*	*01/11/19 15:04*	*01/19/19 00:13*	*1*

Lab Sample ID: LCS 720-258386/2-A
Matrix: Solid
Analysis Batch: 258737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258386

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	185		mg/Kg		111	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*127*		*40 - 130*

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 258737

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	15		161	187		mg/Kg		107	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*106*		*40 - 130*

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 258737

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	15		164	184		mg/Kg		103	50 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*98*		*40 - 130*

Lab Sample ID: MB 720-258556/1-A
Matrix: Solid
Analysis Batch: 258676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/15/19 13:31	01/18/19 00:16	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/15/19 13:31	01/18/19 00:16	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-258556/1-A
Matrix: Solid
Analysis Batch: 258676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	95		40 - 130	01/15/19 13:31	01/18/19 00:16	1

Lab Sample ID: LCS 720-258556/2-A
Matrix: Solid
Analysis Batch: 258676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	140		mg/Kg		84	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	104		40 - 130

Lab Sample ID: 720-90765-A-1-E MS
Matrix: Solid
Analysis Batch: 258674

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	2.2		165	145		mg/Kg		87	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	104		40 - 130

Lab Sample ID: 720-90765-A-1-F MSD
Matrix: Solid
Analysis Batch: 258674

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.2		165	149		mg/Kg		89	50 - 150	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	107		40 - 130

Lab Sample ID: MB 720-258695/1-A
Matrix: Solid
Analysis Batch: 258737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/17/19 11:04	01/18/19 10:56	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/17/19 11:04	01/18/19 10:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	110		40 - 130	01/17/19 11:04	01/18/19 10:56	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-258695/2-A
Matrix: Solid
Analysis Batch: 258687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	155		mg/Kg		93	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*126*		*40 - 130*

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 258687

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	11		158	131		mg/Kg		76	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*106*		*40 - 130*

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 258687

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	11		158	148		mg/Kg		87	50 - 150	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*115*		*40 - 130*

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 258842

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	13		159	168		mg/Kg		97	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*115*		*40 - 130*

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 258842

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	13		160	164		mg/Kg		95	50 - 150	2	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 258842

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258695

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*115*		*40 - 130*

Lab Sample ID: MB 720-258765/1-A
Matrix: Solid
Analysis Batch: 258824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/18/19 10:18	01/19/19 15:44	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/18/19 10:18	01/19/19 15:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*01/18/19 10:18*	*01/19/19 15:44*	*1*

Lab Sample ID: LCS 720-258765/2-A
Matrix: Solid
Analysis Batch: 258824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258765

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	148		mg/Kg		89	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*111*		*40 - 130*

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 258846

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258765

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	65		164	198		mg/Kg		81	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*86*		*40 - 130*

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 258846

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258765

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	65		164	178		mg/Kg		69	50 - 150	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*87*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-258564/1-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Aldrin	ND		2.0	0.50	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endrin	ND		2.0	0.46	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/15/19 15:08	01/19/19 06:03	1
Toxaphene	ND		40	6.8	ug/Kg		01/15/19 15:08	01/19/19 06:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*21 - 136*	*01/15/19 15:08*	*01/19/19 06:03*	*1*
Tetrachloro-m-xylene	*101*		*21 - 145*	*01/15/19 15:08*	*01/19/19 06:03*	*1*

Lab Sample ID: LCS 720-258564/2-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	18.1		ug/Kg		108	75 - 128
4,4'-DDE	16.7	17.8		ug/Kg		107	76 - 126
4,4'-DDT	16.7	17.3		ug/Kg		104	63 - 127
Aldrin	16.7	16.0		ug/Kg		96	65 - 120
alpha-BHC	16.7	15.2		ug/Kg		91	46 - 122
alpha-Chlordane	16.7	17.4		ug/Kg		104	70 - 120
beta-BHC	16.7	18.0		ug/Kg		108	78 - 136
delta-BHC	16.7	13.8		ug/Kg		83	43 - 125
Dieldrin	16.7	17.6		ug/Kg		106	72 - 120
Endosulfan I	16.7	17.7		ug/Kg		106	62 - 120
Endosulfan II	16.7	18.6		ug/Kg		111	65 - 120
Endosulfan sulfate	16.7	17.9		ug/Kg		108	72 - 121
Endrin	16.7	18.5		ug/Kg		111	68 - 120
Endrin aldehyde	16.7	19.9		ug/Kg		120	68 - 120
Endrin ketone	16.7	18.7		ug/Kg		112	75 - 136
gamma-BHC (Lindane)	16.7	16.1		ug/Kg		96	72 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-258564/2-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
gamma-Chlordane			16.7	17.1		ug/Kg		103	68 - 120		
Heptachlor			16.7	16.5		ug/Kg		99	69 - 120		
Heptachlor epoxide			16.7	17.2		ug/Kg		103	68 - 120		
Methoxychlor			16.7	19.8		ug/Kg		119	71 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*114*		*21 - 136*
Tetrachloro-m-xylene	*94*		*21 - 145*

Lab Sample ID: 720-90673-E-33-E MS
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD	1.4	J p	16.0	15.4		ug/Kg		87	40 - 120		
4,4'-DDE	1.2	J	16.0	14.1		ug/Kg		80	40 - 120		
4,4'-DDT	3.3	p	16.0	15.5	p	ug/Kg		76	17 - 144		
Aldrin	ND		16.0	11.7		ug/Kg		73	53 - 120		
alpha-BHC	ND		16.0	13.0		ug/Kg		82	40 - 120		
alpha-Chlordane	ND		16.0	13.1		ug/Kg		82	40 - 120		
beta-BHC	ND		16.0	13.4	p	ug/Kg		84	40 - 120		
delta-BHC	ND		16.0	8.89		ug/Kg		56	40 - 120		
Dieldrin	1.0	J p	16.0	13.4	p	ug/Kg		78	46 - 130		
Endosulfan I	ND		16.0	13.6		ug/Kg		85	40 - 120		
Endosulfan II	ND		16.0	13.3		ug/Kg		83	40 - 120		
Endosulfan sulfate	ND		16.0	14.3		ug/Kg		90	40 - 120		
Endrin	2.8		16.0	16.0		ug/Kg		83	32 - 143		
Endrin aldehyde	ND	*	16.0	13.2		ug/Kg		83	40 - 120		
Endrin ketone	ND	F1	16.0	14.8		ug/Kg		92	40 - 120		
gamma-BHC (Lindane)	ND		16.0	14.8		ug/Kg		93	58 - 120		
gamma-Chlordane	ND		16.0	14.0		ug/Kg		88	40 - 120		
Heptachlor	ND		16.0	12.7		ug/Kg		79	52 - 120		
Heptachlor epoxide	ND		16.0	12.7		ug/Kg		80	40 - 120		
Methoxychlor	ND		16.0	12.3		ug/Kg		77	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*21 - 136*
Tetrachloro-m-xylene	*85*		*21 - 145*

Lab Sample ID: 720-90673-E-33-F MSD
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	1.4	J p	15.9	14.4		ug/Kg		82	40 - 120	6	20
4,4'-DDE	1.2	J	15.9	13.2		ug/Kg		75	40 - 120	6	20
4,4'-DDT	3.3	p	15.9	14.3	p	ug/Kg		69	17 - 144	8	20
Aldrin	ND		15.9	11.0		ug/Kg		69	53 - 120	6	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90673-E-33-F MSD
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	ND		15.9	12.6		ug/Kg		79	40 - 120	4	20
alpha-Chlordane	ND		15.9	12.3		ug/Kg		77	40 - 120	7	20
beta-BHC	ND		15.9	13.4	p	ug/Kg		84	40 - 120	0	20
delta-BHC	ND		15.9	8.69		ug/Kg		55	40 - 120	2	20
Dieldrin	1.0	J p	15.9	12.6	p	ug/Kg		73	46 - 130	6	20
Endosulfan I	ND		15.9	12.4		ug/Kg		78	40 - 120	9	20
Endosulfan II	ND		15.9	12.7		ug/Kg		80	40 - 120	4	30
Endosulfan sulfate	ND		15.9	13.5		ug/Kg		85	40 - 120	6	20
Endrin	2.8		15.9	14.7		ug/Kg		75	32 - 143	8	20
Endrin aldehyde	ND	*	15.9	12.1		ug/Kg		76	40 - 120	9	20
Endrin ketone	ND	F1	15.9	13.7		ug/Kg		86	40 - 120	7	20
gamma-BHC (Lindane)	ND		15.9	15.1		ug/Kg		95	58 - 120	2	20
gamma-Chlordane	ND		15.9	13.4		ug/Kg		84	40 - 120	4	20
Heptachlor	ND		15.9	12.2		ug/Kg		77	52 - 120	4	20
Heptachlor epoxide	ND		15.9	11.7		ug/Kg		74	40 - 120	8	20
Methoxychlor	ND		15.9	11.6		ug/Kg		73	40 - 120	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*21 - 136*
Tetrachloro-m-xylene	*85*		*21 - 145*

Lab Sample ID: MB 720-258580/1-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Aldrin	ND		2.0	0.50	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Endrin	ND		2.0	0.46	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/15/19 17:04	01/19/19 05:28	1
Toxaphene	ND		40	6.8	ug/Kg		01/15/19 17:04	01/19/19 05:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		21 - 136	01/15/19 17:04	01/19/19 05:28	1
Tetrachloro-m-xylene	92		21 - 145	01/15/19 17:04	01/19/19 05:28	1

Lab Sample ID: LCS 720-258580/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258820 — **Prep Batch: 258580**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	18.4		ug/Kg		110	75 - 128
4,4'-DDE	16.7	18.2		ug/Kg		109	76 - 126
4,4'-DDT	16.7	17.5		ug/Kg		105	63 - 127
Aldrin	16.7	16.7		ug/Kg		100	65 - 120
alpha-BHC	16.7	15.8		ug/Kg		95	46 - 122
alpha-Chlordane	16.7	17.9		ug/Kg		108	70 - 120
beta-BHC	16.7	18.7		ug/Kg		112	78 - 136
delta-BHC	16.7	14.2		ug/Kg		85	43 - 125
Dieldrin	16.7	17.9		ug/Kg		107	72 - 120
Endosulfan I	16.7	18.2		ug/Kg		109	62 - 120
Endosulfan II	16.7	18.6		ug/Kg		112	65 - 120
Endosulfan sulfate	16.7	18.0		ug/Kg		108	72 - 121
Endrin	16.7	18.7		ug/Kg		112	68 - 120
Endrin aldehyde	16.7	19.7		ug/Kg		118	68 - 120
Endrin ketone	16.7	18.4		ug/Kg		110	75 - 136
gamma-BHC (Lindane)	16.7	16.7		ug/Kg		100	72 - 120
gamma-Chlordane	16.7	17.7		ug/Kg		106	68 - 120
Heptachlor	16.7	17.4		ug/Kg		104	69 - 120
Heptachlor epoxide	16.7	17.9		ug/Kg		107	68 - 120
Methoxychlor	16.7	19.8		ug/Kg		119	71 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	112		21 - 136
Tetrachloro-m-xylene	99		21 - 145

Lab Sample ID: 720-90698-4 MS — **Client Sample ID: DG-V9S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258821 — **Prep Batch: 258580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.2	15.3		ug/Kg		94	40 - 120
4,4'-DDE	ND		16.2	10.6		ug/Kg		66	40 - 120
4,4'-DDT	ND	F2	16.2	5.87		ug/Kg		36	17 - 144
Aldrin	ND		16.2	12.6		ug/Kg		78	53 - 120
alpha-BHC	ND		16.2	13.1		ug/Kg		81	40 - 120
alpha-Chlordane	ND	F2	16.2	10.8		ug/Kg		67	40 - 120
beta-BHC	ND		16.2	12.9		ug/Kg		79	40 - 120
delta-BHC	ND		16.2	12.0		ug/Kg		74	40 - 120
Dieldrin	ND		16.2	11.8		ug/Kg		73	46 - 130
Endosulfan I	ND		16.2	11.1		ug/Kg		69	40 - 120
Endosulfan II	ND	*	16.2	10.2		ug/Kg		63	40 - 120
Endosulfan sulfate	ND	F2	16.2	10.4		ug/Kg		64	40 - 120
Endrin	ND		16.2	11.8		ug/Kg		73	32 - 143
Endrin aldehyde	ND	*	16.2	12.1		ug/Kg		75	40 - 120
Endrin ketone	ND		16.2	8.98		ug/Kg		56	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 258821

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258580

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-BHC (Lindane)	ND		16.2	12.8	p	ug/Kg		79	58 - 120
gamma-Chlordane	ND		16.2	10.4		ug/Kg		64	40 - 120
Heptachlor	ND		16.2	12.9		ug/Kg		80	52 - 120
Heptachlor epoxide	ND		16.2	12.3		ug/Kg		76	40 - 120
Methoxychlor	ND		16.2	6.50		ug/Kg		40	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*21 - 136*
Tetrachloro-m-xylene	*70*		*21 - 145*

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 258821

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258580

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.2	17.3		ug/Kg		107	40 - 120	12	20
4,4'-DDE	ND		16.2	12.4		ug/Kg		77	40 - 120	15	20
4,4'-DDT	ND	F2	16.2	6.52		ug/Kg		40	17 - 144	10	20
Aldrin	ND		16.2	14.4		ug/Kg		89	53 - 120	13	20
alpha-BHC	ND		16.2	14.9		ug/Kg		92	40 - 120	12	20
alpha-Chlordane	ND	F2	16.2	14.1	F2	ug/Kg		87	40 - 120	27	20
beta-BHC	ND		16.2	15.5		ug/Kg		96	40 - 120	19	20
delta-BHC	ND		16.2	12.9		ug/Kg		80	40 - 120	7	20
Dieldrin	ND		16.2	13.7		ug/Kg		85	46 - 130	16	20
Endosulfan I	ND		16.2	13.3		ug/Kg		82	40 - 120	18	20
Endosulfan II	ND	*	16.2	12.6		ug/Kg		78	40 - 120	21	30
Endosulfan sulfate	ND	F2	16.2	12.2		ug/Kg		76	40 - 120	16	20
Endrin	ND		16.2	13.4		ug/Kg		83	32 - 143	13	20
Endrin aldehyde	ND	*	16.2	13.4		ug/Kg		83	40 - 120	10	20
Endrin ketone	ND		16.2	11.3	F2	ug/Kg		70	40 - 120	23	20
gamma-BHC (Lindane)	ND		16.2	14.8		ug/Kg		91	58 - 120	14	20
gamma-Chlordane	ND		16.2	12.7		ug/Kg		79	40 - 120	20	20
Heptachlor	ND		16.2	14.4		ug/Kg		89	52 - 120	11	20
Heptachlor epoxide	ND		16.2	14.1		ug/Kg		87	40 - 120	14	20
Methoxychlor	ND		16.2	7.49		ug/Kg		46	40 - 120	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*61*		*21 - 136*
Tetrachloro-m-xylene	*80*		*21 - 145*

Lab Sample ID: MB 720-258689/1-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/17/19 09:26	01/19/19 04:53	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-258689/1-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0	0.50	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Endrin	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/17/19 09:26	01/19/19 04:53	1
Toxaphene	ND		40	6.8	ug/Kg		01/17/19 09:26	01/19/19 04:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*21 - 136*	*01/17/19 09:26*	*01/19/19 04:53*	*1*
Tetrachloro-m-xylene	*78*		*21 - 145*	*01/17/19 09:26*	*01/19/19 04:53*	*1*

Lab Sample ID: LCS 720-258689/2-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	18.0		ug/Kg		108	75 - 128
4,4'-DDE	16.7	17.4		ug/Kg		104	76 - 126
4,4'-DDT	16.7	17.2		ug/Kg		103	63 - 127
Aldrin	16.7	15.6		ug/Kg		94	65 - 120
alpha-BHC	16.7	15.1		ug/Kg		91	46 - 122
alpha-Chlordane	16.7	17.0		ug/Kg		102	70 - 120
beta-BHC	16.7	17.7		ug/Kg		106	78 - 136
delta-BHC	16.7	13.7		ug/Kg		82	43 - 125
Dieldrin	16.7	17.2		ug/Kg		103	72 - 120
Endosulfan I	16.7	17.3		ug/Kg		104	62 - 120
Endosulfan II	16.7	18.4		ug/Kg		110	65 - 120
Endosulfan sulfate	16.7	17.8		ug/Kg		107	72 - 121
Endrin	16.7	18.0		ug/Kg		108	68 - 120
Endrin aldehyde	16.7	19.7		ug/Kg		118	68 - 120
Endrin ketone	16.7	18.2		ug/Kg		109	75 - 136
gamma-BHC (Lindane)	16.7	15.8		ug/Kg		95	72 - 120
gamma-Chlordane	16.7	16.9		ug/Kg		101	68 - 120
Heptachlor	16.7	16.4		ug/Kg		98	69 - 120
Heptachlor epoxide	16.7	16.9		ug/Kg		102	68 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-258689/2-A
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258689

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methoxychlor			16.7	19.8		ug/Kg		119	71 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*113*		*21 - 136*
Tetrachloro-m-xylene	*93*		*21 - 145*

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258689

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD	ND		16.6	17.5		ug/Kg		106	40 - 120		
4,4'-DDE	ND		16.6	16.8		ug/Kg		102	40 - 120		
4,4'-DDT	ND		16.6	16.0		ug/Kg		97	17 - 144		
Aldrin	ND		16.6	15.1		ug/Kg		91	53 - 120		
alpha-BHC	ND		16.6	14.4		ug/Kg		87	40 - 120		
alpha-Chlordane	ND		16.6	16.6		ug/Kg		101	40 - 120		
beta-BHC	ND		16.6	18.5		ug/Kg		111	40 - 120		
delta-BHC	ND		16.6	13.8		ug/Kg		83	40 - 120		
Dieldrin	ND		16.6	18.6		ug/Kg		112	46 - 130		
Endosulfan I	ND		16.6	16.6		ug/Kg		100	40 - 120		
Endosulfan II	ND		16.6	17.9		ug/Kg		108	40 - 120		
Endosulfan sulfate	ND		16.6	17.3		ug/Kg		105	40 - 120		
Endrin	ND		16.6	18.0		ug/Kg		108	32 - 143		
Endrin aldehyde	ND		16.6	18.7		ug/Kg		113	40 - 120		
Endrin ketone	ND		16.6	18.2		ug/Kg		110	40 - 120		
gamma-BHC (Lindane)	ND		16.6	16.9		ug/Kg		102	58 - 120		
gamma-Chlordane	ND		16.6	16.4		ug/Kg		99	40 - 120		
Heptachlor	ND		16.6	15.7		ug/Kg		95	52 - 120		
Heptachlor epoxide	ND		16.6	16.5		ug/Kg		100	40 - 120		
Methoxychlor	ND	F1	16.6	20.0	F1	ug/Kg		121	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*111*		*21 - 136*
Tetrachloro-m-xylene	*89*		*21 - 145*

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258689

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.5	16.7		ug/Kg		101	40 - 120	5	20
4,4'-DDE	ND		16.5	16.6		ug/Kg		100	40 - 120	2	20
4,4'-DDT	ND		16.5	15.4		ug/Kg		93	17 - 144	4	20
Aldrin	ND		16.5	15.4		ug/Kg		94	53 - 120	2	20
alpha-BHC	ND		16.5	14.9		ug/Kg		90	40 - 120	4	20
alpha-Chlordane	ND		16.5	16.5		ug/Kg		100	40 - 120	1	20
beta-BHC	ND		16.5	18.6		ug/Kg		113	40 - 120	1	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 258820

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258689

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
delta-BHC	ND		16.5	14.0		ug/Kg		85	40 - 120	1	20
Dieldrin	ND		16.5	17.4		ug/Kg		106	46 - 130	6	20
Endosulfan I	ND		16.5	16.4		ug/Kg		99	40 - 120	1	20
Endosulfan II	ND		16.5	17.4		ug/Kg		105	40 - 120	3	30
Endosulfan sulfate	ND		16.5	16.5		ug/Kg		100	40 - 120	5	20
Endrin	ND		16.5	17.6		ug/Kg		107	32 - 143	2	20
Endrin aldehyde	ND		16.5	17.2		ug/Kg		104	40 - 120	8	20
Endrin ketone	ND		16.5	17.3		ug/Kg		105	40 - 120	5	20
gamma-BHC (Lindane)	ND		16.5	17.5		ug/Kg		106	58 - 120	3	20
gamma-Chlordane	ND		16.5	16.3		ug/Kg		99	40 - 120	1	20
Heptachlor	ND		16.5	16.4		ug/Kg		99	52 - 120	4	20
Heptachlor epoxide	ND		16.5	16.6		ug/Kg		100	40 - 120	0	20
Methoxychlor	ND	F1	16.5	18.6		ug/Kg		113	40 - 120	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*21 - 136*
Tetrachloro-m-xylene	*94*		*21 - 145*

Lab Sample ID: MB 720-258691/1-A
Matrix: Solid
Analysis Batch: 259019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Aldrin	ND		2.0	0.50	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endrin	ND		2.0	0.46	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Toxaphene	ND		40	6.8	ug/Kg		01/17/19 09:42	01/23/19 17:12	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-258691/1-A
Matrix: Solid
Analysis Batch: 259019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258691

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	118		21 - 136	01/17/19 09:42	01/23/19 17:12	1
Tetrachloro-m-xylene	85		21 - 145	01/17/19 09:42	01/23/19 17:12	1

Lab Sample ID: LCS 720-258691/2-A
Matrix: Solid
Analysis Batch: 259019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	19.4		ug/Kg		116	75 - 128
4,4'-DDE	16.7	19.0		ug/Kg		114	76 - 126
4,4'-DDT	16.7	18.8		ug/Kg		113	63 - 127
Aldrin	16.7	16.6		ug/Kg		100	65 - 120
alpha-BHC	16.7	15.1		ug/Kg		91	46 - 122
alpha-Chlordane	16.7	18.7		ug/Kg		112	70 - 120
beta-BHC	16.7	18.3		ug/Kg		110	78 - 136
delta-BHC	16.7	14.1		ug/Kg		85	43 - 125
Dieldrin	16.7	18.7		ug/Kg		112	72 - 120
Endosulfan I	16.7	19.5		ug/Kg		117	62 - 120
Endosulfan II	16.7	20.0		ug/Kg		120	65 - 120
Endosulfan sulfate	16.7	19.4		ug/Kg		117	72 - 121
Endrin	16.7	19.8		ug/Kg		119	68 - 120
Endrin aldehyde	16.7	22.0	*	ug/Kg		132	68 - 120
Endrin ketone	16.7	19.7		ug/Kg		118	75 - 136
gamma-BHC (Lindane)	16.7	16.4		ug/Kg		98	72 - 120
gamma-Chlordane	16.7	18.4		ug/Kg		111	68 - 120
Heptachlor	16.7	17.1		ug/Kg		103	69 - 120
Heptachlor epoxide	16.7	18.3		ug/Kg		110	68 - 120
Methoxychlor	16.7	20.9		ug/Kg		125	71 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	131		21 - 136
Tetrachloro-m-xylene	91		21 - 145

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 259087

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	2.9	F1	16.1	20.3		ug/Kg		108	40 - 120
4,4'-DDE	ND	F1 F2	16.1	15.8		ug/Kg		98	40 - 120
4,4'-DDT	ND		16.1	13.1		ug/Kg		81	17 - 144
Aldrin	ND	F2	16.1	14.4		ug/Kg		89	53 - 120
alpha-BHC	ND		16.1	13.5		ug/Kg		84	40 - 120
alpha-Chlordane	ND		16.1	15.8		ug/Kg		98	40 - 120
beta-BHC	ND		16.1	15.2		ug/Kg		94	40 - 120
delta-BHC	ND		16.1	13.3		ug/Kg		82	40 - 120
Dieldrin	ND	*	16.1	16.3		ug/Kg		101	46 - 130
Endosulfan I	ND		16.1	16.5		ug/Kg		102	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 259087

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan II	ND	*	16.1	17.5		ug/Kg		108	40 - 120
Endosulfan sulfate	ND	*	16.1	17.4		ug/Kg		108	40 - 120
Endrin	ND	*	16.1	17.6		ug/Kg		109	32 - 143
Endrin aldehyde	ND	F1 *	16.1	19.1		ug/Kg		119	40 - 120
Endrin ketone	ND	F1	16.1	19.3		ug/Kg		120	40 - 120
gamma-BHC (Lindane)	ND	F1 F2	16.1	16.3		ug/Kg		101	58 - 120
gamma-Chlordane	ND		16.1	13.2		ug/Kg		82	40 - 120
Heptachlor	ND	F1 F2	16.1	13.1		ug/Kg		81	52 - 120
Heptachlor epoxide	ND		16.1	16.4		ug/Kg		102	40 - 120
Methoxychlor	ND		16.1	15.3		ug/Kg		95	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*21 - 136*
Tetrachloro-m-xylene	*68*		*21 - 145*

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 259087

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	1.6	J p F1	16.2	23.8	F1	ug/Kg		137	40 - 120	NC	20
4,4'-DDE	ND	F1 F2	16.2	18.7		ug/Kg		116	40 - 120	17	20
4,4'-DDT	ND		16.2	14.4		ug/Kg		89	17 - 144	10	20
Aldrin	ND	F2	16.2	16.5		ug/Kg		102	53 - 120	14	20
alpha-BHC	ND		16.2	16.9	F2	ug/Kg		105	40 - 120	22	20
alpha-Chlordane	ND	F1 F2	16.2	18.1		ug/Kg		112	40 - 120	12	20
beta-BHC	ND	F1 F2	16.2	18.6		ug/Kg		115	40 - 120	NC	20
delta-BHC	ND	F1 F2	16.2	15.4		ug/Kg		95	40 - 120	NC	20
Dieldrin	ND	*	16.2	18.6		ug/Kg		115	46 - 130	13	20
Endosulfan I	ND		16.2	18.0		ug/Kg		111	40 - 120	8	20
Endosulfan II	ND	*	16.2	19.2		ug/Kg		119	40 - 120	10	30
Endosulfan sulfate	ND	*	16.2	18.0		ug/Kg		111	40 - 120	3	20
Endrin	ND	*	16.2	18.6		ug/Kg		115	32 - 143	6	20
Endrin aldehyde	ND	* F1	16.2	20.3	F1	ug/Kg		126	40 - 120	NC	20
Endrin ketone	ND	F1	16.2	18.6		ug/Kg		115	40 - 120	4	20
gamma-BHC (Lindane)	ND	F1 F2	16.2	18.4		ug/Kg		114	58 - 120	12	20
gamma-Chlordane	ND		16.2	15.1		ug/Kg		93	40 - 120	14	20
Heptachlor	ND	F1 F2	16.2	16.9	F2	ug/Kg		105	52 - 120	25	20
Heptachlor epoxide	ND		16.2	17.3		ug/Kg		107	40 - 120	5	20
Methoxychlor	ND		16.2	16.8		ug/Kg		104	40 - 120	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*118*		*21 - 136*
Tetrachloro-m-xylene	*106*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 259087

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.62	J p F1	15.8	20.2	F1	ug/Kg		124	40 - 120
4,4'-DDE	ND		15.8	16.7		ug/Kg		106	40 - 120
4,4'-DDT	ND		15.8	15.3		ug/Kg		97	17 - 144
Aldrin	ND		15.8	16.9		ug/Kg		107	53 - 120
alpha-BHC	ND		15.8	15.6		ug/Kg		99	40 - 120
alpha-Chlordane	ND		15.8	ND	F1	ug/Kg		0	40 - 120
beta-BHC	ND		15.8	18.4		ug/Kg		117	40 - 120
delta-BHC	ND		15.8	14.6		ug/Kg		93	40 - 120
Dieldrin	ND	*	15.8	17.6		ug/Kg		112	46 - 130
Endosulfan I	ND	*	15.8	16.8		ug/Kg		107	40 - 120
Endosulfan II	ND	*	15.8	17.6		ug/Kg		112	40 - 120
Endosulfan sulfate	ND	*	15.8	16.5		ug/Kg		105	40 - 120
Endrin	ND	*	15.8	18.2		ug/Kg		115	32 - 143
Endrin aldehyde	ND	*	15.8	17.7		ug/Kg		112	40 - 120
Endrin ketone	ND		15.8	18.2		ug/Kg		115	40 - 120
gamma-BHC (Lindane)	ND		15.8	16.4		ug/Kg		104	58 - 120
gamma-Chlordane	ND		15.8	16.3		ug/Kg		103	40 - 120
Heptachlor	ND		15.8	14.8		ug/Kg		94	52 - 120
Heptachlor epoxide	ND		15.8	15.8		ug/Kg		100	40 - 120
Methoxychlor	ND		15.8	15.1		ug/Kg		96	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*21 - 136*
Tetrachloro-m-xylene	*98*		*21 - 145*

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 259087

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.62	J p F1	15.8	19.0		ug/Kg		117	40 - 120	6	20
4,4'-DDE	ND		15.8	16.0		ug/Kg		101	40 - 120	5	20
4,4'-DDT	ND		15.8	14.0		ug/Kg		89	17 - 144	9	20
Aldrin	ND		15.8	16.2		ug/Kg		103	53 - 120	4	20
alpha-BHC	ND		15.8	14.7		ug/Kg		93	40 - 120	6	20
alpha-Chlordane	ND		15.8	15.9		ug/Kg		100	40 - 120	NC	20
beta-BHC	ND		15.8	18.2		ug/Kg		115	40 - 120	1	20
delta-BHC	ND		15.8	13.5		ug/Kg		85	40 - 120	8	20
Dieldrin	ND	*	15.8	16.7		ug/Kg		106	46 - 130	5	20
Endosulfan I	ND	*	15.8	16.1		ug/Kg		102	40 - 120	5	20
Endosulfan II	ND	*	15.8	16.8		ug/Kg		107	40 - 120	5	30
Endosulfan sulfate	ND	*	15.8	16.0		ug/Kg		102	40 - 120	3	20
Endrin	ND	*	15.8	17.5		ug/Kg		111	32 - 143	4	20
Endrin aldehyde	ND	*	15.8	17.2		ug/Kg		109	40 - 120	3	20
Endrin ketone	ND		15.8	16.4		ug/Kg		104	40 - 120	10	20
gamma-BHC (Lindane)	ND		15.8	15.6		ug/Kg		99	58 - 120	5	20
gamma-Chlordane	ND		15.8	15.4		ug/Kg		97	40 - 120	6	20
Heptachlor	ND		15.8	14.1		ug/Kg		90	52 - 120	5	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 259087

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide	ND		15.8	15.5		ug/Kg		98	40 - 120	2	20
Methoxychlor	ND		15.8	14.5		ug/Kg		92	40 - 120	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*21 - 136*
Tetrachloro-m-xylene	*92*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-522310/1-A
Matrix: Solid
Analysis Batch: 522547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 14:19	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 14:19	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 14:19	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 14:19	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 14:19	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 14:19	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 13:13	01/15/19 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*	*01/14/19 13:13*	*01/15/19 14:19*	*1*

Lab Sample ID: LCS 440-522310/2-A
Matrix: Solid
Analysis Batch: 522547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	222		ug/Kg		83	65 - 115
Aroclor 1260	267	224		ug/Kg		84	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 522547

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 522310

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		265	167		ug/Kg		63	50 - 120
Aroclor 1260	ND		265	155		ug/Kg		58	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 522547

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 522310

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		263	141		ug/Kg		54	50 - 120	17	30
Aroclor 1260	ND		263	130		ug/Kg		50	50 - 125	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*45*		*45 - 120*

Lab Sample ID: MB 440-522319/1-A
Matrix: Solid
Analysis Batch: 522551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:03	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:03	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:03	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:03	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:03	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:03	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:05	01/15/19 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*01/14/19 14:05*	*01/15/19 15:03*	*1*

Lab Sample ID: LCS 440-522319/2-A
Matrix: Solid
Analysis Batch: 522551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522319

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			267	216		ug/Kg		81	65 - 115
Aroclor 1260			267	250		ug/Kg		94	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*94*		*45 - 120*

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 522551

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522319

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		261	221		ug/Kg		85	50 - 120
Aroclor 1260	ND		261	237		ug/Kg		91	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 522551

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522319

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		265	221		ug/Kg		83	50 - 120	0	30
Aroclor 1260	ND		265	228		ug/Kg		86	50 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Lab Sample ID: MB 440-522323/1-A
Matrix: Solid
Analysis Batch: 522605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:13	01/15/19 17:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*	*01/14/19 14:13*	*01/15/19 17:14*	*1*

Lab Sample ID: LCS 440-522323/2-A
Matrix: Solid
Analysis Batch: 522605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522323

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	239		ug/Kg		90	65 - 115		
Aroclor 1260			267	241		ug/Kg		90	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*99*		*45 - 120*

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 522792

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		261	210		ug/Kg		80	50 - 120		
Aroclor 1260	ND		261	207		ug/Kg		79	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 522792

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 522323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		263	190		ug/Kg		72	50 - 120	10	30
Aroclor 1260	ND		263	185		ug/Kg		70	50 - 125	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*

Lab Sample ID: MB 440-522324/1-A
Matrix: Solid
Analysis Batch: 522850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1221	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1232	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1242	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1248	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1254	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1
Aroclor 1260	ND		50	17	ug/Kg		01/14/19 14:16	01/16/19 15:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*45 - 120*	*01/14/19 14:16*	*01/16/19 15:02*	*1*

Lab Sample ID: LCS 440-522324/2-A
Matrix: Solid
Analysis Batch: 522850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522324

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			267	248		ug/Kg		93	65 - 115
Aroclor 1260			267	252		ug/Kg		94	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*102*		*45 - 120*

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 522850

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 522324

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		260	224		ug/Kg		86	50 - 120
Aroclor 1260	ND		260	221		ug/Kg		85	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 522850

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 522324

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		261	227		ug/Kg		87	50 - 120	1	30
Aroclor 1260	ND		261	225		ug/Kg		86	50 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258337/1-A
Matrix: Solid
Analysis Batch: 258600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Arsenic	ND		1.0	0.085	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Barium	0.110	J	0.50	0.071	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Beryllium	ND		0.10	0.033	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Cadmium	ND		0.13	0.012	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Chromium	0.0818	J	0.50	0.053	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Cobalt	ND		0.20	0.020	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Copper	ND		1.5	0.71	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Lead	ND		0.50	0.11	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Selenium	ND		1.0	0.15	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Silver	ND		0.25	0.051	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Thallium	ND		0.50	0.15	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Vanadium	ND		0.50	0.068	mg/Kg		01/11/19 09:15	01/15/19 17:23	1
Zinc	ND		1.5	0.64	mg/Kg		01/11/19 09:15	01/15/19 17:23	1

Lab Sample ID: MB 720-258337/1-A
Matrix: Solid
Analysis Batch: 258679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.50	0.051	mg/Kg		01/11/19 09:15	01/16/19 18:59	1

Lab Sample ID: LCS 720-258337/2-A
Matrix: Solid
Analysis Batch: 258600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.5		mg/Kg		93	80 - 120
Arsenic	50.0	46.3		mg/Kg		93	80 - 120
Barium	50.0	45.9		mg/Kg		92	80 - 120
Beryllium	50.0	47.3		mg/Kg		95	80 - 120
Cadmium	50.0	50.7		mg/Kg		101	80 - 120
Chromium	50.0	46.4		mg/Kg		93	80 - 120
Cobalt	50.0	50.7		mg/Kg		101	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-258337/2-A
Matrix: Solid
Analysis Batch: 258600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	50.0	48.3		mg/Kg		97	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Molybdenum	50.0	47.4		mg/Kg		95	80 - 120
Selenium	50.0	47.1		mg/Kg		94	80 - 120
Silver	25.0	22.0		mg/Kg		88	80 - 120
Thallium	50.0	48.6		mg/Kg		97	80 - 120
Vanadium	50.0	48.6		mg/Kg		97	80 - 120
Zinc	50.0	43.9		mg/Kg		88	80 - 120

Lab Sample ID: LCS 720-258337/2-A
Matrix: Solid
Analysis Batch: 258679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	50.0	52.0		mg/Kg		104	80 - 120

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 258600

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	6.7	F1 F2	40.3	34.2	F1	mg/Kg		68	75 - 125
Arsenic	5.5	F1	40.3	60.8	F1	mg/Kg		137	75 - 125
Barium	420	B	40.3	1330	4	mg/Kg		2258	75 - 125
Beryllium	0.10	J F1	40.3	46.1		mg/Kg		114	75 - 125
Cadmium	1.7	F1	40.3	52.4	F1	mg/Kg		126	75 - 125
Chromium	12	B F1 F2	40.3	77.8	F1	mg/Kg		164	75 - 125
Cobalt	3.2	F1	40.3	55.9	F1	mg/Kg		131	75 - 125
Copper	430	F2	40.3	3490	4	mg/Kg		7593	75 - 125
Lead	2400	^ F2	40.3	4420	4	mg/Kg		5112	75 - 125
Molybdenum	0.20	J	40.3	43.1		mg/Kg		107	75 - 125
Selenium	1.7	J F1	40.3	46.7		mg/Kg		112	75 - 125
Silver	1.8	F1	20.2	27.4	F1	mg/Kg		127	75 - 125
Thallium	0.63	J	40.3	43.1		mg/Kg		105	75 - 125
Vanadium	8.6	F1	40.3	74.7	F1	mg/Kg		164	75 - 125
Zinc	1600		40.3	2470	4	mg/Kg		2110	75 - 125

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 258679

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	54		40.3	90.4		mg/Kg		89	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 258600

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	6.7	F1 F2	40.0	46.2	F2	mg/Kg		99	75 - 125	30	20
Arsenic	5.5	F1	40.0	66.3	F1	mg/Kg		152	75 - 125	9	20
Barium	420	B	40.0	1130	4	mg/Kg		1764	75 - 125	17	20
Beryllium	0.10	J F1	40.0	50.5	F1	mg/Kg		126	75 - 125	9	20
Cadmium	1.7	F1	40.0	54.6	F1	mg/Kg		132	75 - 125	4	20
Chromium	12	B F1 F2	40.0	98.0	F1 F2	mg/Kg		216	75 - 125	23	20
Cobalt	3.2	F1	40.0	60.6	F1	mg/Kg		143	75 - 125	8	20
Copper	430	F2	40.0	1230	4 F2	mg/Kg		1988	75 - 125	96	20
Lead	2400	^ F2	40.0	2580	4 F2	mg/Kg		560	75 - 125	53	20
Molybdenum	0.20	J	40.0	48.4		mg/Kg		121	75 - 125	12	20
Selenium	1.7	J F1	40.0	52.6	F1	mg/Kg		127	75 - 125	12	20
Silver	1.8	F1	20.0	26.7		mg/Kg		125	75 - 125	3	20
Thallium	0.63	J	40.0	45.3		mg/Kg		112	75 - 125	5	20
Vanadium	8.6	F1	40.0	74.5	F1	mg/Kg		165	75 - 125	0	20
Zinc	1600		40.0	2110	4	mg/Kg		1219	75 - 125	16	20

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 258679

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	54		40.0	91.9		mg/Kg		94	75 - 125	2	20

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 258600

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.70	J F1	34.7	8.46	F1	mg/Kg		22	75 - 125
Arsenic	2.9		34.7	37.5		mg/Kg		100	75 - 125
Barium	71	B F1	34.7	123	F1	mg/Kg		148	75 - 125
Beryllium	0.12	J	34.7	38.1		mg/Kg		109	75 - 125
Cadmium	ND		34.7	38.7		mg/Kg		112	75 - 125
Chromium	71	B F1	34.7	130	F1	mg/Kg		169	75 - 125
Cobalt	7.9		34.7	47.2		mg/Kg		113	75 - 125
Copper	12		34.7	53.3		mg/Kg		119	75 - 125
Molybdenum	0.18	J	34.7	32.0		mg/Kg		92	75 - 125
Selenium	1.0	J	34.7	35.9		mg/Kg		100	75 - 125
Silver	ND		17.4	17.7		mg/Kg		102	75 - 125
Thallium	0.65	J	34.7	36.4		mg/Kg		103	75 - 125
Vanadium	46		34.7	87.2		mg/Kg		119	75 - 125
Zinc	25		34.7	63.0		mg/Kg		110	75 - 125

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 258679

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	6.3		34.7	39.1		mg/Kg		94	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 258679

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	50	F1 F2	34.7	111	F1	mg/Kg		175	75 - 125

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 258600

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.70	J F1	35.0	8.94	F1	mg/Kg		24	75 - 125	6	20
Arsenic	2.9		35.0	38.2		mg/Kg		101	75 - 125	2	20
Barium	71	B F1	35.0	119	F1	mg/Kg		138	75 - 125	3	20
Beryllium	0.12	J	35.0	40.0		mg/Kg		114	75 - 125	5	20
Cadmium	ND		35.0	39.8		mg/Kg		114	75 - 125	3	20
Chromium	71	B F1	35.0	113		mg/Kg		119	75 - 125	14	20
Cobalt	7.9		35.0	47.7		mg/Kg		114	75 - 125	1	20
Copper	12		35.0	54.5		mg/Kg		122	75 - 125	2	20
Molybdenum	0.18	J	35.0	33.1		mg/Kg		95	75 - 125	3	20
Selenium	1.0	J	35.0	36.1		mg/Kg		100	75 - 125	1	20
Silver	ND		17.5	18.1		mg/Kg		103	75 - 125	2	20
Thallium	0.65	J	35.0	37.3		mg/Kg		105	75 - 125	3	20
Vanadium	46		35.0	87.6		mg/Kg		120	75 - 125	0	20
Zinc	25		35.0	63.1		mg/Kg		110	75 - 125	0	20

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 258679

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	6.3		35.0	39.0		mg/Kg		93	75 - 125	0	20
Nickel	50	F1 F2	35.0	89.9	F2	mg/Kg		113	75 - 125	21	20

Lab Sample ID: MB 720-258347/1-A
Matrix: Solid
Analysis Batch: 258609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Arsenic	ND		1.0	0.085	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Barium	ND		0.50	0.071	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Beryllium	ND		0.10	0.033	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Cadmium	ND		0.13	0.012	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Chromium	0.0581	J	0.50	0.053	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Cobalt	ND		0.20	0.020	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Copper	ND		1.5	0.71	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Lead	ND		0.50	0.11	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Nickel	ND		0.50	0.051	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Selenium	ND		1.0	0.15	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Silver	ND		0.25	0.051	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Thallium	ND		0.50	0.15	mg/Kg		01/12/19 09:26	01/15/19 16:52	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-258347/1-A
Matrix: Solid
Analysis Batch: 258609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.50	0.068	mg/Kg		01/12/19 09:26	01/15/19 16:52	1
Zinc	ND		1.5	0.64	mg/Kg		01/12/19 09:26	01/15/19 16:52	1

Lab Sample ID: LCS 720-258347/2-A
Matrix: Solid
Analysis Batch: 258609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.0		mg/Kg		102	80 - 120
Arsenic	50.0	51.0		mg/Kg		102	80 - 120
Barium	50.0	51.5		mg/Kg		103	80 - 120
Beryllium	50.0	51.1		mg/Kg		102	80 - 120
Cadmium	50.0	51.3		mg/Kg		103	80 - 120
Chromium	50.0	51.6		mg/Kg		103	80 - 120
Cobalt	50.0	52.3		mg/Kg		105	80 - 120
Copper	50.0	52.2		mg/Kg		104	80 - 120
Lead	50.0	52.2		mg/Kg		104	80 - 120
Molybdenum	50.0	51.9		mg/Kg		104	80 - 120
Nickel	50.0	51.9		mg/Kg		104	80 - 120
Selenium	50.0	49.8		mg/Kg		100	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	56.0		mg/Kg		112	80 - 120
Vanadium	50.0	51.1		mg/Kg		102	80 - 120
Zinc	50.0	51.1		mg/Kg		102	80 - 120

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 258609

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.59	J F1	43.9	12.3	F1	mg/Kg		27	75 - 125
Arsenic	2.8	J F1	43.9	59.3	F1	mg/Kg		129	75 - 125
Barium	50	F1	43.9	154	F1	mg/Kg		236	75 - 125
Beryllium	0.23	J F1	43.9	56.8	F1	mg/Kg		129	75 - 125
Cadmium	ND		43.9	50.4		mg/Kg		115	75 - 125
Chromium	130	B F1	43.9	120	F1	mg/Kg		-13	75 - 125
Cobalt	25		43.9	70.3		mg/Kg		104	75 - 125
Copper	35	F1	43.9	98.1	F1	mg/Kg		143	75 - 125
Lead	7.9		43.9	62.5		mg/Kg		124	75 - 125
Molybdenum	0.79	J	43.9	49.8		mg/Kg		112	75 - 125
Nickel	120	F1	43.9	124	F1	mg/Kg		11	75 - 125
Selenium	1.4	J	43.9	47.6		mg/Kg		105	75 - 125
Silver	ND		21.9	25.8		mg/Kg		118	75 - 125
Thallium	ND		43.9	42.7		mg/Kg		97	75 - 125
Vanadium	74	F1	43.9	130	F1	mg/Kg		127	75 - 125
Zinc	57	F1	43.9	126	F1	mg/Kg		157	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 258609

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.59	J F1	44.2	12.7	F1	mg/Kg		27	75 - 125	4	20
Arsenic	2.8	J F1	44.2	55.7		mg/Kg		120	75 - 125	6	20
Barium	50	F1	44.2	134	F1	mg/Kg		190	75 - 125	14	20
Beryllium	0.23	J F1	44.2	54.3		mg/Kg		122	75 - 125	4	20
Cadmium	ND		44.2	49.6		mg/Kg		112	75 - 125	2	20
Chromium	130	B F1	44.2	121	F1	mg/Kg		-11	75 - 125	1	20
Cobalt	25		44.2	68.6		mg/Kg		99	75 - 125	2	20
Copper	35	F1	44.2	85.8		mg/Kg		114	75 - 125	13	20
Lead	7.9		44.2	60.8		mg/Kg		119	75 - 125	3	20
Molybdenum	0.79	J	44.2	48.7		mg/Kg		108	75 - 125	2	20
Nickel	120	F1	44.2	127	F1	mg/Kg		19	75 - 125	3	20
Selenium	1.4	J	44.2	47.3		mg/Kg		104	75 - 125	1	20
Silver	ND		22.1	24.9		mg/Kg		113	75 - 125	4	20
Thallium	ND		44.2	43.8		mg/Kg		99	75 - 125	3	20
Vanadium	74	F1	44.2	116		mg/Kg		94	75 - 125	11	20
Zinc	57	F1	44.2	120	F1	mg/Kg		142	75 - 125	5	20

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 258609

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.4		44.2	47.9		mg/Kg		103	75 - 125
Arsenic	75		44.2	127		mg/Kg		117	75 - 125
Barium	170	F1	44.2	220		mg/Kg		121	75 - 125
Beryllium	0.37	F1	44.2	55.7		mg/Kg		125	75 - 125
Cadmium	0.044	J	44.2	51.1		mg/Kg		115	75 - 125
Chromium	210	B	44.2	318	4	mg/Kg		246	75 - 125
Cobalt	29		44.2	79.3		mg/Kg		113	75 - 125
Copper	34	F1	44.2	95.0	F1	mg/Kg		138	75 - 125
Lead	11		44.2	62.9		mg/Kg		117	75 - 125
Molybdenum	0.53	J	44.2	50.8		mg/Kg		114	75 - 125
Nickel	300		44.2	347	4	mg/Kg		118	75 - 125
Selenium	1.5	J	44.2	49.0		mg/Kg		107	75 - 125
Silver	ND		22.1	25.6		mg/Kg		116	75 - 125
Thallium	ND		44.2	49.7		mg/Kg		112	75 - 125
Vanadium	81	F1	44.2	154	F1	mg/Kg		165	75 - 125
Zinc	62		44.2	117		mg/Kg		124	75 - 125

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 258609

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.4		45.0	52.9		mg/Kg		112	75 - 125	10	20
Arsenic	75		45.0	131		mg/Kg		124	75 - 125	3	20
Barium	170	F1	45.0	197	F1	mg/Kg		68	75 - 125	11	20
Beryllium	0.37	F1	45.0	58.7	F1	mg/Kg		130	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 258609

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.044	J	45.0	53.0		mg/Kg		118	75 - 125	4	20
Chromium	210	B	45.0	264	4	mg/Kg		120	75 - 125	19	20
Cobalt	29		45.0	82.1		mg/Kg		118	75 - 125	4	20
Copper	34	F1	45.0	95.1	F1	mg/Kg		136	75 - 125	0	20
Lead	11		45.0	64.5		mg/Kg		119	75 - 125	3	20
Molybdenum	0.53	J	45.0	53.3		mg/Kg		117	75 - 125	5	20
Nickel	300		45.0	353	4	mg/Kg		128	75 - 125	2	20
Selenium	1.5	J	45.0	52.8		mg/Kg		114	75 - 125	8	20
Silver	ND		22.5	27.1		mg/Kg		120	75 - 125	5	20
Thallium	ND		45.0	52.3		mg/Kg		116	75 - 125	5	20
Vanadium	81	F1	45.0	149	F1	mg/Kg		153	75 - 125	3	20
Zinc	62		45.0	111		mg/Kg		107	75 - 125	6	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-258286/1-A
Matrix: Solid
Analysis Batch: 258989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/22/19 11:55	01/22/19 14:05	1

Lab Sample ID: LCS 720-258286/2-A
Matrix: Solid
Analysis Batch: 258989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.839		mg/Kg		101	80 - 120

Lab Sample ID: 720-90698-4 MS
Matrix: Solid
Analysis Batch: 258989

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.53		0.794	1.49		mg/Kg		120	75 - 125

Lab Sample ID: 720-90698-4 MSD
Matrix: Solid
Analysis Batch: 258989

Client Sample ID: DG-V9S-3.5-4
Prep Type: Total/NA
Prep Batch: 258286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.53		0.833	1.46		mg/Kg		112	75 - 125	2	20

Lab Sample ID: MB 720-258356/1-A
Matrix: Solid
Analysis Batch: 259111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/23/19 10:47	01/23/19 15:48	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-258356/2-A
Matrix: Solid
Analysis Batch: 259111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258356

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.831		mg/Kg		100	80 - 120		

Lab Sample ID: 720-90698-25 MS
Matrix: Solid
Analysis Batch: 259111

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258356

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.20		0.769	0.822		mg/Kg		81	75 - 125		

Lab Sample ID: 720-90698-25 MSD
Matrix: Solid
Analysis Batch: 259111

Client Sample ID: DG-T13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258356

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20		0.781	0.824		mg/Kg		80	75 - 125	0	20

Lab Sample ID: 720-90698-31 MS
Matrix: Solid
Analysis Batch: 259111

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258356

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.16		0.833	0.955		mg/Kg		95	75 - 125		

Lab Sample ID: 720-90698-31 MSD
Matrix: Solid
Analysis Batch: 259111

Client Sample ID: DG-N13S-3.5-4
Prep Type: Total/NA
Prep Batch: 258356

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.16		0.833	1.05		mg/Kg		106	75 - 125	10	20

Lab Sample ID: MB 720-258616/1-A
Matrix: Solid
Analysis Batch: 258798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/17/19 19:30	01/18/19 14:11	1

Lab Sample ID: LCS 720-258616/2-A
Matrix: Solid
Analysis Batch: 258798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258616

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.677		mg/Kg		81	80 - 120		

Lab Sample ID: 720-90698-34 MS
Matrix: Solid
Analysis Batch: 258798

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	17		0.714	25.6	4	mg/Kg		1224	75 - 125		

Lab Sample ID: 720-90698-34 MSD
Matrix: Solid
Analysis Batch: 258798

Client Sample ID: DG-O15S-0.5-1
Prep Type: Total/NA
Prep Batch: 258616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	17		0.714	24.0	4	mg/Kg		996	75 - 125	7	20

Lab Sample ID: 720-90698-35 MS
Matrix: Solid
Analysis Batch: 258798

Client Sample ID: DG-O15S-3.5-4
Prep Type: Total/NA
Prep Batch: 258616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.26	F1	0.704	0.774	F1	mg/Kg		73	75 - 125		

Lab Sample ID: 720-90698-35 MSD
Matrix: Solid
Analysis Batch: 258798

Client Sample ID: DG-O15S-3.5-4
Prep Type: Total/NA
Prep Batch: 258616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.26	F1	0.725	0.912		mg/Kg		90	75 - 125	16	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90698-1 DU
Matrix: Solid
Analysis Batch: 258378

Client Sample ID: DG-X9S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.2			9.5		%				7	20

Lab Sample ID: 720-90698-21 DU
Matrix: Solid
Analysis Batch: 258381

Client Sample ID: DG-V13S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.5			12.2		%				10	20

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Analysis Batch: 522443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	8260B	522472
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	8260B	522472
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	8260B	522472
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	8260B	522472
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	8260B	522472
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	8260B	522472
720-90698-8	DG-P9S-0.5-1	Total/NA	Solid	8260B	522472
720-90698-9	DG-P9S-3.5-4	Total/NA	Solid	8260B	522472
MB 440-522443/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-522443/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	8260B	522472
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	8260B	522472

Analysis Batch: 522444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522472
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522472
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522472
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	522472
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522472
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522472
720-90698-8	DG-P9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522472
720-90698-9	DG-P9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522472
MB 440-522444/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-522444/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522472
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522472

Prep Batch: 522472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	5035	
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	5035	
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	5035	
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	5035	
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	5035	
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	5035	
720-90698-8	DG-P9S-0.5-1	Total/NA	Solid	5035	
720-90698-9	DG-P9S-3.5-4	Total/NA	Solid	5035	
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	5035	
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	5035	

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Analysis Batch: 522630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	8260B	522662
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	8260B	522662
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	8260B	522662
720-90698-26	DUP-91	Total/NA	Solid	8260B	522662
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	8260B	522662
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	8260B	522662
720-90698-29	DUP-90	Total/NA	Solid	8260B	522662
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	8260B	522662
MB 440-522630/6	Method Blank	Total/NA	Solid	8260B	
LCS 440-522630/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-522630/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 522631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522662
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522662
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522662
720-90698-26	DUP-91	Total/NA	Solid	8260B/CA_LUFT MS	522662
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522662
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522662
720-90698-29	DUP-90	Total/NA	Solid	8260B/CA_LUFT MS	522662
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522662
MB 440-522631/6	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-522631/9	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-522631/10	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 522644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-2 - RA	DG-X9S-3.5-4	Total/NA	Solid	8260B	522668
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	8260B	522668
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	8260B	522668
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	8260B	522668
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	8260B	522668
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	8260B	522668
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	8260B	522668
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	8260B	522668
MB 440-522644/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-522644/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	8260B	522668
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	8260B	522668

GC/MS VOA (Continued)

Analysis Batch: 522645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522668
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522668
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522668
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522668
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	522668
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522668
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522668
MB 440-522645/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-522645/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522668
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522668

Prep Batch: 522662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	5035	
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	5035	
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	5035	
720-90698-26	DUP-91	Total/NA	Solid	5035	
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	5035	
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	5035	
720-90698-29	DUP-90	Total/NA	Solid	5035	
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	5035	

Prep Batch: 522668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-2 - RA	DG-X9S-3.5-4	Total/NA	Solid	5035	
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	5035	
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	5035	
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	5035	
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	5035	
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	5035	
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	5035	
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	5035	
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	5035	
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 522714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	8260B	522815
720-90698-16	DUP-74	Total/NA	Solid	8260B	522815
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	8260B	522815
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	8260B	522815

GC/MS VOA (Continued)

Analysis Batch: 522714 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	8260B	522815
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	8260B	522815
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	8260B	522815
MB 440-522714/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-522714/6	Lab Control Sample	Total/NA	Solid	8260B	
440-229636-A-2 MS	Matrix Spike	Total/NA	Solid	8260B	
440-229636-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 522715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522815
720-90698-16	DUP-74	Total/NA	Solid	8260B/CA_LUFT MS	522815
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522815
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522815
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522815
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522815
MB 440-522715/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-522715/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-229636-A-2 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-229636-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 522815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	5035	
720-90698-16	DUP-74	Total/NA	Solid	5035	
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	5035	
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	5035	
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	5035	
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	5035	
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 523011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	8260B	523238
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	8260B	523238
720-90698-37	DUP-105	Total/NA	Solid	8260B	523238
MB 440-523011/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-523011/5	Lab Control Sample	Total/NA	Solid	8260B	
440-230264-A-15 MS	Matrix Spike	Total/NA	Solid	8260B	
440-230264-A-15 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

GC/MS VOA (Continued)

Analysis Batch: 523012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	523238
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	523238
720-90698-37	DUP-105	Total/NA	Solid	8260B/CA_LUFT MS	523238
MB 440-523012/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-523012/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-230264-A-15 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-230264-A-15 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 523238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	5035	
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	5035	
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	5035	
720-90698-33	DUP-89	Total/NA	Solid	5035	
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	5035	
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	5035	
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	5035	
720-90698-37	DUP-105	Total/NA	Solid	5035	
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	5035	
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	5035	
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	5035	
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 523259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	8260B	523238
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	8260B	523238
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	8260B	523238
720-90698-33	DUP-89	Total/NA	Solid	8260B	523238
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	8260B	523238
MB 440-523259/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-523259/14	Lab Control Sample	Total/NA	Solid	8260B	
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	8260B	523238
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	8260B	523238
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	8260B	523238
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	8260B	523238

Analysis Batch: 523260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	523238
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	523238
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	523238

GC/MS VOA (Continued)

Analysis Batch: 523260 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-33	DUP-89	Total/NA	Solid	8260B/CA_LUFT MS	523238
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	523238
MB 440-523260/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-523260/15	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	523238
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	523238
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	523238
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	523238

GC/MS Semi VOA

Prep Batch: 258562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	3546	
MB 720-258562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258562/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90673-E-19-E MS	Matrix Spike	Total/NA	Solid	3546	
720-90673-E-19-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	3546	
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	3546	
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	3546	
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	3546	
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	3546	
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	3546	
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	3546	
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	3546	
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	3546	
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	3546	
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	3546	
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	3546	
720-90698-16	DUP-74	Total/NA	Solid	3546	
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	3546	
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	3546	
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	3546	
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	3546	
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	3546	
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	3546	
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	3546	
MB 720-258581/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258581/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 258581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 258709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	3546	
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-26	DUP-91	Total/NA	Solid	3546	
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	3546	
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	3546	
720-90698-29	DUP-90	Total/NA	Solid	3546	
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	3546	
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	3546	
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	3546	
720-90698-33	DUP-89	Total/NA	Solid	3546	
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	3546	
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	3546	
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	3546	
720-90698-37	DUP-105	Total/NA	Solid	3546	
MB 720-258709/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258709/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	3546	
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	3546	
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	3546	
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 258768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258562/1-A	Method Blank	Total/NA	Solid	8270C SIM	258562
LCS 720-258562/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258562
720-90673-E-19-E MS	Matrix Spike	Total/NA	Solid	8270C SIM	258562
720-90673-E-19-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	258562

Analysis Batch: 258858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	8270C SIM	258562
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	8270C SIM	258709
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	8270C SIM	258709
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	8270C SIM	258709
MB 720-258709/1-A	Method Blank	Total/NA	Solid	8270C SIM	258709
LCS 720-258709/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258709
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	8270C SIM	258709
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	8270C SIM	258709
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	8270C SIM	258709
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	8270C SIM	258709
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	8270C SIM	258709
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	8270C SIM	258709

GC/MS Semi VOA (Continued)

Analysis Batch: 258909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	8270C SIM	258709

Analysis Batch: 258958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	8270C SIM	258581
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	8270C SIM	258581
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	8270C SIM	258581
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	8270C SIM	258581
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	8270C SIM	258581
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	8270C SIM	258581
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	8270C SIM	258581
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	8270C SIM	258581
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	8270C SIM	258709
MB 720-258581/1-A	Method Blank	Total/NA	Solid	8270C SIM	258581
LCS 720-258581/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258581
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	8270C SIM	258581

Analysis Batch: 259125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-16	DUP-74	Total/NA	Solid	8270C SIM	258581
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	8270C SIM	258581
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	8270C SIM	258581
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	8270C SIM	258581
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	8270C SIM	258709
720-90698-29	DUP-90	Total/NA	Solid	8270C SIM	258709
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	8270C SIM	258709
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	8270C SIM	258709
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	8270C SIM	258709
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	8270C SIM	258709
720-90698-37	DUP-105	Total/NA	Solid	8270C SIM	258709

Analysis Batch: 259228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-26	DUP-91	Total/NA	Solid	8270C SIM	258709
720-90698-33	DUP-89	Total/NA	Solid	8270C SIM	258709

GC Semi VOA

Prep Batch: 258386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 258386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	3546	
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	3546	
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	3546	
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	3546	
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	3546	
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	3546	
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	3546	
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	3546	
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	3546	
MB 720-258386/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258386/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	3546	
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 258556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	3546	
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	3546	
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	3546	
720-90698-16	DUP-74	Total/NA	Solid	3546	
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	3546	
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	3546	
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	3546	
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	3546	
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	3546	
MB 720-258556/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258556/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90765-A-1-E MS	Matrix Spike	Total/NA	Solid	3546	
720-90765-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	3546	
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	3546	
MB 720-258564/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258564/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90673-E-33-E MS	Matrix Spike	Total/NA	Solid	3546	
720-90673-E-33-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	3546	
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	3546	
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	3546	
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	3546	
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	3546	
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	3546	
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	3546	
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	3546	
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	3546	
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 258580 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	3546	
720-90698-16	DUP-74	Total/NA	Solid	3546	
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	3546	
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	3546	
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	3546	
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	3546	
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	3546	
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	3546	
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	3546	
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	3546	
MB 720-258580/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258580/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	3546	
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 258674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90765-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B	258556
720-90765-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	258556

Analysis Batch: 258676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258556/1-A	Method Blank	Total/NA	Solid	8015B	258556
LCS 720-258556/2-A	Lab Control Sample	Total/NA	Solid	8015B	258556

Analysis Batch: 258687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-258695/2-A	Lab Control Sample	Total/NA	Solid	8015B	258695
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	8015B	258695
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	8015B	258695

Analysis Batch: 258688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	8015B	258556
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	8015B	258556
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	8015B	258556
720-90698-16	DUP-74	Total/NA	Solid	8015B	258556
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	8015B	258556
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	8015B	258556
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	8015B	258556

Prep Batch: 258689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-26	DUP-91	Total/NA	Solid	3546	
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	3546	
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	3546	
720-90698-29	DUP-90	Total/NA	Solid	3546	
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	3546	
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	3546	
720-90698-33	DUP-89	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 258689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	3546	
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	3546	
MB 720-258689/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258689/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 258691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	3546	
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	3546	
720-90698-37	DUP-105	Total/NA	Solid	3546	
MB 720-258691/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258691/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	3546	
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	3546	
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	3546	
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 258695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	3546	
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	3546	
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	3546	
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-26	DUP-91	Total/NA	Solid	3546	
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	3546	
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	3546	
720-90698-29	DUP-90	Total/NA	Solid	3546	
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	3546	
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	3546	
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	3546	
720-90698-33	DUP-89	Total/NA	Solid	3546	
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	3546	
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	3546	
MB 720-258695/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258695/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	3546	
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 258737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	8015B	258386
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	8015B	258386
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	8015B	258386
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	8015B	258386
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	8015B	258386
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	8015B	258386
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	8015B	258386

GC Semi VOA (Continued)

Analysis Batch: 258737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	8015B	258386
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	8015B	258556
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	8015B	258556
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	8015B	258695
MB 720-258386/1-A	Method Blank	Total/NA	Solid	8015B	258386
MB 720-258695/1-A	Method Blank	Total/NA	Solid	8015B	258695
LCS 720-258386/2-A	Lab Control Sample	Total/NA	Solid	8015B	258386
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	8015B	258386
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	8015B	258386

Prep Batch: 258765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	3546	
720-90698-37	DUP-105	Total/NA	Solid	3546	
MB 720-258765/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258765/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	3546	
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 258820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	8081A	258689
MB 720-258564/1-A	Method Blank	Total/NA	Solid	8081A	258564
MB 720-258580/1-A	Method Blank	Total/NA	Solid	8081A	258580
MB 720-258689/1-A	Method Blank	Total/NA	Solid	8081A	258689
LCS 720-258564/2-A	Lab Control Sample	Total/NA	Solid	8081A	258564
LCS 720-258580/2-A	Lab Control Sample	Total/NA	Solid	8081A	258580
LCS 720-258689/2-A	Lab Control Sample	Total/NA	Solid	8081A	258689
720-90673-E-33-E MS	Matrix Spike	Total/NA	Solid	8081A	258564
720-90673-E-33-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	258564
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	8081A	258689
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	8081A	258689

Analysis Batch: 258821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	8081A	258564
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	8081A	258580
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	8081A	258580
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	8081A	258580
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	8081A	258580
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	8081A	258580
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	8081A	258580

Analysis Batch: 258822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	8081A	258580
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	8081A	258580
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	8081A	258580
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	8081A	258580
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	8081A	258580
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	8081A	258580

GC Semi VOA (Continued)

Analysis Batch: 258822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	8081A	258580
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	8081A	258580
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	8081A	258580
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	8081A	258580

Analysis Batch: 258824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258765/1-A	Method Blank	Total/NA	Solid	8015B	258765
LCS 720-258765/2-A	Lab Control Sample	Total/NA	Solid	8015B	258765

Analysis Batch: 258825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	8015B	258386

Analysis Batch: 258842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	8015B	258695
720-90698-37	DUP-105	Total/NA	Solid	8015B	258765
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	8015B	258695
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	8015B	258695

Analysis Batch: 258843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	8081A	258580
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	8081A	258580
720-90698-16	DUP-74	Total/NA	Solid	8081A	258580
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	8081A	258580
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	8081A	258580
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	8081A	258580

Analysis Batch: 258846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	8015B	258765
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	8015B	258765
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	8015B	258765

Analysis Batch: 258917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	8015B	258695
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	8015B	258695
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	8015B	258695
720-90698-26	DUP-91	Total/NA	Solid	8015B	258695
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	8015B	258695
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	8015B	258695
720-90698-29	DUP-90	Total/NA	Solid	8015B	258695
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	8015B	258695
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	8015B	258695
720-90698-33	DUP-89	Total/NA	Solid	8015B	258695
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	8015B	258695
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	8015B	258695

GC Semi VOA (Continued)

Analysis Batch: 258919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	8015B	258386

Analysis Batch: 259000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	8081A	258564

Analysis Batch: 259019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258691/1-A	Method Blank	Total/NA	Solid	8081A	258691
LCS 720-258691/2-A	Lab Control Sample	Total/NA	Solid	8081A	258691

Analysis Batch: 259087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-26	DUP-91	Total/NA	Solid	8081A	258689
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	8081A	258689
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	8081A	258689
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	8081A	258691
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	8081A	258691
720-90698-37	DUP-105	Total/NA	Solid	8081A	258691
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	8081A	258691
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	8081A	258691
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	8081A	258691
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	8081A	258691

Analysis Batch: 259105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-29	DUP-90	Total/NA	Solid	8081A	258689
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	8081A	258689
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	8081A	258689
720-90698-33	DUP-89	Total/NA	Solid	8081A	258689
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	8081A	258689
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	8081A	258689

Prep Batch: 522310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	3546	
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	3546	
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	3546	
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	3546	
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	3546	
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	3546	
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	3546	
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	3546	
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	3546	
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	3546	
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	3546	
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	3546	
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	3546	
720-90698-16	DUP-74	Total/NA	Solid	3546	
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	3546	
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 522310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	3546	
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	3546	
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	3546	
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	3546	
MB 440-522310/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-522310/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	3546	
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 522319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	3546	
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	3546	
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-26	DUP-91	Total/NA	Solid	3546	
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	3546	
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	3546	
720-90698-29	DUP-90	Total/NA	Solid	3546	
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	3546	
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	3546	
720-90698-33	DUP-89	Total/NA	Solid	3546	
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	3546	
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	3546	
720-90698-37	DUP-105	Total/NA	Solid	3546	
MB 440-522319/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-522319/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	3546	
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 522323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	3546	
MB 440-522323/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-522323/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	3546	
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 522324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	3546	
MB 440-522324/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-522324/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	3546	
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 522547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	8082	522310
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	8082	522310
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	8082	522310
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	8082	522310

GC Semi VOA (Continued)

Analysis Batch: 522547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	8082	522310
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	8082	522310
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	8082	522310
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	8082	522310
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	8082	522310
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	8082	522310
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	8082	522310
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	8082	522310
720-90698-16	DUP-74	Total/NA	Solid	8082	522310
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	8082	522310
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	8082	522310
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	8082	522310
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	8082	522310
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	8082	522310
MB 440-522310/1-A	Method Blank	Total/NA	Solid	8082	522310
LCS 440-522310/2-A	Lab Control Sample	Total/NA	Solid	8082	522310
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	8082	522310
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	8082	522310

Analysis Batch: 522551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	8082	522319
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	8082	522319
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	8082	522319
720-90698-26	DUP-91	Total/NA	Solid	8082	522319
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	8082	522319
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	8082	522319
720-90698-29	DUP-90	Total/NA	Solid	8082	522319
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	8082	522319
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	8082	522319
720-90698-33	DUP-89	Total/NA	Solid	8082	522319
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	8082	522319
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	8082	522319
720-90698-37	DUP-105	Total/NA	Solid	8082	522319
MB 440-522319/1-A	Method Blank	Total/NA	Solid	8082	522319
LCS 440-522319/2-A	Lab Control Sample	Total/NA	Solid	8082	522319
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	8082	522319
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	8082	522319

Analysis Batch: 522605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-522323/1-A	Method Blank	Total/NA	Solid	8082	522323
LCS 440-522323/2-A	Lab Control Sample	Total/NA	Solid	8082	522323

Analysis Batch: 522792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	8082	522323
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	8082	522323
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	8082	522323

GC Semi VOA (Continued)

Analysis Batch: 522850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	8082	522310
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	8082	522310
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	8082	522324
MB 440-522324/1-A	Method Blank	Total/NA	Solid	8082	522324
LCS 440-522324/2-A	Lab Control Sample	Total/NA	Solid	8082	522324
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	8082	522324
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	8082	522324

Metals

Prep Batch: 258286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	7471A	
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	7471A	
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	7471A	
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	7471A	
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	7471A	
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	7471A	
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	7471A	
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	7471A	
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	7471A	
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	7471A	
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	7471A	
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	7471A	
MB 720-258286/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258286/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	7471A	
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 258337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	3050B	
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	3050B	
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	3050B	
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	3050B	
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	3050B	
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	3050B	
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	3050B	
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	3050B	
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	3050B	
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	3050B	
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	3050B	
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	3050B	
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	3050B	
720-90698-16	DUP-74	Total/NA	Solid	3050B	
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	3050B	
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	3050B	
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	3050B	
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	3050B	
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 258337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258337/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258337/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	3050B	
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	3050B	
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	3050B	
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 258347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	3050B	
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	3050B	
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	3050B	
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	3050B	
720-90698-26	DUP-91	Total/NA	Solid	3050B	
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	3050B	
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	3050B	
720-90698-29	DUP-90	Total/NA	Solid	3050B	
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	3050B	
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	3050B	
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	3050B	
720-90698-33	DUP-89	Total/NA	Solid	3050B	
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	3050B	
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	3050B	
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	3050B	
720-90698-37	DUP-105	Total/NA	Solid	3050B	
MB 720-258347/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258347/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	3050B	
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	3050B	
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	3050B	
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 258356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	7471A	
720-90698-16	DUP-74	Total/NA	Solid	7471A	
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	7471A	
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	7471A	
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	7471A	
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	7471A	
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	7471A	
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	7471A	
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	7471A	
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	7471A	
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	7471A	
720-90698-26	DUP-91	Total/NA	Solid	7471A	
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	7471A	
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	7471A	
720-90698-29	DUP-90	Total/NA	Solid	7471A	
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	7471A	
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 258356 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	7471A	
720-90698-33	DUP-89	Total/NA	Solid	7471A	
MB 720-258356/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258356/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	7471A	
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	7471A	
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	7471A	
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 258600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	6010B	258337
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-16	DUP-74	Total/NA	Solid	6010B	258337
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	6010B	258337
MB 720-258337/1-A	Method Blank	Total/NA	Solid	6010B	258337
LCS 720-258337/2-A	Lab Control Sample	Total/NA	Solid	6010B	258337
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	6010B	258337

Analysis Batch: 258609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	6010B	258347
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	6010B	258347
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	6010B	258347
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	6010B	258347
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	6010B	258347
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	6010B	258347
720-90698-29	DUP-90	Total/NA	Solid	6010B	258347
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	6010B	258347
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	6010B	258347
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	6010B	258347
720-90698-33	DUP-89	Total/NA	Solid	6010B	258347
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	6010B	258347
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	6010B	258347

Metals (Continued)

Analysis Batch: 258609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	6010B	258347
720-90698-37	DUP-105	Total/NA	Solid	6010B	258347
MB 720-258347/1-A	Method Blank	Total/NA	Solid	6010B	258347
LCS 720-258347/2-A	Lab Control Sample	Total/NA	Solid	6010B	258347
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	6010B	258347
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	6010B	258347
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	6010B	258347
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	6010B	258347

Prep Batch: 258616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	7471A	
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	7471A	
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	7471A	
720-90698-37	DUP-105	Total/NA	Solid	7471A	
MB 720-258616/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258616/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	7471A	
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	7471A	
720-90698-35 MS	DG-O15S-3.5-4	Total/NA	Solid	7471A	
720-90698-35 MSD	DG-O15S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 258679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	6010B	258337
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-16	DUP-74	Total/NA	Solid	6010B	258337
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	6010B	258337
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	6010B	258337
MB 720-258337/1-A	Method Blank	Total/NA	Solid	6010B	258337
LCS 720-258337/2-A	Lab Control Sample	Total/NA	Solid	6010B	258337
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	6010B	258337
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	6010B	258337

Metals (Continued)

Analysis Batch: 258798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	7471A	258616
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	7471A	258616
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	7471A	258616
720-90698-37	DUP-105	Total/NA	Solid	7471A	258616
MB 720-258616/1-A	Method Blank	Total/NA	Solid	7471A	258616
LCS 720-258616/2-A	Lab Control Sample	Total/NA	Solid	7471A	258616
720-90698-34 MS	DG-O15S-0.5-1	Total/NA	Solid	7471A	258616
720-90698-34 MSD	DG-O15S-0.5-1	Total/NA	Solid	7471A	258616
720-90698-35 MS	DG-O15S-3.5-4	Total/NA	Solid	7471A	258616
720-90698-35 MSD	DG-O15S-3.5-4	Total/NA	Solid	7471A	258616

Analysis Batch: 258989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	7471A	258286
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	7471A	258286
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	7471A	258286
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	7471A	258286
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	7471A	258286
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	7471A	258286
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	7471A	258286
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	7471A	258286
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	7471A	258286
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	7471A	258286
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	7471A	258286
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	7471A	258286
MB 720-258286/1-A	Method Blank	Total/NA	Solid	7471A	258286
LCS 720-258286/2-A	Lab Control Sample	Total/NA	Solid	7471A	258286
720-90698-4 MS	DG-V9S-3.5-4	Total/NA	Solid	7471A	258286
720-90698-4 MSD	DG-V9S-3.5-4	Total/NA	Solid	7471A	258286

Analysis Batch: 259111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-16	DUP-74	Total/NA	Solid	7471A	258356
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	7471A	258356
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	7471A	258356
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	7471A	258356
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	7471A	258356
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	7471A	258356
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-26	DUP-91	Total/NA	Solid	7471A	258356
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	7471A	258356
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-29	DUP-90	Total/NA	Solid	7471A	258356
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	7471A	258356
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	7471A	258356
720-90698-33	DUP-89	Total/NA	Solid	7471A	258356

Metals (Continued)

Analysis Batch: 259111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258356/1-A	Method Blank	Total/NA	Solid	7471A	258356
LCS 720-258356/2-A	Lab Control Sample	Total/NA	Solid	7471A	258356
720-90698-25 MS	DG-T13S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-25 MSD	DG-T13S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-31 MS	DG-N13S-3.5-4	Total/NA	Solid	7471A	258356
720-90698-31 MSD	DG-N13S-3.5-4	Total/NA	Solid	7471A	258356

Analysis Batch: 259145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-26	DUP-91	Total/NA	Solid	6010B	258347

Analysis Batch: 259174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-26	DUP-91	Total/NA	Solid	6010B	258347

General Chemistry

Analysis Batch: 258378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-1	DG-X9S-0.5-1	Total/NA	Solid	Moisture	
720-90698-2	DG-X9S-3.5-4	Total/NA	Solid	Moisture	
720-90698-3	DG-V9S-0.5-1	Total/NA	Solid	Moisture	
720-90698-4	DG-V9S-3.5-4	Total/NA	Solid	Moisture	
720-90698-5	DG-V9S-7.5-8	Total/NA	Solid	Moisture	
720-90698-6	DG-T9S-0.5-1	Total/NA	Solid	Moisture	
720-90698-7	DG-T9S-3.5-4	Total/NA	Solid	Moisture	
720-90698-10	DG-N9S-0.5-1	Total/NA	Solid	Moisture	
720-90698-11	DG-N9S-3.5-4	Total/NA	Solid	Moisture	
720-90698-12	DG-O11S-0.5-1	Total/NA	Solid	Moisture	
720-90698-13	DG-O11S-3.5-4	Total/NA	Solid	Moisture	
720-90698-14	DG-Q11S-0.5-1	Total/NA	Solid	Moisture	
720-90698-15	DG-Q11S-3.5-4	Total/NA	Solid	Moisture	
720-90698-16	DUP-74	Total/NA	Solid	Moisture	
720-90698-17	DG-S11S-0.5-1	Total/NA	Solid	Moisture	
720-90698-18	DG-S11S-3.5-4	Total/NA	Solid	Moisture	
720-90698-19	DG-U11S-0.5-1	Total/NA	Solid	Moisture	
720-90698-20	DG-U11S-3.5-4	Total/NA	Solid	Moisture	
720-90698-1 DU	DG-X9S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 258381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-21	DG-V13S-0.5-1	Total/NA	Solid	Moisture	
720-90698-22	DG-V13S-3.5-4	Total/NA	Solid	Moisture	
720-90698-23	DG-V13S-7.5-8	Total/NA	Solid	Moisture	
720-90698-24	DG-T13S-0.5-1	Total/NA	Solid	Moisture	
720-90698-25	DG-T13S-3.5-4	Total/NA	Solid	Moisture	
720-90698-26	DUP-91	Total/NA	Solid	Moisture	
720-90698-27	DG-P13S-0.5-1	Total/NA	Solid	Moisture	
720-90698-28	DG-P13S-3.5-4	Total/NA	Solid	Moisture	
720-90698-29	DUP-90	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 258381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-30	DG-N13S-0.5-1	Total/NA	Solid	Moisture	
720-90698-31	DG-N13S-3.5-4	Total/NA	Solid	Moisture	
720-90698-32	DG-N13S-7.5-8	Total/NA	Solid	Moisture	
720-90698-33	DUP-89	Total/NA	Solid	Moisture	
720-90698-34	DG-O15S-0.5-1	Total/NA	Solid	Moisture	
720-90698-35	DG-O15S-3.5-4	Total/NA	Solid	Moisture	
720-90698-36	DG-O15S-7.5-8	Total/NA	Solid	Moisture	
720-90698-37	DUP-105	Total/NA	Solid	Moisture	
720-90698-21 DU	DG-V13S-0.5-1	Total/NA	Solid	Moisture	

Client Sample ID: DG-X9S-0.5-1

Lab Sample ID: 720-90698-1

Date Collected: 01/10/19 07:30

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B		1	522443	01/15/19 12:21	HR	TAL IRV
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522444	01/15/19 12:21	HR	TAL IRV
Total/NA	Prep	3546			258562	01/15/19 15:04	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 20:38	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258737	01/18/19 22:15	DCH	TAL PLS
Total/NA	Prep	3546			258564	01/15/19 15:08	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258821	01/19/19 11:31	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 15:27	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 19:32	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258600	01/15/19 18:06	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-X9S-3.5-4

Lab Sample ID: 720-90698-2

Date Collected: 01/10/19 07:32

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B		1	522443	01/15/19 12:49	HR	TAL IRV
Total/NA	Prep	5035	RA		522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B	RA	1	522644	01/16/19 04:12	JB	TAL IRV
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522444	01/15/19 12:49	HR	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 17:23	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258737	01/18/19 20:48	DCH	TAL PLS
Total/NA	Prep	3546			258564	01/15/19 15:08	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259000	01/23/19 08:28	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 19:40	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258679	01/16/19 19:36	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:11	BKR	TAL PLS

Client Sample ID: DG-X9S-3.5-4

Lab Sample ID: 720-90698-2

Date Collected: 01/10/19 07:32

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		4	258989	01/22/19 15:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-V9S-0.5-1

Lab Sample ID: 720-90698-3

Date Collected: 01/10/19 08:10

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B		1	522644	01/16/19 04:40	JB	TAL IRV
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522645	01/16/19 04:40	JB	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 17:46	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258737	01/18/19 19:49	DCH	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258821	01/19/19 12:37	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 15:54	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 19:41	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:16	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-V9S-3.5-4

Lab Sample ID: 720-90698-4

Date Collected: 01/10/19 08:12

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B		1	522443	01/15/19 10:41	HR	TAL IRV
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522444	01/15/19 10:41	HR	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 16:59	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258737	01/18/19 18:51	DCH	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS

Client Sample ID: DG-V9S-3.5-4

Lab Sample ID: 720-90698-4

Date Collected: 01/10/19 08:12
Matrix: Solid
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081A		1	258821	01/19/19 12:21	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 15:13	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258679	01/16/19 19:27	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:01	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-V9S-7.5-8

Lab Sample ID: 720-90698-5

Date Collected: 01/10/19 08:15
Matrix: Solid
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B		1	522443	01/15/19 13:46	HR	TAL IRV
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522444	01/15/19 13:46	HR	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 18:09	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258737	01/18/19 20:18	DCH	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258821	01/19/19 12:53	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 16:07	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 19:55	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:20	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-T9S-0.5-1

Lab Sample ID: 720-90698-6

Date Collected: 01/10/19 09:00
Matrix: Solid
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B		1	522443	01/15/19 14:15	HR	TAL IRV

Client Sample ID: DG-T9S-0.5-1

Lab Sample ID: 720-90698-6

Date Collected: 01/10/19 09:00

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522444	01/15/19 14:15	HR	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 20:06	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258737	01/18/19 21:17	DCH	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258821	01/19/19 13:10	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 16:21	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:00	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:25	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-T9S-3.5-4

Lab Sample ID: 720-90698-7

Date Collected: 01/10/19 09:02

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B		1	522443	01/15/19 14:43	HR	TAL IRV
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522444	01/15/19 14:43	HR	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 18:33	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258919	01/23/19 00:13	DCH	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258822	01/19/19 09:27	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 16:35	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:04	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:30	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 14:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-P9S-0.5-1

Lab Sample ID: 720-90698-8

Date Collected: 01/10/19 09:15
Matrix: Solid
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B		1	522443	01/15/19 15:11	HR	TAL IRV
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522444	01/15/19 15:11	HR	TAL IRV

Client Sample ID: DG-P9S-3.5-4

Lab Sample ID: 720-90698-9

Date Collected: 01/10/19 09:17
Matrix: Solid
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B		1	522443	01/15/19 15:40	HR	TAL IRV
Total/NA	Prep	5035			522472	01/15/19 08:59	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522444	01/15/19 15:40	HR	TAL IRV

Client Sample ID: DG-N9S-0.5-1

Lab Sample ID: 720-90698-10

Date Collected: 01/10/19 09:30
Matrix: Solid
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B		1	522644	01/16/19 05:09	JB	TAL IRV
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522645	01/16/19 05:09	JB	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		10	258958	01/22/19 21:40	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		10	258825	01/19/19 18:10	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		2	258822	01/19/19 09:44	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 16:48	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:09	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:35	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 15:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-N9S-3.5-4

Lab Sample ID: 720-90698-11

Date Collected: 01/10/19 09:32

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B		1	522644	01/16/19 05:37	JB	TAL IRV
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522645	01/16/19 05:37	JB	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 18:56	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258737	01/18/19 21:46	DCH	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258822	01/19/19 10:01	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 17:02	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:14	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:49	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 15:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-O11S-0.5-1

Lab Sample ID: 720-90698-12

Date Collected: 01/10/19 10:00

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B		1	522630	01/16/19 00:04	OH1	TAL IRV
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522631	01/16/19 00:04	OH1	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 20:30	LPL	TAL PLS
Total/NA	Prep	3546			258386	01/11/19 15:04	KLM	TAL PLS
Total/NA	Analysis	8015B		1	258737	01/18/19 19:20	DCH	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258822	01/19/19 10:17	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 17:15	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:18	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:54	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 15:07	MAG	TAL PLS

Client Sample ID: DG-O11S-0.5-1

Date Collected: 01/10/19 10:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-O11S-3.5-4

Date Collected: 01/10/19 10:02
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B		1	522630	01/16/19 00:28	OH1	TAL IRV
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522631	01/16/19 00:28	OH1	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258958	01/22/19 22:03	LPL	TAL PLS
Total/NA	Prep	3546			258556	01/15/19 13:31	JNG	TAL PLS
Total/NA	Analysis	8015B		2	258688	01/17/19 23:23	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258822	01/19/19 10:34	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 17:29	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:23	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 18:59	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 15:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-Q11S-0.5-1

Date Collected: 01/10/19 10:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B		1	522630	01/16/19 00:52	OH1	TAL IRV
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522631	01/16/19 00:52	OH1	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		20	258958	01/22/19 22:27	LPL	TAL PLS
Total/NA	Prep	3546			258556	01/15/19 13:31	JNG	TAL PLS
Total/NA	Analysis	8015B		10	258688	01/18/19 00:12	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		2	258843	01/21/19 14:34	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-Q11S-0.5-1

Date Collected: 01/10/19 10:25
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	522547	01/15/19 17:42	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:28	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 19:03	BKR	TAL PLS
Total/NA	Prep	7471A			258286	01/22/19 11:55	MAA	TAL PLS
Total/NA	Analysis	7471A		1	258989	01/22/19 15:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-Q11S-3.5-4

Date Collected: 01/10/19 10:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	522714	01/16/19 13:39	TCN	TAL IRV
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522715	01/16/19 13:39	TCN	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		100	258958	01/22/19 22:50	LPL	TAL PLS
Total/NA	Prep	3546			258556	01/15/19 13:31	JNG	TAL PLS
Total/NA	Analysis	8015B		50	258688	01/18/19 02:37	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		5	258843	01/21/19 14:51	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 17:56	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:32	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 19:08	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DUP-74

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	522714	01/16/19 14:05	TCN	TAL IRV
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522715	01/16/19 14:05	TCN	TAL IRV

Client Sample ID: DUP-74

Lab Sample ID: 720-90698-16

Date Collected: 01/10/19 00:00

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		40	259125	01/24/19 13:49	LPL	TAL PLS
Total/NA	Prep	3546			258556	01/15/19 13:31	JNG	TAL PLS
Total/NA	Analysis	8015B		10	258688	01/18/19 00:36	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		2	258843	01/21/19 15:08	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 18:10	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:37	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 19:13	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-S11S-0.5-1

Lab Sample ID: 720-90698-17

Date Collected: 01/10/19 10:50

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	522714	01/16/19 14:32	TCN	TAL IRV
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522715	01/16/19 14:32	TCN	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		50	258958	01/22/19 23:37	LPL	TAL PLS
Total/NA	Prep	3546			258556	01/15/19 13:31	JNG	TAL PLS
Total/NA	Analysis	8015B		20	258688	01/17/19 23:47	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		5	258843	01/21/19 15:25	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 18:23	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 20:51	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 19:18	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-S11S-3.5-4

Lab Sample ID: 720-90698-18

Date Collected: 01/10/19 10:52

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	522714	01/16/19 14:58	TCN	TAL IRV
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522715	01/16/19 14:58	TCN	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		40	259125	01/24/19 14:12	LPL	TAL PLS
Total/NA	Prep	3546			258556	01/15/19 13:31	JNG	TAL PLS
Total/NA	Analysis	8015B		10	258688	01/17/19 22:58	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		2	258822	01/19/19 10:51	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 19:54	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258679	01/16/19 20:56	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		4	259111	01/23/19 16:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-U11S-0.5-1

Lab Sample ID: 720-90698-19

Date Collected: 01/10/19 11:20

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	522714	01/16/19 15:24	TCN	TAL IRV
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B		1	523259	01/17/19 23:02	AYL	TAL IRV
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523260	01/17/19 23:02	AYL	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		40	259125	01/24/19 14:36	LPL	TAL PLS
Total/NA	Prep	3546			258556	01/15/19 13:31	JNG	TAL PLS
Total/NA	Analysis	8015B		50	258737	01/18/19 16:24	DCH	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		5	258843	01/21/19 15:41	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 18:50	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 21:01	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 19:27	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:09	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-U11S-0.5-1

Date Collected: 01/10/19 11:20
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-U11S-3.5-4

Date Collected: 01/10/19 11:22
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B		1	522644	01/16/19 01:50	JB	TAL IRV
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522645	01/16/19 01:50	JB	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 20:53	LPL	TAL PLS
Total/NA	Prep	3546			258556	01/15/19 13:31	JNG	TAL PLS
Total/NA	Analysis	8015B		3	258688	01/18/19 02:12	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258822	01/19/19 11:07	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 19:04	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 21:05	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 19:32	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258378	01/11/19 13:50	TNL	TAL PLS

Client Sample ID: DG-V13S-0.5-1

Date Collected: 01/10/19 12:50
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	522714	01/16/19 15:51	TCN	TAL IRV
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522715	01/16/19 15:51	TCN	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		20	259125	01/24/19 15:23	LPL	TAL PLS
Total/NA	Prep	3546			258556	01/15/19 13:31	JNG	TAL PLS
Total/NA	Analysis	8015B		20	258737	01/18/19 16:54	DCH	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		2	258843	01/21/19 15:58	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-V13S-0.5-1

Lab Sample ID: 720-90698-21

Date Collected: 01/10/19 12:50
Matrix: Solid
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	522547	01/15/19 19:17	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 17:25	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-V13S-3.5-4

Lab Sample ID: 720-90698-22

Date Collected: 01/10/19 12:52
Matrix: Solid
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	522714	01/16/19 16:17	TCN	TAL IRV
Total/NA	Prep	5035			522815	01/10/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522715	01/16/19 16:17	TCN	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		20	258958	01/22/19 21:16	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		10	258917	01/22/19 16:55	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258822	01/19/19 11:24	JZT	TAL PLS
Total/NA	Prep	3546			522310	01/14/19 13:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522547	01/15/19 19:31	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 17:29	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-V13S-7.5-8

Lab Sample ID: 720-90698-23

Date Collected: 01/10/19 12:55
Matrix: Solid
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B		1	522644	01/16/19 03:15	JB	TAL IRV
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522645	01/16/19 03:15	JB	TAL IRV
Total/NA	Prep	3546			258581	01/15/19 17:13	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 19:19	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258917	01/23/19 01:36	JXL	TAL PLS

Client Sample ID: DG-V13S-7.5-8

Lab Sample ID: 720-90698-23

Date Collected: 01/10/19 12:55

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258822	01/19/19 11:41	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 16:10	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 17:34	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-T13S-0.5-1

Lab Sample ID: 720-90698-24

Date Collected: 01/10/19 13:25

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B		1	522644	01/16/19 03:44	JB	TAL IRV
Total/NA	Prep	5035			522668	01/15/19 21:09	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522645	01/16/19 03:44	JB	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	258909	01/22/19 07:50	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		5	258917	01/22/19 16:26	JXL	TAL PLS
Total/NA	Prep	3546			258580	01/15/19 17:04	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258822	01/19/19 11:58	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 16:23	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 17:48	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-T13S-3.5-4

Lab Sample ID: 720-90698-25

Date Collected: 01/10/19 13:27

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522668	01/16/19 00:03	JB	TAL IRV
Total/NA	Analysis	8260B		1	522644	01/16/19 00:53	JB	TAL IRV
Total/NA	Prep	5035			522668	01/16/19 00:03	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522645	01/16/19 00:53	JB	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DG-T13S-3.5-4

Date Collected: 01/10/19 13:27
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 12:47	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258737	01/18/19 11:55	DCH	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		1	258820	01/19/19 09:33	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 15:56	JM	TAL IRV
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258679	01/16/19 21:19	BKR	TAL PLS
Total/NA	Prep	3050B			258337	01/11/19 09:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258600	01/15/19 19:56	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 15:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DUP-91

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B		1	522630	01/16/19 01:16	OH1	TAL IRV
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522631	01/16/19 01:16	OH1	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		10	259228	01/25/19 11:36	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		10	258917	01/22/19 15:27	JXL	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		2	259087	01/24/19 13:06	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 16:36	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		10	259145	01/24/19 12:32	OBI	TAL PLS
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		10	259174	01/24/19 15:21	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-P13S-0.5-1

Lab Sample ID: 720-90698-27

Date Collected: 01/10/19 13:55

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B		1	522630	01/16/19 01:39	OH1	TAL IRV
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522631	01/16/19 01:39	OH1	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	259125	01/24/19 18:08	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258917	01/23/19 02:34	JXL	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259087	01/24/19 13:22	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 16:49	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 17:57	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-P13S-3.5-4

Lab Sample ID: 720-90698-28

Date Collected: 01/10/19 13:57

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B		1	522630	01/16/19 02:03	OH1	TAL IRV
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522631	01/16/19 02:03	OH1	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 19:43	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		2	258917	01/22/19 15:57	JXL	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259087	01/24/19 13:39	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 17:03	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 18:02	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DUP-90

Lab Sample ID: 720-90698-29

Date Collected: 01/10/19 00:00

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B		1	522630	01/16/19 02:27	OH1	TAL IRV
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522631	01/16/19 02:27	OH1	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	259125	01/24/19 15:46	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258917	01/23/19 02:05	JXL	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259105	01/24/19 13:29	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 17:16	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 18:07	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-N13S-0.5-1

Lab Sample ID: 720-90698-30

Date Collected: 01/10/19 14:15

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B		1	522630	01/16/19 02:51	OH1	TAL IRV
Total/NA	Prep	5035			522662	01/15/19 20:51	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522631	01/16/19 02:51	OH1	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		2	259125	01/24/19 14:59	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258917	01/23/19 03:03	JXL	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259105	01/24/19 13:45	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 17:29	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 18:12	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-N13S-3.5-4

Lab Sample ID: 720-90698-31

Date Collected: 01/10/19 14:17

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B		1	523259	01/17/19 21:16	AYL	TAL IRV
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523260	01/17/19 21:16	AYL	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 13:11	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258842	01/21/19 23:04	JXL	TAL PLS
Total/NA	Prep	3546			258691	01/17/19 09:43	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259087	01/24/19 10:06	JZT	TAL PLS
Total/NA	Prep	3546			522323	01/14/19 14:13	EGC	TAL IRV
Total/NA	Analysis	8082		1	522792	01/16/19 13:21	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 17:20	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-N13S-7.5-8

Lab Sample ID: 720-90698-32

Date Collected: 01/10/19 14:20

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B		1	523259	01/17/19 21:43	AYL	TAL IRV
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523260	01/17/19 21:43	AYL	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	259125	01/24/19 16:10	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258917	01/22/19 13:31	JXL	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259105	01/24/19 14:02	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 17:43	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 18:16	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DUP-89

Lab Sample ID: 720-90698-33

Date Collected: 01/10/19 00:00

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B		1	523259	01/17/19 22:09	AYL	TAL IRV
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523260	01/17/19 22:09	AYL	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		2	259228	01/25/19 11:59	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258917	01/23/19 03:33	JXL	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259105	01/24/19 14:19	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 17:56	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 18:21	BKR	TAL PLS
Total/NA	Prep	7471A			258356	01/23/19 10:47	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259111	01/23/19 16:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-O15S-0.5-1

Lab Sample ID: 720-90698-34

Date Collected: 01/10/19 15:00

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B		1	523259	01/17/19 22:36	AYL	TAL IRV
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523260	01/17/19 22:36	AYL	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258858	01/21/19 15:08	LPL	TAL PLS
Total/NA	Prep	3546			258765	01/18/19 10:21	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258846	01/21/19 12:58	JXL	TAL PLS
Total/NA	Prep	3546			258691	01/17/19 09:43	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259087	01/24/19 10:55	JZT	TAL PLS
Total/NA	Prep	3546			522324	01/14/19 14:16	EGC	TAL IRV
Total/NA	Analysis	8082		1	522850	01/16/19 16:00	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 18:44	BKR	TAL PLS
Total/NA	Prep	7471A			258616	01/17/19 19:30	GLL	TAL PLS
Total/NA	Analysis	7471A		100	258798	01/18/19 15:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-O15S-3.5-4

Lab Sample ID: 720-90698-35

Date Collected: 01/10/19 15:02

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B		1	523011	01/17/19 17:53	HR	TAL IRV
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523012	01/17/19 17:53	HR	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	259125	01/24/19 16:34	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258917	01/22/19 14:00	JXL	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259105	01/24/19 14:36	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 18:09	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 18:49	BKR	TAL PLS
Total/NA	Prep	7471A			258616	01/17/19 19:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258798	01/18/19 14:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Client Sample ID: DG-O15S-7.5-8

Lab Sample ID: 720-90698-36

Date Collected: 01/10/19 15:05

Matrix: Solid

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B		1	523011	01/17/19 18:26	HR	TAL IRV
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523012	01/17/19 18:26	HR	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	259125	01/24/19 16:57	LPL	TAL PLS
Total/NA	Prep	3546			258695	01/17/19 11:04	JNG	TAL PLS
Total/NA	Analysis	8015B		1	258917	01/23/19 01:07	JXL	TAL PLS
Total/NA	Prep	3546			258689	01/17/19 09:26	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259105	01/24/19 14:52	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 18:23	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 18:54	BKR	TAL PLS
Total/NA	Prep	7471A			258616	01/17/19 19:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258798	01/18/19 14:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Client Sample ID: DUP-105

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90698-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B		1	523011	01/17/19 18:52	HR	TAL IRV
Total/NA	Prep	5035			523238	01/11/19 10:40	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523012	01/17/19 18:52	HR	TAL IRV
Total/NA	Prep	3546			258709	01/18/19 14:16	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	259125	01/24/19 17:21	LPL	TAL PLS
Total/NA	Prep	3546			258765	01/18/19 10:21	RAR	TAL PLS
Total/NA	Analysis	8015B		1	258842	01/21/19 21:36	JXL	TAL PLS
Total/NA	Prep	3546			258691	01/17/19 09:43	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259087	01/24/19 12:33	JZT	TAL PLS
Total/NA	Prep	3546			522319	01/14/19 14:05	EGC	TAL IRV
Total/NA	Analysis	8082		1	522551	01/15/19 18:36	JM	TAL IRV
Total/NA	Prep	3050B			258347	01/12/19 09:26	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258609	01/15/19 18:59	BKR	TAL PLS
Total/NA	Prep	7471A			258616	01/17/19 19:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258798	01/18/19 14:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258381	01/11/19 14:15	TNL	TAL PLS

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90698-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90698-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90698-1	DG-X9S-0.5-1	Solid	01/10/19 07:30	01/10/19 18:55
720-90698-2	DG-X9S-3.5-4	Solid	01/10/19 07:32	01/10/19 18:55
720-90698-3	DG-V9S-0.5-1	Solid	01/10/19 08:10	01/10/19 18:55
720-90698-4	DG-V9S-3.5-4	Solid	01/10/19 08:12	01/10/19 18:55
720-90698-5	DG-V9S-7.5-8	Solid	01/10/19 08:15	01/10/19 18:55
720-90698-6	DG-T9S-0.5-1	Solid	01/10/19 09:00	01/10/19 18:55
720-90698-7	DG-T9S-3.5-4	Solid	01/10/19 09:02	01/10/19 18:55
720-90698-8	DG-P9S-0.5-1	Solid	01/10/19 09:15	01/10/19 18:55
720-90698-9	DG-P9S-3.5-4	Solid	01/10/19 09:17	01/10/19 18:55
720-90698-10	DG-N9S-0.5-1	Solid	01/10/19 09:30	01/10/19 18:55
720-90698-11	DG-N9S-3.5-4	Solid	01/10/19 09:32	01/10/19 18:55
720-90698-12	DG-O11S-0.5-1	Solid	01/10/19 10:00	01/10/19 18:55
720-90698-13	DG-O11S-3.5-4	Solid	01/10/19 10:02	01/10/19 18:55
720-90698-14	DG-Q11S-0.5-1	Solid	01/10/19 10:25	01/10/19 18:55
720-90698-15	DG-Q11S-3.5-4	Solid	01/10/19 10:27	01/10/19 18:55
720-90698-16	DUP-74	Solid	01/10/19 00:00	01/10/19 18:55
720-90698-17	DG-S11S-0.5-1	Solid	01/10/19 10:50	01/10/19 18:55
720-90698-18	DG-S11S-3.5-4	Solid	01/10/19 10:52	01/10/19 18:55
720-90698-19	DG-U11S-0.5-1	Solid	01/10/19 11:20	01/10/19 18:55
720-90698-20	DG-U11S-3.5-4	Solid	01/10/19 11:22	01/10/19 18:55
720-90698-21	DG-V13S-0.5-1	Solid	01/10/19 12:50	01/10/19 18:55
720-90698-22	DG-V13S-3.5-4	Solid	01/10/19 12:52	01/10/19 18:55
720-90698-23	DG-V13S-7.5-8	Solid	01/10/19 12:55	01/10/19 18:55
720-90698-24	DG-T13S-0.5-1	Solid	01/10/19 13:25	01/10/19 18:55
720-90698-25	DG-T13S-3.5-4	Solid	01/10/19 13:27	01/10/19 18:55
720-90698-26	DUP-91	Solid	01/10/19 00:00	01/10/19 18:55
720-90698-27	DG-P13S-0.5-1	Solid	01/10/19 13:55	01/10/19 18:55
720-90698-28	DG-P13S-3.5-4	Solid	01/10/19 13:57	01/10/19 18:55
720-90698-29	DUP-90	Solid	01/10/19 00:00	01/10/19 18:55
720-90698-30	DG-N13S-0.5-1	Solid	01/10/19 14:15	01/10/19 18:55
720-90698-31	DG-N13S-3.5-4	Solid	01/10/19 14:17	01/10/19 18:55
720-90698-32	DG-N13S-7.5-8	Solid	01/10/19 14:20	01/10/19 18:55
720-90698-33	DUP-89	Solid	01/10/19 00:00	01/10/19 18:55
720-90698-34	DG-O15S-0.5-1	Solid	01/10/19 15:00	01/10/19 18:55
720-90698-35	DG-O15S-3.5-4	Solid	01/10/19 15:02	01/10/19 18:55
720-90698-36	DG-O15S-7.5-8	Solid	01/10/19 15:05	01/10/19 18:55
720-90698-37	DUP-105	Solid	01/10/19 00:00	01/10/19 18:55

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: B190025
Received: 1/14/2018
Reported: 1/24/2018
Analyst: Mikaela Batta

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-X9S-0.5-1 (720-90698-1)	B0819	No	None Detected	0.00
DG-X9S-3.5-4 (720-90698-2)	B0820	Yes	Chrysotile	<0.25
DG-V9S-0.5-1 (720-90698-3)	B0821	No	None Detected	0.00
DG-V9S-3.5-4 (720-90698-4)	B0822	No	None Detected	0.00
DG-V9S-7.5-8 (720-90698-5)	B0823	No	None Detected	0.00
DG-T9S-0.5-1 (720-90698-6)	B0824	No	None Detected	0.00
DG-T9S-3.5-4 (720-90698-7)	B0825	No	None Detected	0.00
DG-N9S-0.5-1 (720-90698-10)	B0826	Yes	Chrysotile	<0.25
DG-N9S-3.5-4 (720-90698-11)	B0827	No	None Detected	0.00
DG-O11S-0.5-1 (720-90698-12)	B0828	No	None Detected	0.00
DG-O11S-3.5-4 (720-90698-13)	B0829	No	None Detected	0.00
DG-Q11S-0.5-1 (720-90698-14)	B0830	No	None Detected	0.00
DG-Q11S-3.5.4 (720-90698-15)	B0831	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

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Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DUP-74 (720-90698-16)	B0832	No	None Detected	0.00
DG-S11S-0.5-1 (720-90698-17)	B0833	Yes	Chrysotile	<0.25
DG-S11S-3.5-4 (720-90698-18)	B0834	No	None Detected	0.00
DG-U11S-0.5-1 (720-90698-19)	B0835	Yes	Chrysotile	<0.25
DG-U11SS-3.5-4(720-90698-20)	B0836	No	None Detected	0.00
DG-V13S-0.5-1 (720-90698-21)	B0837	No	None Detected	0.00
DG-V13S-3.5-4 (720-90698-22)	B0838	No	None Detected	0.00
DG-V13S-7.5-8 (720-90698-23)	B0839	No	None Detected	0.00
DG-T13S-0.5-1 (720-90698-24)	B0840	No	None Detected	0.00
DG-T13S-3.5-4 (720-90698-25)	B0841	No	None Detected	0.00
DUP-91 (720-90698-26)	B0842	No	None Detected	0.00
DG-P13S-0.5-1 (720-90698-27)	B0843	No	None Detected	0.00
DG-P13S-3.5-4 (720-90698-28)	B0844	No	None Detected	0.00
DUP-90 (720-90698-29)	B0845	No	None Detected	0.00
DG-N13S-0.5-1 (720-90698-30)	B0846	No	None Detected	0.00
DG-N13S-3.5-4 (720-90698-31)	B0847	No	None Detected	0.00
DG-N13S-7.5-8 (720-90698-32)	B0848	No	None Detected	0.00
DUP-89 (720-90698-33)	B0849	No	None Detected	0.00
DG-O15S-0.5-1 (720-90698-34)	B0850	No	None Detected	0.00
DG-O15S-3.5-4 (720-90698-35)	B0851	No	None Detected	0.00
DG-O15S-7.5-8 (720-90698-36)	B0852	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

DUP-105 (720-90698-37)	B0853	No	None Detected	0.00

REVIEWED BY:_____

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

(35) B0819 - B0853

T190025

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40774.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/24/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-X9S-0.5-1 (720-90698-1)	1/10/19	07:30 Pacific		Solid			X	1	
DG-X9S-3.5-4 (720-90698-2)	1/10/19	07:32 Pacific		Solid			X	1	
DG-V9S-0.5-1 (720-90698-3)	1/10/19	08:10 Pacific		Solid			X	1	
DG-V9S-3.5-4 (720-90698-4)	1/10/19	08:12 Pacific		Solid			X	1	
DG-V9S-7.5-8 (720-90698-5)	1/10/19	08:15 Pacific		Solid			X	1	
DG-T9S-0.5-1 (720-90698-6)	1/10/19	09:00 Pacific		Solid			X	1	
DG-T9S-3.5-4 (720-90698-7)	1/10/19	09:02 Pacific		Solid			X	1	eurofins | CEI Accept Samples
DG-N9S-0.5-1 (720-90698-10)	1/10/19	09:30 Pacific		Solid			X	1	CT
DG-N9S-3.5-4 (720-90698-11)	1/10/19	09:32 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/11/19 1416	TAALS		1/14 9:10	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40774.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/24/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-X9S-0.5-1 (720-90698-1)	1/10/19	07:30 Pacific		Solid			X	1	
DG-X9S-3.5-4 (720-90698-2)	1/10/19	07:32 Pacific		Solid			X	1	
DG-V9S-0.5-1 (720-90698-3)	1/10/19	08:10 Pacific		Solid			X	1	
DG-V9S-3.5-4 (720-90698-4)	1/10/19	08:12 Pacific		Solid			X	1	
DG-V9S-7.5-8 (720-90698-5)	1/10/19	08:15 Pacific		Solid			X	1	
DG-T9S-0.5-1 (720-90698-6)	1/10/19	09:00 Pacific		Solid			X	1	
DG-T9S-3.5-4 (720-90698-7)	1/10/19	09:02 Pacific		Solid			X	1	
DG-N9S-0.5-1 (720-90698-10)	1/10/19	09:30 Pacific		Solid			X	1	
DG-N9S-3.5-4 (720-90698-11)	1/10/19	09:32 Pacific		Solid			X	1	

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Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/11/19 1416	Company TAALS	Received by:	Date/Time: 1/14 9:10	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40774.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/24/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-O11S-0.5-1 (720-90698-12)	1/10/19	10:00 Pacific		Solid			X	1	
DG-O11S-3.5-4 (720-90698-13)	1/10/19	10:02 Pacific		Solid			X	1	
DG-Q11S-0.5-1 (720-90698-14)	1/10/19	10:25 Pacific		Solid			X	1	
DG-Q11S-3.5-4 (720-90698-15)	1/10/19	10:27 Pacific		Solid			X	1	
DUP-74 (720-90698-16)	1/10/19	Pacific		Solid			X	1	
DG-S11S-0.5-1 (720-90698-17)	1/10/19	10:50 Pacific		Solid			X	1	
DG-S11S-3.5-4 (720-90698-18)	1/10/19	10:52 Pacific		Solid			X	1	
DG-U11S-0.5-1 (720-90698-19)	1/10/19	11:20 Pacific		Solid			X	1	
DG-U11S-3.5-4 (720-90698-20)	1/10/19	11:22 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/11/19 1716	TAPCS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

B1900 25

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40774.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/24/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-N13S-0.5-1 (720-90698-30)	1/10/19	14:15 Pacific		Solid			X	1	
DG-N13S-3.5-4 (720-90698-31)	1/10/19	14:17 Pacific		Solid			X	1	
DG-N13S-7.5-8 (720-90698-32)	1/10/19	14:20 Pacific		Solid			X	1	
DUP-89 (720-90698-33)	1/10/19	Pacific		Solid			X	1	
DG-O15S-0.5-1 (720-90698-34)	1/10/19	15:00 Pacific		Solid			X	1	
DG-O15S-3.5-4 (720-90698-35)	1/10/19	15:02 Pacific		Solid			X	1	
DG-O15S-7.5-8 (720-90698-36)	1/10/19	15:05 Pacific		Solid			X	1	
DUP-105 (720-90698-37)	1/10/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/11/19 1417	Company TAPS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40774.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/24/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-V13S-0.5-1 (720-90698-21)	1/10/19	12:50 Pacific		Solid			X	1	
DG-V13S-3.5-4 (720-90698-22)	1/10/19	12:52 Pacific		Solid			X	1	
DG-V13S-7.5-8 (720-90698-23)	1/10/19	12:55 Pacific		Solid			X	1	
DG-T13S-0.5-1 (720-90698-24)	1/10/19	13:25 Pacific		Solid			X	1	
DG-T13S-3.5-4 (720-90698-25)	1/10/19	13:27 Pacific		Solid			X	1	
DUP-91 (720-90698-26)	1/10/19	Pacific		Solid			X	1	
DG-P13S-0.5-1 (720-90698-27)	1/10/19	13:55 Pacific		Solid			X	1	
DG-P13S-3.5-4 (720-90698-28)	1/10/19	13:57 Pacific		Solid			X	1	
DUP-90 (720-90698-29)	1/10/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/11/19 1417	TAPIS			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40774.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 1/24/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-N13S-0.5-1 (720-90698-30)	1/10/19	14:15 Pacific		Solid			X	1	
DG-N13S-3.5-4 (720-90698-31)	1/10/19	14:17 Pacific		Solid			X	1	
DG-N13S-7.5-8 (720-90698-32)	1/10/19	14:20 Pacific		Solid			X	1	
DUP-89 (720-90698-33)	1/10/19	Pacific		Solid			X	1	
DG-O15S-0.5-1 (720-90698-34)	1/10/19	15:00 Pacific		Solid			X	1	
DG-O15S-3.5-4 (720-90698-35)	1/10/19	15:02 Pacific		Solid			X	1	
DG-O15S-7.5-8 (720-90698-36)	1/10/19	15:05 Pacific		Solid			X	1	
DUP-105 (720-90698-37)	1/10/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/11/19 1417	TAPS			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#16755
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90698 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-X9S-0.5-1	1-10-19	0730	G	S	7	N		X	X	X	X	X	X	X	
2	DG-X9S-3.5-4		0732													
3	~~FB-1-10-19~~					2			X							ML
4	DG-V9S-0.5-1		0810			7										
5	DG-V9S-3.5-4		0812			10	Y									
6	DG-V9S-7.5-8		0815			7										
7	DG-T9S-0.5-1		0900													
8	DG-T9S-3.5-4		0902													
9	DGP9S-0.5-1		0915			4			X							
10	DGP9S-3.5-4		0917			4			X							
11	DGN9S-0.5-1		0930			7										
	DGN9S-3.5-4		0932			7										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

4.5°C, 0.5°C, 0.4°C, 1.6°C, 0.2°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____		Therm ID No.: ____	
Relinquished by	Company GeoSyntec	Date/Time 1-10-19 1693	Received by	Company TA PLS	Date/Time 1-10-19 16:03	
Relinquished by	Company TA PLS	Date/Time 1-10-19 1816	Received by	Company	Date/Time	
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-10-19 18:55	

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

720-90698

Chain of Custody Record

TestAmerica

#187755

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
12	DG-011S-0.5-1	1-10-19	1000	G	S	7	N		X	X	X	X	X	X	X	
13	DG-011S-3.5-4		1002													
14	DG-Q11S-0.5-1		1025													
15	DG-Q11S-3.5-4		1027													
16	DUP-74		—													
17	DG-S11S-0.5-1		1050													
18	DG-S11S-3.5-4		1052													
19	DG-U11S-0.5-1		1120													
20	DG-U11S-3.5-4		1122													
21	DG-V13S-0.5-1		1250													
22	DG-V13S-3.5-4		1252													
23	DG-V13S-7.5-8		1255							J						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company GEOSYNTEC	Date/Time 1-10-19 1600	Received by	Company TA PLS	Date/Time 1-10-19 16:03
Relinquished by	Company TA PLS	Date/Time 1-10-19 1855	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18735
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
24	DG-T13S 0.5-1	1-10-19	1325	G	S	7	N		X	X	X	X	X	X	X	
25	DG T13 S 3.5-4		1327			10		Y								
26	Dup-91		—			7										
27	DG-P13S 0.5-1		1355													
28	DG-P13 S 3.5-4		1357													
29	Dup-90		—													
30	DG-N13S 0.5-1		1415													
31	DG-N 13S 3.5-4		1417			10		Y								
32	DG-N 13S 7.5-8		1420			7										
33	Dup-89		—			7										
34	DG-0159 0.5-1		1500			10		Y								
35	DG-0159 3.5-4		1502			7										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by	Company GEOSYNTEC	Date/Time 1-10-19 1603	Received by	Company TA PLS	Date/Time 1-10-19 16:03
Relinquished by	Company TA PLS	Date/Time 1-10-19 18:55	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187755
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
36 DG-0155 7.5-8	1-10-19	1505	G	S	7	N		X	X	X	X	X	X	X	
37 DP-105	↓	—	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company GSC&Yahoo	Date/Time 1-10-19 1603	Received by	Company TA PLS	Date/Time 1-10-19 16:03
Relinquished by	Company TA PLS	Date/Time 1-10-19 8:55	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

GEOSYNTEC
(THVR.) TERRA CORES
720-90698

720-90698-02 Chain of Custody

Ref:	Date: 10Jan19	SHIPPING:	0.00
Dep:	Wgt: 40.00 LBS	SPECIAL:	0.00
		HANDLING:	0.00
	DV: 100.00	TOTAL:	0.00

Svcs: PRIORITY OVERNIGHT

TRCK: 4786 4574 1098

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC04

FedEx Express Package(s) - Dropped Off
478645741098

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 10, 2019 4:54:55 PM

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#16755
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahntas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90698 Chain of Custody

1/10/19

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
1	DG-X9S-0.5-1	1-10-19	0730	G	S	7	N		X	X	X	X	X	X	X	
2	DG-X9S-3.5-4	✓	0732	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	
3	~~FB-1-10-19~~					2			X							MK
4	DG-V9S-0.5-1		0810			7										
5	DG-V9S-3.5-4		0812			10	Y									
6	DG-V9S-7.5-8		0815			7										
7	DG-T9S-0.5-1		0900													
8	DG-T9S-3.5-4		0902			✓			✓	✓	✓	✓	✓	✓	✓	
9	DG-P9S-0.5-1		0915			4			X							
10	DG-P9S-3.5-4		0917			4			X							
11	DG-N9S-0.5-1		0930			7										
	DG-N9S-3.5-4	✓	0932	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	

Encores or Terracores Frozen
Date: 1/11/19 Time: 10:40 Initials: SS

720-90698 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

4.5c, 0.5c 0.4c, 1.6c, 0.2c

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____
Relinquished by:	Company: GeoSyntec	Date/Time: 1-10-19 1600	Received by:	Company: TA PLS	Date/Time: 1-10-19 16:03
Relinquished by:	Company: TA PLS	Date/Time: 1-10-19 18:55	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2813.0 JR94

TA-IRV 1/11/19 9:30am

CS/ tracking # 4786 4574 1098

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187755
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahriles@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No..
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
12	DG-011S-0.5-1	1-10-19	1000	G	S	7	N		X	X	X	X	X	X	X	
13	DG-011S-3.5-4		1002													
14	DG-011S-0.5-1		1025													
15	DG-011S-3.5-4		1027													
16	DUP-74		—													
17	DG-S11S-0.5-1		1050													
18	DG-S11S-3.5-4		1052													
19	DG-U11S-0.5-1		1120													
20	DG-U11S-3.5-4		1122													
21	DG-V13S-0.5-1		1250													
22	DG-V13S-3.5-4		1252													
23	DG-V13S-7.5-8		1255								J					

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: GEOSYNTEC	Date/Time: 1-10-19 1600	Received by:	Company: TA PLS	Date/Time: 1-10-19 16:07
Relinquished by:	Company: TA PLS	Date/Time: 1-10-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

28/3.0 IR94

~~AD~~ TA-IRV 1/11/19 9.30

CS| tracking# 4786 4574 1098

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18735
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
24	DG-T13S 0.5-1	1-10-19	1325	G	S	7	N		X	X	X	X	X	X	X	
25	DG T13S 3.5-4		1327			10		Y								
26	Dup-91		—			7										
27	DG-P13S 0.5-1		1355													
28	DG-P13S 3.5-4		1357													
29	Dup-90		—													
30	DG-N13S 0.5-1		1415													
31	DG-N13S 3.5-4		1417			10		Y								
32	DG-N13S 7.5-8		1420			7										
33	Dup-89		—			7										
34	DG-O15S 0.5-1		1500			10		Y								
35	DG-O15S 3.5-4		1502			7										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____	
Relinquished by:	Company: GEOSYNTEC	Date/Time: 1-10-19 1603	Received by:	Company: TA PLS	Date/Time: 1-10-19 16:03	
Relinquished by:	Company: TA PLS	Date/Time: 1-10-19 15:50	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-10-19 18:55	

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2.8|3.0 IK94

TA-IRV 1/11/19 9:30

CS tracking # 4786 4574 1098

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

#187755

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
tchen@geosyntec.com, mkahnies@geosyntec.com, lsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
36 DG-0155 7.5-8	1-10-19	1505	G	S	7	N		X	X	X	X	X	X	X	
37 DP-105	↓	—	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GSC & Yahoo	Date/Time: 1-10-19 16:03	Received by:	Company: TA PLS	Date/Time: 1-10-19 16:03
Relinquished by:	Company: TA PLS	Date/Time: 1-10-19 8:55	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-10-19 18:55

2.8/3.0 IR94

TA-IRV 1/11/19 9:30

CS Tracking # 4786 4574 1098

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 417866 41575 12872	COC No: 720-40773.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_CL/5035A_F_FW 8260 (MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-X9S-0.5-1 (720-90698-1)	1/10/19	07:30 Pacific		Solid			X	X	X	1	
DG-X9S-3.5-4 (720-90698-2)	1/10/19	07:32 Pacific		Solid			X	X	X	1	
DG-V9S-0.5-1 (720-90698-3)	1/10/19	08:10 Pacific		Solid			X	X	X	1	
DG-V9S-3.5-4 (720-90698-4)	1/10/19	08:12 Pacific		Solid			X	X	X	1	
DG-V9S-3.5-4 (720-90698-4MS)	1/10/19	08:12 Pacific	MS	Solid			X	X	X	1	
DG-V9S-3.5-4 (720-90698-4MSD)	1/10/19	08:12 Pacific	MSD	Solid			X	X	X	1	
DG-V9S-7.5-8 (720-90698-5)	1/10/19	08:15 Pacific		Solid			X	X	X	1	
DG-T9S-0.5-1 (720-90698-6)	1/10/19	09:00 Pacific		Solid			X	X	X	1	
DG-T9S-3.5-4 (720-90698-7)	1/10/19	09:02 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1/11/19 1331	TAPS			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by: Olga Pinekes	Date/Time 1/12/19 1120	Company TAIRU

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.3/2.8 IR-93

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4575 1282	COC No: 720-40773 2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_1115035A_F_FW_8260-(MOD)_VOCs + OXO	8260BICA_LUFTMS/5035A_F_FW_8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-P9S-0.5-1 (720-90698-8)	1/10/19	09:15 Pacific		Solid			X	X		3	
DG-P9S-3.5-4 (720-90698-9)	1/10/19	09:17 Pacific		Solid			X	X		3	
DG-N9S-0.5-1 (720-90698-10)	1/10/19	09:30 Pacific		Solid			X	X	X	6	
DG-N9S-3.5-4 (720-90698-11)	1/10/19	09:32 Pacific		Solid			X	X	X	6	
DG-O11S-0.5-1 (720-90698-12)	1/10/19	10.00 Pacific		Solid			X	X	X	6	
DG-O11S-3.5-4 (720-90698-13)	1/10/19	10:02 Pacific		Solid			X	X	X	6	
DG-Q11S-0.5-1 (720-90698-14)	1/10/19	10.25 Pacific		Solid			X	X	X	6	
DG-Q11S-3 5-4 (720-90698-15)	1/10/19	10:27 Pacific		Solid			X	X	X	6	
DUP-74 (720-90698-16)	1/10/19	Pacific		Solid			X	X	X	6	

Note. Since laboratory accreditations are subject to change, TestAmenca Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:
Relinquished by	Date/Time: 1/11/19 1331	Company TAPS	Received by / Date/Time / Company
Relinquished by	Date/Time:	Company	Received by / Date/Time / Company
Relinquished by	Date/Time:	Company	Received by: Olga Arnelas Date/Time: 1/12/19 1120 Company TAPS
Custody Seals Intact. ☑ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4575 1286	COC No: 720-40773.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B-LL/5035A_F_FW 8260-(MOD)_VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260_C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-S11S-0.5-1 (720-90698-17)	1/10/19	10:50 Pacific		Solid			X	X	X	5	
DG-S11S-3.5-4 (720-90698-18)	1/10/19	10:52 Pacific		Solid			X	X	X	5	
DG-U11S-0.5-1 (720-90698-19)	1/10/19	11:20 Pacific		Solid			X	X	X	5	
DG-U11S-3.5-4 (720-90698-20)	1/10/19	11:22 Pacific		Solid			X	X	X	5	
DG-V13S-0.5-1 (720-90698-21)	1/10/19	12:50 Pacific		Solid			X	X	X	5	
DG-V13S-3.5-4 (720-90698-22)	1/10/19	12.52 Pacific		Solid			X	X	X	5	
DG-V13S-7.5-8 (720-90698-23)	1/10/19	12:55 Pacific		Solid			X	X	X	5	
DG-T13S-0.5-1 (720-90698-24)	1/10/19	13:25 Pacific		Solid			X	X	X	5	
DG-T13S-3.5-4 (720-90698-25)	1/10/19	13:27 Pacific		Solid			X	X	X	4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time: 1/11/19 1331	Company: TAPCS	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by: Olga Cinches	Date/Time: 1/12/19 11:20	Company: TAPCS

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40773.4
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL_5035A_F_FW 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-T13S-3.5-4 (720-90698-25MS)	1/10/19	13:27 Pacific	MS	Solid			X	X	X	3	
DG-T13S-3.5-4 (720-90698-25MSD)	1/10/19	13:27 Pacific	MSD	Solid			X	X	X	3	
DUP-91 (720-90698-26)	1/10/19	Pacific		Solid			X	X	X	5	
DG-P13S-0.5-1 (720-90698-27)	1/10/19	13:55 Pacific		Solid			X	X	X	5	
DG-P13S-3.5-4 (720-90698-28)	1/10/19	13:57 Pacific		Solid			X	X	X	5	
DUP-90 (720-90698-29)	1/10/19	Pacific		Solid			X	X	X	5	
DG-N13S-0.5-1 (720-90698-30)	1/10/19	14:15 Pacific		Solid			X	X	X	5	
DG-N13S-3.5-4 (720-90698-31)	1/10/19	14:17 Pacific		Solid			X	X	X	4	
DG-N13S-3 5-4 (720-90698-31MS)	1/10/19	14 17 Pacific	MS	Solid			X	X	X	3	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment			
Relinquished by:	Date/Time: 1/11/19 1331	Company: TAOPS	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by: Olga Oneles	Date/Time: 1/12/19 11:20	Company: TA PLC

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40773.5
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 5 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-CA_312 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-N13S-3.5-4 (720-90698-31MSD)	1/10/19	14:17 Pacific	MSD	Solid			X	X	X	3	
DG-N13S-7.5-8 (720-90698-32)	1/10/19	14:20 Pacific		Solid			X	X	X	3	
DUP-89 (720-90698-33)	1/10/19	Pacific		Solid			X	X	X	3	
DG-O15S-0.5-1 (720-90698-34)	1/10/19	15:00 Pacific		Solid			X	X	X	3	
DG-O15S-0.5-1 (720-90698-34MS)	1/10/19	15:00 Pacific	MS	Solid			X	X	X	3	
DG-O15S-0.5-1 (720-90698-34MSD)	1/10/19	15:00 Pacific	MSD	Solid			X	X	X	3	
DG-O15S-3.5-4 (720-90698-35)	1/10/19	15:02 Pacific		Solid			X	X	X	3	
DG-O15S-7.5-8 (720-90698-36)	1/10/19	15:05 Pacific		Solid			X	X	X	3	
DUP-105 (720-90698-37)	1/10/19	Pacific		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/11/19 1331	Company: TAPS	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by: Olga Ornelas	Date/Time: 1/12/19 1120	Company: TAPS

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90698-1

Login Number: 90698
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90698-1

Login Number: 90698
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/11/19 05:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Sunday, January 13, 2019 8:34 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ-TestAmerica sample confirmation files from 720-90698-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Yes, please use the times listed on the COCs for the sample times. The rest of the login looks good.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Friday, January 11, 2019 11:01 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ-TestAmerica sample confirmation files from 720-90698-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90698-1; Brisbane OU-2 Data Gap Investigation

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#12) DG-O11S-0.5-1. The 8oz container labels list time 10:02, while the COC lists time 10:00. Logged time by COC time.
(#13) DG-O11S-3.5-4. The 8oz container labels list time 10:00, while the COC lists time 10:02. Logged time by COC time.

Please confirm the correct sampling time.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [494533]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90699-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/29/2019 9:17:28 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90699-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90699-1

Comments
See client email for analysis on sample DUP-44.

Receipt
The samples were received on 1/10/2019 6:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.2º C, 0.4º C, 0.5º C, 1.6º C and 4.5º C.

Receipt Exceptions

Sample ID: DUP-44: Received extra containers for 8270, CAM-17-7199 and 8015. Logged additional containers for those tests on hold.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-522336 and analytical batch 440-522567. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 3005A and 7470A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: DG-N5W (720-90699-2). The sample(s) was preserved to the appropriate pH in the laboratory. Added 1 ml of HNO3 at 11:21 1/11/19. ref: 258362

Method 6010B: The method blank for preparation batch 720-258443 and analytical batch 720-258610 contained Arsenic and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258610 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a “^” symbol.

Method 6010B: The method blank for preparation batch 720-258527 and analytical batch 720-258635 contained Barium and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258635 was outside control limits Barium-25%: (720-90699-B-9-D SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-522336. LCS was performed in duplicate to provide precision of data. 80105B_DRO

Job ID: 720-90699-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-522263 and 440-522263. 8270C-SIM-PAH. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Client Sample ID: DG-P5W — Lab Sample ID: 720-90699-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	37	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Arsenic	56	B	10	2.9	ug/L	1		6010B	Dissolved
Barium	180		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.81	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.6	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	5.4	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	10		10	2.9	ug/L	1		6010B	Dissolved
Thallium	8.1	J	10	3.5	ug/L	1		6010B	Dissolved

Client Sample ID: DG-N5W — Lab Sample ID: 720-90699-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J	20	10	ug/L	1		8260B	Total/NA
Naphthalene	0.45	J	1.0	0.40	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	0.41	J	1.0	0.40	ug/L	1		8260B	Total/NA
Naphthalene	0.11	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.21		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.26		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Chrysene	0.24		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.24		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.35		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.16	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.20	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.19	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.46		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.46		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	140	J	500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	140	J	500	100	ug/L	1		8015B	Total/NA
Antimony	4.4	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	63	B	10	2.9	ug/L	1		6010B	Dissolved
Barium	220		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.56	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	0.78	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	3.2		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	13	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	19		10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.8	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.1	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	20		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-O7W — Lab Sample ID: 720-90699-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	40	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Acetone	15	J	20	10	ug/L	1		8260B	Total/NA
Fluoranthene	0.10	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.12	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1200		530	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1100		530	110	ug/L	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O7W (Continued) — Lab Sample ID: 720-90699-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	75		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.9	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.0	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	3.8	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	3.7	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.1	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	9.6	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	1.2	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-Q7W — Lab Sample ID: 720-90699-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.29	J	0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	150	J	490	98	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160	J	490	98	ug/L	1		8015B	Total/NA
Arsenic	7.4	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	980		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.1	J	10	0.70	ug/L	1		6010B	Dissolved
Lead	3.2	J	5.0	2.2	ug/L	1		6010B	Dissolved
Thallium	4.4	J ^	10	3.5	ug/L	1		6010B	Dissolved
Zinc	27		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-S7W — Lab Sample ID: 720-90699-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	20	10	ug/L	1		8260B	Total/NA
Arsenic	8.4	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	660		50	1.6	ug/L	1		6010B	Dissolved
Copper	4.6	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	12		10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.5	J	10	1.0	ug/L	1		6010B	Dissolved

Client Sample ID: DG-U7W — Lab Sample ID: 720-90699-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	38	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Arsenic	17	B	10	2.9	ug/L	1		6010B	Dissolved
Barium	1000		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.73	J	10	0.70	ug/L	1		6010B	Dissolved
Molybdenum	4.0	J	10	2.9	ug/L	1		6010B	Dissolved

Client Sample ID: FB-01.10.19 — Lab Sample ID: 720-90699-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	43	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Acetone	23		20	10	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Client Sample ID: TB-01.10.19 — Lab Sample ID: 720-90699-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	35	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: DUP-44 — Lab Sample ID: 720-90699-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	39	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	0.29	J	0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	130	J	500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110	J	500	100	ug/L	1		8015B	Total/NA
Arsenic	4.0	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	1000	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.0	J	10	0.70	ug/L	1		6010B	Dissolved
Molybdenum	2.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.1	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	28	B	20	7.4	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P5W
Date Collected: 01/10/19 13:05
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	37	J	50	35	ug/L			01/21/19 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*01/21/19 22:32*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*01/21/19 22:32*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*01/21/19 22:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Acetone	ND		20	10	ug/L			01/21/19 22:32	1
Benzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Bromobenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Bromoform	ND		1.0	0.40	ug/L			01/21/19 22:32	1
Bromomethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/21/19 22:32	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/21/19 22:32	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/21/19 22:32	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Chloroethane	ND		1.0	0.40	ug/L			01/21/19 22:32	1
Chloroform	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Chloromethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/21/19 22:32	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Dibromomethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/21/19 22:32	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/21/19 22:32	1

Client Sample ID: DG-P5W
Date Collected: 01/10/19 13:05
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/21/19 22:32	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/21/19 22:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/21/19 22:32	1
Naphthalene	ND		1.0	0.40	ug/L			01/21/19 22:32	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Styrene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Toluene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/21/19 22:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/21/19 22:32	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Trichloroethene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/21/19 22:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/21/19 22:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/21/19 22:32	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/21/19 22:32	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/21/19 22:32	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/21/19 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*01/21/19 22:32*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*01/21/19 22:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Acenaphthene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Acenaphthylene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Fluorene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Phenanthrene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Anthracene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Benzo[a]anthracene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Chrysene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Benzo[a]pyrene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Benzo[b]fluoranthene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Benzo[k]fluoranthene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Benzo[g,h,i]perylene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Fluoranthene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Pyrene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1
Dibenz(a,h)anthracene	ND		0.20	0.098	ug/L		01/14/19 10:36	01/17/19 13:55	1

Client Sample ID: DG-P5W

Date Collected: 01/10/19 13:05
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*111*		*38 - 120*	*01/14/19 10:36*	*01/17/19 13:55*	*1*
Nitrobenzene-d5	*68*		*10 - 120*	*01/14/19 10:36*	*01/17/19 13:55*	*1*
Terphenyl-d14	*108*		*21 - 120*	*01/14/19 10:36*	*01/17/19 13:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		490	99	ug/L		01/14/19 15:10	01/15/19 15:38	1
Motor Oil Range Organics [C24-C36]	ND		490	99	ug/L		01/14/19 15:10	01/15/19 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*01/14/19 15:10*	*01/15/19 15:38*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 20:15	1
Arsenic	**56**	**B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:15	1
Barium	**180**		50	1.6	ug/L		01/14/19 10:32	01/15/19 20:15	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 20:15	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 20:15	1
Chromium	**0.81**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 20:15	1
Cobalt	**1.6**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/15/19 20:15	1
Copper	**5.4**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 20:15	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 20:15	1
Molybdenum	**10**		10	2.9	ug/L		01/14/19 10:32	01/15/19 20:15	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/15/19 20:15	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 20:15	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 20:15	1
Thallium	**8.1**	**J**	10	3.5	ug/L		01/14/19 10:32	01/15/19 20:15	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 20:15	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 20:15	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/10/19 21:27	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Client Sample ID: DG-N5W
Date Collected: 01/10/19 13:40
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/21/19 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*01/21/19 23:55*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*01/21/19 23:55*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/21/19 23:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Acetone	**16**	**J**	20	10	ug/L			01/21/19 23:55	1
Benzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Bromobenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Bromoform	ND		1.0	0.40	ug/L			01/21/19 23:55	1
Bromomethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/21/19 23:55	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/21/19 23:55	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/21/19 23:55	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Chloroethane	ND		1.0	0.40	ug/L			01/21/19 23:55	1
Chloroform	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Chloromethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/21/19 23:55	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Dibromomethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/21/19 23:55	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/21/19 23:55	1

Client Sample ID: DG-N5W
Date Collected: 01/10/19 13:40
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/21/19 23:55	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/21/19 23:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/21/19 23:55	1
Naphthalene	**0.45**	**J**	1.0	0.40	ug/L			01/21/19 23:55	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Styrene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Toluene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,2,3-Trichlorobenzene	**0.41**	**J**	1.0	0.40	ug/L			01/21/19 23:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/21/19 23:55	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Trichloroethene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/21/19 23:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/21/19 23:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/21/19 23:55	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/21/19 23:55	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/21/19 23:55	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/21/19 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*01/21/19 23:55*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/21/19 23:55*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.11**	**J**	0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Acenaphthene	ND		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Fluorene	ND		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Phenanthrene	**0.21**		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Anthracene	ND		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Benzo[a]anthracene	**0.26**		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Chrysene	**0.24**		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Benzo[a]pyrene	**0.24**		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Benzo[b]fluoranthene	**0.35**		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Benzo[k]fluoranthene	**0.16**	**J**	0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Benzo[g,h,i]perylene	**0.20**	**J**	0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Indeno[1,2,3-cd]pyrene	**0.19**	**J**	0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Fluoranthene	**0.46**		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Pyrene	**0.46**		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/14/19 10:36	01/16/19 12:15	1

Client Sample ID: DG-N5W

Date Collected: 01/10/19 13:40
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*38 - 120*	*01/14/19 10:36*	*01/16/19 12:15*	*1*
Nitrobenzene-d5	*60*		*10 - 120*	*01/14/19 10:36*	*01/16/19 12:15*	*1*
Terphenyl-d14	*60*		*21 - 120*	*01/14/19 10:36*	*01/16/19 12:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**	**J**	500	100	ug/L		01/14/19 15:10	01/15/19 15:59	1
Motor Oil Range Organics [C24-C36]	**140**	**J**	500	100	ug/L		01/14/19 15:10	01/15/19 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*60*		*45 - 120*	*01/14/19 15:10*	*01/15/19 15:59*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.4**	**J**	10	4.1	ug/L		01/14/19 10:32	01/15/19 20:20	1
Arsenic	**63**	**B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:20	1
Barium	**220**		50	1.6	ug/L		01/14/19 10:32	01/15/19 20:20	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 20:20	1
Cadmium	**0.56**	**J**	2.0	0.21	ug/L		01/14/19 10:32	01/15/19 20:20	1
Chromium	**0.78**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 20:20	1
Cobalt	**3.2**		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 20:20	1
Copper	**13**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 20:20	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 20:20	1
Molybdenum	**19**		10	2.9	ug/L		01/14/19 10:32	01/15/19 20:20	1
Nickel	**2.8**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 20:20	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 20:20	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 20:20	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 20:20	1
Vanadium	**1.1**	**J**	10	0.87	ug/L		01/14/19 10:32	01/15/19 20:20	1
Zinc	**20**		20	7.4	ug/L		01/14/19 10:32	01/15/19 20:20	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/10/19 21:27	1

Client Sample ID: DG-O7W
Date Collected: 01/10/19 14:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	40	J	50	35	ug/L			01/22/19 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*01/22/19 00:23*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*01/22/19 00:23*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/22/19 00:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Acetone	15	J	20	10	ug/L			01/22/19 00:23	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 00:23	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 00:23	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 00:23	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 00:23	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 00:23	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 00:23	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 00:23	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 00:23	1

Client Sample ID: DG-O7W

Date Collected: 01/10/19 14:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 00:23	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 00:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 00:23	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 00:23	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 00:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 00:23	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 00:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 00:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 00:23	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 00:23	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 00:23	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*01/22/19 00:23*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/22/19 00:23*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Acenaphthene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Fluorene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Phenanthrene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Anthracene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Chrysene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Fluoranthene	**0.10**	**J**	0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Pyrene	**0.12**	**J**	0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/14/19 10:36	01/17/19 14:19	1

Client Sample ID: DG-O7W

Date Collected: 01/10/19 14:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*97*		*38 - 120*	*01/14/19 10:36*	*01/17/19 14:19*	*1*
Nitrobenzene-d5	*65*		*10 - 120*	*01/14/19 10:36*	*01/17/19 14:19*	*1*
Terphenyl-d14	*71*		*21 - 120*	*01/14/19 10:36*	*01/17/19 14:19*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1200**		530	110	ug/L		01/14/19 15:10	01/15/19 16:21	1
Motor Oil Range Organics [C24-C36]	**1100**		530	110	ug/L		01/14/19 15:10	01/15/19 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*63*		*45 - 120*	*01/14/19 15:10*	*01/15/19 16:21*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 20:25	1
Arsenic	**9.0**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:25	1
Barium	**75**		50	1.6	ug/L		01/14/19 10:32	01/15/19 20:25	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 20:25	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 20:25	1
Chromium	**1.9**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 20:25	1
Cobalt	**1.0**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/15/19 20:25	1
Copper	**3.8**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 20:25	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 20:25	1
Molybdenum	**3.7**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:25	1
Nickel	**1.1**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 20:25	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 20:25	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 20:25	1
Thallium	**9.6**	**J**	10	3.5	ug/L		01/14/19 10:32	01/15/19 20:25	1
Vanadium	**1.2**	**J**	10	0.87	ug/L		01/14/19 10:32	01/15/19 20:25	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 20:25	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/10/19 21:27	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Client Sample ID: DG-Q7W
Date Collected: 01/10/19 14:45
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/22/19 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*01/22/19 00:50*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*01/22/19 00:50*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/22/19 00:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Acetone	ND		20	10	ug/L			01/22/19 00:50	1
Benzene	**0.29**	**J**	0.50	0.25	ug/L			01/22/19 00:50	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 00:50	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 00:50	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 00:50	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 00:50	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 00:50	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 00:50	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 00:50	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 00:50	1

Client Sample ID: DG-Q7W
Date Collected: 01/10/19 14:45
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 00:50	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 00:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 00:50	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 00:50	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 00:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 00:50	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 00:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 00:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 00:50	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 00:50	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 00:50	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*01/22/19 00:50*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/22/19 00:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Acenaphthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Fluorene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Phenanthrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Anthracene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Chrysene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Pyrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/17/19 14:43	1

Client Sample ID: DG-Q7W

Date Collected: 01/10/19 14:45
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*96*		*38 - 120*	*01/14/19 10:36*	*01/17/19 14:43*	*1*
Nitrobenzene-d5	*63*		*10 - 120*	*01/14/19 10:36*	*01/17/19 14:43*	*1*
Terphenyl-d14	*65*		*21 - 120*	*01/14/19 10:36*	*01/17/19 14:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**	**J**	490	98	ug/L		01/14/19 15:10	01/15/19 16:43	1
Motor Oil Range Organics [C24-C36]	**160**	**J**	490	98	ug/L		01/14/19 15:10	01/15/19 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*01/14/19 15:10*	*01/15/19 16:43*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 20:39	1
Arsenic	**7.4**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:39	1
Barium	**980**		50	1.6	ug/L		01/14/19 10:32	01/15/19 20:39	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 20:39	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 20:39	1
Chromium	**1.1**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 20:39	1
Cobalt	ND		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 20:39	1
Copper	ND		20	3.7	ug/L		01/14/19 10:32	01/15/19 20:39	1
Lead	**3.2**	**J**	5.0	2.2	ug/L		01/14/19 10:32	01/15/19 20:39	1
Molybdenum	ND		10	2.9	ug/L		01/14/19 10:32	01/15/19 20:39	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/15/19 20:39	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 20:39	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 20:39	1
Thallium	**4.4**	**J ^**	10	3.5	ug/L		01/14/19 10:32	01/15/19 20:39	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 20:39	1
Zinc	**27**		20	7.4	ug/L		01/14/19 10:32	01/15/19 20:39	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/10/19 21:27	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Client Sample ID: DG-S7W
Date Collected: 01/10/19 15:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/22/19 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*01/22/19 01:18*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/22/19 01:18*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/22/19 01:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Acetone	**11**	**J**	20	10	ug/L			01/22/19 01:18	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 01:18	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 01:18	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 01:18	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 01:18	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 01:18	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 01:18	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 01:18	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 01:18	1

Client Sample ID: DG-S7W
Date Collected: 01/10/19 15:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 01:18	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 01:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 01:18	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 01:18	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 01:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 01:18	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 01:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 01:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 01:18	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 01:18	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 01:18	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*01/22/19 01:18*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/22/19 01:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Acenaphthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Fluorene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Phenanthrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Anthracene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Chrysene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Pyrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 13:28	1

Client Sample ID: DG-S7W

Date Collected: 01/10/19 15:15
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*38 - 120*	*01/14/19 10:36*	*01/16/19 13:28*	*1*
Nitrobenzene-d5	*69*		*10 - 120*	*01/14/19 10:36*	*01/16/19 13:28*	*1*
Terphenyl-d14	*73*		*21 - 120*	*01/14/19 10:36*	*01/16/19 13:28*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		490	98	ug/L		01/14/19 15:10	01/15/19 17:04	1
Motor Oil Range Organics [C24-C36]	ND		490	98	ug/L		01/14/19 15:10	01/15/19 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*01/14/19 15:10*	*01/15/19 17:04*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 20:44	1
Arsenic	**8.4**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:44	1
Barium	**660**		50	1.6	ug/L		01/14/19 10:32	01/15/19 20:44	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 20:44	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 20:44	1
Chromium	ND		10	0.70	ug/L		01/14/19 10:32	01/15/19 20:44	1
Cobalt	ND		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 20:44	1
Copper	**4.6**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 20:44	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 20:44	1
Molybdenum	**12**		10	2.9	ug/L		01/14/19 10:32	01/15/19 20:44	1
Nickel	**1.5**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 20:44	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 20:44	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 20:44	1
Thallium	ND	^	10	3.5	ug/L		01/14/19 10:32	01/15/19 20:44	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 20:44	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 20:44	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/10/19 21:27	1

Client Sample ID: DG-U7W

Date Collected: 01/10/19 15:35
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-6

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	38	J	50	35	ug/L			01/22/19 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*01/22/19 01:46*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*01/22/19 01:46*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/22/19 01:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Acetone	ND		20	10	ug/L			01/22/19 01:46	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 01:46	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 01:46	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 01:46	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 01:46	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 01:46	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 01:46	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 01:46	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 01:46	1

Client Sample ID: DG-U7W
Date Collected: 01/10/19 15:35
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 01:46	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 01:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 01:46	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 01:46	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 01:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 01:46	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 01:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 01:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 01:46	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 01:46	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 01:46	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*01/22/19 01:46*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/22/19 01:46*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Acenaphthene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Acenaphthylene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Fluorene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Phenanthrene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Anthracene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Chrysene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Fluoranthene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Pyrene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		01/14/19 10:36	01/16/19 13:52	1

Client Sample ID: DG-U7W

Date Collected: 01/10/19 15:35
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*38 - 120*	*01/14/19 10:36*	*01/16/19 13:52*	*1*
Nitrobenzene-d5	*60*		*10 - 120*	*01/14/19 10:36*	*01/16/19 13:52*	*1*
Terphenyl-d14	*78*		*21 - 120*	*01/14/19 10:36*	*01/16/19 13:52*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/14/19 15:10	01/15/19 18:53	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/14/19 15:10	01/15/19 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*73*		*45 - 120*	*01/14/19 15:10*	*01/15/19 18:53*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 20:49	1
Arsenic	**17**	**B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:49	1
Barium	**1000**		50	1.6	ug/L		01/14/19 10:32	01/15/19 20:49	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 20:49	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 20:49	1
Chromium	**0.73**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 20:49	1
Cobalt	ND		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 20:49	1
Copper	ND		20	3.7	ug/L		01/14/19 10:32	01/15/19 20:49	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 20:49	1
Molybdenum	**4.0**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:49	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/15/19 20:49	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 20:49	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 20:49	1
Thallium	ND	^	10	3.5	ug/L		01/14/19 10:32	01/15/19 20:49	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 20:49	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 20:49	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/10/19 21:59	1

Client Sample ID: FB-01.10.19
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	43	J	50	35	ug/L			01/22/19 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*01/22/19 02:13*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*01/22/19 02:13*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/22/19 02:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Acetone	23		20	10	ug/L			01/22/19 02:13	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 02:13	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 02:13	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 02:13	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 02:13	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 02:13	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 02:13	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 02:13	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 02:13	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Client Sample ID: FB-01.10.19
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 02:13	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 02:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 02:13	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 02:13	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 02:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 02:13	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 02:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 02:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 02:13	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 02:13	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 02:13	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*		*01/22/19 02:13*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/22/19 02:13*	*1*

Client Sample ID: TB-01.10.19
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-8
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	35	J	50	35	ug/L			01/22/19 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*01/22/19 02:41*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/22/19 02:41*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/22/19 02:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Acetone	ND		20	10	ug/L			01/22/19 02:41	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 02:41	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 02:41	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 02:41	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 02:41	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 02:41	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 02:41	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 02:41	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 02:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Client Sample ID: TB-01.10.19
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 02:41	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 02:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 02:41	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 02:41	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 02:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 02:41	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 02:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 02:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 02:41	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 02:41	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 02:41	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*01/22/19 02:41*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/22/19 02:41*	*1*

Client Sample ID: DUP-44

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-9

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**39**	**J**	50	35	ug/L			01/22/19 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*01/22/19 03:09*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*01/22/19 03:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/22/19 03:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Acetone	ND		20	10	ug/L			01/22/19 03:09	1
Benzene	**0.29**	**J**	0.50	0.25	ug/L			01/22/19 03:09	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 03:09	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 03:09	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 03:09	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 03:09	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 03:09	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 03:09	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 03:09	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 03:09	1

Client Sample ID: DUP-44
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 03:09	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 03:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 03:09	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 03:09	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 03:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 03:09	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 03:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 03:09	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 03:09	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 03:09	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*01/22/19 03:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/22/19 03:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Acenaphthene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Fluorene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Phenanthrene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Anthracene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Chrysene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Pyrene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/14/19 10:53	01/17/19 15:08	1

Client Sample ID: DUP-44

Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-9

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	101		38 - 120	01/14/19 10:53	01/17/19 15:08	1
Nitrobenzene-d5	61		10 - 120	01/14/19 10:53	01/17/19 15:08	1
Terphenyl-d14	80		21 - 120	01/14/19 10:53	01/17/19 15:08	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**	**J**	500	100	ug/L		01/14/19 15:10	01/15/19 19:15	1
Motor Oil Range Organics [C24-C36]	**110**	**J**	500	100	ug/L		01/14/19 15:10	01/15/19 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	68		45 - 120	01/14/19 15:10	01/15/19 19:15	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/15/19 09:04	01/16/19 10:19	1
Arsenic	**4.0**	**J**	10	2.9	ug/L		01/15/19 09:04	01/16/19 10:19	1
Barium	**1000**	**B**	50	1.6	ug/L		01/15/19 09:04	01/16/19 10:19	1
Beryllium	ND		2.0	0.59	ug/L		01/15/19 09:04	01/16/19 10:19	1
Cadmium	ND		2.0	0.21	ug/L		01/15/19 09:04	01/16/19 10:19	1
Chromium	**1.0**	**J**	10	0.70	ug/L		01/15/19 09:04	01/16/19 10:19	1
Cobalt	ND		2.0	0.68	ug/L		01/15/19 09:04	01/16/19 10:19	1
Copper	ND		20	3.7	ug/L		01/15/19 09:04	01/16/19 10:19	1
Lead	ND		5.0	2.2	ug/L		01/15/19 09:04	01/16/19 10:19	1
Molybdenum	**2.9**	**J**	10	2.9	ug/L		01/15/19 09:04	01/16/19 10:19	1
Nickel	**1.1**	**J**	10	1.0	ug/L		01/15/19 09:04	01/16/19 10:19	1
Selenium	ND		20	4.6	ug/L		01/15/19 09:04	01/16/19 10:19	1
Silver	ND		5.0	2.0	ug/L		01/15/19 09:04	01/16/19 10:19	1
Thallium	ND		10	3.5	ug/L		01/15/19 09:04	01/16/19 10:19	1
Vanadium	ND		10	0.87	ug/L		01/15/19 09:04	01/16/19 10:19	1
Zinc	**28**	**B**	20	7.4	ug/L		01/15/19 09:04	01/16/19 10:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/10/19 21:59	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	
Lab Sample ID	Client Sample ID	(70-130)	(80-128)	
720-90699-1	DG-P5W	116	105	
720-90699-1 MS	DG-P5W	110	105	
720-90699-1 MSD	DG-P5W	116	100	
720-90699-2	DG-N5W	122	104	
720-90699-3	DG-O7W	122	102	
720-90699-4	DG-Q7W	122	102	
720-90699-5	DG-S7W	120	103	
720-90699-6	DG-U7W	122	103	
720-90699-7	FB-01.10.19	124	101	
720-90699-8	TB-01.10.19	118	100	
720-90699-9	DUP-44	120	102	
LCS 440-523879/5	Lab Control Sample	115	102	
MB 440-523879/4	Method Blank	124	103	

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	BFB	TOL	
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)	
720-90699-1	DG-P5W	107	108	105	
720-90699-1 MS	DG-P5W	108	105	105	
720-90699-1 MSD	DG-P5W	110	110	100	
720-90699-2	DG-N5W	109	112	104	
720-90699-3	DG-O7W	110	112	102	
720-90699-4	DG-Q7W	112	109	102	
720-90699-5	DG-S7W	109	106	103	
720-90699-6	DG-U7W	111	111	103	
720-90699-7	FB-01.10.19	116	104	101	
720-90699-8	TB-01.10.19	111	106	100	
720-90699-9	DUP-44	117	109	102	
LCS 440-523880/6	Lab Control Sample	107	114	104	
MB 440-523880/4	Method Blank	109	109	103	

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-90699-1	DG-P5W	111	68	108

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-90699-2	DG-N5W	83	60	60
720-90699-3	DG-O7W	97	65	71
720-90699-4	DG-Q7W	96	63	65
720-90699-5	DG-S7W	94	69	73
720-90699-6	DG-U7W	90	60	78
720-90699-9	DUP-44	101	61	80
LCS 440-522263/2-A	Lab Control Sample	96	75	103
LCSD 440-522263/3-A	Lab Control Sample Dup	107	79	107
MB 440-522263/1-A	Method Blank	91	72	105

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-90699-1	DG-P5W	70
720-90699-2	DG-N5W	60
720-90699-3	DG-O7W	63
720-90699-4	DG-Q7W	69
720-90699-5	DG-S7W	70
720-90699-6	DG-U7W	73
720-90699-9	DUP-44	68
LCS 440-522336/2-A	Lab Control Sample	63
LCSD 440-522336/3-A	Lab Control Sample Dup	63
MB 440-522336/1-A	Method Blank	70

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-523879/4
Matrix: Water
Analysis Batch: 523879

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Acetone	ND		20	10	ug/L			01/21/19 20:48	1
Benzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Bromobenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Bromoform	ND		1.0	0.40	ug/L			01/21/19 20:48	1
Bromomethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/21/19 20:48	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/21/19 20:48	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/21/19 20:48	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Chloroethane	ND		1.0	0.40	ug/L			01/21/19 20:48	1
Chloroform	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Chloromethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/21/19 20:48	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Dibromomethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/21/19 20:48	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
2-Hexanone	ND		5.0	2.5	ug/L			01/21/19 20:48	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/21/19 20:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/21/19 20:48	1
Naphthalene	ND		1.0	0.40	ug/L			01/21/19 20:48	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Styrene	ND		0.50	0.25	ug/L			01/21/19 20:48	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523879/4
Matrix: Water
Analysis Batch: 523879

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Toluene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/21/19 20:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/21/19 20:48	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Trichloroethene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/21/19 20:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/21/19 20:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/21/19 20:48	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/21/19 20:48	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/21/19 20:48	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/21/19 20:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*		*01/21/19 20:48*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/21/19 20:48*	*1*

Lab Sample ID: LCS 440-523879/5
Matrix: Water
Analysis Batch: 523879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	28.5		ug/L		114	63 - 131
Acetone	25.0	29.1		ug/L		116	10 - 150
Benzene	25.0	26.2		ug/L		105	68 - 130
Dichlorobromomethane	25.0	26.9		ug/L		107	70 - 132
Bromobenzene	25.0	26.4		ug/L		106	70 - 130
Chlorobromomethane	25.0	27.1		ug/L		109	70 - 130
Bromoform	25.0	26.7		ug/L		107	60 - 148
Bromomethane	25.0	23.3		ug/L		93	64 - 139
2-Butanone (MEK)	25.0	28.4		ug/L		114	44 - 150
n-Butylbenzene	25.0	29.4		ug/L		118	65 - 150
sec-Butylbenzene	25.0	28.6		ug/L		114	70 - 138
tert-Butylbenzene	25.0	28.4		ug/L		113	70 - 130
Carbon disulfide	25.0	23.9		ug/L		96	52 - 136
Carbon tetrachloride	25.0	27.2		ug/L		109	60 - 150
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130
Chloroethane	25.0	23.0		ug/L		92	64 - 135
Chloroform	25.0	28.9		ug/L		116	70 - 130
Chloromethane	25.0	19.1		ug/L		77	47 - 140
2-Chlorotoluene	25.0	28.3		ug/L		113	70 - 130
4-Chlorotoluene	25.0	28.1		ug/L		112	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523879/5
Matrix: Water
Analysis Batch: 523879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	26.9		ug/L		108	69 - 145
1,2-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	27.4		ug/L		110	70 - 130
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	33.1		ug/L		132	52 - 140
Ethylene Dibromide	25.0	26.5		ug/L		106	70 - 130
Dibromomethane	25.0	26.2		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	16.4		ug/L		66	29 - 150
1,1-Dichloroethane	25.0	27.3		ug/L		109	64 - 130
1,2-Dichloroethane	25.0	27.3		ug/L		109	57 - 138
1,1-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 133
trans-1,2-Dichloroethene	25.0	27.5		ug/L		110	70 - 130
1,2-Dichloropropane	25.0	27.3		ug/L		109	67 - 130
cis-1,3-Dichloropropene	25.0	28.9		ug/L		116	70 - 133
trans-1,3-Dichloropropene	25.0	29.8		ug/L		119	70 - 132
Ethylbenzene	25.0	26.9		ug/L		108	70 - 130
Hexachlorobutadiene	25.0	27.1		ug/L		108	10 - 150
2-Hexanone	25.0	27.3		ug/L		109	10 - 150
Isopropylbenzene	25.0	27.7		ug/L		111	70 - 136
4-Isopropyltoluene	25.0	27.5		ug/L		110	70 - 132
Methylene Chloride	25.0	27.0		ug/L		108	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	27.7		ug/L		111	59 - 149
Naphthalene	25.0	25.9		ug/L		103	60 - 140
N-Propylbenzene	25.0	28.7		ug/L		115	67 - 139
Styrene	25.0	26.1		ug/L		104	70 - 134
1,1,1,2-Tetrachloroethane	25.0	26.0		ug/L		104	60 - 141
1,1,2,2-Tetrachloroethane	25.0	28.2		ug/L		113	63 - 130
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130
Toluene	25.0	26.9		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	60 - 140
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	70 - 130
1,1,2-Trichloroethane	25.0	28.0		ug/L		112	70 - 130
Trichloroethene	25.0	25.1		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	24.0		ug/L		96	60 - 150
1,2,3-Trichloropropane	25.0	28.4		ug/L		113	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.6		ug/L		110	60 - 140
1,2,4-Trimethylbenzene	25.0	27.8		ug/L		111	70 - 135
1,3,5-Trimethylbenzene	25.0	28.3		ug/L		113	70 - 136
Vinyl acetate	25.0	29.6		ug/L		118	48 - 140
Vinyl chloride	25.0	19.5		ug/L		78	59 - 133
m-Xylene & p-Xylene	25.0	27.1		ug/L		108	70 - 130
o-Xylene	25.0	27.4		ug/L		110	70 - 130
2,2-Dichloropropane	25.0	27.2		ug/L		109	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523879/5
Matrix: Water
Analysis Batch: 523879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 720-90699-1 MS
Matrix: Water
Analysis Batch: 523879

Client Sample ID: DG-P5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	27.1		ug/L		108	70 - 130
Acetone	ND		25.0	31.9		ug/L		128	10 - 150
Benzene	ND		25.0	25.0		ug/L		100	66 - 130
Dichlorobromomethane	ND		25.0	26.3		ug/L		105	70 - 138
Bromobenzene	ND		25.0	25.0		ug/L		100	70 - 130
Chlorobromomethane	ND		25.0	26.3		ug/L		105	70 - 130
Bromoform	ND		25.0	27.9		ug/L		111	59 - 150
Bromomethane	ND		25.0	20.9		ug/L		84	62 - 131
2-Butanone (MEK)	ND		25.0	28.3		ug/L		113	48 - 140
n-Butylbenzene	ND		25.0	28.7		ug/L		115	61 - 149
sec-Butylbenzene	ND		25.0	27.4		ug/L		110	67 - 134
tert-Butylbenzene	ND		25.0	27.4		ug/L		110	70 - 130
Carbon disulfide	ND		25.0	22.6		ug/L		91	49 - 140
Carbon tetrachloride	ND		25.0	26.1		ug/L		105	60 - 150
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130
Chloroethane	ND		25.0	21.0		ug/L		84	68 - 130
Chloroform	ND		25.0	28.0		ug/L		112	70 - 130
Chloromethane	ND		25.0	16.2		ug/L		65	39 - 144
2-Chlorotoluene	ND		25.0	27.2		ug/L		109	70 - 130
4-Chlorotoluene	ND		25.0	27.4		ug/L		110	70 - 130
Chlorodibromomethane	ND		25.0	26.9		ug/L		108	70 - 148
1,2-Dichlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130
1,3-Dichloropropane	ND		25.0	27.7		ug/L		111	70 - 130
1,1-Dichloropropene	ND		25.0	24.8		ug/L		99	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	31.0		ug/L		124	48 - 140
Ethylene Dibromide	ND		25.0	26.8		ug/L		107	70 - 131
Dibromomethane	ND		25.0	25.3		ug/L		101	70 - 130
Dichlorodifluoromethane	ND		25.0	13.8		ug/L		55	25 - 142
1,1-Dichloroethane	ND		25.0	26.0		ug/L		104	65 - 130
1,2-Dichloroethane	ND		25.0	26.5		ug/L		106	56 - 146
1,1-Dichloroethene	ND		25.0	24.8		ug/L		99	70 - 130
cis-1,2-Dichloroethene	ND		25.0	23.6		ug/L		94	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	70 - 130
1,2-Dichloropropane	ND		25.0	26.4		ug/L		105	69 - 130
cis-1,3-Dichloropropene	ND		25.0	29.9		ug/L		120	70 - 133
trans-1,3-Dichloropropene	ND		25.0	30.0		ug/L		120	70 - 138
Ethylbenzene	ND		25.0	27.0		ug/L		108	70 - 130
Hexachlorobutadiene	ND		25.0	26.9		ug/L		108	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90699-1 MS
Matrix: Water
Analysis Batch: 523879

Client Sample ID: DG-P5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	28.5		ug/L		114	10 - 150
Isopropylbenzene	ND		25.0	28.0		ug/L		112	70 - 132
4-Isopropyltoluene	ND		25.0	27.0		ug/L		108	70 - 130
Methylene Chloride	ND		25.0	25.2		ug/L		101	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	28.3		ug/L		113	52 - 150
Naphthalene	ND		25.0	25.0		ug/L		100	60 - 140
N-Propylbenzene	ND		25.0	27.7		ug/L		111	66 - 135
Styrene	ND		25.0	25.3		ug/L		101	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	27.0		ug/L		108	63 - 130
Tetrachloroethene	ND		25.0	26.3		ug/L		105	70 - 137
Toluene	ND		25.0	26.4		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	25.9		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.6		ug/L		102	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	ND		25.0	27.9		ug/L		111	70 - 130
Trichloroethene	ND		25.0	23.6		ug/L		95	70 - 130
Trichlorofluoromethane	ND		25.0	21.9		ug/L		88	60 - 150
1,2,3-Trichloropropane	ND		25.0	26.4		ug/L		106	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.4		ug/L		106	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	26.4		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.4		ug/L		110	70 - 130
Vinyl acetate	ND		25.0	28.6		ug/L		115	23 - 150
Vinyl chloride	ND		25.0	17.0		ug/L		68	50 - 137
m-Xylene & p-Xylene	ND		25.0	27.3		ug/L		109	70 - 133
o-Xylene	ND		25.0	27.4		ug/L		110	70 - 133
2,2-Dichloropropane	ND		25.0	28.2		ug/L		113	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*105*		*80 - 128*

Lab Sample ID: 720-90699-1 MSD
Matrix: Water
Analysis Batch: 523879

Client Sample ID: DG-P5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	28.7		ug/L		115	70 - 130	6	25
Acetone	ND		25.0	33.6		ug/L		134	10 - 150	5	35
Benzene	ND		25.0	25.4		ug/L		101	66 - 130	1	20
Dichlorobromomethane	ND		25.0	26.6		ug/L		106	70 - 138	1	20
Bromobenzene	ND		25.0	25.3		ug/L		101	70 - 130	1	20
Chlorobromomethane	ND		25.0	27.3		ug/L		109	70 - 130	3	25
Bromoform	ND		25.0	26.4		ug/L		106	59 - 150	5	25
Bromomethane	ND		25.0	21.7		ug/L		87	62 - 131	4	25
2-Butanone (MEK)	ND		25.0	30.3		ug/L		121	48 - 140	7	40
n-Butylbenzene	ND		25.0	27.9		ug/L		112	61 - 149	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90699-1 MSD
Matrix: Water
Analysis Batch: 523879

Client Sample ID: DG-P5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	27.7		ug/L		111	67 - 134	1	20
tert-Butylbenzene	ND		25.0	27.6		ug/L		110	70 - 130	1	20
Carbon disulfide	ND		25.0	22.6		ug/L		91	49 - 140	0	20
Carbon tetrachloride	ND		25.0	26.1		ug/L		104	60 - 150	0	25
Chlorobenzene	ND		25.0	24.1		ug/L		97	70 - 130	6	20
Chloroethane	ND		25.0	21.5		ug/L		86	68 - 130	3	25
Chloroform	ND		25.0	28.1		ug/L		112	70 - 130	0	20
Chloromethane	ND		25.0	16.4		ug/L		66	39 - 144	1	25
2-Chlorotoluene	ND		25.0	27.2		ug/L		109	70 - 130	0	20
4-Chlorotoluene	ND		25.0	27.2		ug/L		109	70 - 130	1	20
Chlorodibromomethane	ND		25.0	26.1		ug/L		105	70 - 148	3	25
1,2-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	24.9		ug/L		99	70 - 130	2	20
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		98	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	26.7		ug/L		107	70 - 130	4	25
1,1-Dichloropropene	ND		25.0	25.5		ug/L		102	64 - 130	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	31.0		ug/L		124	48 - 140	0	30
Ethylene Dibromide	ND		25.0	25.7		ug/L		103	70 - 131	4	25
Dibromomethane	ND		25.0	26.4		ug/L		105	70 - 130	4	25
Dichlorodifluoromethane	ND		25.0	13.5		ug/L		54	25 - 142	2	30
1,1-Dichloroethane	ND		25.0	26.8		ug/L		107	65 - 130	3	20
1,2-Dichloroethane	ND		25.0	27.5		ug/L		110	56 - 146	4	20
1,1-Dichloroethene	ND		25.0	26.4		ug/L		106	70 - 130	6	20
cis-1,2-Dichloroethene	ND		25.0	24.4		ug/L		97	70 - 130	3	20
trans-1,2-Dichloroethene	ND		25.0	26.7		ug/L		107	70 - 130	3	20
1,2-Dichloropropane	ND		25.0	26.4		ug/L		106	69 - 130	0	20
cis-1,3-Dichloropropene	ND		25.0	28.6		ug/L		115	70 - 133	4	20
trans-1,3-Dichloropropene	ND		25.0	28.7		ug/L		115	70 - 138	5	25
Ethylbenzene	ND		25.0	26.2		ug/L		105	70 - 130	3	20
Hexachlorobutadiene	ND		25.0	26.1		ug/L		104	10 - 150	3	20
2-Hexanone	ND		25.0	28.4		ug/L		114	10 - 150	1	35
Isopropylbenzene	ND		25.0	26.8		ug/L		107	70 - 132	4	20
4-Isopropyltoluene	ND		25.0	26.4		ug/L		106	70 - 130	2	20
Methylene Chloride	ND		25.0	26.5		ug/L		106	52 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	27.2		ug/L		109	52 - 150	4	35
Naphthalene	ND		25.0	25.0		ug/L		100	60 - 140	0	30
N-Propylbenzene	ND		25.0	27.5		ug/L		110	66 - 135	1	20
Styrene	ND		25.0	24.5		ug/L		98	29 - 150	3	35
1,1,1,2-Tetrachloroethane	ND		25.0	25.3		ug/L		101	60 - 149	8	20
1,1,2,2-Tetrachloroethane	ND		25.0	27.1		ug/L		109	63 - 130	0	30
Tetrachloroethene	ND		25.0	24.4		ug/L		98	70 - 137	7	20
Toluene	ND		25.0	25.6		ug/L		102	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		25.0	25.2		ug/L		101	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	24.9		ug/L		100	60 - 140	3	20
1,1,1-Trichloroethane	ND		25.0	26.6		ug/L		106	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	26.8		ug/L		107	70 - 130	4	25
Trichloroethene	ND		25.0	24.6		ug/L		98	70 - 130	4	20
Trichlorofluoromethane	ND		25.0	22.2		ug/L		89	60 - 150	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90699-1 MSD
Matrix: Water
Analysis Batch: 523879

Client Sample ID: DG-P5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	26.3		ug/L		105	60 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.9		ug/L		104	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		25.0	26.5		ug/L		106	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		25.0	27.2		ug/L		109	70 - 130	1	20
Vinyl acetate	ND		25.0	29.3		ug/L		117	23 - 150	2	30
Vinyl chloride	ND		25.0	17.2		ug/L		69	50 - 137	1	30
m-Xylene & p-Xylene	ND		25.0	26.1		ug/L		104	70 - 133	5	25
o-Xylene	ND		25.0	26.2		ug/L		105	70 - 133	5	20
2,2-Dichloropropane	ND		25.0	28.2		ug/L		113	69 - 138	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-523880/4
Matrix: Water
Analysis Batch: 523880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/21/19 20:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*01/21/19 20:48*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*01/21/19 20:48*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/21/19 20:48*	*1*

Lab Sample ID: LCS 440-523880/6
Matrix: Water
Analysis Batch: 523880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	438		ug/L		88	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*76 - 132*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90699-1 MS
Matrix: Water
Analysis Batch: 523880

Client Sample ID: DG-P5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	37	J	1730	1610		ug/L		91	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 128*

Lab Sample ID: 720-90699-1 MSD
Matrix: Water
Analysis Batch: 523880

Client Sample ID: DG-P5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	37	J	1730	1650		ug/L		93	50 - 145	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-522263/1-A
Matrix: Water
Analysis Batch: 522718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Acenaphthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Fluorene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Phenanthrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Anthracene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Chrysene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Fluoranthene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Pyrene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/14/19 10:36	01/16/19 07:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*38 - 120*	*01/14/19 10:36*	*01/16/19 07:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-522263/1-A
Matrix: Water
Analysis Batch: 522718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522263

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		10 - 120	01/14/19 10:36	01/16/19 07:21	1
Terphenyl-d14	105		21 - 120	01/14/19 10:36	01/16/19 07:21	1

Lab Sample ID: LCS 440-522263/2-A
Matrix: Water
Analysis Batch: 522718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.777		ug/L		78	50 - 120
Acenaphthene	1.00	0.921		ug/L		92	55 - 120
Acenaphthylene	1.00	0.960		ug/L		96	53 - 120
Fluorene	1.00	0.975		ug/L		98	56 - 120
Phenanthrene	1.00	0.951		ug/L		95	56 - 120
Anthracene	1.00	0.885		ug/L		88	54 - 120
Benzo[a]anthracene	1.00	0.888		ug/L		89	53 - 120
Chrysene	1.00	0.888		ug/L		89	56 - 120
Benzo[a]pyrene	1.00	0.876		ug/L		88	44 - 120
Benzo[b]fluoranthene	1.00	0.882		ug/L		88	48 - 120
Benzo[k]fluoranthene	1.00	0.904		ug/L		90	47 - 121
Benzo[g,h,i]perylene	1.00	0.919		ug/L		92	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.891		ug/L		89	38 - 120
Fluoranthene	1.00	0.977		ug/L		98	59 - 120
Pyrene	1.00	0.942		ug/L		94	59 - 120
Dibenz(a,h)anthracene	1.00	0.924		ug/L		92	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	96		38 - 120
Nitrobenzene-d5	75		10 - 120
Terphenyl-d14	103		21 - 120

Lab Sample ID: LCSD 440-522263/3-A
Matrix: Water
Analysis Batch: 522718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 522263

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.885		ug/L		89	50 - 120	13	35
Acenaphthene	1.00	0.970		ug/L		97	55 - 120	5	35
Acenaphthylene	1.00	1.02		ug/L		102	53 - 120	7	35
Fluorene	1.00	1.01		ug/L		101	56 - 120	3	35
Phenanthrene	1.00	0.995		ug/L		100	56 - 120	5	35
Anthracene	1.00	0.941		ug/L		94	54 - 120	6	35
Benzo[a]anthracene	1.00	0.959		ug/L		96	53 - 120	8	35
Chrysene	1.00	0.918		ug/L		92	56 - 120	3	35
Benzo[a]pyrene	1.00	0.965		ug/L		96	44 - 120	10	35
Benzo[b]fluoranthene	1.00	0.963		ug/L		96	48 - 120	9	35
Benzo[k]fluoranthene	1.00	0.952		ug/L		95	47 - 121	5	35
Benzo[g,h,i]perylene	1.00	0.975		ug/L		98	41 - 123	6	35
Indeno[1,2,3-cd]pyrene	1.00	0.960		ug/L		96	38 - 120	7	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-522263/3-A
Matrix: Water
Analysis Batch: 522718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 522263

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene			1.00	1.06		ug/L		106	59 - 120	8	35
Pyrene			1.00	1.02		ug/L		102	59 - 120	8	35
Dibenz(a,h)anthracene			1.00	0.985		ug/L		98	38 - 122	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*107*		*38 - 120*
Nitrobenzene-d5	*79*		*10 - 120*
Terphenyl-d14	*107*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-522336/1-A
Matrix: Water
Analysis Batch: 522567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/14/19 15:10	01/15/19 15:17	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/14/19 15:10	01/15/19 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*01/14/19 15:10*	*01/15/19 15:17*	*1*

Lab Sample ID: LCS 440-522336/2-A
Matrix: Water
Analysis Batch: 522567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522336

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			1000	583		ug/L		58	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*63*		*45 - 120*

Lab Sample ID: LCSD 440-522336/3-A
Matrix: Water
Analysis Batch: 522567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 522336

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	551		ug/L		55	40 - 115	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*63*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258443/1-A
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 19:03	1
Arsenic	3.66	J	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:03	1
Barium	ND		50	1.6	ug/L		01/14/19 10:32	01/15/19 19:03	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 19:03	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 19:03	1
Chromium	ND		10	0.70	ug/L		01/14/19 10:32	01/15/19 19:03	1
Cobalt	ND		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 19:03	1
Copper	ND		20	3.7	ug/L		01/14/19 10:32	01/15/19 19:03	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 19:03	1
Molybdenum	ND		10	2.9	ug/L		01/14/19 10:32	01/15/19 19:03	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/15/19 19:03	1
Selenium	4.84	J	20	4.6	ug/L		01/14/19 10:32	01/15/19 19:03	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 19:03	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 19:03	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 19:03	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 19:03	1

Lab Sample ID: LCS 720-258443/2-A
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	952		ug/L		95	80 - 120
Arsenic	1000	951		ug/L		95	80 - 120
Barium	1000	938		ug/L		94	80 - 120
Beryllium	1000	920		ug/L		92	80 - 120
Cadmium	1000	955		ug/L		95	80 - 120
Chromium	1000	940		ug/L		94	80 - 120
Cobalt	1000	961		ug/L		96	80 - 120
Copper	1000	952		ug/L		95	80 - 120
Lead	1000	969		ug/L		97	80 - 120
Molybdenum	1000	951		ug/L		95	80 - 120
Nickel	1000	961		ug/L		96	80 - 120
Selenium	1000	962		ug/L		96	80 - 120
Silver	500	432		ug/L		86	80 - 120
Thallium	1000	868		ug/L		87	80 - 120
Vanadium	1000	934		ug/L		93	80 - 120
Zinc	1000	952		ug/L		95	80 - 120

Lab Sample ID: MB 720-258527/1-A
Matrix: Water
Analysis Batch: 258635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/15/19 09:04	01/16/19 09:51	1
Arsenic	ND		10	2.9	ug/L		01/15/19 09:04	01/16/19 09:51	1
Barium	1.65	J	50	1.6	ug/L		01/15/19 09:04	01/16/19 09:51	1
Beryllium	ND		2.0	0.59	ug/L		01/15/19 09:04	01/16/19 09:51	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-258527/1-A
Matrix: Water
Analysis Batch: 258635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		2.0	0.21	ug/L		01/15/19 09:04	01/16/19 09:51	1
Chromium	ND		10	0.70	ug/L		01/15/19 09:04	01/16/19 09:51	1
Cobalt	ND		2.0	0.68	ug/L		01/15/19 09:04	01/16/19 09:51	1
Copper	ND		20	3.7	ug/L		01/15/19 09:04	01/16/19 09:51	1
Lead	ND		5.0	2.2	ug/L		01/15/19 09:04	01/16/19 09:51	1
Molybdenum	ND		10	2.9	ug/L		01/15/19 09:04	01/16/19 09:51	1
Nickel	ND		10	1.0	ug/L		01/15/19 09:04	01/16/19 09:51	1
Selenium	ND		20	4.6	ug/L		01/15/19 09:04	01/16/19 09:51	1
Silver	ND		5.0	2.0	ug/L		01/15/19 09:04	01/16/19 09:51	1
Thallium	ND		10	3.5	ug/L		01/15/19 09:04	01/16/19 09:51	1
Vanadium	ND		10	0.87	ug/L		01/15/19 09:04	01/16/19 09:51	1
Zinc	11.5	J	20	7.4	ug/L		01/15/19 09:04	01/16/19 09:51	1

Lab Sample ID: LCS 720-258527/2-A
Matrix: Water
Analysis Batch: 258635

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	956		ug/L		96	80 - 120
Arsenic	1000	939		ug/L		94	80 - 120
Barium	1000	977		ug/L		98	80 - 120
Beryllium	1000	952		ug/L		95	80 - 120
Cadmium	1000	968		ug/L		97	80 - 120
Chromium	1000	962		ug/L		96	80 - 120
Cobalt	1000	979		ug/L		98	80 - 120
Copper	1000	975		ug/L		98	80 - 120
Lead	1000	973		ug/L		97	80 - 120
Molybdenum	1000	980		ug/L		98	80 - 120
Nickel	1000	959		ug/L		96	80 - 120
Selenium	1000	958		ug/L		96	80 - 120
Silver	500	461		ug/L		92	80 - 120
Thallium	1000	940		ug/L		94	80 - 120
Vanadium	1000	962		ug/L		96	80 - 120
Zinc	1000	959		ug/L		96	80 - 120

Lab Sample ID: 720-90735-H-7-A MS
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 258443

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	6.6	J	1000	945		ug/L		94	75 - 125
Arsenic	3.8	J B	1000	953		ug/L		95	75 - 125
Barium	42	J	1000	966		ug/L		92	75 - 125
Beryllium	ND		1000	914		ug/L		91	75 - 125
Cadmium	ND		1000	922		ug/L		92	75 - 125
Chromium	ND		1000	916		ug/L		92	75 - 125
Cobalt	ND		1000	920		ug/L		92	75 - 125
Copper	5.8	J	1000	931		ug/L		92	75 - 125
Lead	ND		1000	919		ug/L		92	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90735-H-7-A MS
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 258443

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	6.1	J	1000	942		ug/L		94	75 - 125
Nickel	ND		1000	915		ug/L		91	75 - 125
Selenium	ND		1000	946		ug/L		95	75 - 125
Silver	ND		500	437		ug/L		87	75 - 125
Thallium	ND		1000	870		ug/L		87	75 - 125
Vanadium	3.5	J	1000	923		ug/L		92	75 - 125
Zinc	ND		1000	922		ug/L		92	75 - 125

Lab Sample ID: 720-90735-H-7-B MSD
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 258443

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	6.6	J	1000	969		ug/L		96	75 - 125	3	20
Arsenic	3.8	J B	1000	976		ug/L		97	75 - 125	2	20
Barium	42	J	1000	997		ug/L		95	75 - 125	3	20
Beryllium	ND		1000	953		ug/L		95	75 - 125	4	20
Cadmium	ND		1000	939		ug/L		94	75 - 125	2	20
Chromium	ND		1000	934		ug/L		93	75 - 125	2	20
Cobalt	ND		1000	934		ug/L		93	75 - 125	2	20
Copper	5.8	J	1000	933		ug/L		93	75 - 125	0	20
Lead	ND		1000	939		ug/L		94	75 - 125	2	20
Molybdenum	6.1	J	1000	960		ug/L		95	75 - 125	2	20
Nickel	ND		1000	931		ug/L		93	75 - 125	2	20
Selenium	ND		1000	961		ug/L		96	75 - 125	2	20
Silver	ND		500	432		ug/L		86	75 - 125	1	20
Thallium	ND		1000	888		ug/L		89	75 - 125	2	20
Vanadium	3.5	J	1000	945		ug/L		94	75 - 125	2	20
Zinc	ND		1000	944		ug/L		94	75 - 125	2	20

Lab Sample ID: 720-90699-9 MS
Matrix: Water
Analysis Batch: 258635

Client Sample ID: DUP-44
Prep Type: Dissolved
Prep Batch: 258527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	927		ug/L		93	75 - 125
Arsenic	4.0	J	1000	931		ug/L		93	75 - 125
Barium	1000	B	1000	2000		ug/L		96	75 - 125
Beryllium	ND		1000	944		ug/L		94	75 - 125
Cadmium	ND		1000	908		ug/L		91	75 - 125
Chromium	1.0	J	1000	909		ug/L		91	75 - 125
Cobalt	ND		1000	903		ug/L		90	75 - 125
Copper	ND		1000	928		ug/L		93	75 - 125
Lead	ND		1000	885		ug/L		88	75 - 125
Molybdenum	2.9	J	1000	948		ug/L		95	75 - 125
Nickel	1.1	J	1000	882		ug/L		88	75 - 125
Selenium	ND		1000	923		ug/L		92	75 - 125
Silver	ND		500	444		ug/L		89	75 - 125
Thallium	ND		1000	913		ug/L		91	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90699-9 MS
Matrix: Water
Analysis Batch: 258635

Client Sample ID: DUP-44
Prep Type: Dissolved
Prep Batch: 258527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	ND		1000	935		ug/L		94	75 - 125
Zinc	28	B	1000	927		ug/L		90	75 - 125

Lab Sample ID: 720-90699-9 MSD
Matrix: Water
Analysis Batch: 258635

Client Sample ID: DUP-44
Prep Type: Dissolved
Prep Batch: 258527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	963		ug/L		96	75 - 125	4	20
Arsenic	4.0	J	1000	975		ug/L		97	75 - 125	5	20
Barium	1000	B	1000	2000		ug/L		96	75 - 125	0	20
Beryllium	ND		1000	989		ug/L		99	75 - 125	5	20
Cadmium	ND		1000	936		ug/L		94	75 - 125	3	20
Chromium	1.0	J	1000	932		ug/L		93	75 - 125	3	20
Cobalt	ND		1000	924		ug/L		92	75 - 125	2	20
Copper	ND		1000	928		ug/L		93	75 - 125	0	20
Lead	ND		1000	920		ug/L		92	75 - 125	4	20
Molybdenum	2.9	J	1000	967		ug/L		96	75 - 125	2	20
Nickel	1.1	J	1000	917		ug/L		92	75 - 125	4	20
Selenium	ND		1000	965		ug/L		97	75 - 125	4	20
Silver	ND		500	460		ug/L		92	75 - 125	4	20
Thallium	ND		1000	953		ug/L		95	75 - 125	4	20
Vanadium	ND		1000	959		ug/L		96	75 - 125	2	20
Zinc	28	B	1000	962		ug/L		93	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-258498/1-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 12:30	1

Lab Sample ID: LCS 720-258498/2-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.51		ug/L		95	85 - 115

Lab Sample ID: 720-90735-H-7-D MS
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 258498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.89		ug/L		99	75 - 125

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90735-H-7-E MSD
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 258498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.70		ug/L		97	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-258324/9
Matrix: Water
Analysis Batch: 258324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/10/19 21:27	1

Lab Sample ID: LCS 720-258324/10
Matrix: Water
Analysis Batch: 258324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	250		ug/L		100	90 - 110		

Lab Sample ID: LCSD 720-258324/11
Matrix: Water
Analysis Batch: 258324

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	250		ug/L		100	90 - 110	0	20

Lab Sample ID: 720-90699-2 MS
Matrix: Water
Analysis Batch: 258324

Client Sample ID: DG-N5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	250		ug/L		100	85 - 115		

Lab Sample ID: 720-90699-2 MSD
Matrix: Water
Analysis Batch: 258324

Client Sample ID: DG-N5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	251		ug/L		100	85 - 115	0	20

GC/MS VOA

Analysis Batch: 523879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Total/NA	Water	8260B	
720-90699-2	DG-N5W	Total/NA	Water	8260B	
720-90699-3	DG-O7W	Total/NA	Water	8260B	
720-90699-4	DG-Q7W	Total/NA	Water	8260B	
720-90699-5	DG-S7W	Total/NA	Water	8260B	
720-90699-6	DG-U7W	Total/NA	Water	8260B	
720-90699-7	FB-01.10.19	Total/NA	Water	8260B	
720-90699-8	TB-01.10.19	Total/NA	Water	8260B	
720-90699-9	DUP-44	Total/NA	Water	8260B	
MB 440-523879/4	Method Blank	Total/NA	Water	8260B	
LCS 440-523879/5	Lab Control Sample	Total/NA	Water	8260B	
720-90699-1 MS	DG-P5W	Total/NA	Water	8260B	
720-90699-1 MSD	DG-P5W	Total/NA	Water	8260B	

Analysis Batch: 523880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-2	DG-N5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-3	DG-O7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-4	DG-Q7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-5	DG-S7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-6	DG-U7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-7	FB-01.10.19	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-8	TB-01.10.19	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-9	DUP-44	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-523880/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-523880/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-1 MS	DG-P5W	Total/NA	Water	8260B/CA_LUFT MS	
720-90699-1 MSD	DG-P5W	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 522263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Total/NA	Water	3520C	
720-90699-2	DG-N5W	Total/NA	Water	3520C	
720-90699-3	DG-O7W	Total/NA	Water	3520C	
720-90699-4	DG-Q7W	Total/NA	Water	3520C	
720-90699-5	DG-S7W	Total/NA	Water	3520C	
720-90699-6	DG-U7W	Total/NA	Water	3520C	
720-90699-9	DUP-44	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 522263 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-522263/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-522263/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-522263/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 522718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-2	DG-N5W	Total/NA	Water	8270C SIM	522263
720-90699-5	DG-S7W	Total/NA	Water	8270C SIM	522263
720-90699-6	DG-U7W	Total/NA	Water	8270C SIM	522263
MB 440-522263/1-A	Method Blank	Total/NA	Water	8270C SIM	522263
LCS 440-522263/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	522263
LCSD 440-522263/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	522263

Analysis Batch: 523040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Total/NA	Water	8270C SIM	522263
720-90699-3	DG-O7W	Total/NA	Water	8270C SIM	522263
720-90699-4	DG-Q7W	Total/NA	Water	8270C SIM	522263
720-90699-9	DUP-44	Total/NA	Water	8270C SIM	522263

GC Semi VOA

Prep Batch: 522336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Total/NA	Water	3510C	
720-90699-2	DG-N5W	Total/NA	Water	3510C	
720-90699-3	DG-O7W	Total/NA	Water	3510C	
720-90699-4	DG-Q7W	Total/NA	Water	3510C	
720-90699-5	DG-S7W	Total/NA	Water	3510C	
720-90699-6	DG-U7W	Total/NA	Water	3510C	
720-90699-9	DUP-44	Total/NA	Water	3510C	
MB 440-522336/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-522336/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-522336/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 522567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Total/NA	Water	8015B	522336
720-90699-2	DG-N5W	Total/NA	Water	8015B	522336
720-90699-3	DG-O7W	Total/NA	Water	8015B	522336
720-90699-4	DG-Q7W	Total/NA	Water	8015B	522336
720-90699-5	DG-S7W	Total/NA	Water	8015B	522336
720-90699-6	DG-U7W	Total/NA	Water	8015B	522336
720-90699-9	DUP-44	Total/NA	Water	8015B	522336
MB 440-522336/1-A	Method Blank	Total/NA	Water	8015B	522336
LCS 440-522336/2-A	Lab Control Sample	Total/NA	Water	8015B	522336
LCSD 440-522336/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	522336

Metals

Prep Batch: 258443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Dissolved	Water	3005A	
720-90699-2	DG-N5W	Dissolved	Water	3005A	
720-90699-3	DG-O7W	Dissolved	Water	3005A	
720-90699-4	DG-Q7W	Dissolved	Water	3005A	
720-90699-5	DG-S7W	Dissolved	Water	3005A	
720-90699-6	DG-U7W	Dissolved	Water	3005A	
MB 720-258443/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-258443/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90735-H-7-A MS	Matrix Spike	Dissolved	Water	3005A	
720-90735-H-7-B MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 258498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Dissolved	Water	7470A	
720-90699-2	DG-N5W	Dissolved	Water	7470A	
720-90699-3	DG-O7W	Dissolved	Water	7470A	
720-90699-4	DG-Q7W	Dissolved	Water	7470A	
720-90699-5	DG-S7W	Dissolved	Water	7470A	
720-90699-6	DG-U7W	Dissolved	Water	7470A	
720-90699-9	DUP-44	Dissolved	Water	7470A	
MB 720-258498/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-258498/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90735-H-7-D MS	Matrix Spike	Dissolved	Water	7470A	
720-90735-H-7-E MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Prep Batch: 258527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-9	DUP-44	Dissolved	Water	3005A	
MB 720-258527/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-258527/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90699-9 MS	DUP-44	Dissolved	Water	3005A	
720-90699-9 MSD	DUP-44	Dissolved	Water	3005A	

Analysis Batch: 258567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Dissolved	Water	7470A	258498
720-90699-2	DG-N5W	Dissolved	Water	7470A	258498
720-90699-3	DG-O7W	Dissolved	Water	7470A	258498
720-90699-4	DG-Q7W	Dissolved	Water	7470A	258498
720-90699-5	DG-S7W	Dissolved	Water	7470A	258498
720-90699-6	DG-U7W	Dissolved	Water	7470A	258498
720-90699-9	DUP-44	Dissolved	Water	7470A	258498
MB 720-258498/1-A	Method Blank	Total/NA	Water	7470A	258498
LCS 720-258498/2-A	Lab Control Sample	Total/NA	Water	7470A	258498
720-90735-H-7-D MS	Matrix Spike	Dissolved	Water	7470A	258498
720-90735-H-7-E MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	258498

Analysis Batch: 258610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Dissolved	Water	6010B	258443
720-90699-2	DG-N5W	Dissolved	Water	6010B	258443

Metals (Continued)

Analysis Batch: 258610 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-3	DG-O7W	Dissolved	Water	6010B	258443
720-90699-4	DG-Q7W	Dissolved	Water	6010B	258443
720-90699-5	DG-S7W	Dissolved	Water	6010B	258443
720-90699-6	DG-U7W	Dissolved	Water	6010B	258443
MB 720-258443/1-A	Method Blank	Total Recoverable	Water	6010B	258443
LCS 720-258443/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258443
720-90735-H-7-A MS	Matrix Spike	Dissolved	Water	6010B	258443
720-90735-H-7-B MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	258443

Analysis Batch: 258635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-9	DUP-44	Dissolved	Water	6010B	258527
MB 720-258527/1-A	Method Blank	Total Recoverable	Water	6010B	258527
LCS 720-258527/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258527
720-90699-9 MS	DUP-44	Dissolved	Water	6010B	258527
720-90699-9 MSD	DUP-44	Dissolved	Water	6010B	258527

General Chemistry

Analysis Batch: 258324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90699-1	DG-P5W	Total/NA	Water	7196A	
720-90699-2	DG-N5W	Total/NA	Water	7196A	
720-90699-3	DG-O7W	Total/NA	Water	7196A	
720-90699-4	DG-Q7W	Total/NA	Water	7196A	
720-90699-5	DG-S7W	Total/NA	Water	7196A	
720-90699-6	DG-U7W	Total/NA	Water	7196A	
720-90699-9	DUP-44	Total/NA	Water	7196A	
MB 720-258324/9	Method Blank	Total/NA	Water	7196A	
LCS 720-258324/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-258324/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90699-2 MS	DG-N5W	Total/NA	Water	7196A	
720-90699-2 MSD	DG-N5W	Total/NA	Water	7196A	

Client Sample ID: DG-P5W

Lab Sample ID: 720-90699-1

Date Collected: 01/10/19 13:05

Matrix: Water

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523879	01/21/19 22:32	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523880	01/21/19 22:32	WC	TAL IRV
Total/NA	Prep	3520C			522263	01/14/19 10:36	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 13:55	L1B	TAL IRV
Total/NA	Prep	3510C			522336	01/14/19 15:10	HCK	TAL IRV
Total/NA	Analysis	8015B		1	522567	01/15/19 15:38	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 20:15	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 13:42	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258324	01/10/19 21:27	ECB	TAL PLS

Client Sample ID: DG-N5W

Lab Sample ID: 720-90699-2

Date Collected: 01/10/19 13:40

Matrix: Water

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523879	01/21/19 23:55	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523880	01/21/19 23:55	WC	TAL IRV
Total/NA	Prep	3520C			522263	01/14/19 10:36	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	522718	01/16/19 12:15	L1B	TAL IRV
Total/NA	Prep	3510C			522336	01/14/19 15:10	HCK	TAL IRV
Total/NA	Analysis	8015B		1	522567	01/15/19 15:59	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 20:20	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 13:44	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258324	01/10/19 21:27	ECB	TAL PLS

Client Sample ID: DG-O7W

Lab Sample ID: 720-90699-3

Date Collected: 01/10/19 14:15

Matrix: Water

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523879	01/22/19 00:23	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523880	01/22/19 00:23	WC	TAL IRV
Total/NA	Prep	3520C			522263	01/14/19 10:36	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 14:19	L1B	TAL IRV
Total/NA	Prep	3510C			522336	01/14/19 15:10	HCK	TAL IRV
Total/NA	Analysis	8015B		1	522567	01/15/19 16:21	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 20:25	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Client Sample ID: DG-O7W

Lab Sample ID: 720-90699-3

Date Collected: 01/10/19 14:15
Matrix: Water
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 13:46	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258324	01/10/19 21:27	ECB	TAL PLS

Client Sample ID: DG-Q7W

Lab Sample ID: 720-90699-4

Date Collected: 01/10/19 14:45
Matrix: Water
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523879	01/22/19 00:50	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523880	01/22/19 00:50	WC	TAL IRV
Total/NA	Prep	3520C			522263	01/14/19 10:36	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 14:43	L1B	TAL IRV
Total/NA	Prep	3510C			522336	01/14/19 15:10	HCK	TAL IRV
Total/NA	Analysis	8015B		1	522567	01/15/19 16:43	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 20:39	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 13:48	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258324	01/10/19 21:27	ECB	TAL PLS

Client Sample ID: DG-S7W

Lab Sample ID: 720-90699-5

Date Collected: 01/10/19 15:15
Matrix: Water
Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523879	01/22/19 01:18	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523880	01/22/19 01:18	WC	TAL IRV
Total/NA	Prep	3520C			522263	01/14/19 10:36	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	522718	01/16/19 13:28	L1B	TAL IRV
Total/NA	Prep	3510C			522336	01/14/19 15:10	HCK	TAL IRV
Total/NA	Analysis	8015B		1	522567	01/15/19 17:04	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 20:44	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 13:51	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258324	01/10/19 21:27	ECB	TAL PLS

Client Sample ID: DG-U7W

Lab Sample ID: 720-90699-6

Date Collected: 01/10/19 15:35

Matrix: Water

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523879	01/22/19 01:46	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523880	01/22/19 01:46	WC	TAL IRV
Total/NA	Prep	3520C			522263	01/14/19 10:36	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	522718	01/16/19 13:52	L1B	TAL IRV
Total/NA	Prep	3510C			522336	01/14/19 15:10	HCK	TAL IRV
Total/NA	Analysis	8015B		1	522567	01/15/19 18:53	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 20:49	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 13:53	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258324	01/10/19 21:59	ECB	TAL PLS

Client Sample ID: FB-01.10.19

Lab Sample ID: 720-90699-7

Date Collected: 01/10/19 00:00

Matrix: Water

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523879	01/22/19 02:13	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523880	01/22/19 02:13	WC	TAL IRV

Client Sample ID: TB-01.10.19

Lab Sample ID: 720-90699-8

Date Collected: 01/10/19 00:00

Matrix: Water

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523879	01/22/19 02:41	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523880	01/22/19 02:41	WC	TAL IRV

Client Sample ID: DUP-44

Lab Sample ID: 720-90699-9

Date Collected: 01/10/19 00:00

Matrix: Water

Date Received: 01/10/19 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	523879	01/22/19 03:09	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523880	01/22/19 03:09	WC	TAL IRV
Total/NA	Prep	3520C			522263	01/14/19 10:53	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 15:08	L1B	TAL IRV
Total/NA	Prep	3510C			522336	01/14/19 15:10	HCK	TAL IRV
Total/NA	Analysis	8015B		1	522567	01/15/19 19:15	LMB	TAL IRV
Dissolved	Prep	3005A			258527	01/15/19 09:04	MAA	TAL PLS
Dissolved	Analysis	6010B		1	258635	01/16/19 10:19	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Client Sample ID: DUP-44
Date Collected: 01/10/19 00:00
Date Received: 01/10/19 18:55

Lab Sample ID: 720-90699-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	7470A		1	258567	01/15/19 13:55	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258324	01/10/19 21:59	ECB	TAL PLS

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90699-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90699-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90699-1	DG-P5W	Water	01/10/19 13:05	01/10/19 18:55
720-90699-2	DG-N5W	Water	01/10/19 13:40	01/10/19 18:55
720-90699-3	DG-O7W	Water	01/10/19 14:15	01/10/19 18:55
720-90699-4	DG-Q7W	Water	01/10/19 14:45	01/10/19 18:55
720-90699-5	DG-S7W	Water	01/10/19 15:15	01/10/19 18:55
720-90699-6	DG-U7W	Water	01/10/19 15:35	01/10/19 18:55
720-90699-7	FB-01.10.19	Water	01/10/19 00:00	01/10/19 18:55
720-90699-8	TB-01.10.19	Water	01/10/19 00:00	01/10/19 18:55
720-90699-9	DUP-44	Water	01/10/19 00:00	01/10/19 18:55

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

720-90699

TestAmerica

#187754

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Shipping
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			TAT
P O # WG2619/ TA project # 72013947	☐ 1 day			COC No

720-90699 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-P5W	1/10/19	1305	G	GW	8	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-N5W		1340											
DG-O7W		1415											
DG-Q7W		1445											
DG-S7W		1515											
DG-U7W		1535			↓			↓	↓	↓	↓	↓	↓
FB-01.10.19		—			2			X					
TB-01.10.19		—			2			X					
DUP-44	↓	—	↓	↓	8			X					" "

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

4.5°C, 0.5°C, 0.4°C, 1.6°C, 0.2°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company: Geosyntec	Date/Time: 1/10/19 1605	Received by	Company: TA PLS	Date/Time: 1-10-19 16:05
Relinquished by	Company: TA PLS	Date/Time: 1-10-19 1855	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/29/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): L1786 4574 1368	COC No: 720-40772.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90699-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #			
Email				
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons (Hold)	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics (Hold)	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM (Hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:												
DG-P5W (720-90699-1)	1/10/19	13:05 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-N5W (720-90699-2)	1/10/19	13:40 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Q7W (720-90699-3)	1/10/19	14:15 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Q7W (720-90699-4)	1/10/19	14:45 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-S7W (720-90699-5)	1/10/19	15:15 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-U7W (720-90699-6)	1/10/19	15:35 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-01 10.19 (720-90699-7)	1/10/19	Pacific		Water			X	X						2	check for 2 phases
TB-01.10.19 (720-90699-8)	1/10/19	Pacific		Water			X	X						2	check for 2 phases
DUP44 (720-90699-9)	1/10/19	Pacific		Water			X				X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment		
Relinquished by	Date/Time: 1/11/19 1331	Company TAPLS	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by: Olga Olivelos	Date/Time: 1/12/19 11:20	Company TAPLV
Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks. 1.9/1.9 IR-89 1.8/1.8		

Ver: 09/20/2016

1/29/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90699-1

Login Number: 90699
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90699-1

Login Number: 90699
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/12/19 02:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90699-1

Login Number: 90699
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/12/19 03:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Sunday, January 13, 2019 8:18 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90699-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Yes please run 8270, CAM-17, 7196 and 8015.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Friday, January 11, 2019 3:11 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90699-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90699-1; Brisbane OU-2 Data Gap Investigation

Sample ID: DUP-44: Received extra containers for 8270, CAM-17, 7196 and 8015. These tests were not requested on the COC. Please confirm if you would like these tests run.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [494613]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90732-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Jill Kellmann

Authorized for release by:
1/31/2019 11:22:56 AM
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LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F4	MS/MSD RPD exceeds control limits due to sample size difference.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90732-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90732-1

Comments
No additional comments.

Receipt
The samples were received on 1/11/2019 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.9º C, 1.7º C, 1.7º C, 2.1º C, 2.2º C, 3.0º C, 3.0º C, 3.3º C, 3.7º C and 3.8º C.

Receipt Exceptions
The COC lists multiple methods for samples DG-AW7S-0.5-1 (720-90732-9) and DG-AW7S-3.5-4 (720-90732-10); however, only the containers for Methods 8260B and CA LUFT GRO were received. The samples were logged in for Methods 8260B and CA LUFT GRO per client request.

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): FB-1-11-19 (720-90732-11).

GC/MS VOA
Method(s) 8260/8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following sample was above outside control limits: DUP-106 (720-90732-4). Re-extraction and/or re-analysis was performed with concurring results. The re-analysis has been reported.

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-523238 and analytical batch 440-523259 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery. Elevated percent RPD values were obtained.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258711 and analytical batch 720-259001 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-Q15S-0.5-1 (720-90732-1), DUP-106 (720-90732-4), DG-S15S-0.5-1 (720-90732-5) and DG-S15S-6-6.5 (720-90732-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081A: The following sample was diluted due to the abundance of non-target analytes: DG-Q15S-7.5-8 (720-90732-3). Elevated reporting limits (RLs) are provided.

Method 8081A: The laboratory control sample (LCS) for preparation batch 720-258691 and analytical batches 720-259105, 720-259087, 720-259019 and 720-259209 recovered outside control limits for the following analyte: Endrin aldehyde. This analytes was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a “*” symbol.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batches 720-258691 and 720-258953 and analytical batches 720-259087 and 720-259212 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: The following samples were diluted due to visible color in the samples indicating possible matrix affects: DG-Q15S-0.5-1 (720-90732-1), DUP-106 (720-90732-4) and DG-S15S-0.5-1 (720-90732-5). Elevated reporting limits (RL) are provided.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-Q15S-0.5-1 (720-90732-1), DUP-106

Job ID: 720-90732-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

(720-90732-4), DG-S15S-0.5-1 (720-90732-5) and DG-S15S-6-6.5 (720-90732-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The matrix spike duplicate (MSD) recovery for preparation batch 440-523387 and analytical batch 440-524038 was outside control limits for PCB-1260 on the confirmation column. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Q15S-0.5-1 (720-90732-1), DG-Q15S-3.5-4 (720-90732-2), DG-Q15S-7.5-8 (720-90732-3), DUP-106 (720-90732-4), DG-S15S-0.5-1 (720-90732-5), DG-S15S-3.5-4 (720-90732-6), DG-S15S-6-6.5 (720-90732-7), DUP-107 (720-90732-8) and (720-90718-A-9-C). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258611 recovered above the upper control limit for Beryllium and Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following CCV is impacted: (CCV 720-258611/17). Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258411 and analytical batch 720-258629 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258629 was outside control limits for Cobalt (26%) and Nickel (12%). (720-90718-A-9-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Q15S-0.5-1 (720-90732-1), DG-Q15S-3.5-4 (720-90732-2), DG-Q15S-7.5-8 (720-90732-3), DUP-106 (720-90732-4), DG-S15S-0.5-1 (720-90732-5), DG-S15S-3.5-4 (720-90732-6), DG-S15S-6-6.5 (720-90732-7), DUP-107 (720-90732-8), (720-90718-A-9-C), (720-90718-A-9-A MS), (720-90718-A-9-B MSD), (720-90718-A-9-C PDS) and (720-90718-A-9-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258629 contained Copper above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB. Therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Q15S-7.5-8 (720-90732-3) and DG-S15S-0.5-1 (720-90732-5). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258630 recovered above the upper control limit for Thallium and Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following CCVs are impacted: (CCV 720-258630/11) and (CCV 720-258630/17). Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The method blank for preparation batch 720-258411 and analytical batch 720-258629 contained Barium and Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-258627 and analytical batch 720-258716 contained Arsenic, Barium, Cadmium, Cobalt, Chromium, Nickel, Lead, Antimony, and Vanadium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258716 contained Lead above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB;

Job ID: 720-90732-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258627 and analytical batch 720-258781 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258781 was outside control limits for Barium (42%), Cobalt (36%), Chromium (40%), Nickel (28%), Lead (31%), Vanadium (35%), and Zinc (16%): (720-90718-A-9-M SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: (720-90718-A-9-M), (720-90718-A-9-K MS), (720-90718-A-9-L MSD), (720-90718-A-9-M PDS) and (720-90718-A-9-M SD). Elevated reporting limits (RLs) are provided.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258413 and analytical batch 720-258790 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DG-Q15S-0.5-1 — Lab Sample ID: 720-90732-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.54	J	0.97	0.48	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	1500		200	98	ug/Kg	20		8270C SIM	Total/NA
Anthracene	44	J	98	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	230		98	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	180		98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	360		98	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	180		98	84	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	42	J	98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	480		98	27	ug/Kg	20		8270C SIM	Total/NA
Dibenz(a,h)anthracene	83	J	98	69	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	83	J	98	27	ug/Kg	20		8270C SIM	Total/NA
Fluorene	55	J	98	43	ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	96	J	98	82	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	590		98	69	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	620		98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	160		98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	460		9.8	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1100		250	49	mg/Kg	5		8015B	Total/NA
Antimony	5.8		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	3.4		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	51	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Chromium	9.0		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	330		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	3300	B ^	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.52	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	11	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Thallium	1.4	J	1.6	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	82		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	84		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.054		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q15S-3.5-4 — Lab Sample ID: 720-90732-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	89	F2 F1	9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	2.8	J	4.9	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	12		4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	8.8		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	24		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	33		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	46	F1	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	35	F1	4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	17	F1	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	40		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.2	F1	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	56		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.8	J	4.9	2.2	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q15S-3.5-4 (Continued) — Lab Sample ID: 720-90732-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	24	F1	4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	74	F2	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	44		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	68	F1	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	32		3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		99	20	mg/Kg	2		8015B	Total/NA
Antimony	6.8		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	450	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.64		0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	0.50		0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	57		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	170	^	4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	270	B ^	1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	41	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	2.7	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Thallium	1.0	J	1.4	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	130		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q15S-7.5-8 — Lab Sample ID: 720-90732-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.79		0.60	0.30	ug/Kg	1		8260B	Total/NA
Toluene	1.5		0.60	0.30	ug/Kg	1		8260B	Total/NA
Chrysene	1.4	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.3	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.8		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	20	J	49	9.7	mg/Kg	1		8015B	Total/NA
Antimony	0.46	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	1.4	J	2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	64	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.24	0.079	mg/Kg	4		6010B	Total/NA
Chromium	39		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	2.7		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	4.5		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	4.4	B ^	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.21	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	7.9	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.51	J	1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	10		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.0055	J	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-106 — Lab Sample ID: 720-90732-4

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-106 (Continued)

Lab Sample ID: 720-90732-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.9		0.97	0.48	ug/Kg	1		8260B	Total/NA
Toluene	1.0		0.97	0.48	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	1600		490	250	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]anthracene	180	J	250	74	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	260		250	94	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	390		250	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	220	J	250	210	ug/Kg	50		8270C SIM	Total/NA
Chrysene	530		250	69	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	100	J	250	69	ug/Kg	50		8270C SIM	Total/NA
Naphthalene	580		250	170	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	690		250	89	ug/Kg	50		8270C SIM	Total/NA
Pyrene	280		250	84	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1200		39	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2900		970	190	mg/Kg	20		8015B	Total/NA
4,4'-DDT	6.0		3.8	0.79	ug/Kg	2		8081A	Total/NA
Antimony	3.2		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	4.1		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	79	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Chromium	28		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	160	^	4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	330	B ^	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	23	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Thallium	0.82	J	1.6	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	91		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.093		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S15S-0.5-1

Lab Sample ID: 720-90732-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.67	J	0.78	0.39	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	42	J	98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	58	J	98	41	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	30	J	98	28	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	41	J	98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	71	J	98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	940		19	7.3	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2400		490	97	mg/Kg	10		8015B	Total/NA
Antimony	130		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	21		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	48	B	1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	23		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	120000		130	62	mg/Kg	100		6010B	Total/NA
Lead	1100	B ^	1.8	0.38	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S15S-0.5-1 (Continued) — Lab Sample ID: 720-90732-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.63	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	210	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Silver	2.4		0.87	0.18	mg/Kg	4		6010B	Total/NA
Thallium	0.57	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	140		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.47		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S15S-3.5-4 — Lab Sample ID: 720-90732-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.2		0.64	0.32	ug/Kg	1		8260B	Total/NA
Trichloroethene	3.5		0.64	0.32	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	42		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	3.0	J	4.9	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	5.0		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.8		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	6.3		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	57		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	9.7		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.7		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	74		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.5	J	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	41		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	11		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	7.0		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	100		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	280		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	28		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	13		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	33	J	49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	1.7		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	8.0		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	74	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.31	0.10	mg/Kg	4		6010B	Total/NA
Chromium	74		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	53	^	4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	37	B ^	1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	81	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	93		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S15S-6-6.5 — Lab Sample ID: 720-90732-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	3200		78	54	ug/Kg	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S15S-6-6.5 (Continued)

Lab Sample ID: 720-90732-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.43	J	0.78	0.39	ug/Kg	1		8260B	Total/NA
Chrysene	67	J	99	28	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	240		99	36	ug/Kg	20		8270C SIM	Total/NA
Pyrene	120		99	34	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1500		20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1400		490	98	mg/Kg	10		8015B	Total/NA
Antimony	0.96	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	660	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.64		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	30		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	6400	^	5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	190	B ^	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	27	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.72	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Silver	3.0		0.93	0.19	mg/Kg	4		6010B	Total/NA
Thallium	0.62	J	1.9	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	110		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.68		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-107

Lab Sample ID: 720-90732-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.3		0.71	0.35	ug/Kg	1		8260B	Total/NA
Trichloroethene	2.7		0.71	0.35	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	140		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.8	J	4.9	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	2.4	J	4.9	2.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	6.3		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	10		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.4		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	36		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	9.7		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.7	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	37		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	3.5	J	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	24		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	37		4.9	2.2	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	5.1		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	89		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	140		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	27		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	16		2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	41	J	49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	2.4		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	8.6		2.8	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-107 (Continued) — Lab Sample ID: 720-90732-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	65	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.52		0.28	0.092	mg/Kg	4		6010B	Total/NA
Chromium	71		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	59	^	4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	29	B ^	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.54	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	77	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	2.8	0.43	mg/Kg	4		6010B	Total/NA
Thallium	0.64	J	1.4	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	80		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.075		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW7S-0.5-1 — Lab Sample ID: 720-90732-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.47	J	0.79	0.40	ug/Kg	1		8260B	Total/NA

Client Sample ID: DG-AW7S-3.5-4 — Lab Sample ID: 720-90732-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q15S-0.5-1

Date Collected: 01/11/19 07:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		97	68	ug/Kg		01/11/19 18:00	01/18/19 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/11/19 18:00*	*01/18/19 10:17*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/11/19 18:00*	*01/18/19 10:17*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*01/11/19 18:00*	*01/18/19 10:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.7	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,1,1-Trichloroethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,1,2-Trichloroethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,1-Dichloroethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,1-Dichloroethene	ND		1.9	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,1-Dichloropropene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,2,3-Trichlorobenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,2,4-Trichlorobenzene	ND		4.8	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,2,4-Trimethylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,2-Dibromo-3-Chloropropane	ND		4.8	1.9	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,2-Dichlorobenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,2-Dichloroethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,2-Dichloropropane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,3,5-Trimethylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,3-Dichlorobenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,3-Dichloropropane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,4-Dichlorobenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
2,2-Dichloropropane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
2-Chlorotoluene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
2-Hexanone	ND		9.7	4.8	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
4-Chlorotoluene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
4-Isopropyltoluene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Benzene	**0.54**	**J**	0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Bromobenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Bromoform	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Bromomethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Carbon disulfide	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Carbon tetrachloride	ND		1.9	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Chlorobenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Chlorobromomethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Chloroethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Chloroform	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Chloromethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
cis-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
cis-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Chlorodibromomethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Dibromomethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Dichlorobromomethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1

Client Sample ID: DG-Q15S-0.5-1
Date Collected: 01/11/19 07:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Ethylbenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Hexachlorobutadiene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Isopropylbenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Methylene Chloride	ND		9.7	4.8	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Methyl tert-butyl ether	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Naphthalene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
n-Butylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
N-Propylbenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
sec-Butylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Styrene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
tert-Butylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Tetrachloroethene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Toluene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
trans-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
trans-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Trichloroethene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Trichlorofluoromethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	4.8	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Vinyl acetate	ND		7.7	3.9	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Vinyl chloride	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Xylenes, Total	ND		1.9	1.3	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
Ethylene Dibromide	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
2-Butanone (MEK)	ND		9.7	4.8	ug/Kg		01/11/19 18:00	01/18/19 10:17	1
4-Methyl-2-pentanone (MIBK)	ND		4.8	2.4	ug/Kg		01/11/19 18:00	01/18/19 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*79 - 123*	*01/11/19 18:00*	*01/18/19 10:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*01/11/19 18:00*	*01/18/19 10:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**1500**		200	98	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Acenaphthene	ND		98	55	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Acenaphthylene	ND		98	47	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Anthracene	**44**	**J**	98	39	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Benzo[a]anthracene	**230**		98	29	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Benzo[a]pyrene	**180**		98	37	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Benzo[b]fluoranthene	**360**		98	41	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Benzo[g,h,i]perylene	**180**		98	84	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Benzo[k]fluoranthene	**42**	**J**	98	41	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Chrysene	**480**		98	27	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Dibenz(a,h)anthracene	**83**	**J**	98	69	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Fluoranthene	**83**	**J**	98	27	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Fluorene	**55**	**J**	98	43	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Indeno[1,2,3-cd]pyrene	**96**	**J**	98	82	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Naphthalene	**590**		98	69	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Phenanthrene	**620**		98	35	ug/Kg		01/17/19 14:27	01/25/19 19:55	20
Pyrene	**160**		98	33	ug/Kg		01/17/19 14:27	01/25/19 19:55	20

Client Sample ID: DG-Q15S-0.5-1

Date Collected: 01/11/19 07:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-1

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		33 - 120	01/17/19 14:27	01/25/19 19:55	20
Terphenyl-d14	101		35 - 146	01/17/19 14:27	01/25/19 19:55	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	460		9.8	3.7	mg/Kg		01/23/19 14:13	01/25/19 16:34	5
Motor Oil Range Organics [C24-C36]	1100		250	49	mg/Kg		01/23/19 14:13	01/25/19 16:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/23/19 14:13	01/25/19 16:34	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.0	1.2	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
4,4'-DDE	ND		4.0	0.83	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
4,4'-DDT	ND		4.0	0.81	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Aldrin	ND		4.0	0.99	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
alpha-BHC	ND		4.0	1.1	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
alpha-Chlordane	ND		4.0	0.79	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
beta-BHC	ND		4.0	0.72	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Chlordane (n.o.s.)	ND		79	5.8	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Chlordane (technical)	ND		79	6.4	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
delta-BHC	ND		4.0	0.87	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Dieldrin	ND		4.0	1.2	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Endosulfan I	ND		4.0	0.64	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Endosulfan II	ND		4.0	0.97	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Endosulfan sulfate	ND		4.0	0.75	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Endrin	ND		4.0	0.91	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Endrin aldehyde	ND	*	4.0	1.3	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Endrin ketone	ND		4.0	0.66	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
gamma-BHC (Lindane)	ND		4.0	1.3	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
gamma-Chlordane	ND		4.0	0.91	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Heptachlor	ND		4.0	0.91	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Heptachlor epoxide	ND		4.0	0.70	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Methoxychlor	ND		4.0	1.4	ug/Kg		01/17/19 09:43	01/25/19 13:15	2
Toxaphene	ND		79	14	ug/Kg		01/17/19 09:43	01/25/19 13:15	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		21 - 136	01/17/19 09:43	01/25/19 13:15	2
Tetrachloro-m-xylene	85		21 - 145	01/17/19 09:43	01/25/19 13:15	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 19:48	1
Aroclor 1221	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 19:48	1
Aroclor 1232	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 19:48	1
Aroclor 1242	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 19:48	1
Aroclor 1248	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 19:48	1
Aroclor 1254	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 19:48	1
Aroclor 1260	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 19:48	1

Client Sample ID: DG-Q15S-0.5-1

Date Collected: 01/11/19 07:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/17/19 06:20*	*01/17/19 19:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.8		1.6	0.26	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Arsenic	3.4		3.2	0.27	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Barium	51	B	1.6	0.23	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Beryllium	0.19	J	0.32	0.10	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Cadmium	ND		0.40	0.039	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Chromium	9.0		1.6	0.17	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Cobalt	13		0.63	0.063	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Copper	330		4.8	2.3	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Lead	3300	B ^	1.6	0.34	mg/Kg		01/16/19 12:02	01/17/19 13:29	4
Molybdenum	0.52	J	1.6	0.20	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Nickel	11	B	1.6	0.16	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Selenium	1.4	J	3.2	0.48	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Silver	ND		0.79	0.16	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Thallium	1.4	J	1.6	0.46	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Vanadium	82		1.6	0.22	mg/Kg		01/12/19 11:08	01/14/19 19:17	4
Zinc	84		4.8	2.0	mg/Kg		01/16/19 12:02	01/17/19 13:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.016	0.0023	mg/Kg		01/17/19 19:40	01/18/19 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			01/14/19 09:39	1

Client Sample ID: DG-Q15S-3.5-4

Date Collected: 01/11/19 07:32
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		70	49	ug/Kg		01/13/19 11:22	01/17/19 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/13/19 11:22*	*01/17/19 00:57*	*1*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*	*01/13/19 11:22*	*01/17/19 00:57*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*01/13/19 11:22*	*01/17/19 00:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.0	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,1,1-Trichloroethane	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,1,2-Trichloroethane	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,1-Dichloroethane	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,1-Dichloropropene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,2,3-Trichlorobenzene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,2,4-Trichlorobenzene	ND		3.5	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,2,4-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,2-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,2-Dichloroethane	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,2-Dichloropropane	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,3,5-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,3-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,3-Dichloropropane	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,4-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
2,2-Dichloropropane	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
2-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
2-Hexanone	ND		7.0	3.5	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
4-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
4-Isopropyltoluene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Benzene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Bromobenzene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Bromoform	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Bromomethane	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Carbon disulfide	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Chlorobenzene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Chlorobromomethane	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Chloroethane	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Chloroform	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Chloromethane	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
cis-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
cis-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Chlorodibromomethane	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Dibromomethane	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Dichlorobromomethane	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1

Client Sample ID: DG-Q15S-3.5-4
Date Collected: 01/11/19 07:32
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Ethylbenzene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Hexachlorobutadiene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Isopropylbenzene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Methylene Chloride	ND		7.0	3.5	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Methyl tert-butyl ether	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Naphthalene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
n-Butylbenzene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
N-Propylbenzene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
sec-Butylbenzene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Styrene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
tert-Butylbenzene	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Tetrachloroethene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Toluene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
trans-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
trans-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Trichloroethene	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Trichlorofluoromethane	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.0	3.5	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Vinyl chloride	ND		1.4	0.70	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Xylenes, Total	ND		1.4	0.91	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
Ethylene Dibromide	ND		0.70	0.35	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
2-Butanone (MEK)	ND		7.0	3.5	ug/Kg		01/13/19 11:22	01/17/19 00:57	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.7	ug/Kg		01/13/19 11:22	01/17/19 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*79 - 123*	*01/13/19 11:22*	*01/17/19 00:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*01/13/19 11:22*	*01/17/19 00:57*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**89**	**F2 F1**	9.8	4.9	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Acenaphthene	**2.8**	**J**	4.9	2.7	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Acenaphthylene	**12**		4.9	2.4	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Anthracene	**8.8**		4.9	2.0	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Benzo[a]anthracene	**24**		4.9	1.5	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Benzo[a]pyrene	**33**		4.9	1.9	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Benzo[b]fluoranthene	**46**	**F1**	4.9	2.1	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Benzo[g,h,i]perylene	**35**	**F1**	4.9	4.2	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Benzo[k]fluoranthene	**17**	**F1**	4.9	2.1	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Chrysene	**40**		4.9	1.4	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Dibenz(a,h)anthracene	**5.2**	**F1**	4.9	3.4	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Fluoranthene	**56**		4.9	1.4	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Fluorene	**2.8**	**J**	4.9	2.2	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Indeno[1,2,3-cd]pyrene	**24**	**F1**	4.9	4.1	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Naphthalene	**74**	**F2**	4.9	3.4	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Phenanthrene	**44**		4.9	1.8	ug/Kg		01/17/19 14:27	01/22/19 15:02	1
Pyrene	**68**	**F1**	4.9	1.7	ug/Kg		01/17/19 14:27	01/22/19 15:02	1

Client Sample ID: DG-Q15S-3.5-4

Date Collected: 01/11/19 07:32
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120	01/17/19 14:27	01/22/19 15:02	1
Terphenyl-d14	82		35 - 146	01/17/19 14:27	01/22/19 15:02	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	32		3.9	1.5	mg/Kg		01/23/19 14:13	01/25/19 17:03	2
Motor Oil Range Organics [C24-C36]	150		99	20	mg/Kg		01/23/19 14:13	01/25/19 17:03	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	91		40 - 130	01/23/19 14:13	01/25/19 17:03	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Aldrin	ND		1.9	0.48	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Endrin	ND		1.9	0.44	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Endrin aldehyde	ND	*	1.9	0.61	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/17/19 09:43	01/25/19 13:32	1
Toxaphene	ND		39	6.6	ug/Kg		01/17/19 09:43	01/25/19 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		21 - 136	01/17/19 09:43	01/25/19 13:32	1
Tetrachloro-m-xylene	87		21 - 145	01/17/19 09:43	01/25/19 13:32	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		48	16	ug/Kg		01/17/19 06:20	01/18/19 11:56	1
Aroclor 1221	ND		48	16	ug/Kg		01/17/19 06:20	01/18/19 11:56	1
Aroclor 1232	ND		48	16	ug/Kg		01/17/19 06:20	01/18/19 11:56	1
Aroclor 1242	ND		48	16	ug/Kg		01/17/19 06:20	01/18/19 11:56	1
Aroclor 1248	ND		48	16	ug/Kg		01/17/19 06:20	01/18/19 11:56	1
Aroclor 1254	ND		48	16	ug/Kg		01/17/19 06:20	01/18/19 11:56	1
Aroclor 1260	ND		48	16	ug/Kg		01/17/19 06:20	01/18/19 11:56	1

Client Sample ID: DG-Q15S-3.5-4

Date Collected: 01/11/19 07:32
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*45 - 120*	*01/17/19 06:20*	*01/18/19 11:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.8		1.4	0.24	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Arsenic	11		2.9	0.24	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Barium	450	B	1.4	0.20	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Beryllium	0.64		0.29	0.093	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Cadmium	0.50		0.36	0.035	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Chromium	57		1.4	0.15	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Cobalt	11		0.57	0.057	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Copper	170	^	4.3	2.0	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Lead	270	B ^	1.1	0.24	mg/Kg		01/16/19 12:02	01/17/19 13:34	4
Molybdenum	1.1	J	1.4	0.18	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Nickel	41	B	1.4	0.15	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Selenium	2.7	J	2.9	0.43	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Silver	ND		0.71	0.14	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Thallium	1.0	J	1.4	0.41	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Vanadium	73		1.4	0.19	mg/Kg		01/12/19 11:08	01/14/19 19:31	4
Zinc	130		3.4	1.4	mg/Kg		01/16/19 12:02	01/17/19 13:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.017	0.0025	mg/Kg		01/17/19 19:40	01/18/19 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.05	%			01/14/19 09:39	1

Client Sample ID: DG-Q15S-7.5-8

Date Collected: 01/11/19 07:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		60	42	ug/Kg		01/13/19 11:22	01/17/19 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/13/19 11:22*	*01/17/19 01:25*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*01/13/19 11:22*	*01/17/19 01:25*	*1*
Toluene-d8 (Surr)	*119*		*79 - 123*	*01/13/19 11:22*	*01/17/19 01:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.0	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,1,1,2-Tetrachloroethane	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,1,1-Trichloroethane	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,1,2-Trichloroethane	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,1-Dichloroethane	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,1-Dichloroethene	ND		1.2	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,1-Dichloropropene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,2,3-Trichlorobenzene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,2,4-Trichlorobenzene	ND		3.0	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,2,4-Trimethylbenzene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,2-Dibromo-3-Chloropropane	ND		3.0	1.2	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,2-Dichlorobenzene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,2-Dichloroethane	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,2-Dichloropropane	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,3,5-Trimethylbenzene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,3-Dichlorobenzene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,3-Dichloropropane	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,4-Dichlorobenzene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
2,2-Dichloropropane	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
2-Chlorotoluene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
2-Hexanone	ND		6.0	3.0	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
4-Chlorotoluene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
4-Isopropyltoluene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Benzene	**0.79**		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Bromobenzene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Bromoform	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Bromomethane	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Carbon disulfide	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Carbon tetrachloride	ND		1.2	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Chlorobenzene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Chlorobromomethane	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Chloroethane	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Chloroform	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Chloromethane	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
cis-1,2-Dichloroethene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
cis-1,3-Dichloropropene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Chlorodibromomethane	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Dibromomethane	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Dichlorobromomethane	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1

Client Sample ID: DG-Q15S-7.5-8
Date Collected: 01/11/19 07:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Ethylbenzene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Hexachlorobutadiene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Isopropylbenzene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Methylene Chloride	ND		6.0	3.0	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Methyl tert-butyl ether	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Naphthalene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
n-Butylbenzene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
N-Propylbenzene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
sec-Butylbenzene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Styrene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
tert-Butylbenzene	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Tetrachloroethene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Toluene	**1.5**		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
trans-1,2-Dichloroethene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
trans-1,3-Dichloropropene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Trichloroethene	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Trichlorofluoromethane	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.0	3.0	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Vinyl acetate	ND		4.8	2.4	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Vinyl chloride	ND		1.2	0.60	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Xylenes, Total	ND		1.2	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
Ethylene Dibromide	ND		0.60	0.30	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
2-Butanone (MEK)	ND		6.0	3.0	ug/Kg		01/13/19 11:22	01/17/19 01:25	1
4-Methyl-2-pentanone (MIBK)	ND		3.0	1.5	ug/Kg		01/13/19 11:22	01/17/19 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*119*		*79 - 123*	*01/13/19 11:22*	*01/17/19 01:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*01/13/19 11:22*	*01/17/19 01:25*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.7	4.9	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Acenaphthylene	ND		4.9	2.3	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Anthracene	ND		4.9	1.9	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Benzo[a]pyrene	ND		4.9	1.9	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Benzo[b]fluoranthene	ND		4.9	2.0	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Benzo[k]fluoranthene	ND		4.9	2.0	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Chrysene	**1.4**	**J**	4.9	1.4	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Fluoranthene	**2.3**	**J**	4.9	1.4	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Fluorene	ND		4.9	2.1	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Phenanthrene	ND		4.9	1.8	ug/Kg		01/17/19 14:27	01/24/19 23:28	1
Pyrene	ND		4.9	1.7	ug/Kg		01/17/19 14:27	01/24/19 23:28	1

Client Sample ID: DG-Q15S-7.5-8

Date Collected: 01/11/19 07:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*33 - 120*	*01/17/19 14:27*	*01/24/19 23:28*	*1*
Terphenyl-d14	*118*		*35 - 146*	*01/17/19 14:27*	*01/24/19 23:28*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.8		1.9	0.73	mg/Kg		01/23/19 14:13	01/25/19 17:33	1
Motor Oil Range Organics [C24-C36]	20	J	49	9.7	mg/Kg		01/23/19 14:13	01/25/19 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*01/23/19 14:13*	*01/25/19 17:33*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.6	2.9	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
4,4'-DDE	ND		9.6	2.0	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
4,4'-DDT	ND		9.6	2.0	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Aldrin	ND		9.6	2.4	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
alpha-BHC	ND		9.6	2.6	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
alpha-Chlordane	ND		9.6	1.9	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
beta-BHC	ND		9.6	1.7	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Chlordane (n.o.s.)	ND		190	14	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Chlordane (technical)	ND		190	15	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
delta-BHC	ND		9.6	2.1	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Dieldrin	ND		9.6	2.8	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Endosulfan I	ND		9.6	1.5	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Endosulfan II	ND		9.6	2.4	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Endosulfan sulfate	ND		9.6	1.8	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Endrin	ND		9.6	2.2	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Endrin aldehyde	ND	*	9.6	3.0	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Endrin ketone	ND		9.6	1.6	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
gamma-BHC (Lindane)	ND		9.6	3.0	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
gamma-Chlordane	ND		9.6	2.2	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Heptachlor	ND		9.6	2.2	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Heptachlor epoxide	ND		9.6	1.7	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Methoxychlor	ND		9.6	3.3	ug/Kg		01/17/19 09:43	01/24/19 15:09	5
Toxaphene	ND		190	33	ug/Kg		01/17/19 09:43	01/24/19 15:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*21 - 136*	*01/17/19 09:43*	*01/24/19 15:09*	*5*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/17/19 09:43*	*01/24/19 15:09*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 20:15	1
Aroclor 1221	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 20:15	1
Aroclor 1232	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 20:15	1
Aroclor 1242	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 20:15	1
Aroclor 1248	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 20:15	1
Aroclor 1254	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 20:15	1
Aroclor 1260	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 20:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DG-Q15S-7.5-8

Date Collected: 01/11/19 07:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*01/17/19 06:20*	*01/17/19 20:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.46**	**J**	1.2	0.20	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Arsenic	**1.4**	**J**	2.4	0.21	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Barium	**64**	**B**	1.2	0.17	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Beryllium	**0.16**	**J**	0.24	0.079	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Cadmium	ND		0.30	0.030	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Chromium	**39**		1.2	0.13	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Cobalt	**2.7**		0.48	0.048	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Copper	**4.5**		3.6	1.7	mg/Kg		01/12/19 11:08	01/15/19 21:58	4
Lead	**4.4**	**B ^**	1.2	0.25	mg/Kg		01/16/19 12:02	01/17/19 13:39	4
Molybdenum	**0.21**	**J**	1.2	0.16	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Nickel	**7.9**	**B**	1.2	0.12	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Selenium	ND		2.4	0.36	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Silver	ND		0.61	0.12	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Thallium	**0.51**	**J**	1.2	0.35	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Vanadium	**26**		1.2	0.16	mg/Kg		01/12/19 11:08	01/14/19 19:36	4
Zinc	**10**		3.5	1.5	mg/Kg		01/16/19 12:02	01/17/19 13:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0055**	**J**	0.016	0.0023	mg/Kg		01/17/19 19:40	01/18/19 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		0.1	0.05	%			01/14/19 09:39	1

Client Sample ID: DUP-106

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		97	68	ug/Kg		01/11/19 18:00	01/18/19 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/11/19 18:00*	*01/18/19 10:48*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*79 - 120*	*01/11/19 18:00*	*01/18/19 10:48*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*	*01/11/19 18:00*	*01/18/19 10:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.7	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,1,1-Trichloroethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,1,2-Trichloroethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,1-Dichloroethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,1-Dichloroethene	ND		1.9	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,1-Dichloropropene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,2,3-Trichlorobenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,2,4-Trichlorobenzene	ND		4.8	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,2,4-Trimethylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,2-Dibromo-3-Chloropropane	ND		4.8	1.9	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,2-Dichlorobenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,2-Dichloroethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,2-Dichloropropane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,3,5-Trimethylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,3-Dichlorobenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,3-Dichloropropane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,4-Dichlorobenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
2,2-Dichloropropane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
2-Chlorotoluene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
2-Hexanone	ND		9.7	4.8	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
4-Chlorotoluene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
4-Isopropyltoluene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Benzene	**1.9**		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Bromobenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Bromoform	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Bromomethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Carbon disulfide	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Carbon tetrachloride	ND		1.9	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Chlorobenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Chlorobromomethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Chloroethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Chloroform	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Chloromethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
cis-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
cis-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Chlorodibromomethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Dibromomethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Dichlorobromomethane	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1

Client Sample ID: DUP-106
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Ethylbenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Hexachlorobutadiene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Isopropylbenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Methylene Chloride	ND		9.7	4.8	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Methyl tert-butyl ether	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Naphthalene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
n-Butylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
N-Propylbenzene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
sec-Butylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Styrene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
tert-Butylbenzene	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Tetrachloroethene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Toluene	**1.0**		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
trans-1,2-Dichloroethene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
trans-1,3-Dichloropropene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Trichloroethene	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Trichlorofluoromethane	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	4.8	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Vinyl acetate	ND		7.8	3.9	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Vinyl chloride	ND		1.9	0.97	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Xylenes, Total	ND		1.9	1.3	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
Ethylene Dibromide	ND		0.97	0.48	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
2-Butanone (MEK)	ND		9.7	4.8	ug/Kg		01/11/19 18:00	01/18/19 10:48	1
4-Methyl-2-pentanone (MIBK)	ND		4.8	2.4	ug/Kg		01/11/19 18:00	01/18/19 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*116*		*79 - 123*	*01/11/19 18:00*	*01/18/19 10:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*01/11/19 18:00*	*01/18/19 10:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**1600**		490	250	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Acenaphthene	ND		250	140	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Acenaphthylene	ND		250	120	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Anthracene	ND		250	99	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Benzo[a]anthracene	**180**	**J**	250	74	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Benzo[a]pyrene	**260**		250	94	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Benzo[b]fluoranthene	**390**		250	100	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Benzo[g,h,i]perylene	**220**	**J**	250	210	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Benzo[k]fluoranthene	ND		250	100	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Chrysene	**530**		250	69	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Dibenz(a,h)anthracene	ND		250	170	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Fluoranthene	**100**	**J**	250	69	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Fluorene	ND		250	110	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Indeno[1,2,3-cd]pyrene	ND		250	210	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Naphthalene	**580**		250	170	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Phenanthrene	**690**		250	89	ug/Kg		01/17/19 14:27	01/25/19 21:53	50
Pyrene	**280**		250	84	ug/Kg		01/17/19 14:27	01/25/19 21:53	50

Client Sample ID: DUP-106

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-4

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		33 - 120	01/17/19 14:27	01/25/19 21:53	50
Terphenyl-d14	101		35 - 146	01/17/19 14:27	01/25/19 21:53	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1200**		39	15	mg/Kg		01/23/19 14:13	01/25/19 18:31	20
Motor Oil Range Organics [C24-C36]	**2900**		970	190	mg/Kg		01/23/19 14:13	01/25/19 18:31	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/23/19 14:13	01/25/19 18:31	20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	1.2	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
4,4'-DDE	ND		3.8	0.81	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
4,4'-DDT	**6.0**		3.8	0.79	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Aldrin	ND		3.8	0.96	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
alpha-BHC	ND		3.8	1.1	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
alpha-Chlordane	ND		3.8	0.77	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
beta-BHC	ND		3.8	0.69	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Chlordane (n.o.s.)	ND		77	5.6	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Chlordane (technical)	ND		77	6.1	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
delta-BHC	ND		3.8	0.84	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Dieldrin	ND		3.8	1.1	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Endosulfan I	ND		3.8	0.61	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Endosulfan II	ND		3.8	0.94	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Endosulfan sulfate	ND		3.8	0.73	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Endrin	ND		3.8	0.88	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Endrin aldehyde	ND		3.8	1.2	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Endrin ketone	ND		3.8	0.63	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
gamma-BHC (Lindane)	ND		3.8	1.2	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
gamma-Chlordane	ND		3.8	0.88	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Heptachlor	ND		3.8	0.88	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Heptachlor epoxide	ND		3.8	0.67	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Methoxychlor	ND		3.8	1.3	ug/Kg		01/22/19 12:29	01/25/19 13:49	2
Toxaphene	ND		77	13	ug/Kg		01/22/19 12:29	01/25/19 13:49	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		21 - 136	01/22/19 12:29	01/25/19 13:49	2
Tetrachloro-m-xylene	70		21 - 145	01/22/19 12:29	01/25/19 13:49	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 15:52	1
Aroclor 1221	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 15:52	1
Aroclor 1232	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 15:52	1
Aroclor 1242	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 15:52	1
Aroclor 1248	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 15:52	1
Aroclor 1254	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 15:52	1
Aroclor 1260	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 15:52	1

Client Sample ID: DUP-106

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*45 - 120*	*01/18/19 10:14*	*01/22/19 15:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.2**		1.6	0.26	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Arsenic	**4.1**		3.2	0.27	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Barium	**79**	**B**	1.6	0.23	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Beryllium	**0.15**	**J**	0.32	0.10	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Cadmium	ND		0.40	0.039	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Chromium	**28**		1.6	0.17	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Cobalt	**12**		0.63	0.063	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Copper	**160**	**^**	4.8	2.3	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Lead	**330**	**B ^**	1.5	0.32	mg/Kg		01/16/19 12:02	01/17/19 13:44	4
Molybdenum	**0.40**	**J**	1.6	0.20	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Nickel	**23**	**B**	1.6	0.16	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Selenium	**1.8**	**J**	3.2	0.48	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Silver	ND		0.79	0.16	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Thallium	**0.82**	**J**	1.6	0.46	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Vanadium	**68**		1.6	0.22	mg/Kg		01/12/19 11:08	01/14/19 19:41	4
Zinc	**91**		4.6	2.0	mg/Kg		01/16/19 12:02	01/17/19 13:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.093**		0.016	0.0023	mg/Kg		01/17/19 19:40	01/18/19 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.1**		0.1	0.05	%			01/14/19 09:39	1

Client Sample ID: DG-S15S-0.5-1

Date Collected: 01/11/19 08:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		01/13/19 11:22	01/17/19 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*60 - 120*	*01/13/19 11:22*	*01/17/19 01:54*	*1*
4-Bromofluorobenzene (Surr)	*120*		*79 - 120*	*01/13/19 11:22*	*01/17/19 01:54*	*1*
Toluene-d8 (Surr)	*117*		*79 - 123*	*01/13/19 11:22*	*01/17/19 01:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Benzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Bromoform	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Chloroform	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1

Client Sample ID: DG-S15S-0.5-1

Date Collected: 01/11/19 08:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Styrene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Tetrachloroethene	**0.67**	**J**	0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Toluene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Vinyl acetate	ND		6.3	3.1	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/13/19 11:22	01/17/19 01:54	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/13/19 11:22	01/17/19 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*117*		*79 - 123*	*01/13/19 11:22*	*01/17/19 01:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*	*01/13/19 11:22*	*01/17/19 01:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	98	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Acenaphthene	ND		98	55	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Acenaphthylene	ND		98	47	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Anthracene	ND		98	39	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Benzo[a]anthracene	ND		98	30	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Benzo[a]pyrene	**42**	**J**	98	37	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Benzo[b]fluoranthene	**58**	**J**	98	41	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Benzo[g,h,i]perylene	ND		98	85	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Benzo[k]fluoranthene	ND		98	41	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Chrysene	ND		98	28	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Dibenz(a,h)anthracene	ND		98	69	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Fluoranthene	**30**	**J**	98	28	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Fluorene	ND		98	43	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Indeno[1,2,3-cd]pyrene	ND		98	83	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Naphthalene	ND		98	69	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Phenanthrene	**41**	**J**	98	35	ug/Kg		01/17/19 14:27	01/25/19 22:16	20
Pyrene	**71**	**J**	98	33	ug/Kg		01/17/19 14:27	01/25/19 22:16	20

Client Sample ID: DG-S15S-0.5-1

Date Collected: 01/11/19 08:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-5

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		33 - 120	01/17/19 14:27	01/25/19 22:16	20
Terphenyl-d14	110		35 - 146	01/17/19 14:27	01/25/19 22:16	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	940		19	7.3	mg/Kg		01/23/19 14:13	01/25/19 18:02	10
Motor Oil Range Organics [C24-C36]	2400		490	97	mg/Kg		01/23/19 14:13	01/25/19 18:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/23/19 14:13	01/25/19 18:02	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.0	1.2	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
4,4'-DDE	ND		4.0	0.84	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
4,4'-DDT	ND		4.0	0.82	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Aldrin	ND		4.0	1.0	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
alpha-BHC	ND		4.0	1.1	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
alpha-Chlordane	ND		4.0	0.80	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
beta-BHC	ND		4.0	0.72	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Chlordane (n.o.s.)	ND		80	5.8	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Chlordane (technical)	ND		80	6.4	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
delta-BHC	ND		4.0	0.88	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Dieldrin	ND		4.0	1.2	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Endosulfan I	ND		4.0	0.64	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Endosulfan II	ND		4.0	0.98	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Endosulfan sulfate	ND		4.0	0.76	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Endrin	ND		4.0	0.92	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Endrin aldehyde	ND		4.0	1.3	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Endrin ketone	ND		4.0	0.66	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
gamma-BHC (Lindane)	ND		4.0	1.3	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
gamma-Chlordane	ND		4.0	0.92	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Heptachlor	ND		4.0	0.92	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Heptachlor epoxide	ND		4.0	0.70	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Methoxychlor	ND		4.0	1.4	ug/Kg		01/22/19 12:29	01/25/19 14:06	2
Toxaphene	ND		80	14	ug/Kg		01/22/19 12:29	01/25/19 14:06	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		21 - 136	01/22/19 12:29	01/25/19 14:06	2
Tetrachloro-m-xylene	72		21 - 145	01/22/19 12:29	01/25/19 14:06	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 17:50	1
Aroclor 1221	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 17:50	1
Aroclor 1232	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 17:50	1
Aroclor 1242	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 17:50	1
Aroclor 1248	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 17:50	1
Aroclor 1254	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 17:50	1
Aroclor 1260	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 17:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DG-S15S-0.5-1
Date Collected: 01/11/19 08:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-5
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*01/18/19 10:14*	*01/22/19 17:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	130		1.7	0.29	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Arsenic	21		3.5	0.30	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Barium	48	B	1.7	0.25	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Beryllium	ND		0.35	0.11	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Cadmium	0.18	J	0.43	0.043	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Chromium	23		1.7	0.18	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Cobalt	13		0.70	0.070	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Copper	120000		130	62	mg/Kg		01/12/19 11:08	01/15/19 22:03	100
Lead	1100	B ^	1.8	0.38	mg/Kg		01/16/19 12:02	01/17/19 13:48	4
Molybdenum	0.63	J	1.7	0.22	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Nickel	210	B	1.7	0.18	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Selenium	1.5	J	3.5	0.52	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Silver	2.4		0.87	0.18	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Thallium	0.57	J	1.7	0.50	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Vanadium	74		1.7	0.24	mg/Kg		01/12/19 11:08	01/14/19 19:45	4
Zinc	140		5.4	2.3	mg/Kg		01/16/19 12:02	01/17/19 13:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.47		0.015	0.0022	mg/Kg		01/17/19 19:40	01/18/19 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.05	%			01/14/19 09:39	1

Client Sample ID: DG-S15S-3.5-4
Date Collected: 01/11/19 08:32
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-6
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		64	44	ug/Kg		01/11/19 15:30	01/18/19 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/11/19 15:30*	*01/18/19 03:53*	*1*
4-Bromofluorobenzene (Surr)	*115*		*79 - 120*	*01/11/19 15:30*	*01/18/19 03:53*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*	*01/11/19 15:30*	*01/18/19 03:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.4	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,1,1-Trichloroethane	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,1,2-Trichloroethane	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,1-Dichloroethane	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,1-Dichloropropene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,2,3-Trichlorobenzene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,2,4-Trichlorobenzene	ND		3.2	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,2,4-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,2-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,2-Dichloroethane	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,2-Dichloropropane	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,3,5-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,3-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,3-Dichloropropane	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,4-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
2,2-Dichloropropane	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
2-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
2-Hexanone	ND		6.4	3.2	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
4-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
4-Isopropyltoluene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Benzene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Bromobenzene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Bromoform	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Bromomethane	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Carbon disulfide	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Chlorobenzene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Chlorobromomethane	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Chloroethane	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Chloroform	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Chloromethane	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
cis-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
cis-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Chlorodibromomethane	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Dibromomethane	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Dichlorobromomethane	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1

Client Sample ID: DG-S15S-3.5-4
Date Collected: 01/11/19 08:32
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Ethylbenzene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Hexachlorobutadiene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Isopropylbenzene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Methylene Chloride	ND		6.4	3.2	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Methyl tert-butyl ether	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Naphthalene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
n-Butylbenzene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
N-Propylbenzene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
sec-Butylbenzene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Styrene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
tert-Butylbenzene	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Tetrachloroethene	**6.2**		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Toluene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
trans-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
trans-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Trichloroethene	**3.5**		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Trichlorofluoromethane	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	3.2	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Vinyl acetate	ND		5.1	2.5	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Vinyl chloride	ND		1.3	0.64	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Xylenes, Total	ND		1.3	0.83	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
Ethylene Dibromide	ND		0.64	0.32	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
2-Butanone (MEK)	ND		6.4	3.2	ug/Kg		01/11/19 15:30	01/18/19 03:53	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/11/19 15:30	01/18/19 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*114*		*79 - 123*	*01/11/19 15:30*	*01/18/19 03:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/11/19 15:30*	*01/18/19 03:53*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**42**		9.8	4.9	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Acenaphthylene	**3.0**	**J**	4.9	2.3	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Anthracene	**5.0**		4.9	2.0	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Benzo[a]anthracene	**7.8**		4.9	1.5	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Benzo[a]pyrene	**6.3**		4.9	1.9	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Benzo[b]fluoranthene	**57**		4.9	2.1	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Benzo[g,h,i]perylene	**9.7**		4.9	4.2	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Benzo[k]fluoranthene	**6.7**		4.9	2.1	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Chrysene	**74**		4.9	1.4	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Dibenz(a,h)anthracene	**4.5**	**J**	4.9	3.4	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Fluoranthene	**41**		4.9	1.4	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Fluorene	**11**		4.9	2.1	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Indeno[1,2,3-cd]pyrene	**7.0**		4.9	4.1	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Naphthalene	**100**		4.9	3.4	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Phenanthrene	**280**		4.9	1.8	ug/Kg		01/17/19 14:27	01/24/19 23:52	1
Pyrene	**28**		4.9	1.7	ug/Kg		01/17/19 14:27	01/24/19 23:52	1

Client Sample ID: DG-S15S-3.5-4

Date Collected: 01/11/19 08:32
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-6

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		33 - 120	01/17/19 14:27	01/24/19 23:52	1
Terphenyl-d14	123		35 - 146	01/17/19 14:27	01/24/19 23:52	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		2.0	0.74	mg/Kg		01/23/19 14:13	01/25/19 13:37	1
Motor Oil Range Organics [C24-C36]	33	J	49	9.8	mg/Kg		01/23/19 14:13	01/25/19 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	83		40 - 130	01/23/19 14:13	01/25/19 13:37	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Aldrin	ND		1.9	0.48	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Endrin	ND		1.9	0.44	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/22/19 12:29	01/25/19 14:22	1
Toxaphene	ND		38	6.5	ug/Kg		01/22/19 12:29	01/25/19 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		21 - 136	01/22/19 12:29	01/25/19 14:22	1
Tetrachloro-m-xylene	85		21 - 145	01/22/19 12:29	01/25/19 14:22	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 18:18	1
Aroclor 1221	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 18:18	1
Aroclor 1232	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 18:18	1
Aroclor 1242	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 18:18	1
Aroclor 1248	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 18:18	1
Aroclor 1254	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 18:18	1
Aroclor 1260	ND		49	17	ug/Kg		01/18/19 10:14	01/22/19 18:18	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DG-S15S-3.5-4
Date Collected: 01/11/19 08:32
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-6
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*01/18/19 10:14*	*01/22/19 18:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.7**		1.6	0.26	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Arsenic	**8.0**		3.1	0.27	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Barium	**74**	**B**	1.6	0.22	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Beryllium	**0.50**		0.31	0.10	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Cadmium	ND		0.39	0.039	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Chromium	**74**		1.6	0.17	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Cobalt	**17**		0.63	0.063	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Copper	**53**	**^**	4.7	2.2	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Lead	**37**	**B ^**	1.8	0.38	mg/Kg		01/16/19 12:02	01/17/19 13:53	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Nickel	**81**	**B**	1.6	0.16	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Selenium	**1.1**	**J**	3.1	0.47	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Silver	ND		0.78	0.16	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Thallium	ND		1.6	0.45	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Vanadium	**54**		1.6	0.21	mg/Kg		01/12/19 11:08	01/14/19 19:50	4
Zinc	**93**		5.4	2.3	mg/Kg		01/16/19 12:02	01/17/19 13:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.016	0.0023	mg/Kg		01/17/19 19:40	01/18/19 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.6**		0.1	0.05	%			01/14/19 09:39	1

Client Sample ID: DG-S15S-6-6.5
Date Collected: 01/11/19 08:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-7
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	3200		78	54	ug/Kg		01/13/19 11:22	01/17/19 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*90*		*60 - 120*	*01/13/19 11:22*	*01/17/19 02:22*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/13/19 11:22*	*01/17/19 02:22*	*1*
Toluene-d8 (Surr)	*116*		*79 - 123*	*01/13/19 11:22*	*01/17/19 02:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Benzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Bromoform	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Chloroform	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1

Client Sample ID: DG-S15S-6-6.5
Date Collected: 01/11/19 08:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Styrene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Toluene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Trichloroethene	**0.43**	**J**	0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/13/19 11:22	01/17/19 02:22	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		01/13/19 11:22	01/17/19 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*116*		*79 - 123*	*01/13/19 11:22*	*01/17/19 02:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*01/13/19 11:22*	*01/17/19 02:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	99	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Acenaphthene	ND		99	55	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Acenaphthylene	ND		99	47	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Anthracene	ND		99	40	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Benzo[a]anthracene	ND		99	30	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Benzo[a]pyrene	ND		99	38	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Benzo[b]fluoranthene	ND		99	42	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Benzo[g,h,i]perylene	ND		99	85	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Benzo[k]fluoranthene	ND		99	42	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Chrysene	**67**	**J**	99	28	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Dibenz(a,h)anthracene	ND		99	69	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Fluoranthene	ND		99	28	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Fluorene	ND		99	44	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Indeno[1,2,3-cd]pyrene	ND		99	83	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Naphthalene	ND		99	69	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Phenanthrene	**240**		99	36	ug/Kg		01/17/19 14:27	01/25/19 20:19	20
Pyrene	**120**		99	34	ug/Kg		01/17/19 14:27	01/25/19 20:19	20

Client Sample ID: DG-S15S-6-6.5

Date Collected: 01/11/19 08:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*33 - 120*	*01/17/19 14:27*	*01/25/19 20:19*	*20*
Terphenyl-d14	*102*		*35 - 146*	*01/17/19 14:27*	*01/25/19 20:19*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1500		20	7.4	mg/Kg		01/22/19 13:55	01/25/19 16:04	10
Motor Oil Range Organics [C24-C36]	1400		490	98	mg/Kg		01/22/19 13:55	01/25/19 16:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/22/19 13:55*	*01/25/19 16:04*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.96	J	1.9	0.31	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Arsenic	12		3.7	0.32	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Barium	660	B	1.9	0.27	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Beryllium	0.64		0.37	0.12	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Cadmium	0.14	J	0.47	0.046	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Chromium	30		1.9	0.20	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Cobalt	7.1		0.75	0.075	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Copper	6400	^	5.6	2.7	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Lead	190	B ^	1.6	0.33	mg/Kg		01/16/19 12:02	01/17/19 13:58	4
Molybdenum	1.4	J	1.9	0.24	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Nickel	27	B	1.9	0.19	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Selenium	0.72	J	3.7	0.56	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Silver	3.0		0.93	0.19	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Thallium	0.62	J	1.9	0.54	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Vanadium	48		1.9	0.25	mg/Kg		01/12/19 11:08	01/14/19 19:55	4
Zinc	110		4.8	2.0	mg/Kg		01/16/19 12:02	01/17/19 13:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.68		0.017	0.0025	mg/Kg		01/17/19 19:40	01/18/19 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	48.1		0.1	0.05	%			01/14/19 09:39	1

Client Sample ID: DUP-107

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	49	ug/Kg		01/11/19 18:00	01/18/19 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/11/19 18:00*	*01/18/19 11:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/11/19 18:00*	*01/18/19 11:14*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*01/11/19 18:00*	*01/18/19 11:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,1,1-Trichloroethane	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,1,2-Trichloroethane	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,1-Dichloroethane	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,1-Dichloropropene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,2,4-Trichlorobenzene	ND		3.5	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,2-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,2-Dichloroethane	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,2-Dichloropropane	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,3-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,3-Dichloropropane	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,4-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
2-Hexanone	ND		7.1	3.5	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
4-Isopropyltoluene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Benzene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Bromoform	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Chlorobenzene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Chloroform	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
cis-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
cis-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Chlorodibromomethane	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Dibromomethane	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Dichlorobromomethane	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1

Client Sample ID: DUP-107

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-8

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Ethylbenzene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Isopropylbenzene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Methylene Chloride	ND		7.1	3.5	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
N-Propylbenzene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Styrene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Tetrachloroethene	**3.3**		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Toluene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
trans-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
trans-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Trichloroethene	**2.7**		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.5	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Xylenes, Total	ND		1.4	0.92	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
Ethylene Dibromide	ND		0.71	0.35	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
2-Butanone (MEK)	ND		7.1	3.5	ug/Kg		01/11/19 18:00	01/18/19 11:14	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		01/11/19 18:00	01/18/19 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*79 - 123*	*01/11/19 18:00*	*01/18/19 11:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*01/11/19 18:00*	*01/18/19 11:14*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**140**		9.8	4.9	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Acenaphthene	**3.8**	**J**	4.9	2.7	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Acenaphthylene	**2.4**	**J**	4.9	2.4	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Anthracene	**6.3**		4.9	2.0	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Benzo[a]anthracene	**10**		4.9	1.5	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Benzo[a]pyrene	**8.4**		4.9	1.9	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Benzo[b]fluoranthene	**36**		4.9	2.1	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Benzo[g,h,i]perylene	**9.7**		4.9	4.2	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Benzo[k]fluoranthene	**3.7**	**J**	4.9	2.1	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Chrysene	**37**		4.9	1.4	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Dibenz(a,h)anthracene	**3.5**	**J**	4.9	3.4	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Fluoranthene	**24**		4.9	1.4	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Fluorene	**37**		4.9	2.2	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Indeno[1,2,3-cd]pyrene	**5.1**		4.9	4.1	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Naphthalene	**89**		4.9	3.4	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Phenanthrene	**140**		4.9	1.8	ug/Kg		01/17/19 14:27	01/25/19 00:15	1
Pyrene	**27**		4.9	1.7	ug/Kg		01/17/19 14:27	01/25/19 00:15	1

Client Sample ID: DUP-107

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-8

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		33 - 120	01/17/19 14:27	01/25/19 00:15	1
Terphenyl-d14	124		35 - 146	01/17/19 14:27	01/25/19 00:15	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16		2.0	0.73	mg/Kg		01/22/19 13:55	01/25/19 13:37	1
Motor Oil Range Organics [C24-C36]	41	J	49	9.8	mg/Kg		01/22/19 13:55	01/25/19 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	109		40 - 130	01/22/19 13:55	01/25/19 13:37	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Aldrin	ND		1.9	0.49	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Endosulfan II	ND		1.9	0.48	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Endrin	ND		1.9	0.45	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/22/19 12:29	01/25/19 14:39	1
Toxaphene	ND		39	6.6	ug/Kg		01/22/19 12:29	01/25/19 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		21 - 136	01/22/19 12:29	01/25/19 14:39	1
Tetrachloro-m-xylene	91		21 - 145	01/22/19 12:29	01/25/19 14:39	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 18:31	1
Aroclor 1221	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 18:31	1
Aroclor 1232	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 18:31	1
Aroclor 1242	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 18:31	1
Aroclor 1248	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 18:31	1
Aroclor 1254	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 18:31	1
Aroclor 1260	ND		50	17	ug/Kg		01/18/19 10:14	01/22/19 18:31	1

Client Sample ID: DUP-107

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*45 - 120*	*01/18/19 10:14*	*01/22/19 18:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.4**		1.4	0.24	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Arsenic	**8.6**		2.8	0.24	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Barium	**65**	**B**	1.4	0.20	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Beryllium	**0.52**		0.28	0.092	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Cadmium	ND		0.35	0.035	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Chromium	**71**		1.4	0.15	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Cobalt	**16**		0.57	0.057	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Copper	**59**	**^**	4.3	2.0	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Lead	**29**	**B ^**	1.5	0.31	mg/Kg		01/16/19 12:02	01/17/19 14:03	4
Molybdenum	**0.54**	**J**	1.4	0.18	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Nickel	**77**	**B**	1.4	0.14	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Selenium	**1.0**	**J**	2.8	0.43	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Silver	ND		0.71	0.14	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Thallium	**0.64**	**J**	1.4	0.41	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Vanadium	**57**		1.4	0.19	mg/Kg		01/12/19 11:08	01/14/19 20:00	4
Zinc	**80**		4.4	1.9	mg/Kg		01/16/19 12:02	01/17/19 14:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.014	0.0021	mg/Kg		01/17/19 19:40	01/18/19 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		0.1	0.05	%			01/14/19 09:39	1

Client Sample ID: DG-AW7S-0.5-1

Date Collected: 01/11/19 09:18
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/11/19 18:00	01/18/19 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/11/19 18:00*	*01/18/19 11:41*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/11/19 18:00*	*01/18/19 11:41*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*01/11/19 18:00*	*01/18/19 11:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,1,1-Trichloroethane	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,1,2-Trichloroethane	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,1-Dichloroethane	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,1-Dichloropropene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,2,4-Trichlorobenzene	ND		4.0	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,2-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,2-Dichloroethane	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,2-Dichloropropane	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,3-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,3-Dichloropropane	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,4-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
2-Hexanone	ND		7.9	4.0	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
4-Isopropyltoluene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Benzene	**0.47**	**J**	0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Bromoform	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Chlorobenzene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Chloroform	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
cis-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
cis-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Chlorodibromomethane	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Dibromomethane	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Dichlorobromomethane	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DG-AW7S-0.5-1
Date Collected: 01/11/19 09:18
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Ethylbenzene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Isopropylbenzene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Methylene Chloride	ND		7.9	4.0	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
N-Propylbenzene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Styrene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Tetrachloroethene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Toluene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
trans-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
trans-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Trichloroethene	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	4.0	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
Ethylene Dibromide	ND		0.79	0.40	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
2-Butanone (MEK)	ND		7.9	4.0	ug/Kg		01/11/19 18:00	01/18/19 11:41	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/11/19 18:00	01/18/19 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*79 - 123*	*01/11/19 18:00*	*01/18/19 11:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/11/19 18:00*	*01/18/19 11:41*	*1*

Client Sample ID: DG-AW7S-3.5-4

Date Collected: 01/11/19 09:20
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		88	62	ug/Kg		01/11/19 15:30	01/18/19 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*60 - 120*	*01/11/19 15:30*	*01/18/19 05:12*	*1*
4-Bromofluorobenzene (Surr)	*118*		*79 - 120*	*01/11/19 15:30*	*01/18/19 05:12*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*01/11/19 15:30*	*01/18/19 05:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
2-Hexanone	ND		8.8	4.4	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Benzene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Bromobenzene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Bromoform	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Bromomethane	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Chloroethane	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Chloroform	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Chloromethane	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Dibromomethane	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1

Client Sample ID: DG-AW7S-3.5-4
Date Collected: 01/11/19 09:20
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Naphthalene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Styrene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Tetrachloroethene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Toluene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Trichloroethene	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Vinyl acetate	ND		7.1	3.5	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Xylenes, Total	ND		1.8	1.1	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		01/11/19 15:30	01/18/19 05:12	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/11/19 15:30	01/18/19 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*79 - 123*	*01/11/19 15:30*	*01/18/19 05:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/11/19 15:30*	*01/18/19 05:12*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TOL (79-123)	DCA (70-130)								
720-90698-A-34-B MS	Matrix Spike	105	102								
720-90698-A-34-C MSD	Matrix Spike Duplicate	107	97								
720-90732-1	DG-Q15S-0.5-1	108	98								
720-90732-2	DG-Q15S-3.5-4	110	98								
720-90732-3	DG-Q15S-7.5-8	119	100								
720-90732-4	DUP-106	116	94								
720-90732-5	DG-S15S-0.5-1	117	115								
720-90732-6	DG-S15S-3.5-4	114	103								
720-90732-7	DG-S15S-6-6.5	116	90								
720-90732-8	DUP-107	108	100								
720-90732-9	DG-AW7S-0.5-1	109	106								
720-90732-10	DG-AW7S-3.5-4	110	107								
LCS 440-522911/5	Lab Control Sample	113	98								
LCS 440-523259/14	Lab Control Sample	100	98								
LCS 440-523322/5	Lab Control Sample	100	99								
LCSD 440-522911/6	Lab Control Sample Dup	112	94								
LCSD 440-523322/14	Lab Control Sample Dup	100	101								
MB 440-522911/4	Method Blank	117	93								
MB 440-523259/4	Method Blank	108	100								
MB 440-523322/4	Method Blank	107	99								

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DBFM (60-120)	BFB (79-120)	TOL (79-123)							
720-90698-A-34-B MS	Matrix Spike	105	101	105							
720-90698-A-34-C MSD	Matrix Spike Duplicate	106	112	107							
720-90732-1	DG-Q15S-0.5-1	105	106	108							
720-90732-2	DG-Q15S-3.5-4	105	112	110							
720-90732-3	DG-Q15S-7.5-8	103	110	119							
720-90732-4	DUP-106	107	121 X	116							
720-90732-5	DG-S15S-0.5-1	113	120	117							
720-90732-6	DG-S15S-3.5-4	109	115	114							
720-90732-7	DG-S15S-6-6.5	90	99	116							
720-90732-8	DUP-107	106	105	108							
720-90732-9	DG-AW7S-0.5-1	108	105	109							
720-90732-10	DG-AW7S-3.5-4	93	118	110							
LCS 440-522912/7	Lab Control Sample	100	104	116							
LCS 440-523260/15	Lab Control Sample	103	100	106							
LCS 440-523323/6	Lab Control Sample	104	100	107							
LCSD 440-522912/8	Lab Control Sample Dup	97	104	118							
LCSD 440-523323/15	Lab Control Sample Dup	104	102	108							
MB 440-522912/4	Method Blank	98	111	117							

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
MB 440-523260/4	Method Blank	104	99	108
MB 440-523323/4	Method Blank	104	100	107

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-90732-1	DG-Q15S-0.5-1	88	101
720-90732-2	DG-Q15S-3.5-4	68	82
720-90732-2 MS	DG-Q15S-3.5-4	69	104
720-90732-2 MSD	DG-Q15S-3.5-4	75	145
720-90732-3	DG-Q15S-7.5-8	94	118
720-90732-4	DUP-106	83	101
720-90732-5	DG-S15S-0.5-1	95	110
720-90732-6	DG-S15S-3.5-4	101	123
720-90732-7	DG-S15S-6-6.5	83	102
720-90732-8	DUP-107	92	124
LCS 720-258711/2-A	Lab Control Sample	66	85
MB 720-258711/1-A	Method Blank	70	88

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPH1
Lab Sample ID	Client Sample ID	(40-130)
720-90732-1	DG-Q15S-0.5-1	0 X D
720-90732-2	DG-Q15S-3.5-4	91
720-90732-3	DG-Q15S-7.5-8	101
720-90732-4	DUP-106	0 X D
720-90732-5	DG-S15S-0.5-1	0 X D
720-90732-6	DG-S15S-3.5-4	83
720-90732-7	DG-S15S-6-6.5	0 X D
720-90732-8	DUP-107	109
720-90888-A-7-E MS	Matrix Spike	96
720-90888-A-7-F MSD	Matrix Spike Duplicate	92
720-90911-D-21-C MS	Matrix Spike	103
720-90911-D-21-D MSD	Matrix Spike Duplicate	108
LCS 720-258963/2-A	Lab Control Sample	109

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TPH1	
Lab Sample ID	Client Sample ID	(40-130)	
LCS 720-259042/2-A	Lab Control Sample	113	
MB 720-258963/1-A	Method Blank	109	
MB 720-259042/1-A	Method Blank	108	

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCBP1	TCX2	
Lab Sample ID	Client Sample ID	(21-136)	(21-145)	
720-90698-E-31-G MS	Matrix Spike	85	68	
720-90732-5	DG-S15S-0.5-1	90	72	
LCS 720-258691/2-A	Lab Control Sample	131	91	
LCS 720-258953/2-A	Lab Control Sample	81	88	
MB 720-258691/1-A	Method Blank	118	85	
MB 720-258953/1-A	Method Blank	85	89	

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCBP2	TCX1	
Lab Sample ID	Client Sample ID	(21-136)	(21-145)	
720-90698-E-31-H MSD	Matrix Spike Duplicate	118	106	
720-90732-2	DG-Q15S-3.5-4	86	87	
720-90732-6	DG-S15S-3.5-4	93	85	
720-90732-8	DUP-107	78	91	
720-90913-A-1-D MS	Matrix Spike	113 p	88	
720-90913-A-1-E MSD	Matrix Spike Duplicate	104 p	96	

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCBP1	TCX1	
Lab Sample ID	Client Sample ID	(21-136)	(21-145)	
720-90732-1	DG-Q15S-0.5-1	59	85	
720-90732-3	DG-Q15S-7.5-8	76	77	
720-90732-4	DUP-106	78	70	

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DCB2 (45-120)						
440-230050-A-1-A MS	Matrix Spike	64						
440-230050-A-1-B MSD	Matrix Spike Duplicate	63						
720-90732-1	DG-Q15S-0.5-1	58						
720-90732-2	DG-Q15S-3.5-4	62						
720-90732-3	DG-Q15S-7.5-8	49						
720-90732-4	DUP-106	53						
720-90732-4 MS	DUP-106	66						
720-90732-4 MSD	DUP-106	59						
720-90732-5	DG-S15S-0.5-1	52						
720-90732-6	DG-S15S-3.5-4	65						
720-90732-8	DUP-107	62						
LCS 440-523007/2-A	Lab Control Sample	82						
LCS 440-523387/2-A	Lab Control Sample	87						
MB 440-523007/1-A	Method Blank	86						
MB 440-523387/1-A	Method Blank	91						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-522911/4
Matrix: Solid
Analysis Batch: 522911

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/16/19 21:37	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/16/19 21:37	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/16/19 21:37	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/16/19 21:37	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
2-Hexanone	ND		10	5.0	ug/Kg			01/16/19 21:37	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Benzene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Bromoform	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/16/19 21:37	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Chloroform	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/16/19 21:37	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-522911/4
Matrix: Solid
Analysis Batch: 522911

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Styrene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Toluene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/16/19 21:37	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/16/19 21:37	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/16/19 21:37	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/16/19 21:37	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/16/19 21:37	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/16/19 21:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/16/19 21:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*117*		*79 - 123*		*01/16/19 21:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*01/16/19 21:37*	*1*

Lab Sample ID: LCS 440-522911/5
Matrix: Solid
Analysis Batch: 522911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	47.9		ug/Kg		96	60 - 135
1,1,1,2-Tetrachloroethane	50.0	50.8		ug/Kg		102	70 - 130
1,1,1-Trichloroethane	50.0	44.4		ug/Kg		89	65 - 135
1,1,2,2-Tetrachloroethane	50.0	53.6		ug/Kg		107	55 - 140
1,1,2-Trichloroethane	50.0	58.5		ug/Kg		117	65 - 135
1,1-Dichloroethane	50.0	50.1		ug/Kg		100	70 - 130
1,1-Dichloroethene	50.0	56.9		ug/Kg		114	70 - 125
1,1-Dichloropropene	50.0	52.9		ug/Kg		106	70 - 130
1,2,3-Trichlorobenzene	50.0	46.0		ug/Kg		92	60 - 130
1,2,4-Trichlorobenzene	50.0	46.8		ug/Kg		94	70 - 135
1,2,4-Trimethylbenzene	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.0		ug/Kg		88	50 - 135
1,2-Dichlorobenzene	50.0	51.6		ug/Kg		103	75 - 120
1,2-Dichloroethane	50.0	44.7		ug/Kg		89	60 - 140
1,2-Dichloropropane	50.0	56.4		ug/Kg		113	70 - 130
1,3,5-Trimethylbenzene	50.0	49.2		ug/Kg		98	70 - 125
1,3-Dichlorobenzene	50.0	50.8		ug/Kg		102	75 - 125
1,3-Dichloropropane	50.0	55.6		ug/Kg		111	70 - 125
1,4-Dichlorobenzene	50.0	52.5		ug/Kg		105	75 - 120
2,2-Dichloropropane	50.0	45.0		ug/Kg		90	60 - 145
2-Chlorotoluene	50.0	48.7		ug/Kg		97	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522911/5
Matrix: Solid
Analysis Batch: 522911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	50.0	48.5		ug/Kg		97	40 - 150
4-Chlorotoluene	50.0	49.0		ug/Kg		98	75 - 125
4-Isopropyltoluene	50.0	49.2		ug/Kg		98	75 - 125
Benzene	50.0	54.9		ug/Kg		110	65 - 120
Bromobenzene	50.0	54.4		ug/Kg		109	75 - 120
Bromoform	50.0	49.8		ug/Kg		100	55 - 135
Bromomethane	50.0	50.7		ug/Kg		101	60 - 145
Carbon disulfide	50.0	54.6		ug/Kg		109	50 - 130
Carbon tetrachloride	50.0	45.4		ug/Kg		91	65 - 140
Chlorobenzene	50.0	52.7		ug/Kg		105	75 - 120
Chlorobromomethane	50.0	49.4		ug/Kg		99	70 - 135
Chloroethane	50.0	55.4		ug/Kg		111	60 - 140
Chloroform	50.0	47.0		ug/Kg		94	70 - 130
Chloromethane	50.0	45.7		ug/Kg		91	45 - 145
cis-1,2-Dichloroethene	50.0	52.8		ug/Kg		106	70 - 125
cis-1,3-Dichloropropene	50.0	59.4		ug/Kg		119	75 - 125
Chlorodibromomethane	50.0	50.9		ug/Kg		102	65 - 140
Dibromomethane	50.0	53.1		ug/Kg		106	70 - 130
Dichlorobromomethane	50.0	47.6		ug/Kg		95	70 - 135
Dichlorodifluoromethane	50.0	38.1		ug/Kg		76	35 - 160
Ethylbenzene	50.0	52.8		ug/Kg		106	70 - 125
Hexachlorobutadiene	50.0	41.7		ug/Kg		83	60 - 135
Isopropylbenzene	50.0	51.6		ug/Kg		103	75 - 130
m-Xylene & p-Xylene	50.0	55.4		ug/Kg		111	70 - 125
Methylene Chloride	50.0	52.3		ug/Kg		105	55 - 135
Methyl tert-butyl ether	50.0	48.8		ug/Kg		98	60 - 140
Naphthalene	50.0	47.6		ug/Kg		95	55 - 135
n-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 130
N-Propylbenzene	50.0	52.1		ug/Kg		104	70 - 130
o-Xylene	50.0	53.4		ug/Kg		107	70 - 125
sec-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 125
Styrene	50.0	51.3		ug/Kg		103	75 - 130
tert-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 125
Tetrachloroethene	50.0	56.9		ug/Kg		114	70 - 125
Toluene	50.0	55.8		ug/Kg		112	70 - 125
trans-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	70 - 125
trans-1,3-Dichloropropene	50.0	53.9		ug/Kg		108	70 - 135
Trichloroethene	50.0	53.0		ug/Kg		106	70 - 125
Trichlorofluoromethane	50.0	42.0		ug/Kg		84	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.1		ug/Kg		100	60 - 140
Vinyl acetate	50.0	51.4		ug/Kg		103	45 - 145
Vinyl chloride	50.0	51.5		ug/Kg		103	55 - 135
Ethylene Dibromide	50.0	53.7		ug/Kg		107	70 - 130
2-Butanone (MEK)	50.0	55.1		ug/Kg		110	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	57.4		ug/Kg		115	40 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-522911/5
Matrix: Solid
Analysis Batch: 522911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*113*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 440-522911/6
Matrix: Solid
Analysis Batch: 522911

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane			50.0	47.4		ug/Kg		95	60 - 135	1	25
1,1,1,2-Tetrachloroethane			50.0	48.9		ug/Kg		98	70 - 130	4	20
1,1,1-Trichloroethane			50.0	42.8		ug/Kg		86	65 - 135	4	20
1,1,2,2-Tetrachloroethane			50.0	54.3		ug/Kg		109	55 - 140	1	30
1,1,2-Trichloroethane			50.0	57.0		ug/Kg		114	65 - 135	3	20
1,1-Dichloroethane			50.0	48.8		ug/Kg		98	70 - 130	3	20
1,1-Dichloroethene			50.0	55.7		ug/Kg		111	70 - 125	2	20
1,1-Dichloropropene			50.0	50.2		ug/Kg		100	70 - 130	5	20
1,2,3-Trichlorobenzene			50.0	48.8		ug/Kg		98	60 - 130	6	20
1,2,4-Trichlorobenzene			50.0	48.8		ug/Kg		98	70 - 135	4	20
1,2,4-Trimethylbenzene			50.0	48.4		ug/Kg		97	70 - 125	1	20
1,2-Dibromo-3-Chloropropane			50.0	43.0		ug/Kg		86	50 - 135	2	30
1,2-Dichlorobenzene			50.0	53.3		ug/Kg		107	75 - 120	3	20
1,2-Dichloroethane			50.0	43.7		ug/Kg		87	60 - 140	2	20
1,2-Dichloropropane			50.0	55.1		ug/Kg		110	70 - 130	2	20
1,3,5-Trimethylbenzene			50.0	49.0		ug/Kg		98	70 - 125	0	20
1,3-Dichlorobenzene			50.0	50.9		ug/Kg		102	75 - 125	0	20
1,3-Dichloropropane			50.0	52.3		ug/Kg		105	70 - 125	6	20
1,4-Dichlorobenzene			50.0	51.2		ug/Kg		102	75 - 120	3	20
2,2-Dichloropropane			50.0	43.5		ug/Kg		87	60 - 145	3	20
2-Chlorotoluene			50.0	48.2		ug/Kg		96	70 - 125	1	20
2-Hexanone			50.0	45.3		ug/Kg		91	40 - 150	7	35
4-Chlorotoluene			50.0	48.8		ug/Kg		98	75 - 125	0	20
4-Isopropyltoluene			50.0	48.8		ug/Kg		98	75 - 125	1	20
Benzene			50.0	52.6		ug/Kg		105	65 - 120	4	20
Bromobenzene			50.0	56.3		ug/Kg		113	75 - 120	4	20
Bromoform			50.0	47.1		ug/Kg		94	55 - 135	5	25
Bromomethane			50.0	48.5		ug/Kg		97	60 - 145	4	20
Carbon disulfide			50.0	52.9		ug/Kg		106	50 - 130	3	20
Carbon tetrachloride			50.0	43.5		ug/Kg		87	65 - 140	4	20
Chlorobenzene			50.0	50.8		ug/Kg		102	75 - 120	4	20
Chlorobromomethane			50.0	51.0		ug/Kg		102	70 - 135	3	20
Chloroethane			50.0	51.6		ug/Kg		103	60 - 140	7	25
Chloroform			50.0	45.4		ug/Kg		91	70 - 130	3	20
Chloromethane			50.0	44.7		ug/Kg		89	45 - 145	2	25
cis-1,2-Dichloroethene			50.0	51.9		ug/Kg		104	70 - 125	2	20
cis-1,3-Dichloropropene			50.0	56.3		ug/Kg		113	75 - 125	5	20
Chlorodibromomethane			50.0	50.1		ug/Kg		100	65 - 140	2	20
Dibromomethane			50.0	51.2		ug/Kg		102	70 - 130	3	20
Dichlorobromomethane			50.0	45.9		ug/Kg		92	70 - 135	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-522911/6
Matrix: Solid
Analysis Batch: 522911

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			50.0	38.0		ug/Kg		76	35 - 160	0	30
Ethylbenzene			50.0	49.5		ug/Kg		99	70 - 125	6	20
Hexachlorobutadiene			50.0	44.0		ug/Kg		88	60 - 135	5	20
Isopropylbenzene			50.0	48.2		ug/Kg		96	75 - 130	7	20
m-Xylene & p-Xylene			50.0	51.8		ug/Kg		104	70 - 125	7	20
Methylene Chloride			50.0	52.5		ug/Kg		105	55 - 135	0	20
Methyl tert-butyl ether			50.0	46.8		ug/Kg		94	60 - 140	4	25
Naphthalene			50.0	47.8		ug/Kg		96	55 - 135	0	25
n-Butylbenzene			50.0	49.3		ug/Kg		99	70 - 130	2	20
N-Propylbenzene			50.0	52.4		ug/Kg		105	70 - 130	0	20
o-Xylene			50.0	50.5		ug/Kg		101	70 - 125	6	20
sec-Butylbenzene			50.0	48.5		ug/Kg		97	70 - 125	2	20
Styrene			50.0	48.4		ug/Kg		97	75 - 130	6	20
tert-Butylbenzene			50.0	48.1		ug/Kg		96	70 - 125	0	20
Tetrachloroethene			50.0	55.1		ug/Kg		110	70 - 125	3	20
Toluene			50.0	53.6		ug/Kg		107	70 - 125	4	20
trans-1,2-Dichloroethene			50.0	54.6		ug/Kg		109	70 - 125	0	20
trans-1,3-Dichloropropene			50.0	51.7		ug/Kg		103	70 - 135	4	20
Trichloroethene			50.0	51.0		ug/Kg		102	70 - 125	4	20
Trichlorofluoromethane			50.0	39.9		ug/Kg		80	60 - 145	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.4		ug/Kg		97	60 - 140	3	40
Vinyl acetate			50.0	50.0		ug/Kg		100	45 - 145	3	20
Vinyl chloride			50.0	49.3		ug/Kg		99	55 - 135	4	25
Ethylene Dibromide			50.0	52.0		ug/Kg		104	70 - 130	3	20
2-Butanone (MEK)			50.0	51.1		ug/Kg		102	40 - 145	8	35
4-Methyl-2-pentanone (MIBK)			50.0	51.9		ug/Kg		104	40 - 145	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*112*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*

Lab Sample ID: 720-90698-A-34-B MS
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		72.0	88.1		ug/Kg		122	50 - 150
1,1,1,2-Tetrachloroethane	ND	F2	72.0	79.2		ug/Kg		110	65 - 145
1,1,1-Trichloroethane	ND		72.0	80.0		ug/Kg		111	65 - 145
1,1,2,2-Tetrachloroethane	ND		72.0	83.6		ug/Kg		116	40 - 160
1,1,2-Trichloroethane	ND		72.0	84.5		ug/Kg		117	65 - 140
1,1-Dichloroethane	ND		72.0	76.1		ug/Kg		106	65 - 135
1,1-Dichloroethene	ND		72.0	80.9		ug/Kg		112	65 - 135
1,1-Dichloropropene	ND		72.0	77.6		ug/Kg		108	65 - 135
1,2,3-Trichlorobenzene	ND		72.0	68.2		ug/Kg		95	45 - 145
1,2,4-Trichlorobenzene	ND		72.0	70.6		ug/Kg		98	50 - 140
1,2,4-Trimethylbenzene	ND	F2	72.0	72.1		ug/Kg		100	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-A-34-B MS
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		72.0	82.7		ug/Kg		115	40 - 150
1,2-Dichlorobenzene	ND		72.0	77.1		ug/Kg		107	70 - 130
1,2-Dichloroethane	ND		72.0	80.7		ug/Kg		112	60 - 150
1,2-Dichloropropane	ND		72.0	79.2		ug/Kg		110	65 - 130
1,3,5-Trimethylbenzene	ND	F2	72.0	72.4		ug/Kg		101	65 - 135
1,3-Dichlorobenzene	ND		72.0	76.9		ug/Kg		107	70 - 130
1,3-Dichloropropane	ND		72.0	81.5		ug/Kg		113	65 - 140
1,4-Dichlorobenzene	ND		72.0	73.4		ug/Kg		102	70 - 130
2,2-Dichloropropane	ND		72.0	76.9		ug/Kg		107	65 - 150
2-Chlorotoluene	ND	F2	72.0	73.2		ug/Kg		102	60 - 135
2-Hexanone	ND		72.0	72.0		ug/Kg		100	35 - 160
4-Chlorotoluene	ND	F2	72.0	73.1		ug/Kg		101	65 - 135
4-Isopropyltoluene	ND		72.0	72.3		ug/Kg		100	60 - 140
Benzene	ND		72.0	76.6		ug/Kg		106	65 - 130
Bromobenzene	ND	F2	72.0	78.6		ug/Kg		109	65 - 140
Bromoform	ND		72.0	82.6		ug/Kg		115	50 - 145
Bromomethane	ND		72.0	73.7		ug/Kg		102	60 - 155
Carbon disulfide	ND		72.0	77.1		ug/Kg		107	40 - 140
Carbon tetrachloride	ND		72.0	77.1		ug/Kg		107	60 - 145
Chlorobenzene	ND		72.0	77.0		ug/Kg		107	70 - 130
Chlorobromomethane	ND		72.0	88.5		ug/Kg		123	65 - 145
Chloroethane	ND		72.0	68.0		ug/Kg		94	60 - 150
Chloroform	ND		72.0	78.1		ug/Kg		108	65 - 135
Chloromethane	ND		72.0	64.7		ug/Kg		90	40 - 145
cis-1,2-Dichloroethene	ND		72.0	84.0		ug/Kg		117	65 - 135
cis-1,3-Dichloropropene	ND		72.0	85.0		ug/Kg		118	70 - 135
Chlorodibromomethane	ND		72.0	84.7		ug/Kg		118	60 - 145
Dibromomethane	ND		72.0	82.9		ug/Kg		115	65 - 140
Dichlorobromomethane	ND		72.0	79.8		ug/Kg		111	65 - 145
Dichlorodifluoromethane	ND		72.0	68.2		ug/Kg		95	30 - 160
Ethylbenzene	ND		72.0	72.2		ug/Kg		100	70 - 135
Hexachlorobutadiene	ND		72.0	61.7		ug/Kg		86	50 - 145
Isopropylbenzene	ND		72.0	72.9		ug/Kg		101	70 - 145
m-Xylene & p-Xylene	ND		72.0	72.3		ug/Kg		100	70 - 130
Methylene Chloride	ND		72.0	79.0		ug/Kg		110	55 - 145
Methyl tert-butyl ether	ND		72.0	87.2		ug/Kg		121	55 - 155
Naphthalene	ND		72.0	78.9		ug/Kg		110	40 - 150
n-Butylbenzene	ND		72.0	67.5		ug/Kg		94	55 - 145
N-Propylbenzene	ND	F2	72.0	71.2		ug/Kg		99	65 - 140
o-Xylene	ND		72.0	76.8		ug/Kg		107	65 - 130
sec-Butylbenzene	ND		72.0	70.4		ug/Kg		98	60 - 135
Styrene	ND		72.0	67.4		ug/Kg		94	70 - 140
tert-Butylbenzene	ND	F2	72.0	72.9		ug/Kg		101	60 - 140
Tetrachloroethene	ND		72.0	78.0		ug/Kg		108	65 - 135
Toluene	ND	F2	72.0	75.5		ug/Kg		105	70 - 130
trans-1,2-Dichloroethene	ND		72.0	77.5		ug/Kg		108	70 - 135
trans-1,3-Dichloropropene	ND		72.0	80.0		ug/Kg		111	60 - 145
Trichloroethene	ND		72.0	78.6		ug/Kg		109	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-A-34-B MS
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		72.0	72.4		ug/Kg		100	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		72.0	81.1		ug/Kg		113	60 - 140
Vinyl acetate	ND		72.0	32.5		ug/Kg		45	40 - 150
Vinyl chloride	ND		72.0	61.8		ug/Kg		86	55 - 140
Ethylene Dibromide	ND		72.0	81.2		ug/Kg		113	65 - 140
2-Butanone (MEK)	ND		72.0	79.2		ug/Kg		110	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		72.0	73.9		ug/Kg		103	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*

Lab Sample ID: 720-90698-A-34-C MSD
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		86.2	108		ug/Kg		125	50 - 150	20	30
1,1,1,2-Tetrachloroethane	ND	F2	86.2	99.4	F4	ug/Kg		115	65 - 145	23	20
1,1,1-Trichloroethane	ND		86.2	96.6		ug/Kg		112	65 - 145	19	20
1,1,2,2-Tetrachloroethane	ND		86.2	102		ug/Kg		119	40 - 160	20	30
1,1,2-Trichloroethane	ND		86.2	95.3		ug/Kg		111	65 - 140	12	30
1,1-Dichloroethane	ND		86.2	93.0		ug/Kg		108	65 - 135	20	25
1,1-Dichloroethene	ND		86.2	96.4		ug/Kg		112	65 - 135	17	25
1,1-Dichloropropene	ND		86.2	90.4		ug/Kg		105	65 - 135	15	20
1,2,3-Trichlorobenzene	ND		86.2	69.3		ug/Kg		80	45 - 145	2	30
1,2,4-Trichlorobenzene	ND		86.2	74.1		ug/Kg		86	50 - 140	5	30
1,2,4-Trimethylbenzene	ND	F2	86.2	95.8	F4	ug/Kg		111	65 - 140	28	25
1,2-Dibromo-3-Chloropropane	ND		86.2	97.0		ug/Kg		113	40 - 150	16	30
1,2-Dichlorobenzene	ND		86.2	96.8		ug/Kg		112	70 - 130	23	25
1,2-Dichloroethane	ND		86.2	88.4		ug/Kg		103	60 - 150	9	25
1,2-Dichloropropane	ND		86.2	94.1		ug/Kg		109	65 - 130	17	20
1,3,5-Trimethylbenzene	ND	F2	86.2	98.0	F4	ug/Kg		114	65 - 135	30	25
1,3-Dichlorobenzene	ND		86.2	94.1		ug/Kg		109	70 - 130	20	25
1,3-Dichloropropane	ND		86.2	94.4		ug/Kg		110	65 - 140	15	25
1,4-Dichlorobenzene	ND		86.2	92.4		ug/Kg		107	70 - 130	23	25
2,2-Dichloropropane	ND		86.2	96.2		ug/Kg		112	65 - 150	22	25
2-Chlorotoluene	ND	F2	86.2	97.9	F4	ug/Kg		114	60 - 135	29	25
2-Hexanone	ND		86.2	73.3		ug/Kg		85	35 - 160	2	40
4-Chlorotoluene	ND	F2	86.2	94.8	F4	ug/Kg		110	65 - 135	26	25
4-Isopropyltoluene	ND		86.2	92.8		ug/Kg		108	60 - 140	25	25
Benzene	ND		86.2	92.1		ug/Kg		107	65 - 130	18	20
Bromobenzene	ND	F2	86.2	103	F4	ug/Kg		119	65 - 140	27	25
Bromoform	ND		86.2	89.3		ug/Kg		104	50 - 145	8	30
Bromomethane	ND		86.2	88.2		ug/Kg		102	60 - 155	18	25
Carbon disulfide	ND		86.2	85.2		ug/Kg		99	40 - 140	10	20
Carbon tetrachloride	ND		86.2	93.8		ug/Kg		109	60 - 145	20	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90698-A-34-C MSD
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	ND		86.2	90.7		ug/Kg		105	70 - 130	16	25
Chlorobromomethane	ND		86.2	99.0		ug/Kg		115	65 - 145	11	25
Chloroethane	ND		86.2	84.7		ug/Kg		98	60 - 150	22	25
Chloroform	ND		86.2	94.4		ug/Kg		109	65 - 135	19	20
Chloromethane	ND		86.2	79.1		ug/Kg		92	40 - 145	20	25
cis-1,2-Dichloroethene	ND		86.2	98.1		ug/Kg		114	65 - 135	15	25
cis-1,3-Dichloropropene	ND		86.2	100		ug/Kg		116	70 - 135	17	25
Chlorodibromomethane	ND		86.2	98.3		ug/Kg		114	60 - 145	15	25
Dibromomethane	ND		86.2	87.9		ug/Kg		102	65 - 140	6	25
Dichlorobromomethane	ND		86.2	92.5		ug/Kg		107	65 - 145	15	20
Dichlorodifluoromethane	ND		86.2	83.6		ug/Kg		97	30 - 160	20	35
Ethylbenzene	ND		86.2	88.8		ug/Kg		103	70 - 135	21	25
Hexachlorobutadiene	ND		86.2	54.7		ug/Kg		63	50 - 145	12	35
Isopropylbenzene	ND		86.2	86.7		ug/Kg		101	70 - 145	17	25
m-Xylene & p-Xylene	ND		86.2	88.3		ug/Kg		102	70 - 130	20	25
Methylene Chloride	ND		86.2	92.0		ug/Kg		107	55 - 145	15	25
Methyl tert-butyl ether	ND		86.2	97.4		ug/Kg		113	55 - 155	11	35
Naphthalene	ND		86.2	84.4		ug/Kg		98	40 - 150	7	40
n-Butylbenzene	ND		86.2	77.2		ug/Kg		90	55 - 145	13	30
N-Propylbenzene	ND	F2	86.2	94.7	F4	ug/Kg		110	65 - 140	28	25
o-Xylene	ND		86.2	93.5		ug/Kg		108	65 - 130	20	25
sec-Butylbenzene	ND		86.2	89.0		ug/Kg		103	60 - 135	23	25
Styrene	ND		86.2	78.2		ug/Kg		91	70 - 140	15	25
tert-Butylbenzene	ND	F2	86.2	98.7	F4	ug/Kg		114	60 - 140	30	25
Tetrachloroethene	ND		86.2	92.2		ug/Kg		107	65 - 135	17	25
Toluene	ND	F2	86.2	94.0	F4	ug/Kg		109	70 - 130	22	20
trans-1,2-Dichloroethene	ND		86.2	89.5		ug/Kg		104	70 - 135	14	25
trans-1,3-Dichloropropene	ND		86.2	89.7		ug/Kg		104	60 - 145	11	25
Trichloroethene	ND		86.2	91.8		ug/Kg		107	65 - 140	16	25
Trichlorofluoromethane	ND		86.2	86.7		ug/Kg		101	55 - 155	18	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		86.2	95.8		ug/Kg		111	60 - 140	17	40
Vinyl acetate	ND		86.2	36.1		ug/Kg		42	40 - 150	11	30
Vinyl chloride	ND		86.2	77.9		ug/Kg		90	55 - 140	23	30
Ethylene Dibromide	ND		86.2	90.5		ug/Kg		105	65 - 140	11	25
2-Butanone (MEK)	ND		86.2	79.4		ug/Kg		92	25 - 170	0	40
4-Methyl-2-pentanone (MIBK)	ND		86.2	77.2		ug/Kg		90	40 - 155	4	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 440-523259/4
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/17/19 20:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523259/4
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/17/19 20:50	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/17/19 20:50	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/17/19 20:50	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
2-Hexanone	ND		10	5.0	ug/Kg			01/17/19 20:50	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Benzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Bromoform	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/17/19 20:50	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Chloroform	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/17/19 20:50	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523259/4
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Styrene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Toluene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/17/19 20:50	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/17/19 20:50	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/17/19 20:50	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/17/19 20:50	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/17/19 20:50	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/17/19 20:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/17/19 20:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*79 - 123*		*01/17/19 20:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/17/19 20:50*	*1*

Lab Sample ID: LCS 440-523259/14
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	50.8		ug/Kg		102	60 - 135
1,1,1,2-Tetrachloroethane	50.0	52.4		ug/Kg		105	70 - 130
1,1,1-Trichloroethane	50.0	55.1		ug/Kg		110	65 - 135
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/Kg		99	55 - 140
1,1,2-Trichloroethane	50.0	49.8		ug/Kg		100	65 - 135
1,1-Dichloroethane	50.0	52.0		ug/Kg		104	70 - 130
1,1-Dichloroethene	50.0	55.7		ug/Kg		111	70 - 125
1,1-Dichloropropene	50.0	54.2		ug/Kg		108	70 - 130
1,2,3-Trichlorobenzene	50.0	49.6		ug/Kg		99	60 - 130
1,2,4-Trichlorobenzene	50.0	52.6		ug/Kg		105	70 - 135
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/Kg		97	50 - 135
1,2-Dichlorobenzene	50.0	53.2		ug/Kg		106	75 - 120
1,2-Dichloroethane	50.0	51.7		ug/Kg		103	60 - 140
1,2-Dichloropropane	50.0	53.8		ug/Kg		108	70 - 130
1,3,5-Trimethylbenzene	50.0	51.2		ug/Kg		102	70 - 125
1,3-Dichlorobenzene	50.0	53.5		ug/Kg		107	75 - 125
1,3-Dichloropropane	50.0	50.3		ug/Kg		101	70 - 125
1,4-Dichlorobenzene	50.0	52.5		ug/Kg		105	75 - 120
2,2-Dichloropropane	50.0	56.0		ug/Kg		112	60 - 145
2-Chlorotoluene	50.0	50.7		ug/Kg		101	70 - 125
2-Hexanone	50.0	40.6		ug/Kg		81	40 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523259/14
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	50.4		ug/Kg		101	75 - 125
4-Isopropyltoluene	50.0	51.8		ug/Kg		104	75 - 125
Benzene	50.0	52.9		ug/Kg		106	65 - 120
Bromobenzene	50.0	52.7		ug/Kg		105	75 - 120
Bromoform	50.0	50.0		ug/Kg		100	55 - 135
Bromomethane	50.0	49.7		ug/Kg		99	60 - 145
Carbon disulfide	50.0	53.5		ug/Kg		107	50 - 130
Carbon tetrachloride	50.0	54.1		ug/Kg		108	65 - 140
Chlorobenzene	50.0	51.3		ug/Kg		103	75 - 120
Chlorobromomethane	50.0	57.7		ug/Kg		115	70 - 135
Chloroethane	50.0	46.4		ug/Kg		93	60 - 140
Chloroform	50.0	53.8		ug/Kg		108	70 - 130
Chloromethane	50.0	43.5		ug/Kg		87	45 - 145
cis-1,2-Dichloroethene	50.0	58.3		ug/Kg		117	70 - 125
cis-1,3-Dichloropropene	50.0	54.5		ug/Kg		109	75 - 125
Chlorodibromomethane	50.0	53.3		ug/Kg		107	65 - 140
Dibromomethane	50.0	52.4		ug/Kg		105	70 - 130
Dichlorobromomethane	50.0	53.9		ug/Kg		108	70 - 135
Dichlorodifluoromethane	50.0	45.9		ug/Kg		92	35 - 160
Ethylbenzene	50.0	49.8		ug/Kg		100	70 - 125
Hexachlorobutadiene	50.0	49.6		ug/Kg		99	60 - 135
Isopropylbenzene	50.0	50.4		ug/Kg		101	75 - 130
m-Xylene & p-Xylene	50.0	50.5		ug/Kg		101	70 - 125
Methylene Chloride	50.0	53.5		ug/Kg		107	55 - 135
Methyl tert-butyl ether	50.0	55.2		ug/Kg		110	60 - 140
Naphthalene	50.0	51.4		ug/Kg		103	55 - 135
n-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 130
N-Propylbenzene	50.0	50.1		ug/Kg		100	70 - 130
o-Xylene	50.0	51.9		ug/Kg		104	70 - 125
sec-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 125
Styrene	50.0	45.5		ug/Kg		91	75 - 130
tert-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 125
Tetrachloroethene	50.0	54.8		ug/Kg		110	70 - 125
Toluene	50.0	50.0		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	54.1		ug/Kg		108	70 - 125
trans-1,3-Dichloropropene	50.0	51.9		ug/Kg		104	70 - 135
Trichloroethene	50.0	56.0		ug/Kg		112	70 - 125
Trichlorofluoromethane	50.0	48.5		ug/Kg		97	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.7		ug/Kg		111	60 - 140
Vinyl acetate	50.0	47.0		ug/Kg		94	45 - 145
Vinyl chloride	50.0	42.9		ug/Kg		86	55 - 135
Ethylene Dibromide	50.0	50.9		ug/Kg		102	70 - 130
2-Butanone (MEK)	50.0	50.9		ug/Kg		102	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	40.7		ug/Kg		81	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523259/14
Matrix: Solid
Analysis Batch: 523259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 440-523322/4
Matrix: Solid
Analysis Batch: 523322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/18/19 08:28	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/18/19 08:28	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/18/19 08:28	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/18/19 08:28	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
2-Hexanone	ND		10	5.0	ug/Kg			01/18/19 08:28	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Benzene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Bromoform	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/18/19 08:28	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Chloroform	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-523322/4
Matrix: Solid
Analysis Batch: 523322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/18/19 08:28	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Styrene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Toluene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/18/19 08:28	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/18/19 08:28	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/18/19 08:28	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/18/19 08:28	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/18/19 08:28	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/18/19 08:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/18/19 08:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*79 - 123*		*01/18/19 08:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*01/18/19 08:28*	*1*

Lab Sample ID: LCS 440-523322/5
Matrix: Solid
Analysis Batch: 523322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	52.4		ug/Kg		105	60 - 135
1,1,1,2-Tetrachloroethane	50.0	55.0		ug/Kg		110	70 - 130
1,1,1-Trichloroethane	50.0	57.6		ug/Kg		115	65 - 135
1,1,2,2-Tetrachloroethane	50.0	48.8		ug/Kg		98	55 - 140
1,1,2-Trichloroethane	50.0	52.7		ug/Kg		105	65 - 135
1,1-Dichloroethane	50.0	53.4		ug/Kg		107	70 - 130
1,1-Dichloroethene	50.0	55.2		ug/Kg		110	70 - 125
1,1-Dichloropropene	50.0	56.3		ug/Kg		113	70 - 130
1,2,3-Trichlorobenzene	50.0	51.8		ug/Kg		104	60 - 130
1,2,4-Trichlorobenzene	50.0	55.0		ug/Kg		110	70 - 135
1,2,4-Trimethylbenzene	50.0	52.2		ug/Kg		104	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/Kg		95	50 - 135
1,2-Dichlorobenzene	50.0	54.6		ug/Kg		109	75 - 120
1,2-Dichloroethane	50.0	54.6		ug/Kg		109	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523322/5
Matrix: Solid
Analysis Batch: 523322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	55.2		ug/Kg		110	70 - 130
1,3,5-Trimethylbenzene	50.0	52.8		ug/Kg		106	70 - 125
1,3-Dichlorobenzene	50.0	55.1		ug/Kg		110	75 - 125
1,3-Dichloropropane	50.0	52.2		ug/Kg		104	70 - 125
1,4-Dichlorobenzene	50.0	54.9		ug/Kg		110	75 - 120
2,2-Dichloropropane	50.0	57.2		ug/Kg		114	60 - 145
2-Chlorotoluene	50.0	52.3		ug/Kg		105	70 - 125
2-Hexanone	50.0	42.0		ug/Kg		84	40 - 150
4-Chlorotoluene	50.0	52.7		ug/Kg		105	75 - 125
4-Isopropyltoluene	50.0	53.7		ug/Kg		107	75 - 125
Benzene	50.0	54.0		ug/Kg		108	65 - 120
Bromobenzene	50.0	54.8		ug/Kg		110	75 - 120
Bromoform	50.0	51.9		ug/Kg		104	55 - 135
Bromomethane	50.0	47.9		ug/Kg		96	60 - 145
Carbon disulfide	50.0	51.7		ug/Kg		103	50 - 130
Carbon tetrachloride	50.0	56.3		ug/Kg		113	65 - 140
Chlorobenzene	50.0	55.0		ug/Kg		110	75 - 120
Chlorobromomethane	50.0	58.9		ug/Kg		118	70 - 135
Chloroethane	50.0	45.4		ug/Kg		91	60 - 140
Chloroform	50.0	56.7		ug/Kg		113	70 - 130
Chloromethane	50.0	41.1		ug/Kg		82	45 - 145
cis-1,2-Dichloroethene	50.0	59.6		ug/Kg		119	70 - 125
cis-1,3-Dichloropropene	50.0	57.8		ug/Kg		116	75 - 125
Chlorodibromomethane	50.0	55.0		ug/Kg		110	65 - 140
Dibromomethane	50.0	55.2		ug/Kg		110	70 - 130
Dichlorobromomethane	50.0	56.8		ug/Kg		114	70 - 135
Dichlorodifluoromethane	50.0	44.4		ug/Kg		89	35 - 160
Ethylbenzene	50.0	52.6		ug/Kg		105	70 - 125
Hexachlorobutadiene	50.0	51.8		ug/Kg		104	60 - 135
Isopropylbenzene	50.0	53.6		ug/Kg		107	75 - 130
m-Xylene & p-Xylene	50.0	52.6		ug/Kg		105	70 - 125
Methylene Chloride	50.0	54.6		ug/Kg		109	55 - 135
Methyl tert-butyl ether	50.0	55.3		ug/Kg		111	60 - 140
Naphthalene	50.0	52.4		ug/Kg		105	55 - 135
n-Butylbenzene	50.0	51.9		ug/Kg		104	70 - 130
N-Propylbenzene	50.0	52.5		ug/Kg		105	70 - 130
o-Xylene	50.0	55.2		ug/Kg		110	70 - 125
sec-Butylbenzene	50.0	51.9		ug/Kg		104	70 - 125
Styrene	50.0	48.7		ug/Kg		97	75 - 130
tert-Butylbenzene	50.0	52.3		ug/Kg		105	70 - 125
Tetrachloroethene	50.0	56.4		ug/Kg		113	70 - 125
Toluene	50.0	52.9		ug/Kg		106	70 - 125
trans-1,2-Dichloroethene	50.0	56.3		ug/Kg		113	70 - 125
trans-1,3-Dichloropropene	50.0	53.4		ug/Kg		107	70 - 135
Trichloroethene	50.0	58.1		ug/Kg		116	70 - 125
Trichlorofluoromethane	50.0	49.4		ug/Kg		99	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.5		ug/Kg		111	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-523322/5
Matrix: Solid
Analysis Batch: 523322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	50.0	49.7		ug/Kg		99	45 - 145
Vinyl chloride	50.0	40.7		ug/Kg		81	55 - 135
Ethylene Dibromide	50.0	52.5		ug/Kg		105	70 - 130
2-Butanone (MEK)	50.0	48.4		ug/Kg		97	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	42.6		ug/Kg		85	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 440-523322/14
Matrix: Solid
Analysis Batch: 523322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	50.0	54.6		ug/Kg		109	60 - 135	4	25
1,1,1,2-Tetrachloroethane	50.0	55.0		ug/Kg		110	70 - 130	0	20
1,1,1-Trichloroethane	50.0	57.0		ug/Kg		114	65 - 135	1	20
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	55 - 140	2	30
1,1,2-Trichloroethane	50.0	52.9		ug/Kg		106	65 - 135	0	20
1,1-Dichloroethane	50.0	53.3		ug/Kg		107	70 - 130	0	20
1,1-Dichloroethene	50.0	54.2		ug/Kg		108	70 - 125	2	20
1,1-Dichloropropene	50.0	55.8		ug/Kg		112	70 - 130	1	20
1,2,3-Trichlorobenzene	50.0	47.5		ug/Kg		95	60 - 130	9	20
1,2,4-Trichlorobenzene	50.0	51.1		ug/Kg		102	70 - 135	7	20
1,2,4-Trimethylbenzene	50.0	52.5		ug/Kg		105	70 - 125	1	20
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/Kg		97	50 - 135	3	30
1,2-Dichlorobenzene	50.0	54.1		ug/Kg		108	75 - 120	1	20
1,2-Dichloroethane	50.0	55.1		ug/Kg		110	60 - 140	1	20
1,2-Dichloropropane	50.0	54.7		ug/Kg		109	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	53.2		ug/Kg		106	70 - 125	1	20
1,3-Dichlorobenzene	50.0	54.3		ug/Kg		109	75 - 125	1	20
1,3-Dichloropropane	50.0	51.9		ug/Kg		104	70 - 125	1	20
1,4-Dichlorobenzene	50.0	53.3		ug/Kg		107	75 - 120	3	20
2,2-Dichloropropane	50.0	55.4		ug/Kg		111	60 - 145	3	20
2-Chlorotoluene	50.0	53.4		ug/Kg		107	70 - 125	2	20
2-Hexanone	50.0	42.9		ug/Kg		86	40 - 150	2	35
4-Chlorotoluene	50.0	52.6		ug/Kg		105	75 - 125	0	20
4-Isopropyltoluene	50.0	53.3		ug/Kg		107	75 - 125	1	20
Benzene	50.0	53.0		ug/Kg		106	65 - 120	2	20
Bromobenzene	50.0	56.0		ug/Kg		112	75 - 120	2	20
Bromoform	50.0	51.9		ug/Kg		104	55 - 135	0	25
Bromomethane	50.0	47.1		ug/Kg		94	60 - 145	2	20
Carbon disulfide	50.0	51.7		ug/Kg		103	50 - 130	0	20
Carbon tetrachloride	50.0	56.0		ug/Kg		112	65 - 140	0	20
Chlorobenzene	50.0	53.8		ug/Kg		108	75 - 120	2	20
Chlorobromomethane	50.0	57.3		ug/Kg		115	70 - 135	3	20
Chloroethane	50.0	44.9		ug/Kg		90	60 - 140	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-523322/14
Matrix: Solid
Analysis Batch: 523322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform			50.0	56.1		ug/Kg		112	70 - 130	1	20
Chloromethane			50.0	43.0		ug/Kg		86	45 - 145	5	25
cis-1,2-Dichloroethene			50.0	59.3		ug/Kg		119	70 - 125	0	20
cis-1,3-Dichloropropene			50.0	54.7		ug/Kg		109	75 - 125	6	20
Chlorodibromomethane			50.0	54.8		ug/Kg		110	65 - 140	0	20
Dibromomethane			50.0	57.1		ug/Kg		114	70 - 130	3	20
Dichlorobromomethane			50.0	55.7		ug/Kg		111	70 - 135	2	20
Dichlorodifluoromethane			50.0	44.0		ug/Kg		88	35 - 160	1	30
Ethylbenzene			50.0	52.0		ug/Kg		104	70 - 125	1	20
Hexachlorobutadiene			50.0	50.1		ug/Kg		100	60 - 135	3	20
Isopropylbenzene			50.0	52.8		ug/Kg		106	75 - 130	2	20
m-Xylene & p-Xylene			50.0	52.6		ug/Kg		105	70 - 125	0	20
Methylene Chloride			50.0	54.2		ug/Kg		108	55 - 135	1	20
Methyl tert-butyl ether			50.0	54.0		ug/Kg		108	60 - 140	2	25
Naphthalene			50.0	51.4		ug/Kg		103	55 - 135	2	25
n-Butylbenzene			50.0	49.9		ug/Kg		100	70 - 130	4	20
N-Propylbenzene			50.0	51.9		ug/Kg		104	70 - 130	1	20
o-Xylene			50.0	54.0		ug/Kg		108	70 - 125	2	20
sec-Butylbenzene			50.0	51.2		ug/Kg		102	70 - 125	1	20
Styrene			50.0	47.9		ug/Kg		96	75 - 130	2	20
tert-Butylbenzene			50.0	53.0		ug/Kg		106	70 - 125	1	20
Tetrachloroethene			50.0	54.5		ug/Kg		109	70 - 125	3	20
Toluene			50.0	51.7		ug/Kg		103	70 - 125	2	20
trans-1,2-Dichloroethene			50.0	54.3		ug/Kg		109	70 - 125	4	20
trans-1,3-Dichloropropene			50.0	52.4		ug/Kg		105	70 - 135	2	20
Trichloroethene			50.0	58.4		ug/Kg		117	70 - 125	1	20
Trichlorofluoromethane			50.0	48.9		ug/Kg		98	60 - 145	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	54.6		ug/Kg		109	60 - 140	2	40
Vinyl acetate			50.0	48.2		ug/Kg		96	45 - 145	3	20
Vinyl chloride			50.0	41.2		ug/Kg		82	55 - 135	1	25
Ethylene Dibromide			50.0	50.2		ug/Kg		100	70 - 130	4	20
2-Butanone (MEK)			50.0	46.4		ug/Kg		93	40 - 145	4	35
4-Methyl-2-pentanone (MIBK)			50.0	43.7		ug/Kg		87	40 - 145	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-522912/4
Matrix: Solid
Analysis Batch: 522912

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/16/19 21:37	1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-522912/4
Matrix: Solid
Analysis Batch: 522912

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		60 - 120		01/16/19 21:37	1
4-Bromofluorobenzene (Surr)	111		79 - 120		01/16/19 21:37	1
Toluene-d8 (Surr)	117		79 - 123		01/16/19 21:37	1

Lab Sample ID: LCS 440-522912/7
Matrix: Solid
Analysis Batch: 522912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	809		ug/Kg		81	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	100		60 - 120
4-Bromofluorobenzene (Surr)	104		79 - 120
Toluene-d8 (Surr)	116		79 - 123

Lab Sample ID: LCSD 440-522912/8
Matrix: Solid
Analysis Batch: 522912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1000	794		ug/Kg		79	60 - 135	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	97		60 - 120
4-Bromofluorobenzene (Surr)	104		79 - 120
Toluene-d8 (Surr)	118		79 - 123

Lab Sample ID: 720-90698-A-34-B MS
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		4970	4740		ug/Kg		95	55 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	105		60 - 120
4-Bromofluorobenzene (Surr)	101		79 - 120
Toluene-d8 (Surr)	105		79 - 123

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90698-A-34-C MSD
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 523238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		5950	5070		ug/Kg		85	55 - 140	7	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*60 - 120*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: MB 440-523260/4
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/17/19 20:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*01/17/19 20:50*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*01/17/19 20:50*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*		*01/17/19 20:50*	*1*

Lab Sample ID: LCS 440-523260/15
Matrix: Solid
Analysis Batch: 523260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	1030		ug/Kg		103	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*106*		*79 - 123*

Lab Sample ID: MB 440-523323/4
Matrix: Solid
Analysis Batch: 523323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/18/19 08:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*01/18/19 08:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*		*01/18/19 08:28*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*01/18/19 08:28*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-523323/6
Matrix: Solid
Analysis Batch: 523323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	1090		ug/Kg		109	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*107*		*79 - 123*

Lab Sample ID: LCSD 440-523323/15
Matrix: Solid
Analysis Batch: 523323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	1060		ug/Kg		106	60 - 135	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*108*		*79 - 123*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-258711/1-A
Matrix: Solid
Analysis Batch: 258958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Anthracene	ND		5.0	2.0	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Chrysene	ND		5.0	1.4	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Fluorene	ND		5.0	2.2	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/17/19 14:27	01/22/19 14:39	1
Pyrene	ND		5.0	1.7	ug/Kg		01/17/19 14:27	01/22/19 14:39	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-258711/1-A
Matrix: Solid
Analysis Batch: 258958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258711

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		33 - 120	01/17/19 14:27	01/22/19 14:39	1
Terphenyl-d14	88		35 - 146	01/17/19 14:27	01/22/19 14:39	1

Lab Sample ID: LCS 720-258711/2-A
Matrix: Solid
Analysis Batch: 258958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	466		ug/Kg		70	46 - 110
Acenaphthene	667	497		ug/Kg		74	46 - 106
Acenaphthylene	667	498		ug/Kg		75	46 - 108
Anthracene	667	527		ug/Kg		79	55 - 103
Benzo[a]anthracene	667	501		ug/Kg		75	54 - 110
Benzo[a]pyrene	667	536		ug/Kg		80	62 - 111
Benzo[b]fluoranthene	667	515		ug/Kg		77	60 - 109
Benzo[g,h,i]perylene	667	511		ug/Kg		77	52 - 114
Benzo[k]fluoranthene	667	520		ug/Kg		78	58 - 109
Chrysene	667	557		ug/Kg		84	54 - 108
Dibenz(a,h)anthracene	667	547		ug/Kg		82	58 - 112
Fluoranthene	667	552		ug/Kg		83	59 - 109
Fluorene	667	512		ug/Kg		77	52 - 106
Indeno[1,2,3-cd]pyrene	667	549		ug/Kg		82	55 - 120
Naphthalene	667	465		ug/Kg		70	49 - 110
Phenanthrene	667	508		ug/Kg		76	57 - 110
Pyrene	667	500		ug/Kg		75	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	66		33 - 120
Terphenyl-d14	85		35 - 146

Lab Sample ID: 720-90732-2 MS
Matrix: Solid
Analysis Batch: 259001

Client Sample ID: DG-Q15S-3.5-4
Prep Type: Total/NA
Prep Batch: 258711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	89	F2 F1	655	490		ug/Kg		61	46 - 110
Acenaphthene	2.8	J	655	494		ug/Kg		75	46 - 106
Acenaphthylene	12		655	495		ug/Kg		74	46 - 108
Anthracene	8.8		655	488		ug/Kg		73	55 - 103
Benzo[a]anthracene	24		655	497		ug/Kg		72	54 - 110
Benzo[a]pyrene	33		655	549	*	ug/Kg		79	62 - 111
Benzo[b]fluoranthene	46	F1	655	729	*	ug/Kg		104	60 - 109
Benzo[g,h,i]perylene	35	F1	655	191	F1 *	ug/Kg		24	52 - 114
Benzo[k]fluoranthene	17	F1	655	646	*	ug/Kg		96	58 - 109
Chrysene	40		655	545		ug/Kg		77	54 - 108
Dibenz(a,h)anthracene	5.2	F1	655	220	F1 *	ug/Kg		33	58 - 112
Fluoranthene	56		655	598		ug/Kg		83	59 - 109
Fluorene	2.8	J	655	500		ug/Kg		76	52 - 106

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90732-2 MS
Matrix: Solid
Analysis Batch: 259001

Client Sample ID: DG-Q15S-3.5-4
Prep Type: Total/NA
Prep Batch: 258711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Indeno[1,2,3-cd]pyrene	24	F1	655	226	F1 *	ug/Kg		31	55 - 120
Naphthalene	74	F2	655	469		ug/Kg		60	49 - 110
Phenanthrene	44		655	535		ug/Kg		75	57 - 110
Pyrene	68	F1	655	696		ug/Kg		96	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*104*		*35 - 146*

Lab Sample ID: 720-90732-2 MSD
Matrix: Solid
Analysis Batch: 259001

Client Sample ID: DG-Q15S-3.5-4
Prep Type: Total/NA
Prep Batch: 258711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	89	F2 F1	655	892	F1 F2	ug/Kg		122	46 - 110	58	35
Acenaphthene	2.8	J	655	550		ug/Kg		83	46 - 106	11	35
Acenaphthylene	12		655	547		ug/Kg		82	46 - 108	10	35
Anthracene	8.8		655	566		ug/Kg		85	55 - 103	15	35
Benzo[a]anthracene	24		655	571		ug/Kg		83	54 - 110	14	35
Benzo[a]pyrene	33		655	664	*	ug/Kg		96	62 - 111	19	35
Benzo[b]fluoranthene	46	F1	655	849	F1 *	ug/Kg		122	60 - 109	15	35
Benzo[g,h,i]perylene	35	F1	655	160	* F1	ug/Kg		19	52 - 114	18	35
Benzo[k]fluoranthene	17	F1	655	740	F1 *	ug/Kg		110	58 - 109	14	35
Chrysene	40		655	648		ug/Kg		93	54 - 108	17	35
Dibenz(a,h)anthracene	5.2	F1	655	175	* F1	ug/Kg		26	58 - 112	23	35
Fluoranthene	56		655	643		ug/Kg		90	59 - 109	7	35
Fluorene	2.8	J	655	566		ug/Kg		86	52 - 106	12	35
Indeno[1,2,3-cd]pyrene	24	F1	655	177	* F1	ug/Kg		23	55 - 120	24	35
Naphthalene	74	F2	655	797	F2	ug/Kg		110	49 - 110	52	35
Phenanthrene	44		655	664		ug/Kg		95	57 - 110	21	35
Pyrene	68	F1	655	958	F1	ug/Kg		136	50 - 120	32	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*33 - 120*
Terphenyl-d14	*145*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-258963/1-A
Matrix: Solid
Analysis Batch: 259192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/22/19 13:55	01/25/19 09:07	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/22/19 13:55	01/25/19 09:07	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-258963/1-A
Matrix: Solid
Analysis Batch: 259192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258963

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	109		40 - 130	01/22/19 13:55	01/25/19 09:07	1

Lab Sample ID: LCS 720-258963/2-A
Matrix: Solid
Analysis Batch: 259192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258963

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	158		mg/Kg		95	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	109		40 - 130

Lab Sample ID: 720-90911-D-21-C MS
Matrix: Solid
Analysis Batch: 259193

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	1.9	J	165	150		mg/Kg		90	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	103		40 - 130

Lab Sample ID: 720-90911-D-21-D MSD
Matrix: Solid
Analysis Batch: 259193

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1.9	J	166	147		mg/Kg		87	50 - 150	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	108		40 - 130

Lab Sample ID: MB 720-259042/1-A
Matrix: Solid
Analysis Batch: 259009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/23/19 11:56	01/24/19 05:54	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/23/19 11:56	01/24/19 05:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	108		40 - 130	01/23/19 11:56	01/24/19 05:54	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-259042/2-A
Matrix: Solid
Analysis Batch: 259009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	168		mg/Kg		101	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*113*		*40 - 130*

Lab Sample ID: 720-90888-A-7-E MS
Matrix: Solid
Analysis Batch: 259011

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259042

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	36		166	178		mg/Kg		86	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*96*		*40 - 130*

Lab Sample ID: 720-90888-A-7-F MSD
Matrix: Solid
Analysis Batch: 259011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259042

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	36		166	192		mg/Kg		94	50 - 150	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*92*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-258691/1-A
Matrix: Solid
Analysis Batch: 259019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Aldrin	ND		2.0	0.50	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/17/19 09:42	01/23/19 17:12	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-258691/1-A
Matrix: Solid
Analysis Batch: 259019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endrin	ND		2.0	0.46	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/17/19 09:42	01/23/19 17:12	1
Toxaphene	ND		40	6.8	ug/Kg		01/17/19 09:42	01/23/19 17:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*118*		*21 - 136*	*01/17/19 09:42*	*01/23/19 17:12*	*1*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/17/19 09:42*	*01/23/19 17:12*	*1*

Lab Sample ID: LCS 720-258691/2-A
Matrix: Solid
Analysis Batch: 259019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	19.4		ug/Kg		116	75 - 128
4,4'-DDE	16.7	19.0		ug/Kg		114	76 - 126
4,4'-DDT	16.7	18.8		ug/Kg		113	63 - 127
Aldrin	16.7	16.6		ug/Kg		100	65 - 120
alpha-BHC	16.7	15.1		ug/Kg		91	46 - 122
alpha-Chlordane	16.7	18.7		ug/Kg		112	70 - 120
beta-BHC	16.7	18.3		ug/Kg		110	78 - 136
delta-BHC	16.7	14.1		ug/Kg		85	43 - 125
Dieldrin	16.7	18.7		ug/Kg		112	72 - 120
Endosulfan I	16.7	19.5		ug/Kg		117	62 - 120
Endosulfan II	16.7	20.0		ug/Kg		120	65 - 120
Endosulfan sulfate	16.7	19.4		ug/Kg		117	72 - 121
Endrin	16.7	19.8		ug/Kg		119	68 - 120
Endrin aldehyde	16.7	22.0	*	ug/Kg		132	68 - 120
Endrin ketone	16.7	19.7		ug/Kg		118	75 - 136
gamma-BHC (Lindane)	16.7	16.4		ug/Kg		98	72 - 120
gamma-Chlordane	16.7	18.4		ug/Kg		111	68 - 120
Heptachlor	16.7	17.1		ug/Kg		103	69 - 120
Heptachlor epoxide	16.7	18.3		ug/Kg		110	68 - 120
Methoxychlor	16.7	20.9		ug/Kg		125	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*131*		*21 - 136*
Tetrachloro-m-xylene	*91*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90698-E-31-G MS
Matrix: Solid
Analysis Batch: 259087

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	1.6	J F1 p	16.1	20.3		ug/Kg		116	40 - 120
4,4'-DDE	ND		16.1	15.8		ug/Kg		98	40 - 120
4,4'-DDT	ND		16.1	13.1		ug/Kg		81	17 - 144
Aldrin	ND		16.1	14.4		ug/Kg		89	53 - 120
alpha-BHC	ND		16.1	13.5		ug/Kg		84	40 - 120
alpha-Chlordane	ND		16.1	15.8		ug/Kg		98	40 - 120
beta-BHC	ND	F1	16.1	15.2		ug/Kg		94	40 - 120
delta-BHC	ND	F1 F2	16.1	13.3		ug/Kg		82	40 - 120
Dieldrin	ND		16.1	16.3		ug/Kg		101	46 - 130
Endosulfan I	ND		16.1	16.5		ug/Kg		102	40 - 120
Endosulfan II	ND	F1	16.1	17.5		ug/Kg		108	40 - 120
Endosulfan sulfate	ND		16.1	17.4		ug/Kg		108	40 - 120
Endrin	ND		16.1	17.6		ug/Kg		109	32 - 143
Endrin aldehyde	ND	* F1	16.1	19.1		ug/Kg		119	40 - 120
Endrin ketone	ND		16.1	19.3		ug/Kg		120	40 - 120
gamma-BHC (Lindane)	ND		16.1	16.3		ug/Kg		101	58 - 120
gamma-Chlordane	ND		16.1	13.2		ug/Kg		82	40 - 120
Heptachlor	ND	F1 F2	16.1	13.1		ug/Kg		81	52 - 120
Heptachlor epoxide	ND		16.1	16.4		ug/Kg		102	40 - 120
Methoxychlor	ND		16.1	15.3		ug/Kg		95	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*21 - 136*
Tetrachloro-m-xylene	*68*		*21 - 145*

Lab Sample ID: 720-90698-E-31-H MSD
Matrix: Solid
Analysis Batch: 259087

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	1.6	J F1 p	16.2	23.8	F1	ug/Kg		137	40 - 120	16	20
4,4'-DDE	ND		16.2	18.7		ug/Kg		116	40 - 120	17	20
4,4'-DDT	ND		16.2	14.4		ug/Kg		89	17 - 144	10	20
Aldrin	ND		16.2	16.5		ug/Kg		102	53 - 120	14	20
alpha-BHC	ND		16.2	16.9	F2	ug/Kg		105	40 - 120	22	20
alpha-Chlordane	ND		16.2	18.1		ug/Kg		112	40 - 120	14	20
beta-BHC	ND	F1	16.2	18.6		ug/Kg		115	40 - 120	20	20
delta-BHC	ND	F1 F2	16.2	15.4		ug/Kg		95	40 - 120	15	20
Dieldrin	ND		16.2	18.6		ug/Kg		115	46 - 130	13	20
Endosulfan I	ND		16.2	18.0		ug/Kg		111	40 - 120	8	20
Endosulfan II	ND	F1	16.2	19.2		ug/Kg		119	40 - 120	10	30
Endosulfan sulfate	ND		16.2	18.0		ug/Kg		111	40 - 120	3	20
Endrin	ND		16.2	18.6		ug/Kg		115	32 - 143	6	20
Endrin aldehyde	ND	* F1	16.2	20.3	F1	ug/Kg		126	40 - 120	6	20
Endrin ketone	ND		16.2	18.6		ug/Kg		115	40 - 120	4	20
gamma-BHC (Lindane)	ND		16.2	18.4		ug/Kg		114	58 - 120	12	20
gamma-Chlordane	ND		16.2	15.1		ug/Kg		93	40 - 120	14	20
Heptachlor	ND	F1 F2	16.2	16.9	F2	ug/Kg		105	52 - 120	25	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90698-E-31-H MSD
Matrix: Solid
Analysis Batch: 259087

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide	ND		16.2	17.3		ug/Kg		107	40 - 120	5	20
Methoxychlor	ND		16.2	16.8		ug/Kg		104	40 - 120	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*118*		*21 - 136*
Tetrachloro-m-xylene	*106*		*21 - 145*

Lab Sample ID: MB 720-258953/1-A
Matrix: Solid
Analysis Batch: 259211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Aldrin	ND		2.0	0.50	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Endrin	ND		2.0	0.46	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/22/19 12:29	01/25/19 11:17	1
Toxaphene	ND		40	6.8	ug/Kg		01/22/19 12:29	01/25/19 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*21 - 136*	*01/22/19 12:29*	*01/25/19 11:17*	*1*
Tetrachloro-m-xylene	*89*		*21 - 145*	*01/22/19 12:29*	*01/25/19 11:17*	*1*

Lab Sample ID: LCS 720-258953/2-A
Matrix: Solid
Analysis Batch: 259211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	15.7		ug/Kg		94	75 - 128
4,4'-DDE	16.7	15.2		ug/Kg		91	76 - 126
4,4'-DDT	16.7	14.4		ug/Kg		86	63 - 127

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-258953/2-A
Matrix: Solid
Analysis Batch: 259211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	14.0		ug/Kg		84	65 - 120
alpha-BHC	16.7	14.1		ug/Kg		85	46 - 122
alpha-Chlordane	16.7	15.0		ug/Kg		90	70 - 120
beta-BHC	16.7	16.9		ug/Kg		102	78 - 136
delta-BHC	16.7	16.2		ug/Kg		97	43 - 125
Dieldrin	16.7	14.9		ug/Kg		89	72 - 120
Endosulfan I	16.7	15.2		ug/Kg		91	62 - 120
Endosulfan II	16.7	15.7		ug/Kg		94	65 - 120
Endosulfan sulfate	16.7	15.8		ug/Kg		95	72 - 121
Endrin	16.7	15.6		ug/Kg		93	68 - 120
Endrin aldehyde	16.7	16.8		ug/Kg		101	68 - 120
Endrin ketone	16.7	15.5		ug/Kg		93	75 - 136
gamma-BHC (Lindane)	16.7	14.7		ug/Kg		88	72 - 120
gamma-Chlordane	16.7	15.0		ug/Kg		90	68 - 120
Heptachlor	16.7	14.5		ug/Kg		87	69 - 120
Heptachlor epoxide	16.7	15.0		ug/Kg		90	68 - 120
Methoxychlor	16.7	16.5		ug/Kg		99	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*21 - 136*
Tetrachloro-m-xylene	*88*		*21 - 145*

Lab Sample ID: 720-90913-A-1-D MS
Matrix: Solid
Analysis Batch: 259212

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.3	15.4		ug/Kg		95	40 - 120
4,4'-DDE	130	F2	16.3	42.6	4	ug/Kg		-557	40 - 120
4,4'-DDT	11		16.3	19.0		ug/Kg		47	17 - 144
Aldrin	ND		16.3	15.2		ug/Kg		93	53 - 120
alpha-BHC	ND		16.3	14.0		ug/Kg		86	40 - 120
alpha-Chlordane	ND		16.3	15.5		ug/Kg		95	40 - 120
beta-BHC	ND		16.3	16.8		ug/Kg		103	40 - 120
delta-BHC	ND		16.3	15.2		ug/Kg		93	40 - 120
Dieldrin	ND		16.3	14.9		ug/Kg		91	46 - 130
Endosulfan I	ND		16.3	15.8		ug/Kg		97	40 - 120
Endosulfan II	ND		16.3	16.5		ug/Kg		101	40 - 120
Endosulfan sulfate	ND		16.3	16.6		ug/Kg		102	40 - 120
Endrin	ND		16.3	17.0		ug/Kg		104	32 - 143
Endrin aldehyde	ND		16.3	18.0		ug/Kg		111	40 - 120
Endrin ketone	ND		16.3	16.6		ug/Kg		102	40 - 120
gamma-BHC (Lindane)	ND		16.3	14.2		ug/Kg		87	58 - 120
gamma-Chlordane	ND		16.3	15.0		ug/Kg		92	40 - 120
Heptachlor	ND		16.3	14.7		ug/Kg		90	52 - 120
Heptachlor epoxide	ND		16.3	15.7		ug/Kg		96	40 - 120
Methoxychlor	ND	F1	16.3	17.8		ug/Kg		109	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90913-A-1-D MS
Matrix: Solid
Analysis Batch: 259212

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258953

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	113	p	21 - 136
Tetrachloro-m-xylene	88		21 - 145

Lab Sample ID: 720-90913-A-1-E MSD
Matrix: Solid
Analysis Batch: 259212

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258953

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.4	15.8		ug/Kg		97	40 - 120	3	20
4,4'-DDE	130	F2	16.4	97.4	4 F2	ug/Kg		-221	40 - 120	78	20
4,4'-DDT	11		16.4	22.1		ug/Kg		67	17 - 144	15	20
Aldrin	ND		16.4	16.0		ug/Kg		98	53 - 120	5	20
alpha-BHC	ND		16.4	14.6		ug/Kg		89	40 - 120	4	20
alpha-Chlordane	ND		16.4	14.8		ug/Kg		91	40 - 120	4	20
beta-BHC	ND		16.4	17.4		ug/Kg		106	40 - 120	4	20
delta-BHC	ND		16.4	15.9		ug/Kg		97	40 - 120	4	20
Dieldrin	ND		16.4	14.9		ug/Kg		91	46 - 130	0	20
Endosulfan I	ND		16.4	16.4		ug/Kg		101	40 - 120	4	20
Endosulfan II	ND		16.4	17.0		ug/Kg		104	40 - 120	3	30
Endosulfan sulfate	ND		16.4	16.2		ug/Kg		99	40 - 120	3	20
Endrin	ND		16.4	16.9		ug/Kg		103	32 - 143	1	20
Endrin aldehyde	ND		16.4	17.2		ug/Kg		105	40 - 120	5	20
Endrin ketone	ND		16.4	16.1		ug/Kg		98	40 - 120	3	20
gamma-BHC (Lindane)	ND		16.4	14.8		ug/Kg		91	58 - 120	4	20
gamma-Chlordane	ND		16.4	15.3		ug/Kg		94	40 - 120	2	20
Heptachlor	ND		16.4	15.4		ug/Kg		94	52 - 120	5	20
Heptachlor epoxide	ND		16.4	16.5		ug/Kg		101	40 - 120	5	20
Methoxychlor	ND	F1	16.4	18.0		ug/Kg		110	40 - 120	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	104	p	21 - 136
Tetrachloro-m-xylene	96		21 - 145

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-523007/1-A
Matrix: Solid
Analysis Batch: 523164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 15:03	1
Aroclor 1221	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 15:03	1
Aroclor 1232	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 15:03	1
Aroclor 1242	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 15:03	1
Aroclor 1248	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 15:03	1
Aroclor 1254	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 15:03	1
Aroclor 1260	ND		50	17	ug/Kg		01/17/19 06:20	01/17/19 15:03	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-523007/1-A
Matrix: Solid
Analysis Batch: 523164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523007

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	86		45 - 120	01/17/19 06:20	01/17/19 15:03	1

Lab Sample ID: LCS 440-523007/2-A
Matrix: Solid
Analysis Batch: 523164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523007

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	205		ug/Kg		77	65 - 115		
Aroclor 1260			267	209		ug/Kg		78	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	82		45 - 120

Lab Sample ID: 440-230050-A-1-A MS
Matrix: Solid
Analysis Batch: 523164

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 523007

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		261	216		ug/Kg		83	50 - 120		
Aroclor 1260	ND		261	171		ug/Kg		65	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	64		45 - 120

Lab Sample ID: 440-230050-A-1-B MSD
Matrix: Solid
Analysis Batch: 523164

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 523007

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		262	216		ug/Kg		83	50 - 120	0	30
Aroclor 1260	ND		262	170		ug/Kg		65	50 - 125	0	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	63		45 - 120

Lab Sample ID: MB 440-523387/1-A
Matrix: Solid
Analysis Batch: 523655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/18/19 10:14	01/20/19 16:22	1
Aroclor 1221	ND		50	17	ug/Kg		01/18/19 10:14	01/20/19 16:22	1
Aroclor 1232	ND		50	17	ug/Kg		01/18/19 10:14	01/20/19 16:22	1
Aroclor 1242	ND		50	17	ug/Kg		01/18/19 10:14	01/20/19 16:22	1
Aroclor 1248	ND		50	17	ug/Kg		01/18/19 10:14	01/20/19 16:22	1
Aroclor 1254	ND		50	17	ug/Kg		01/18/19 10:14	01/20/19 16:22	1
Aroclor 1260	ND		50	17	ug/Kg		01/18/19 10:14	01/20/19 16:22	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-523387/1-A
Matrix: Solid
Analysis Batch: 523655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523387

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	91		45 - 120	01/18/19 10:14	01/20/19 16:22	1

Lab Sample ID: LCS 440-523387/2-A
Matrix: Solid
Analysis Batch: 523655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523387

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	220		ug/Kg		82	65 - 115		
Aroclor 1260			267	221		ug/Kg		83	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	87		45 - 120

Lab Sample ID: 720-90732-4 MS
Matrix: Solid
Analysis Batch: 524038

Client Sample ID: DUP-106
Prep Type: Total/NA
Prep Batch: 523387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		265	176		ug/Kg		66	50 - 120		
Aroclor 1260	ND		265	166		ug/Kg		62	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	66		45 - 120

Lab Sample ID: 720-90732-4 MSD
Matrix: Solid
Analysis Batch: 524038

Client Sample ID: DUP-106
Prep Type: Total/NA
Prep Batch: 523387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		264	157		ug/Kg		59	50 - 120	11	30
Aroclor 1260	ND		264	147		ug/Kg		56	50 - 125	12	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	59		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258411/1-A
Matrix: Solid
Analysis Batch: 258629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Arsenic	ND		1.0	0.085	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Barium	0.135	J	0.50	0.071	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Beryllium	ND		0.10	0.033	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Cadmium	ND		0.13	0.012	mg/Kg		01/12/19 11:08	01/14/19 17:56	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-258411/1-A
Matrix: Solid
Analysis Batch: 258629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.50	0.053	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Cobalt	ND		0.20	0.020	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Copper	ND		1.5	0.71	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Nickel	0.0702	J	0.50	0.051	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Selenium	ND		1.0	0.15	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Silver	ND		0.25	0.051	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Thallium	ND		0.50	0.15	mg/Kg		01/12/19 11:08	01/14/19 17:56	1
Vanadium	ND		0.50	0.068	mg/Kg		01/12/19 11:08	01/14/19 17:56	1

Lab Sample ID: LCS 720-258411/2-A
Matrix: Solid
Analysis Batch: 258629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.4		mg/Kg		93	80 - 120
Arsenic	50.0	46.7		mg/Kg		93	80 - 120
Barium	50.0	46.0		mg/Kg		92	80 - 120
Beryllium	50.0	45.0		mg/Kg		90	80 - 120
Cadmium	50.0	47.8		mg/Kg		96	80 - 120
Chromium	50.0	47.0		mg/Kg		94	80 - 120
Cobalt	50.0	48.3		mg/Kg		97	80 - 120
Copper	50.0	48.0		mg/Kg		96	80 - 120
Molybdenum	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Selenium	50.0	45.9		mg/Kg		92	80 - 120
Silver	25.0	22.6		mg/Kg		90	80 - 120
Thallium	50.0	48.2		mg/Kg		96	80 - 120
Vanadium	50.0	47.6		mg/Kg		95	80 - 120

Lab Sample ID: 720-90718-A-9-A MS
Matrix: Solid
Analysis Batch: 258629

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258411

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.0	J F1	37.9	12.9	F1	mg/Kg		31	75 - 125
Arsenic	4.7		37.9	43.3		mg/Kg		102	75 - 125
Barium	65	F1 B	37.9	109		mg/Kg		115	75 - 125
Beryllium	0.28	J	37.9	40.6		mg/Kg		106	75 - 125
Cadmium	0.14	J	37.9	40.8		mg/Kg		107	75 - 125
Chromium	51		37.9	91.3		mg/Kg		106	75 - 125
Cobalt	8.8		37.9	48.4		mg/Kg		104	75 - 125
Copper	33		37.9	72.8		mg/Kg		106	75 - 125
Molybdenum	0.49	J	37.9	37.6		mg/Kg		98	75 - 125
Nickel	40	B	37.9	79.1		mg/Kg		102	75 - 125
Selenium	0.51	J	37.9	39.2		mg/Kg		102	75 - 125
Silver	ND		18.9	20.1		mg/Kg		106	75 - 125
Thallium	0.74	J	37.9	40.3		mg/Kg		104	75 - 125
Vanadium	43		37.9	81.7		mg/Kg		101	75 - 125

Lab Sample ID: 720-90718-A-9-B MSD
Matrix: Solid
Analysis Batch: 258629

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258411

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.0	J F1	37.9	12.6	F1	mg/Kg		31	75 - 125	3	20
Arsenic	4.7		37.9	42.3		mg/Kg		99	75 - 125	2	20
Barium	65	F1 B	37.9	131	F1	mg/Kg		174	75 - 125	19	20
Beryllium	0.28	J	37.9	38.0		mg/Kg		100	75 - 125	7	20
Cadmium	0.14	J	37.9	37.3		mg/Kg		98	75 - 125	9	20
Chromium	51		37.9	90.6		mg/Kg		104	75 - 125	1	20
Cobalt	8.8		37.9	46.5		mg/Kg		99	75 - 125	4	20
Copper	33		37.9	67.2		mg/Kg		91	75 - 125	8	20
Molybdenum	0.49	J	37.9	36.3		mg/Kg		94	75 - 125	4	20
Nickel	40	B	37.9	75.6		mg/Kg		93	75 - 125	5	20
Selenium	0.51	J	37.9	36.1		mg/Kg		94	75 - 125	8	20
Silver	ND		18.9	18.3		mg/Kg		97	75 - 125	9	20
Thallium	0.74	J	37.9	37.4		mg/Kg		97	75 - 125	7	20
Vanadium	43		37.9	78.2		mg/Kg		92	75 - 125	4	20

Lab Sample ID: MB 720-258627/1-A
Matrix: Solid
Analysis Batch: 258716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.140	J	0.50	0.083	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Arsenic	0.0855	J	1.0	0.085	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Barium	0.0728	J	0.50	0.071	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Beryllium	ND		0.10	0.033	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Cadmium	0.0362	J	0.13	0.012	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Chromium	0.115	J	0.50	0.053	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Cobalt	0.0413	J	0.20	0.020	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Copper	ND		1.5	0.71	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Lead	0.333	J	0.50	0.11	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Nickel	0.0600	J	0.50	0.051	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Selenium	ND		1.0	0.15	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Silver	ND		0.25	0.051	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Thallium	ND		0.50	0.15	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Vanadium	0.0694	J	0.50	0.068	mg/Kg		01/16/19 12:02	01/17/19 12:28	1
Zinc	ND		1.5	0.64	mg/Kg		01/16/19 12:02	01/17/19 12:28	1

Lab Sample ID: LCS 720-258627/2-A
Matrix: Solid
Analysis Batch: 258716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.7		mg/Kg		97	80 - 120
Arsenic	50.0	48.8		mg/Kg		98	80 - 120
Barium	50.0	48.5		mg/Kg		97	80 - 120
Beryllium	50.0	47.1		mg/Kg		94	80 - 120
Cadmium	50.0	49.8		mg/Kg		100	80 - 120
Chromium	50.0	49.6		mg/Kg		99	80 - 120
Cobalt	50.0	50.5		mg/Kg		101	80 - 120
Copper	50.0	49.6		mg/Kg		99	80 - 120
Lead	50.0	50.8		mg/Kg		102	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-258627/2-A
Matrix: Solid
Analysis Batch: 258716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	50.0	49.7		mg/Kg		99	80 - 120
Nickel	50.0	50.1		mg/Kg		100	80 - 120
Selenium	50.0	48.4		mg/Kg		97	80 - 120
Silver	25.0	24.2		mg/Kg		97	80 - 120
Thallium	50.0	50.2		mg/Kg		100	80 - 120
Vanadium	50.0	49.7		mg/Kg		99	80 - 120
Zinc	50.0	48.7		mg/Kg		97	80 - 120

Lab Sample ID: 720-90718-A-9-K MS
Matrix: Solid
Analysis Batch: 258781

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.4	J B F1	43.1	11.6	F1	mg/Kg		24	75 - 125
Arsenic	4.4	B	43.1	43.9		mg/Kg		92	75 - 125
Barium	68	B F1 F2	43.1	108		mg/Kg		92	75 - 125
Beryllium	0.32	J	43.1	41.2		mg/Kg		95	75 - 125
Cadmium	0.21	J B	43.1	41.5		mg/Kg		96	75 - 125
Chromium	53	B	43.1	95.7		mg/Kg		98	75 - 125
Cobalt	9.4	B	43.1	50.6		mg/Kg		96	75 - 125
Copper	33		43.1	74.1		mg/Kg		96	75 - 125
Lead	43	B	43.1	95.7		mg/Kg		122	75 - 125
Molybdenum	0.44	J	43.1	37.4		mg/Kg		86	75 - 125
Nickel	43	B	43.1	84.4		mg/Kg		96	75 - 125
Selenium	1.1	J	43.1	41.2		mg/Kg		93	75 - 125
Silver	ND		21.6	19.4		mg/Kg		90	75 - 125
Thallium	0.55	J	43.1	41.6		mg/Kg		95	75 - 125
Vanadium	44	B	43.1	83.8		mg/Kg		92	75 - 125
Zinc	190	F2	43.1	187	4	mg/Kg		-3	75 - 125

Lab Sample ID: 720-90718-A-9-L MSD
Matrix: Solid
Analysis Batch: 258781

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.4	J B F1	43.1	11.5	F1	mg/Kg		24	75 - 125	1	20
Arsenic	4.4	B	43.1	44.9		mg/Kg		94	75 - 125	2	20
Barium	68	B F1 F2	43.1	148	F1 F2	mg/Kg		186	75 - 125	32	20
Beryllium	0.32	J	43.1	41.8		mg/Kg		96	75 - 125	1	20
Cadmium	0.21	J B	43.1	41.9		mg/Kg		97	75 - 125	1	20
Chromium	53	B	43.1	99.3		mg/Kg		107	75 - 125	4	20
Cobalt	9.4	B	43.1	53.0		mg/Kg		101	75 - 125	5	20
Copper	33		43.1	72.6		mg/Kg		92	75 - 125	2	20
Lead	43	B	43.1	96.9		mg/Kg		124	75 - 125	1	20
Molybdenum	0.44	J	43.1	37.8		mg/Kg		87	75 - 125	1	20
Nickel	43	B	43.1	86.3		mg/Kg		100	75 - 125	2	20
Selenium	1.1	J	43.1	41.0		mg/Kg		93	75 - 125	0	20
Silver	ND		21.6	19.3		mg/Kg		89	75 - 125	0	20
Thallium	0.55	J	43.1	41.8		mg/Kg		96	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90718-A-9-L MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258781 — **Prep Batch: 258627**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	44	B	43.1	85.5		mg/Kg		95	75 - 125	2	20
Zinc	190	F2	43.1	132	4 F2	mg/Kg		-132	75 - 125	35	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-258413/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258790 — **Prep Batch: 258413**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/17/19 19:40	01/18/19 12:49	1

Lab Sample ID: LCS 720-258413/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258790 — **Prep Batch: 258413**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.754		mg/Kg		91	80 - 120

Lab Sample ID: 720-90730-A-14-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258790 — **Prep Batch: 258413**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.12	F2	0.714	0.992		mg/Kg		122	75 - 125

Lab Sample ID: 720-90730-A-14-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258790 — **Prep Batch: 258413**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.12	F2	0.714	0.672	F2	mg/Kg		77	75 - 125	38	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90732-1 DU — **Client Sample ID: DG-Q15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 258445

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.3		7.2		%		14	20

GC/MS VOA

Analysis Batch: 522911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	8260B	522970
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	8260B	522970
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	8260B	522970
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	8260B	522970
MB 440-522911/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-522911/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-522911/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 522912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	522970
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	522970
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	522970
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	8260B/CA_LUFT MS	522970
MB 440-522912/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-522912/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-522912/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 522970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	5035	
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	5035	
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	5035	
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	5035	

Prep Batch: 523141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	5035	
720-90732-10	DG-AW7S-3.5-4	Total/NA	Solid	5035	

Prep Batch: 523238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-A-34-B MS	Matrix Spike	Total/NA	Solid	5035	
720-90698-A-34-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 523259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	8260B	523141
720-90732-10	DG-AW7S-3.5-4	Total/NA	Solid	8260B	523141
MB 440-523259/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-523259/14	Lab Control Sample	Total/NA	Solid	8260B	
720-90698-A-34-B MS	Matrix Spike	Total/NA	Solid	8260B	523238
720-90698-A-34-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	523238

GC/MS VOA (Continued)

Analysis Batch: 523260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	523141
720-90732-10	DG-AW7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	523141
MB 440-523260/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-523260/15	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90698-A-34-B MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	523238
720-90698-A-34-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	523238

Analysis Batch: 523322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	8260B	523370
720-90732-4	DUP-106	Total/NA	Solid	8260B	523370
720-90732-8	DUP-107	Total/NA	Solid	8260B	523370
720-90732-9	DG-AW7S-0.5-1	Total/NA	Solid	8260B	523370
MB 440-523322/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-523322/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-523322/14	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 523323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	523370
720-90732-4	DUP-106	Total/NA	Solid	8260B/CA_LUFT MS	523370
720-90732-8	DUP-107	Total/NA	Solid	8260B/CA_LUFT MS	523370
720-90732-9	DG-AW7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	523370
MB 440-523323/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-523323/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-523323/15	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 523370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	5035	
720-90732-4	DUP-106	Total/NA	Solid	5035	
720-90732-8	DUP-107	Total/NA	Solid	5035	
720-90732-9	DG-AW7S-0.5-1	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 258711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	3546	
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	3546	
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 258711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-4	DUP-106	Total/NA	Solid	3546	
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	3546	
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	3546	
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	3546	
720-90732-8	DUP-107	Total/NA	Solid	3546	
MB 720-258711/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258711/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90732-2 MS	DG-Q15S-3.5-4	Total/NA	Solid	3546	
720-90732-2 MSD	DG-Q15S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 258958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	8270C SIM	258711
MB 720-258711/1-A	Method Blank	Total/NA	Solid	8270C SIM	258711
LCS 720-258711/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258711

Analysis Batch: 259001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-2 MS	DG-Q15S-3.5-4	Total/NA	Solid	8270C SIM	258711
720-90732-2 MSD	DG-Q15S-3.5-4	Total/NA	Solid	8270C SIM	258711

Analysis Batch: 259186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	8270C SIM	258711
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	8270C SIM	258711
720-90732-8	DUP-107	Total/NA	Solid	8270C SIM	258711

Analysis Batch: 259273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	8270C SIM	258711
720-90732-4	DUP-106	Total/NA	Solid	8270C SIM	258711
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	8270C SIM	258711
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	8270C SIM	258711

GC Semi VOA

Prep Batch: 258691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	3546	
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	3546	
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	3546	
MB 720-258691/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258691/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90698-E-31-G MS	Matrix Spike	Total/NA	Solid	3546	
720-90698-E-31-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-4	DUP-106	Total/NA	Solid	3546	
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 258953 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	3546	
720-90732-8	DUP-107	Total/NA	Solid	3546	
MB 720-258953/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258953/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90913-A-1-D MS	Matrix Spike	Total/NA	Solid	3546	
720-90913-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 258963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	3546	
720-90732-8	DUP-107	Total/NA	Solid	3546	
MB 720-258963/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258963/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90911-D-21-C MS	Matrix Spike	Total/NA	Solid	3546	
720-90911-D-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 259009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259042/1-A	Method Blank	Total/NA	Solid	8015B	259042
LCS 720-259042/2-A	Lab Control Sample	Total/NA	Solid	8015B	259042

Analysis Batch: 259011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90888-A-7-E MS	Matrix Spike	Total/NA	Solid	8015B	259042
720-90888-A-7-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	259042

Analysis Batch: 259019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258691/1-A	Method Blank	Total/NA	Solid	8081A	258691
LCS 720-258691/2-A	Lab Control Sample	Total/NA	Solid	8081A	258691

Prep Batch: 259042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	3546	
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	3546	
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	3546	
720-90732-4	DUP-106	Total/NA	Solid	3546	
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	3546	
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	3546	
MB 720-259042/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259042/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90888-A-7-E MS	Matrix Spike	Total/NA	Solid	3546	
720-90888-A-7-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 259087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90698-E-31-G MS	Matrix Spike	Total/NA	Solid	8081A	258691
720-90698-E-31-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	258691

GC Semi VOA (Continued)

Analysis Batch: 259105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	8081A	258691

Analysis Batch: 259192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-8	DUP-107	Total/NA	Solid	8015B	258963
MB 720-258963/1-A	Method Blank	Total/NA	Solid	8015B	258963
LCS 720-258963/2-A	Lab Control Sample	Total/NA	Solid	8015B	258963

Analysis Batch: 259193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	8015B	259042
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	8015B	259042
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	8015B	259042
720-90732-4	DUP-106	Total/NA	Solid	8015B	259042
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	8015B	259042
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	8015B	259042
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	8015B	258963
720-90911-D-21-C MS	Matrix Spike	Total/NA	Solid	8015B	258963
720-90911-D-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	258963

Analysis Batch: 259209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	8081A	258691
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	8081A	258691
720-90732-4	DUP-106	Total/NA	Solid	8081A	258953
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	8081A	258953
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	8081A	258953
720-90732-8	DUP-107	Total/NA	Solid	8081A	258953

Analysis Batch: 259211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258953/1-A	Method Blank	Total/NA	Solid	8081A	258953
LCS 720-258953/2-A	Lab Control Sample	Total/NA	Solid	8081A	258953

Analysis Batch: 259212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90913-A-1-D MS	Matrix Spike	Total/NA	Solid	8081A	258953
720-90913-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	258953

Prep Batch: 523007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	3546	
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	3546	
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	3546	
MB 440-523007/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-523007/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-230050-A-1-A MS	Matrix Spike	Total/NA	Solid	3546	
440-230050-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Analysis Batch: 523164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	8082	523007
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	8082	523007
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	8082	523007
MB 440-523007/1-A	Method Blank	Total/NA	Solid	8082	523007
LCS 440-523007/2-A	Lab Control Sample	Total/NA	Solid	8082	523007
440-230050-A-1-A MS	Matrix Spike	Total/NA	Solid	8082	523007
440-230050-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	523007

Prep Batch: 523387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-4	DUP-106	Total/NA	Solid	3546	
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	3546	
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	3546	
720-90732-8	DUP-107	Total/NA	Solid	3546	
MB 440-523387/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-523387/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90732-4 MS	DUP-106	Total/NA	Solid	3546	
720-90732-4 MSD	DUP-106	Total/NA	Solid	3546	

Analysis Batch: 523655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-523387/1-A	Method Blank	Total/NA	Solid	8082	523387
LCS 440-523387/2-A	Lab Control Sample	Total/NA	Solid	8082	523387

Analysis Batch: 524038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-4	DUP-106	Total/NA	Solid	8082	523387
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	8082	523387
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	8082	523387
720-90732-8	DUP-107	Total/NA	Solid	8082	523387
720-90732-4 MS	DUP-106	Total/NA	Solid	8082	523387
720-90732-4 MSD	DUP-106	Total/NA	Solid	8082	523387

Metals

Prep Batch: 258411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	3050B	
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	3050B	
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	3050B	
720-90732-4	DUP-106	Total/NA	Solid	3050B	
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	3050B	
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	3050B	
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	3050B	
720-90732-8	DUP-107	Total/NA	Solid	3050B	
MB 720-258411/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258411/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90718-A-9-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90718-A-9-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 258413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	7471A	
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	7471A	
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	7471A	
720-90732-4	DUP-106	Total/NA	Solid	7471A	
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	7471A	
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	7471A	
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	7471A	
720-90732-8	DUP-107	Total/NA	Solid	7471A	
MB 720-258413/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258413/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90730-A-14-B MS	Matrix Spike	Total/NA	Solid	7471A	
720-90730-A-14-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 258627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	3050B	
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	3050B	
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	3050B	
720-90732-4	DUP-106	Total/NA	Solid	3050B	
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	3050B	
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	3050B	
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	3050B	
720-90732-8	DUP-107	Total/NA	Solid	3050B	
MB 720-258627/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258627/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90718-A-9-K MS	Matrix Spike	Total/NA	Solid	3050B	
720-90718-A-9-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 258629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	6010B	258411
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	6010B	258411
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	6010B	258411
720-90732-4	DUP-106	Total/NA	Solid	6010B	258411
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	6010B	258411
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	6010B	258411
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	6010B	258411
720-90732-8	DUP-107	Total/NA	Solid	6010B	258411
MB 720-258411/1-A	Method Blank	Total/NA	Solid	6010B	258411
LCS 720-258411/2-A	Lab Control Sample	Total/NA	Solid	6010B	258411
720-90718-A-9-A MS	Matrix Spike	Total/NA	Solid	6010B	258411
720-90718-A-9-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	258411

Analysis Batch: 258630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	6010B	258411
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	6010B	258411

Analysis Batch: 258716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	6010B	258627

Metals (Continued)

Analysis Batch: 258716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	6010B	258627
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	6010B	258627
720-90732-4	DUP-106	Total/NA	Solid	6010B	258627
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	6010B	258627
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	6010B	258627
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	6010B	258627
720-90732-8	DUP-107	Total/NA	Solid	6010B	258627
MB 720-258627/1-A	Method Blank	Total/NA	Solid	6010B	258627
LCS 720-258627/2-A	Lab Control Sample	Total/NA	Solid	6010B	258627

Analysis Batch: 258781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90718-A-9-K MS	Matrix Spike	Total/NA	Solid	6010B	258627
720-90718-A-9-L MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	258627

Analysis Batch: 258790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	7471A	258413
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	7471A	258413
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	7471A	258413
720-90732-4	DUP-106	Total/NA	Solid	7471A	258413
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	7471A	258413
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	7471A	258413
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	7471A	258413
720-90732-8	DUP-107	Total/NA	Solid	7471A	258413
MB 720-258413/1-A	Method Blank	Total/NA	Solid	7471A	258413
LCS 720-258413/2-A	Lab Control Sample	Total/NA	Solid	7471A	258413
720-90730-A-14-B MS	Matrix Spike	Total/NA	Solid	7471A	258413
720-90730-A-14-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	258413

General Chemistry

Analysis Batch: 258445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90732-1	DG-Q15S-0.5-1	Total/NA	Solid	Moisture	
720-90732-2	DG-Q15S-3.5-4	Total/NA	Solid	Moisture	
720-90732-3	DG-Q15S-7.5-8	Total/NA	Solid	Moisture	
720-90732-4	DUP-106	Total/NA	Solid	Moisture	
720-90732-5	DG-S15S-0.5-1	Total/NA	Solid	Moisture	
720-90732-6	DG-S15S-3.5-4	Total/NA	Solid	Moisture	
720-90732-7	DG-S15S-6-6.5	Total/NA	Solid	Moisture	
720-90732-8	DUP-107	Total/NA	Solid	Moisture	
720-90732-1 DU	DG-Q15S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DG-Q15S-0.5-1

Lab Sample ID: 720-90732-1

Date Collected: 01/11/19 07:30

Matrix: Solid

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523370	01/11/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	523322	01/18/19 10:17	AYL	TAL IRV
Total/NA	Prep	5035			523370	01/11/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523323	01/18/19 10:17	AYL	TAL IRV
Total/NA	Prep	3546			258711	01/17/19 14:27	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		20	259273	01/25/19 19:55	MQL	TAL PLS
Total/NA	Prep	3546			259042	01/23/19 14:13	RAR	TAL PLS
Total/NA	Analysis	8015B		5	259193	01/25/19 16:34	JXL	TAL PLS
Total/NA	Prep	3546			258691	01/17/19 09:43	JNG	TAL PLS
Total/NA	Analysis	8081A		2	259209	01/25/19 13:15	JZT	TAL PLS
Total/NA	Prep	3546			523007	01/17/19 06:20	L1A	TAL IRV
Total/NA	Analysis	8082		1	523164	01/17/19 19:48	JM	TAL IRV
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258629	01/14/19 19:17	BKR	TAL PLS
Total/NA	Prep	3050B			258627	01/16/19 12:02	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258716	01/17/19 13:29	MAG	TAL PLS
Total/NA	Prep	7471A			258413	01/17/19 19:40	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258790	01/18/19 13:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258445	01/14/19 09:39	TNL	TAL PLS

Client Sample ID: DG-Q15S-3.5-4

Lab Sample ID: 720-90732-2

Date Collected: 01/11/19 07:32

Matrix: Solid

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522970	01/13/19 11:22	JB	TAL IRV
Total/NA	Analysis	8260B		1	522911	01/17/19 00:57	JB	TAL IRV
Total/NA	Prep	5035			522970	01/13/19 11:22	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522912	01/17/19 00:57	JB	TAL IRV
Total/NA	Prep	3546			258711	01/17/19 14:27	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	258958	01/22/19 15:02	LPL	TAL PLS
Total/NA	Prep	3546			259042	01/23/19 14:13	RAR	TAL PLS
Total/NA	Analysis	8015B		2	259193	01/25/19 17:03	JXL	TAL PLS
Total/NA	Prep	3546			258691	01/17/19 09:43	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259209	01/25/19 13:32	JZT	TAL PLS
Total/NA	Prep	3546			523007	01/17/19 06:20	L1A	TAL IRV
Total/NA	Analysis	8082		1	523164	01/18/19 11:56	JM	TAL IRV
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258629	01/14/19 19:31	BKR	TAL PLS
Total/NA	Prep	3050B			258627	01/16/19 12:02	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258716	01/17/19 13:34	MAG	TAL PLS
Total/NA	Prep	7471A			258413	01/17/19 19:40	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258790	01/18/19 13:39	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DG-Q15S-3.5-4

Lab Sample ID: 720-90732-2

Date Collected: 01/11/19 07:32

Matrix: Solid

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258445	01/14/19 09:39	TNL	TAL PLS

Client Sample ID: DG-Q15S-7.5-8

Lab Sample ID: 720-90732-3

Date Collected: 01/11/19 07:35

Matrix: Solid

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522970	01/13/19 11:22	JB	TAL IRV
Total/NA	Analysis	8260B		1	522911	01/17/19 01:25	JB	TAL IRV
Total/NA	Prep	5035			522970	01/13/19 11:22	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522912	01/17/19 01:25	JB	TAL IRV
Total/NA	Prep	3546			258711	01/17/19 14:27	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	259186	01/24/19 23:28	LPL	TAL PLS
Total/NA	Prep	3546			259042	01/23/19 14:13	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259193	01/25/19 17:33	JXL	TAL PLS
Total/NA	Prep	3546			258691	01/17/19 09:43	JNG	TAL PLS
Total/NA	Analysis	8081A		5	259105	01/24/19 15:09	JZT	TAL PLS
Total/NA	Prep	3546			523007	01/17/19 06:20	L1A	TAL IRV
Total/NA	Analysis	8082		1	523164	01/17/19 20:15	JM	TAL IRV
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258630	01/15/19 21:58	MAG	TAL PLS
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258629	01/14/19 19:36	BKR	TAL PLS
Total/NA	Prep	3050B			258627	01/16/19 12:02	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258716	01/17/19 13:39	MAG	TAL PLS
Total/NA	Prep	7471A			258413	01/17/19 19:40	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258790	01/18/19 13:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258445	01/14/19 09:39	TNL	TAL PLS

Client Sample ID: DUP-106

Lab Sample ID: 720-90732-4

Date Collected: 01/11/19 00:00

Matrix: Solid

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523370	01/11/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	523322	01/18/19 10:48	AYL	TAL IRV
Total/NA	Prep	5035			523370	01/11/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523323	01/18/19 10:48	AYL	TAL IRV
Total/NA	Prep	3546			258711	01/17/19 14:27	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		50	259273	01/25/19 21:53	MQL	TAL PLS
Total/NA	Prep	3546			259042	01/23/19 14:13	RAR	TAL PLS
Total/NA	Analysis	8015B		20	259193	01/25/19 18:31	JXL	TAL PLS
Total/NA	Prep	3546			258953	01/22/19 12:29	JNG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DUP-106

Lab Sample ID: 720-90732-4

Date Collected: 01/11/19 00:00
Matrix: Solid
Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081A		2	259209	01/25/19 13:49	JZT	TAL PLS
Total/NA	Prep	3546			523387	01/18/19 10:14	L1A	TAL IRV
Total/NA	Analysis	8082		1	524038	01/22/19 15:52	D1D	TAL IRV
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258629	01/14/19 19:41	BKR	TAL PLS
Total/NA	Prep	3050B			258627	01/16/19 12:02	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258716	01/17/19 13:44	MAG	TAL PLS
Total/NA	Prep	7471A			258413	01/17/19 19:40	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258790	01/18/19 13:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258445	01/14/19 09:39	TNL	TAL PLS

Client Sample ID: DG-S15S-0.5-1

Lab Sample ID: 720-90732-5

Date Collected: 01/11/19 08:30
Matrix: Solid
Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522970	01/13/19 11:22	JB	TAL IRV
Total/NA	Analysis	8260B		1	522911	01/17/19 01:54	JB	TAL IRV
Total/NA	Prep	5035			522970	01/13/19 11:22	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522912	01/17/19 01:54	JB	TAL IRV
Total/NA	Prep	3546			258711	01/17/19 14:27	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		20	259273	01/25/19 22:16	MQL	TAL PLS
Total/NA	Prep	3546			259042	01/23/19 14:13	RAR	TAL PLS
Total/NA	Analysis	8015B		10	259193	01/25/19 18:02	JXL	TAL PLS
Total/NA	Prep	3546			258953	01/22/19 12:29	JNG	TAL PLS
Total/NA	Analysis	8081A		2	259209	01/25/19 14:06	JZT	TAL PLS
Total/NA	Prep	3546			523387	01/18/19 10:14	L1A	TAL IRV
Total/NA	Analysis	8082		1	524038	01/22/19 17:50	D1D	TAL IRV
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		100	258630	01/15/19 22:03	MAG	TAL PLS
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258629	01/14/19 19:45	BKR	TAL PLS
Total/NA	Prep	3050B			258627	01/16/19 12:02	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258716	01/17/19 13:48	MAG	TAL PLS
Total/NA	Prep	7471A			258413	01/17/19 19:40	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258790	01/18/19 13:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258445	01/14/19 09:39	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DG-S15S-3.5-4

Date Collected: 01/11/19 08:32
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523141	01/11/19 15:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	523259	01/18/19 03:53	AYL	TAL IRV
Total/NA	Prep	5035			523141	01/11/19 15:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523260	01/18/19 03:53	AYL	TAL IRV
Total/NA	Prep	3546			258711	01/17/19 14:27	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	259186	01/24/19 23:52	LPL	TAL PLS
Total/NA	Prep	3546			259042	01/23/19 14:13	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259193	01/25/19 13:37	JXL	TAL PLS
Total/NA	Prep	3546			258953	01/22/19 12:29	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259209	01/25/19 14:22	JZT	TAL PLS
Total/NA	Prep	3546			523387	01/18/19 10:14	L1A	TAL IRV
Total/NA	Analysis	8082		1	524038	01/22/19 18:18	D1D	TAL IRV
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258629	01/14/19 19:50	BKR	TAL PLS
Total/NA	Prep	3050B			258627	01/16/19 12:02	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258716	01/17/19 13:53	MAG	TAL PLS
Total/NA	Prep	7471A			258413	01/17/19 19:40	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258790	01/18/19 13:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258445	01/14/19 09:39	TNL	TAL PLS

Client Sample ID: DG-S15S-6-6.5

Date Collected: 01/11/19 08:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90732-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			522970	01/13/19 11:22	JB	TAL IRV
Total/NA	Analysis	8260B		1	522911	01/17/19 02:22	JB	TAL IRV
Total/NA	Prep	5035			522970	01/13/19 11:22	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	522912	01/17/19 02:22	JB	TAL IRV
Total/NA	Prep	3546			258711	01/17/19 14:27	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		20	259273	01/25/19 20:19	MQL	TAL PLS
Total/NA	Prep	3546			258963	01/22/19 13:55	RAR	TAL PLS
Total/NA	Analysis	8015B		10	259193	01/25/19 16:04	JXL	TAL PLS
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258629	01/14/19 19:55	BKR	TAL PLS
Total/NA	Prep	3050B			258627	01/16/19 12:02	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258716	01/17/19 13:58	MAG	TAL PLS
Total/NA	Prep	7471A			258413	01/17/19 19:40	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258790	01/18/19 13:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258445	01/14/19 09:39	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Client Sample ID: DUP-107

Lab Sample ID: 720-90732-8

Date Collected: 01/11/19 00:00

Matrix: Solid

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523370	01/11/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	523322	01/18/19 11:14	AYL	TAL IRV
Total/NA	Prep	5035			523370	01/11/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523323	01/18/19 11:14	AYL	TAL IRV
Total/NA	Prep	3546			258711	01/17/19 14:27	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		1	259186	01/25/19 00:15	LPL	TAL PLS
Total/NA	Prep	3546			258963	01/22/19 13:55	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259192	01/25/19 13:37	JXL	TAL PLS
Total/NA	Prep	3546			258953	01/22/19 12:29	JNG	TAL PLS
Total/NA	Analysis	8081A		1	259209	01/25/19 14:39	JZT	TAL PLS
Total/NA	Prep	3546			523387	01/18/19 10:14	L1A	TAL IRV
Total/NA	Analysis	8082		1	524038	01/22/19 18:31	D1D	TAL IRV
Total/NA	Prep	3050B			258411	01/12/19 11:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258629	01/14/19 20:00	BKR	TAL PLS
Total/NA	Prep	3050B			258627	01/16/19 12:02	MAA	TAL PLS
Total/NA	Analysis	6010B		4	258716	01/17/19 14:03	MAG	TAL PLS
Total/NA	Prep	7471A			258413	01/17/19 19:40	GLL	TAL PLS
Total/NA	Analysis	7471A		1	258790	01/18/19 13:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258445	01/14/19 09:39	TNL	TAL PLS

Client Sample ID: DG-AW7S-0.5-1

Lab Sample ID: 720-90732-9

Date Collected: 01/11/19 09:18

Matrix: Solid

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523370	01/11/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	523322	01/18/19 11:41	AYL	TAL IRV
Total/NA	Prep	5035			523370	01/11/19 18:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523323	01/18/19 11:41	AYL	TAL IRV

Client Sample ID: DG-AW7S-3.5-4

Lab Sample ID: 720-90732-10

Date Collected: 01/11/19 09:20

Matrix: Solid

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			523141	01/11/19 15:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	523259	01/18/19 05:12	AYL	TAL IRV
Total/NA	Prep	5035			523141	01/11/19 15:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	523260	01/18/19 05:12	AYL	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90732-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3546	Solid	Chlordane (n.o.s.)
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90732-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90732-1	DG-Q15S-0.5-1	Solid	01/11/19 07:30	01/11/19 15:00
720-90732-2	DG-Q15S-3.5-4	Solid	01/11/19 07:32	01/11/19 15:00
720-90732-3	DG-Q15S-7.5-8	Solid	01/11/19 07:35	01/11/19 15:00
720-90732-4	DUP-106	Solid	01/11/19 00:00	01/11/19 15:00
720-90732-5	DG-S15S-0.5-1	Solid	01/11/19 08:30	01/11/19 15:00
720-90732-6	DG-S15S-3.5-4	Solid	01/11/19 08:32	01/11/19 15:00
720-90732-7	DG-S15S-6-6.5	Solid	01/11/19 08:35	01/11/19 15:00
720-90732-8	DUP-107	Solid	01/11/19 00:00	01/11/19 15:00
720-90732-9	DG-AW7S-0.5-1	Solid	01/11/19 09:18	01/11/19 15:00
720-90732-10	DG-AW7S-3.5-4	Solid	01/11/19 09:20	01/11/19 15:00

eurofins | CEI

Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: B190208
Received: 1/15/2019
Reported: 1/25/2019
Analyst: Samantha Card

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-Q15S-0.5-1 (720-90732-1)	B3009	No	None Detected	0.00
DG-Q15S-3.5-4 (720-90732-2)	B3010	No	None Detected	0.00
DG-Q15S-7.5-8 (720-90732-3)	B3011	No	None Detected	0.00
DUP-106 (720-90732-4)	B3012	No	None Detected	0.00
DG-S15S-0.5-1 (720-90732-5)	B3013	No	None Detected	0.00
DG-S15S-3.5-4 (720-90732-6)	B3014	No	None Detected	0.00
DUP-107 (720-90732-8)	B3015	No	None Detected	0.00

REVIEWED BY: _____

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T 919-481-1413
F 919-481-1442
www.EurofinsUS.com/CEI

eurofins | CEI

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

Eurofins CEI, Inc.

730 SE Maynard Road
Cary, NC 27511

T : 919-481-1413
F : 919-481-1442
www.EurofinsUS.com/CEI

B3009-B3015 B90208

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40783.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90732-1
Address: 730 SE Maynard Rd.	Due Date Requested: 1/25/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code						
DG-Q15S-0.5-1 (720-90732-1)	1/11/19	07:30 Pacific		Solid			X	1	
DG-Q15S-3.5-4 (720-90732-2)	1/11/19	07:32 Pacific		Solid			X	1	
DG-Q15S-7.5-8 (720-90732-3)	1/11/19	07:35 Pacific		Solid			X	1	
DUP-106 (720-90732-4)	1/11/19	Pacific		Solid			X	1	
DG-S15S-0.5-1 (720-90732-5)	1/11/19	08:30 Pacific		Solid			X	1	
DG-S15S-3.5-4 (720-90732-6)	1/11/19	08:32 Pacific		Solid			X	1	eurofins Test Accept Samples
DUP-107 (720-90732-8)	1/11/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 1/14/19 959	Company TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: AZ	Date/Time: 1-15-19 9:40	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90732

Chain of Custody Record

TestAmerica

187785

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-11-19	COC No: 187785
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			720-90732 Chain of Custody
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-Q15S-0.5-1	1-11-19	0730	G	S	7	N		X	X	X	X	X	X	X	
2 DG-Q15S-3.5-4		0732													
3 DG-Q15S-7.5-8		0735													
4 Dup-106		—													
5 DG-S15S-0.5-1		0830													
6 DG-S15S-3.5-4		0832													
7 DG-S15S 6-6.5		0835			5										
8 Dup-107		—			7										
9 DG-AW7S-0.5-1		0918			4										
10 DG-AW7S 3.5-4		0920			4										

Page 106 of 195

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.8, 1.7 3.0, 2.1, 3.7 °C
2.2, 0.9, 3.0, 3.3, 1.7 °C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd.	Corr'd	Therm ID No.
Relinquished by	Company: Geosyntec	Date/Time: 1-11-19 1303	Received by	Company: TAPLS	Date/Time: 1/11/19 1703
Relinquished by	Company: TAPLS	Date/Time: 1/11/19 1500	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/11/19 1500

4/11/19 3-8/1.7/3/2.1/3.7/2.2
2/3/1.7/3.3 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40762.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90732-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

TERRA CORES Shipped DIRECT BY LAB COURIER. FED-EX

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons
DG-Q15S-0.5-1 (720-90732-1)	1/11/19	07:30 Pacific		Solid	X	X
DG-Q15S-3.5-4 (720-90732-2)	1/11/19	07:32 Pacific		Solid	X	X
DG-Q15S-7.5-8 (720-90732-3)	1/11/19	07:35 Pacific		Solid	X	X
DUP-106 (720-90732-4)	1/11/19	Pacific		Solid	X	X
DG-S15S-0.5-1 (720-90732-5)	1/11/19	08:30 Pacific		Solid	X	X
DG-S15S-3.5-4 (720-90732-6)	1/11/19	08:32 Pacific		Solid	X	X
DG-S15S-6.0-6.5 (720-90732-7)	1/11/19	08:35 Pacific		Solid	X	X
DUP-107 (720-90732-8)	1/11/19	Pacific		Solid	X	X
DG-AW7S-0.5-1 (720-90732-9)	1/11/19	09:18 Pacific		Solid	X	X

1/11/19 — Special Instructions/Nc

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/11/19 1350	TA-PLS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/12/19 1120	Company TA-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
	Encores or Terracores Frozen Date: 1/11/19 Time: 1137 Initials:	2.9/3.1 °C IR-88

Ver: 09/20/2016

720-90732 Chain of Custody

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40782.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90732-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Sediment, Oil, Tissue, Air, etc.)	8260B_LUFTMS/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AW7S-3.5-4 (720-90732-10)	1/11/19	09:20 Pacific		Solid	X	X	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 1/11/19 23:50	Company TA-PLS	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: Olga Olmedos / Date/Time: 1/12/19 1120 / Company TAINV
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90732

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187785

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-11-19	COC No: 187785
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			720-90732 Chain of Custody
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1	DG-Q1SS-0.5-1	1-11-19	0730	G	S	7	N		X	X	X	X	X	X	X	
2	DG-Q1SS-3.5-4		0732													
3	DG-Q1SS-7.5-8		0735													
4	Dup-106		—													
5	DG-S1SS-0.5-1		0830													
6	DG-S1SS-3.5-4		0832													
7	DG-S1SS 6-6.5		0835			5										
8	Dup-107		—			7										
9	DG-AW7S-0.5-1		0918			8										
10	DG-AW7S 3.5-4		0920			4										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.8, 1.7, 3.0, 2.1, 3.7 °C
2.2, 0.9, 3.0, 3.3, 1.7 °C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ Therm ID No.: ____	
Relinquished by:	Company: Geosyntec	Date/Time: 1-11-19 1303	Received by:	Company: TAPLS	Date/Time: 1/11/19 1703
Relinquished by:	Company: TAPLS	Date/Time: 1/11/19 1500	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/11/19 1500

4/11/19 3-8/1.7/3/2.1/3.7/2.2
2/3/1.2/3.3 C

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No: 720-40782.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90732-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EOTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			Other:
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL_5035A_F_FW_7 8260(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
DG-Q15S-0.5-1 (720-90732-1)	1/11/19	07:30 Pacific		Solid		X	X	X		
DG-Q15S-3.5-4 (720-90732-2)	1/11/19	07:32 Pacific		Solid		X	X	X		
DG-Q15S-7.5-8 (720-90732-3)	1/11/19	07:35 Pacific		Solid		X	X	X		
DUP-106 (720-90732-4)	1/11/19	Pacific		Solid		X	X	X		
DG-S15S-0.5-1 (720-90732-5)	1/11/19	08:30 Pacific		Solid		X	X	X		
DG-S15S-3.5-4 (720-90732-6)	1/11/19	08:32 Pacific		Solid		X	X	X		
~~DG-S15S-6.0-6.5 (720-90732-7)~~	~~1/11/19~~	~~08:35 Pacific~~		~~Solid~~		X	X	X		No Jars for 1/11/19
DUP-107 (720-90732-8)	1/11/19	Pacific		Solid		X	X	X		1 for 1/11/19
~~DG-AW7S-0.5-1 (720-90732-9)~~	~~1/11/19~~	~~09:18 Pacific~~		~~Solid~~		X	X	X		No Jars for 1/11/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/14/19 1049	TAPS			
	Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
	Relinquished by	Date/Time:	Company	Received by	Date/Time: 1/15/19 1000	Company TA IRV

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR59 4.0/4.4

Ver: 09/20/2016

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No.: 720-40782.2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90732-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			Other:
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastestoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8082/3546 Standard 8082 PCB list	8260B LL/5035A_E_FW_7 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
			Preservation Code:		X	X			X	
DG-AW7S-3.5-4 (720-90732-10) ~~Jm 1/11/19~~	~~1/11/19~~	09:20 Pacific		Solid			X	X		NO JARS Jm 1/11/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1/14/19	TAPS			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/15/19 1000	Company: TA IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2 8 9 4.0/4.4

Ver: 09/20/2016

1/31/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90732-1

Login Number: 90732
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90732-1

Login Number: 90732
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/12/19 04:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Tuesday, January 15, 2019 7:13 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90732-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

For samples 9 and 10 please only run 8260 GRO and VOCs.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Monday, January 14, 2019 6:41 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90732-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90732-1; Brisbane OU-2 Data Gap Investigation

Please note that Samples 9 and 10, DG-AW7S-0.5-1 and DG-AW7S-3.5-4, have all analyses requested on the COC however only terracores were received for these samples. Only 8260 GRO and VOCs can be performed for these samples.

We will proceed with all other tests unless notified otherwise.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [494998]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90735-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/30/2019 5:47:21 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90735-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90735-1

Comments
No additional comments.

Receipt
The samples were received on 1/11/2019 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.9º C, 1.7º C, 1.7º C, 2.1º C, 2.2º C, 3.0º C, 3.0º C, 3.3º C, 3.7º C and 3.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-523003 and analytical batch 440-523032 was outside control limits. Sample matrix interference is suspected.

Method 8015B: The matrix spike (MS) recoveries for preparation batch 440-523003 and analytical batch 440-523032 were outside control limits due to "olive yellow light emulsion." Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B: Surrogate recovery for the following 8015-DRO sample was outside control limits due to "light brown with light emulsion": DUP-107 (720-90735-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B: The following samples have possible laboratory contamination within the 8015-DRO silica gel cleanup (SGC) extraction procedure. The sample results should be considered possible high bias. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. DG-Q15W (720-90735-3) and DG-O15W (720-90735-4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-258443 and analytical batch 720-258610 contained Arsenic and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3520C: Water sample contained excessive solid material, the 1-liter sample container had approximately 1 inch of sediment on the bottom of the bottle. Only the water portion was extracted. The sediment layer remained in the sample bottle and therefore the sample bottle could not be solvent rinsed.
DG-S15W (720-90735-1), DG-O15W (720-90735-4), DG-N13W (720-90735-5), DG-P13W (720-90735-7), DG-P13W (720-90735-7[MS]) and DG-P13W (720-90735-7[MSD])

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DG-S15W — Lab Sample ID: 720-90735-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.72		0.50	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	0.55		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	250	J	480	97	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	210	J	480	97	ug/L	1		8015B	Total/NA
Arsenic	7.6	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	38	J	50	1.6	ug/L	1		6010B	Dissolved
Cobalt	0.73	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.9	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	5.3	J	10	2.9	ug/L	1		6010B	Dissolved
Vanadium	1.3	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DUP-107 — Lab Sample ID: 720-90735-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	37	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Tetrachloroethene	0.66		0.50	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	0.56		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	140	J	480	97	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120	J	480	97	ug/L	1		8015B	Total/NA
Arsenic	3.3	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	38	J	50	1.6	ug/L	1		6010B	Dissolved
Cobalt	1.0	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.2	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	5.5	J	10	2.9	ug/L	1		6010B	Dissolved
Vanadium	1.9	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-Q15W — Lab Sample ID: 720-90735-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	35	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	0.16	J	0.19	0.097	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.34		0.19	0.097	ug/L	1		8270C SIM	Total/NA
Chrysene	0.11	J	0.19	0.097	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	180	J	480	96	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120	J	480	96	ug/L	1		8015B	Total/NA
Arsenic	12	B	10	2.9	ug/L	1		6010B	Dissolved
Barium	88		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.6	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	17		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	7.1	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	5.7	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	23		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	3.3	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-O15W — Lab Sample ID: 720-90735-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	120	J	480	95	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	97	J	480	95	ug/L	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DG-O15W (Continued) — Lab Sample ID: 720-90735-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	68	B	10	2.9	ug/L	1		6010B	Dissolved
Barium	110		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.85	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	2.9		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.4	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	6.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	10		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	3.1	J	10	0.87	ug/L	1		6010B	Dissolved
Mercury	0.14	J	0.20	0.10	ug/L	1		7470A	Dissolved

Client Sample ID: DG-N13W — Lab Sample ID: 720-90735-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J	20	10	ug/L	1		8260B	Total/NA
Antimony	4.9	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	3.3	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	38	J	50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.98	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	0.93	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	5.7	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	5.8	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.7	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	3.6	J	10	3.5	ug/L	1		6010B	Dissolved

Client Sample ID: DUP-89 — Lab Sample ID: 720-90735-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.35		0.19	0.097	ug/L	1		8270C SIM	Total/NA
Fluorene	0.12	J	0.19	0.097	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.54		0.19	0.097	ug/L	1		8270C SIM	Total/NA
Chrysene	0.11	J	0.19	0.097	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.13	J	0.19	0.097	ug/L	1		8270C SIM	Total/NA
Pyrene	0.18	J	0.19	0.097	ug/L	1		8270C SIM	Total/NA
Arsenic	5.6	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	37	J	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.7	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.2	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.3	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	5.3	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.5	J	10	1.0	ug/L	1		6010B	Dissolved

Client Sample ID: DG-P13W — Lab Sample ID: 720-90735-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.6	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	3.8	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	42	J	50	1.6	ug/L	1		6010B	Dissolved
Copper	5.8	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	6.1	J	10	2.9	ug/L	1		6010B	Dissolved
Vanadium	3.5	J	10	0.87	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DG-S15W
Date Collected: 01/11/19 10:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/22/19 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*01/22/19 21:15*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/22/19 21:15*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/22/19 21:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Acetone	ND		20	10	ug/L			01/22/19 21:15	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 21:15	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 21:15	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 21:15	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 21:15	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 21:15	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 21:15	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 21:15	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 21:15	1

Client Sample ID: DG-S15W
Date Collected: 01/11/19 10:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 21:15	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 21:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 21:15	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 21:15	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Tetrachloroethene	**0.72**		0.50	0.25	ug/L			01/22/19 21:15	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 21:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 21:15	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Trichloroethene	**0.55**		0.50	0.25	ug/L			01/22/19 21:15	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 21:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 21:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 21:15	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 21:15	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 21:15	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*01/22/19 21:15*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/22/19 21:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Acenaphthene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Fluorene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Phenanthrene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Anthracene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Chrysene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Benzo[a]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Pyrene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/16/19 10:29	01/17/19 19:59	1

Client Sample ID: DG-S15W

Date Collected: 01/11/19 10:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	97		38 - 120	01/16/19 10:29	01/17/19 19:59	1
Nitrobenzene-d5	79		10 - 120	01/16/19 10:29	01/17/19 19:59	1
Terphenyl-d14	75		21 - 120	01/16/19 10:29	01/17/19 19:59	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**250**	**J**	480	97	ug/L		01/17/19 05:53	01/17/19 12:38	1
Motor Oil Range Organics [C24-C36]	**210**	**J**	480	97	ug/L		01/17/19 05:53	01/17/19 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	54		45 - 120	01/17/19 05:53	01/17/19 12:38	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 19:46	1
Arsenic	**7.6**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:46	1
Barium	**38**	**J**	50	1.6	ug/L		01/14/19 10:32	01/15/19 19:46	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 19:46	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 19:46	1
Chromium	ND		10	0.70	ug/L		01/14/19 10:32	01/15/19 19:46	1
Cobalt	**0.73**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/15/19 19:46	1
Copper	**4.9**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 19:46	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 19:46	1
Molybdenum	**5.3**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:46	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/15/19 19:46	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 19:46	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 19:46	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 19:46	1
Vanadium	**1.3**	**J**	10	0.87	ug/L		01/14/19 10:32	01/15/19 19:46	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 19:46	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 19:38	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DUP-107

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-2

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	37	J	50	35	ug/L			01/22/19 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*01/22/19 22:38*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/22/19 22:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/22/19 22:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Acetone	ND		20	10	ug/L			01/22/19 22:38	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 22:38	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 22:38	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 22:38	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 22:38	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 22:38	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 22:38	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 22:38	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 22:38	1

Client Sample ID: DUP-107
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 22:38	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 22:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 22:38	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 22:38	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Tetrachloroethene	**0.66**		0.50	0.25	ug/L			01/22/19 22:38	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 22:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 22:38	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Trichloroethene	**0.56**		0.50	0.25	ug/L			01/22/19 22:38	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 22:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 22:38	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 22:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 22:38	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 22:38	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*01/22/19 22:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/22/19 22:38*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Acenaphthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Acenaphthylene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Fluorene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Phenanthrene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Anthracene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Benzo[a]anthracene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Chrysene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Benzo[a]pyrene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Benzo[k]fluoranthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Benzo[g,h,i]perylene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Fluoranthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Pyrene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1
Dibenz(a,h)anthracene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/17/19 20:23	1

Client Sample ID: DUP-107

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*38 - 120*	*01/16/19 10:29*	*01/17/19 20:23*	*1*
Nitrobenzene-d5	*42*		*10 - 120*	*01/16/19 10:29*	*01/17/19 20:23*	*1*
Terphenyl-d14	*55*		*21 - 120*	*01/16/19 10:29*	*01/17/19 20:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**	**J**	480	97	ug/L		01/17/19 05:53	01/17/19 12:59	1
Motor Oil Range Organics [C24-C36]	**120**	**J**	480	97	ug/L		01/17/19 05:53	01/17/19 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*40*	*X*	*45 - 120*	*01/17/19 05:53*	*01/17/19 12:59*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 19:51	1
Arsenic	**3.3**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:51	1
Barium	**38**	**J**	50	1.6	ug/L		01/14/19 10:32	01/15/19 19:51	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 19:51	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 19:51	1
Chromium	ND		10	0.70	ug/L		01/14/19 10:32	01/15/19 19:51	1
Cobalt	**1.0**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/15/19 19:51	1
Copper	**4.2**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 19:51	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 19:51	1
Molybdenum	**5.5**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:51	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/15/19 19:51	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 19:51	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 19:51	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 19:51	1
Vanadium	**1.9**	**J**	10	0.87	ug/L		01/14/19 10:32	01/15/19 19:51	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 19:51	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 19:38	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DG-Q15W
Date Collected: 01/11/19 11:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	35	J	50	35	ug/L			01/22/19 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*01/22/19 23:06*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*01/22/19 23:06*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/22/19 23:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Acetone	ND		20	10	ug/L			01/22/19 23:06	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 23:06	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 23:06	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 23:06	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 23:06	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 23:06	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 23:06	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 23:06	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 23:06	1

Client Sample ID: DG-Q15W
Date Collected: 01/11/19 11:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 23:06	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 23:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 23:06	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 23:06	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 23:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 23:06	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 23:06	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 23:06	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 23:06	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 23:06	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*01/22/19 23:06*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/22/19 23:06*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.16**	**J**	0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Acenaphthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Acenaphthylene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Fluorene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Phenanthrene	**0.34**		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Anthracene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Benzo[a]anthracene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Chrysene	**0.11**	**J**	0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Benzo[a]pyrene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Benzo[k]fluoranthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Benzo[g,h,i]perylene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Fluoranthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Pyrene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1
Dibenz(a,h)anthracene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/18/19 16:40	1

Client Sample ID: DG-Q15W

Date Collected: 01/11/19 11:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*38 - 120*	*01/16/19 10:29*	*01/18/19 16:40*	*1*
Nitrobenzene-d5	*45*		*10 - 120*	*01/16/19 10:29*	*01/18/19 16:40*	*1*
Terphenyl-d14	*44*		*21 - 120*	*01/16/19 10:29*	*01/18/19 16:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**180**	**J**	480	96	ug/L		01/17/19 05:53	01/17/19 13:19	1
Motor Oil Range Organics [C24-C36]	**120**	**J**	480	96	ug/L		01/17/19 05:53	01/17/19 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*60*		*45 - 120*	*01/17/19 05:53*	*01/17/19 13:19*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 19:56	1
Arsenic	**12**	**B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:56	1
Barium	**88**		50	1.6	ug/L		01/14/19 10:32	01/15/19 19:56	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 19:56	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 19:56	1
Chromium	**1.6**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 19:56	1
Cobalt	**17**		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 19:56	1
Copper	**7.1**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 19:56	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 19:56	1
Molybdenum	**5.7**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:56	1
Nickel	**23**		10	1.0	ug/L		01/14/19 10:32	01/15/19 19:56	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 19:56	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 19:56	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 19:56	1
Vanadium	**3.3**	**J**	10	0.87	ug/L		01/14/19 10:32	01/15/19 19:56	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 19:56	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 19:38	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DG-O15W
Date Collected: 01/11/19 11:25
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*01/23/19 00:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*01/23/19 00:55*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*01/23/19 00:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Acetone	ND		20	10	ug/L			01/23/19 00:55	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 00:55	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 00:55	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 00:55	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 00:55	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 00:55	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 00:55	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 00:55	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 00:55	1

Client Sample ID: DG-O15W
Date Collected: 01/11/19 11:25
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 00:55	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 00:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 00:55	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 00:55	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 00:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 00:55	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 00:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 00:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 00:55	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 00:55	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 00:55	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/23/19 00:55*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*01/23/19 00:55*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Acenaphthene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Acenaphthylene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Fluorene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Phenanthrene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Anthracene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Chrysene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Fluoranthene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Pyrene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 17:04	1

Client Sample ID: DG-O15W

Date Collected: 01/11/19 11:25
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*	*01/16/19 10:29*	*01/18/19 17:04*	*1*
Nitrobenzene-d5	*62*		*10 - 120*	*01/16/19 10:29*	*01/18/19 17:04*	*1*
Terphenyl-d14	*94*		*21 - 120*	*01/16/19 10:29*	*01/18/19 17:04*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**120**	**J**	480	95	ug/L		01/17/19 05:53	01/17/19 13:40	1
Motor Oil Range Organics [C24-C36]	**97**	**J**	480	95	ug/L		01/17/19 05:53	01/17/19 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*54*		*45 - 120*	*01/17/19 05:53*	*01/17/19 13:40*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 20:01	1
Arsenic	**68**	**B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:01	1
Barium	**110**		50	1.6	ug/L		01/14/19 10:32	01/15/19 20:01	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 20:01	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 20:01	1
Chromium	**0.85**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 20:01	1
Cobalt	**2.9**		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 20:01	1
Copper	**4.4**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 20:01	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 20:01	1
Molybdenum	**6.9**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:01	1
Nickel	**10**		10	1.0	ug/L		01/14/19 10:32	01/15/19 20:01	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 20:01	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 20:01	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 20:01	1
Vanadium	**3.1**	**J**	10	0.87	ug/L		01/14/19 10:32	01/15/19 20:01	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 20:01	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**	**J**	0.20	0.10	ug/L		01/14/19 19:48	01/15/19 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 19:38	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DG-N13W
Date Collected: 01/11/19 11:49
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*01/23/19 01:21*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*01/23/19 01:21*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*01/23/19 01:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Acetone	**10**	**J**	20	10	ug/L			01/23/19 01:21	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 01:21	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 01:21	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 01:21	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 01:21	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 01:21	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 01:21	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 01:21	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 01:21	1

Client Sample ID: DG-N13W
Date Collected: 01/11/19 11:49
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 01:21	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 01:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 01:21	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 01:21	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 01:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 01:21	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 01:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 01:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 01:21	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 01:21	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 01:21	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*01/23/19 01:21*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*01/23/19 01:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Acenaphthene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Acenaphthylene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Fluorene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Phenanthrene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Anthracene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Chrysene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Fluoranthene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Pyrene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		01/16/19 10:29	01/18/19 21:32	1

Client Sample ID: DG-N13W

Date Collected: 01/11/19 11:49
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*107*		*38 - 120*	*01/16/19 10:29*	*01/18/19 21:32*	*1*
Nitrobenzene-d5	*89*		*10 - 120*	*01/16/19 10:29*	*01/18/19 21:32*	*1*
Terphenyl-d14	*91*		*21 - 120*	*01/16/19 10:29*	*01/18/19 21:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		520	100	ug/L		01/17/19 05:53	01/17/19 14:20	1
Motor Oil Range Organics [C24-C36]	ND		520	100	ug/L		01/17/19 05:53	01/17/19 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*58*		*45 - 120*	*01/17/19 05:53*	*01/17/19 14:20*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.9**	**J**	10	4.1	ug/L		01/14/19 10:32	01/15/19 20:05	1
Arsenic	**3.3**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:05	1
Barium	**38**	**J**	50	1.6	ug/L		01/14/19 10:32	01/15/19 20:05	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 20:05	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 20:05	1
Chromium	**0.98**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 20:05	1
Cobalt	**0.93**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/15/19 20:05	1
Copper	**5.7**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 20:05	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 20:05	1
Molybdenum	**5.8**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:05	1
Nickel	**1.7**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 20:05	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 20:05	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 20:05	1
Thallium	**3.6**	**J**	10	3.5	ug/L		01/14/19 10:32	01/15/19 20:05	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 20:05	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 20:05	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 19:38	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DUP-89
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*01/23/19 01:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*01/23/19 01:48*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*01/23/19 01:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Acetone	ND		20	10	ug/L			01/23/19 01:48	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 01:48	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 01:48	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 01:48	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 01:48	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 01:48	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 01:48	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 01:48	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 01:48	1

Client Sample ID: DUP-89
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 01:48	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 01:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 01:48	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 01:48	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 01:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 01:48	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 01:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 01:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 01:48	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 01:48	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 01:48	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*01/23/19 01:48*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*01/23/19 01:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.35**		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Acenaphthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Acenaphthylene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Fluorene	**0.12**	**J**	0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Phenanthrene	**0.54**		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Anthracene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Benzo[a]anthracene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Chrysene	**0.11**	**J**	0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Benzo[a]pyrene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Benzo[k]fluoranthene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Benzo[g,h,i]perylene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Fluoranthene	**0.13**	**J**	0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Pyrene	**0.18**	**J**	0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1
Dibenz(a,h)anthracene	ND		0.19	0.097	ug/L		01/16/19 10:29	01/21/19 23:12	1

Client Sample ID: DUP-89

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		38 - 120	01/16/19 10:29	01/21/19 23:12	1
Nitrobenzene-d5	44		10 - 120	01/16/19 10:29	01/21/19 23:12	1
Terphenyl-d14	44		21 - 120	01/16/19 10:29	01/21/19 23:12	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		530	110	ug/L		01/17/19 05:53	01/17/19 14:41	1
Motor Oil Range Organics [C24-C36]	ND		530	110	ug/L		01/17/19 05:53	01/17/19 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	62		45 - 120	01/17/19 05:53	01/17/19 14:41	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 20:10	1
Arsenic	**5.6**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:10	1
Barium	**37**	**J**	50	1.6	ug/L		01/14/19 10:32	01/15/19 20:10	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 20:10	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 20:10	1
Chromium	**1.7**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 20:10	1
Cobalt	**1.2**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/15/19 20:10	1
Copper	**6.3**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 20:10	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 20:10	1
Molybdenum	**5.3**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 20:10	1
Nickel	**1.5**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 20:10	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 20:10	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 20:10	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 20:10	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 20:10	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 20:10	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 19:38	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DG-P13W
Date Collected: 01/11/19 12:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/22/19 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*01/22/19 23:35*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*01/22/19 23:35*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/22/19 23:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Acetone	ND		20	10	ug/L			01/22/19 23:35	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 23:35	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 23:35	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 23:35	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 23:35	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 23:35	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 23:35	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 23:35	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 23:35	1

Client Sample ID: DG-P13W
Date Collected: 01/11/19 12:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 23:35	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 23:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 23:35	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 23:35	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 23:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 23:35	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 23:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 23:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 23:35	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 23:35	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 23:35	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*01/22/19 23:35*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/22/19 23:35*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Acenaphthene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Fluorene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Phenanthrene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Anthracene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Chrysene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Pyrene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/21/19 15:54	1

Client Sample ID: DG-P13W

Date Collected: 01/11/19 12:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*	*01/16/19 10:29*	*01/21/19 15:54*	*1*
Nitrobenzene-d5	*71*		*10 - 120*	*01/16/19 10:29*	*01/21/19 15:54*	*1*
Terphenyl-d14	*87*		*21 - 120*	*01/16/19 10:29*	*01/21/19 15:54*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F2 F1	550	110	ug/L		01/17/19 05:53	01/17/19 11:37	1
Motor Oil Range Organics [C24-C36]	ND		550	110	ug/L		01/17/19 05:53	01/17/19 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*45 - 120*	*01/17/19 05:53*	*01/17/19 11:37*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**6.6**	**J**	10	4.1	ug/L		01/14/19 10:32	01/15/19 19:41	1
Arsenic	**3.8**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:41	1
Barium	**42**	**J**	50	1.6	ug/L		01/14/19 10:32	01/15/19 19:41	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 19:41	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 19:41	1
Chromium	ND		10	0.70	ug/L		01/14/19 10:32	01/15/19 19:41	1
Cobalt	ND		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 19:41	1
Copper	**5.8**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 19:41	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 19:41	1
Molybdenum	**6.1**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:41	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/15/19 19:41	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 19:41	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 19:41	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 19:41	1
Vanadium	**3.5**	**J**	10	0.87	ug/L		01/14/19 10:32	01/15/19 19:41	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 19:41	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 19:38	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
720-90735-1	DG-S15W	112	104
720-90735-1 MS	DG-S15W	111	102
720-90735-1 MSD	DG-S15W	110	101
720-90735-2	DUP-107	122	99
720-90735-3	DG-Q15W	115	102
720-90735-4	DG-O15W	106	105
720-90735-5	DG-N13W	109	107
720-90735-6	DUP-89	109	108
720-90735-7	DG-P13W	108	104
720-90735-7 MS	DG-P13W	104	100
720-90735-7 MSD	DG-P13W	106	98
LCS 440-524180/5	Lab Control Sample	108	97
LCS 440-524188/6	Lab Control Sample	108	98
MB 440-524180/4	Method Blank	113	103
MB 440-524188/8	Method Blank	106	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
720-90735-1	DG-S15W	112	106	104
720-90735-1 MS	DG-S15W	107	103	102
720-90735-1 MSD	DG-S15W	113	103	101
720-90735-2	DUP-107	116	105	99
720-90735-3	DG-Q15W	114	107	102
720-90735-4	DG-O15W	106	100	105
720-90735-5	DG-N13W	107	100	107
720-90735-6	DUP-89	109	100	108
720-90735-7	DG-P13W	108	103	104
720-90735-7 MS	DG-P13W	110	96	100
720-90735-7 MSD	DG-P13W	110	97	98
LCS 440-524181/6	Lab Control Sample	110	108	103
LCS 440-524189/7	Lab Control Sample	110	97	104
MB 440-524181/4	Method Blank	108	108	103
MB 440-524189/8	Method Blank	106	98	104

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-90735-1	DG-S15W	97	79	75
720-90735-2	DUP-107	74	42	55
720-90735-3	DG-Q15W	68	45	44
720-90735-4	DG-O15W	81	62	94
720-90735-5	DG-N13W	107	89	91
720-90735-6	DUP-89	70	44	44
720-90735-7	DG-P13W	93	71	87
720-90735-7 MS	DG-P13W	83	55	87
720-90735-7 MSD	DG-P13W	81	51	95
LCS 440-522780/2-A	Lab Control Sample	84	73	110
MB 440-522780/1-A	Method Blank	89	72	110

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-90735-1	DG-S15W	54
720-90735-2	DUP-107	40 X
720-90735-3	DG-Q15W	60
720-90735-4	DG-O15W	54
720-90735-5	DG-N13W	58
720-90735-6	DUP-89	62
720-90735-7	DG-P13W	64
720-90735-7 MS	DG-P13W	55
720-90735-7 MSD	DG-P13W	71
LCS 440-523003/2-A	Lab Control Sample	63
MB 440-523003/1-A	Method Blank	65

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-524180/4
Matrix: Water
Analysis Batch: 524180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Acetone	ND		20	10	ug/L			01/22/19 19:52	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 19:52	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 19:52	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 19:52	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 19:52	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 19:52	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 19:52	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 19:52	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 19:52	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 19:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 19:52	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 19:52	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 19:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-524180/4
Matrix: Water
Analysis Batch: 524180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 19:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 19:52	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 19:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 19:52	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 19:52	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 19:52	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 19:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/22/19 19:52*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*01/22/19 19:52*	*1*

Lab Sample ID: LCS 440-524180/5
Matrix: Water
Analysis Batch: 524180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.7		ug/L		107	63 - 131
Acetone	25.0	22.9		ug/L		92	10 - 150
Benzene	25.0	25.5		ug/L		102	68 - 130
Dichlorobromomethane	25.0	26.0		ug/L		104	70 - 132
Bromobenzene	25.0	25.1		ug/L		100	70 - 130
Chlorobromomethane	25.0	27.7		ug/L		111	70 - 130
Bromoform	25.0	24.8		ug/L		99	60 - 148
Bromomethane	25.0	27.8		ug/L		111	64 - 139
2-Butanone (MEK)	25.0	25.2		ug/L		101	44 - 150
n-Butylbenzene	25.0	27.3		ug/L		109	65 - 150
sec-Butylbenzene	25.0	26.4		ug/L		106	70 - 138
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 130
Carbon disulfide	25.0	26.6		ug/L		106	52 - 136
Carbon tetrachloride	25.0	26.4		ug/L		105	60 - 150
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130
Chloroethane	25.0	26.3		ug/L		105	64 - 135
Chloroform	25.0	28.2		ug/L		113	70 - 130
Chloromethane	25.0	23.1		ug/L		92	47 - 140
2-Chlorotoluene	25.0	25.9		ug/L		103	70 - 130
4-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524180/5
Matrix: Water
Analysis Batch: 524180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	25.0		ug/L		100	69 - 145
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	25.1		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	25.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	52 - 140
Ethylene Dibromide	25.0	24.9		ug/L		100	70 - 130
Dibromomethane	25.0	25.1		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	21.1		ug/L		84	29 - 150
1,1-Dichloroethane	25.0	26.7		ug/L		107	64 - 130
1,2-Dichloroethane	25.0	26.1		ug/L		104	57 - 138
1,1-Dichloroethene	25.0	28.8		ug/L		115	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 133
trans-1,2-Dichloroethene	25.0	27.6		ug/L		110	70 - 130
1,2-Dichloropropane	25.0	25.8		ug/L		103	67 - 130
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	70 - 133
trans-1,3-Dichloropropene	25.0	27.7		ug/L		111	70 - 132
Ethylbenzene	25.0	25.1		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	26.7		ug/L		107	10 - 150
2-Hexanone	25.0	22.3		ug/L		89	10 - 150
Isopropylbenzene	25.0	25.9		ug/L		104	70 - 136
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 132
Methylene Chloride	25.0	27.4		ug/L		109	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	23.5		ug/L		94	59 - 149
Naphthalene	25.0	23.5		ug/L		94	60 - 140
N-Propylbenzene	25.0	26.2		ug/L		105	67 - 139
Styrene	25.0	24.4		ug/L		98	70 - 134
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		100	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		99	63 - 130
Tetrachloroethene	25.0	24.3		ug/L		97	70 - 130
Toluene	25.0	25.4		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	24.6		ug/L		98	60 - 140
1,2,4-Trichlorobenzene	25.0	24.6		ug/L		98	60 - 140
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	70 - 130
Trichloroethene	25.0	24.8		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	25.7		ug/L		103	60 - 150
1,2,3-Trichloropropane	25.0	25.2		ug/L		101	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.6		ug/L		118	60 - 140
1,2,4-Trimethylbenzene	25.0	26.1		ug/L		104	70 - 135
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 136
Vinyl acetate	25.0	27.9		ug/L		112	48 - 140
Vinyl chloride	25.0	23.0		ug/L		92	59 - 133
m-Xylene & p-Xylene	25.0	25.3		ug/L		101	70 - 130
o-Xylene	25.0	25.5		ug/L		102	70 - 130
2,2-Dichloropropane	25.0	27.0		ug/L		108	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524180/5
Matrix: Water
Analysis Batch: 524180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 720-90735-1 MS
Matrix: Water
Analysis Batch: 524180

Client Sample ID: DG-S15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	29.1		ug/L		116	70 - 130
Acetone	ND		25.0	33.4		ug/L		134	10 - 150
Benzene	ND		25.0	27.3		ug/L		109	66 - 130
Dichlorobromomethane	ND		25.0	27.6		ug/L		110	70 - 138
Bromobenzene	ND		25.0	25.9		ug/L		103	70 - 130
Chlorobromomethane	ND		25.0	29.6		ug/L		118	70 - 130
Bromoform	ND		25.0	28.3		ug/L		113	59 - 150
Bromomethane	ND		25.0	28.8		ug/L		115	62 - 131
2-Butanone (MEK)	ND		25.0	26.5		ug/L		106	48 - 140
n-Butylbenzene	ND		25.0	27.5		ug/L		110	61 - 149
sec-Butylbenzene	ND		25.0	27.5		ug/L		110	67 - 134
tert-Butylbenzene	ND		25.0	26.8		ug/L		107	70 - 130
Carbon disulfide	ND		25.0	27.2		ug/L		109	49 - 140
Carbon tetrachloride	ND		25.0	28.3		ug/L		113	60 - 150
Chlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130
Chloroethane	ND		25.0	26.7		ug/L		107	68 - 130
Chloroform	ND		25.0	29.1		ug/L		117	70 - 130
Chloromethane	ND		25.0	25.1		ug/L		100	39 - 144
2-Chlorotoluene	ND		25.0	27.1		ug/L		108	70 - 130
4-Chlorotoluene	ND		25.0	26.8		ug/L		107	70 - 130
Chlorodibromomethane	ND		25.0	27.8		ug/L		111	70 - 148
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130
1,3-Dichloropropane	ND		25.0	27.7		ug/L		111	70 - 130
1,1-Dichloropropene	ND		25.0	27.2		ug/L		109	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	27.7		ug/L		111	48 - 140
Ethylene Dibromide	ND		25.0	26.9		ug/L		108	70 - 131
Dibromomethane	ND		25.0	28.1		ug/L		112	70 - 130
Dichlorodifluoromethane	ND		25.0	23.1		ug/L		92	25 - 142
1,1-Dichloroethane	ND		25.0	28.6		ug/L		114	65 - 130
1,2-Dichloroethane	ND		25.0	27.1		ug/L		108	56 - 146
1,1-Dichloroethene	ND		25.0	30.5		ug/L		122	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.5		ug/L		106	70 - 130
trans-1,2-Dichloroethene	ND		25.0	29.8		ug/L		119	70 - 130
1,2-Dichloropropane	ND		25.0	28.3		ug/L		113	69 - 130
cis-1,3-Dichloropropene	ND		25.0	29.7		ug/L		119	70 - 133
trans-1,3-Dichloropropene	ND		25.0	29.8		ug/L		119	70 - 138
Ethylbenzene	ND		25.0	27.8		ug/L		111	70 - 130
Hexachlorobutadiene	ND		25.0	27.6		ug/L		111	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90735-1 MS
Matrix: Water
Analysis Batch: 524180

Client Sample ID: DG-S15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	26.7		ug/L		107	10 - 150
Isopropylbenzene	ND		25.0	28.1		ug/L		112	70 - 132
4-Isopropyltoluene	ND		25.0	26.9		ug/L		107	70 - 130
Methylene Chloride	ND		25.0	28.9		ug/L		116	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	27.3		ug/L		109	52 - 150
Naphthalene	ND		25.0	25.5		ug/L		102	60 - 140
N-Propylbenzene	ND		25.0	27.1		ug/L		108	66 - 135
Styrene	ND		25.0	26.6		ug/L		106	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.0		ug/L		108	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	27.0		ug/L		108	63 - 130
Tetrachloroethene	0.72		25.0	27.5		ug/L		107	70 - 137
Toluene	ND		25.0	27.2		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.3		ug/L		101	60 - 140
1,1,1-Trichloroethane	ND		25.0	28.1		ug/L		112	70 - 130
1,1,2-Trichloroethane	ND		25.0	28.4		ug/L		114	70 - 130
Trichloroethene	0.55		25.0	27.0		ug/L		106	70 - 130
Trichlorofluoromethane	ND		25.0	27.0		ug/L		108	60 - 150
1,2,3-Trichloropropane	ND		25.0	26.8		ug/L		107	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	31.4		ug/L		126	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	26.6		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	26.2		ug/L		105	70 - 130
Vinyl acetate	ND		25.0	30.1		ug/L		120	23 - 150
Vinyl chloride	ND		25.0	24.8		ug/L		99	50 - 137
m-Xylene & p-Xylene	ND		25.0	27.8		ug/L		111	70 - 133
o-Xylene	ND		25.0	27.7		ug/L		111	70 - 133
2,2-Dichloropropane	ND		25.0	29.8		ug/L		119	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 720-90735-1 MSD
Matrix: Water
Analysis Batch: 524180

Client Sample ID: DG-S15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	28.8		ug/L		115	70 - 130	1	25
Acetone	ND		25.0	32.0		ug/L		128	10 - 150	4	35
Benzene	ND		25.0	26.8		ug/L		107	66 - 130	2	20
Dichlorobromomethane	ND		25.0	27.9		ug/L		112	70 - 138	1	20
Bromobenzene	ND		25.0	26.5		ug/L		106	70 - 130	2	20
Chlorobromomethane	ND		25.0	28.9		ug/L		116	70 - 130	2	25
Bromoform	ND		25.0	27.0		ug/L		108	59 - 150	5	25
Bromomethane	ND		25.0	28.6		ug/L		114	62 - 131	1	25
2-Butanone (MEK)	ND		25.0	30.6		ug/L		122	48 - 140	14	40
n-Butylbenzene	ND		25.0	28.4		ug/L		114	61 - 149	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90735-1 MSD
Matrix: Water
Analysis Batch: 524180

Client Sample ID: DG-S15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	27.5		ug/L		110	67 - 134	0	20
tert-Butylbenzene	ND		25.0	27.5		ug/L		110	70 - 130	3	20
Carbon disulfide	ND		25.0	27.5		ug/L		110	49 - 140	1	20
Carbon tetrachloride	ND		25.0	28.1		ug/L		112	60 - 150	1	25
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	1	20
Chloroethane	ND		25.0	27.7		ug/L		111	68 - 130	4	25
Chloroform	ND		25.0	28.7		ug/L		115	70 - 130	2	20
Chloromethane	ND		25.0	24.1		ug/L		97	39 - 144	4	25
2-Chlorotoluene	ND		25.0	26.9		ug/L		108	70 - 130	1	20
4-Chlorotoluene	ND		25.0	27.5		ug/L		110	70 - 130	3	20
Chlorodibromomethane	ND		25.0	27.2		ug/L		109	70 - 148	2	25
1,2-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130	2	20
1,4-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	27.5		ug/L		110	70 - 130	1	25
1,1-Dichloropropene	ND		25.0	27.1		ug/L		109	64 - 130	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	31.3		ug/L		125	48 - 140	12	30
Ethylene Dibromide	ND		25.0	26.4		ug/L		106	70 - 131	2	25
Dibromomethane	ND		25.0	27.4		ug/L		109	70 - 130	3	25
Dichlorodifluoromethane	ND		25.0	21.6		ug/L		86	25 - 142	7	30
1,1-Dichloroethane	ND		25.0	27.9		ug/L		112	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	28.0		ug/L		112	56 - 146	3	20
1,1-Dichloroethene	ND		25.0	29.8		ug/L		119	70 - 130	2	20
cis-1,2-Dichloroethene	ND		25.0	26.4		ug/L		105	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	30.2		ug/L		121	70 - 130	1	20
1,2-Dichloropropane	ND		25.0	27.0		ug/L		108	69 - 130	5	20
cis-1,3-Dichloropropene	ND		25.0	29.0		ug/L		116	70 - 133	2	20
trans-1,3-Dichloropropene	ND		25.0	29.2		ug/L		117	70 - 138	2	25
Ethylbenzene	ND		25.0	27.2		ug/L		109	70 - 130	2	20
Hexachlorobutadiene	ND		25.0	26.8		ug/L		107	10 - 150	3	20
2-Hexanone	ND		25.0	27.9		ug/L		111	10 - 150	4	35
Isopropylbenzene	ND		25.0	27.6		ug/L		111	70 - 132	2	20
4-Isopropyltoluene	ND		25.0	27.1		ug/L		108	70 - 130	1	20
Methylene Chloride	ND		25.0	28.5		ug/L		114	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	27.7		ug/L		111	52 - 150	1	35
Naphthalene	ND		25.0	26.8		ug/L		107	60 - 140	5	30
N-Propylbenzene	ND		25.0	27.4		ug/L		110	66 - 135	1	20
Styrene	ND		25.0	26.3		ug/L		105	29 - 150	1	35
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	60 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	27.6		ug/L		110	63 - 130	2	30
Tetrachloroethene	0.72		25.0	26.6		ug/L		103	70 - 137	3	20
Toluene	ND		25.0	26.5		ug/L		106	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		25.0	26.6		ug/L		106	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140	3	20
1,1,1-Trichloroethane	ND		25.0	27.6		ug/L		110	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	27.6		ug/L		110	70 - 130	3	25
Trichloroethene	0.55		25.0	26.4		ug/L		103	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	26.5		ug/L		106	60 - 150	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90735-1 MSD
Matrix: Water
Analysis Batch: 524180

Client Sample ID: DG-S15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	27.9		ug/L		111	60 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	30.7		ug/L		123	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		25.0	27.1		ug/L		108	70 - 130	2	25
1,3,5-Trimethylbenzene	ND		25.0	27.3		ug/L		109	70 - 130	4	20
Vinyl acetate	ND		25.0	29.4		ug/L		118	23 - 150	2	30
Vinyl chloride	ND		25.0	24.0		ug/L		96	50 - 137	3	30
m-Xylene & p-Xylene	ND		25.0	27.3		ug/L		109	70 - 133	2	25
o-Xylene	ND		25.0	27.9		ug/L		112	70 - 133	0	20
2,2-Dichloropropane	ND		25.0	28.7		ug/L		115	69 - 138	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: MB 440-524188/8
Matrix: Water
Analysis Batch: 524188

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Acetone	ND		20	10	ug/L			01/22/19 22:35	1
Benzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Bromobenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Bromoform	ND		1.0	0.40	ug/L			01/22/19 22:35	1
Bromomethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/22/19 22:35	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/22/19 22:35	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/19 22:35	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Chloroethane	ND		1.0	0.40	ug/L			01/22/19 22:35	1
Chloroform	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Chloromethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/22/19 22:35	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/22/19 22:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-524188/8
Matrix: Water
Analysis Batch: 524188

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/22/19 22:35	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
2-Hexanone	ND		5.0	2.5	ug/L			01/22/19 22:35	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/22/19 22:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/22/19 22:35	1
Naphthalene	ND		1.0	0.40	ug/L			01/22/19 22:35	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Styrene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Toluene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 22:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/22/19 22:35	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Trichloroethene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/22/19 22:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/22/19 22:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/22/19 22:35	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/22/19 22:35	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/22/19 22:35	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/22/19 22:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/22/19 22:35*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/22/19 22:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524188/6
Matrix: Water
Analysis Batch: 524188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	29.5		ug/L		118	63 - 131
Acetone	25.0	24.3		ug/L		97	10 - 150
Benzene	25.0	26.5		ug/L		106	68 - 130
Dichlorobromomethane	25.0	28.4		ug/L		114	70 - 132
Bromobenzene	25.0	25.1		ug/L		101	70 - 130
Chlorobromomethane	25.0	29.0		ug/L		116	70 - 130
Bromoform	25.0	25.9		ug/L		103	60 - 148
Bromomethane	25.0	25.4		ug/L		102	64 - 139
2-Butanone (MEK)	25.0	23.8		ug/L		95	44 - 150
n-Butylbenzene	25.0	24.3		ug/L		97	65 - 150
sec-Butylbenzene	25.0	24.0		ug/L		96	70 - 138
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 130
Carbon disulfide	25.0	27.0		ug/L		108	52 - 136
Carbon tetrachloride	25.0	29.3		ug/L		117	60 - 150
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130
Chloroethane	25.0	23.1		ug/L		92	64 - 135
Chloroform	25.0	29.1		ug/L		116	70 - 130
Chloromethane	25.0	22.8		ug/L		91	47 - 140
2-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
Chlorodibromomethane	25.0	26.8		ug/L		107	69 - 145
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,3-Dichloropropane	25.0	25.7		ug/L		103	70 - 130
1,1-Dichloropropene	25.0	28.6		ug/L		115	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.1		ug/L		100	52 - 140
Ethylene Dibromide	25.0	25.4		ug/L		102	70 - 130
Dibromomethane	25.0	28.7		ug/L		115	70 - 130
Dichlorodifluoromethane	25.0	23.7		ug/L		95	29 - 150
1,1-Dichloroethane	25.0	27.0		ug/L		108	64 - 130
1,2-Dichloroethane	25.0	29.0		ug/L		116	57 - 138
1,1-Dichloroethene	25.0	29.0		ug/L		116	70 - 130
cis-1,2-Dichloroethene	25.0	29.4		ug/L		118	70 - 133
trans-1,2-Dichloroethene	25.0	27.7		ug/L		111	70 - 130
1,2-Dichloropropane	25.0	27.4		ug/L		110	67 - 130
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 133
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 132
Ethylbenzene	25.0	25.0		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	25.9		ug/L		104	10 - 150
2-Hexanone	25.0	20.9		ug/L		83	10 - 150
Isopropylbenzene	25.0	25.4		ug/L		102	70 - 136
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 132
Methylene Chloride	25.0	27.6		ug/L		110	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	21.5		ug/L		86	59 - 149
Naphthalene	25.0	25.8		ug/L		103	60 - 140
N-Propylbenzene	25.0	24.0		ug/L		96	67 - 139
Styrene	25.0	22.6		ug/L		91	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524188/6
Matrix: Water
Analysis Batch: 524188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		106	60 - 141
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		93	63 - 130
Tetrachloroethene	25.0	26.7		ug/L		107	70 - 130
Toluene	25.0	25.0		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	60 - 140
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		104	60 - 140
1,1,1-Trichloroethane	25.0	29.8		ug/L		119	70 - 130
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
Trichloroethene	25.0	28.9		ug/L		116	70 - 130
Trichlorofluoromethane	25.0	26.4		ug/L		106	60 - 150
1,2,3-Trichloropropane	25.0	25.4		ug/L		102	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.9		ug/L		116	60 - 140
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 135
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 136
Vinyl acetate	25.0	27.3		ug/L		109	48 - 140
Vinyl chloride	25.0	21.7		ug/L		87	59 - 133
m-Xylene & p-Xylene	25.0	25.3		ug/L		101	70 - 130
o-Xylene	25.0	26.0		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	28.5		ug/L		114	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-90735-7 MS
Matrix: Water
Analysis Batch: 524188

Client Sample ID: DG-P13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	28.2		ug/L		113	70 - 130
Acetone	ND		25.0	23.8		ug/L		95	10 - 150
Benzene	ND		25.0	25.7		ug/L		103	66 - 130
Dichlorobromomethane	ND		25.0	28.0		ug/L		112	70 - 138
Bromobenzene	ND		25.0	26.2		ug/L		105	70 - 130
Chlorobromomethane	ND		25.0	28.5		ug/L		114	70 - 130
Bromoform	ND		25.0	25.8		ug/L		103	59 - 150
Bromomethane	ND		25.0	20.5		ug/L		82	62 - 131
2-Butanone (MEK)	ND		25.0	24.0		ug/L		96	48 - 140
n-Butylbenzene	ND		25.0	26.1		ug/L		105	61 - 149
sec-Butylbenzene	ND		25.0	25.6		ug/L		102	67 - 134
tert-Butylbenzene	ND		25.0	25.9		ug/L		104	70 - 130
Carbon disulfide	ND		25.0	23.2		ug/L		93	49 - 140
Carbon tetrachloride	ND		25.0	29.7		ug/L		119	60 - 150
Chlorobenzene	ND		25.0	26.3		ug/L		105	70 - 130
Chloroethane	ND		25.0	19.4		ug/L		77	68 - 130
Chloroform	ND		25.0	28.1		ug/L		113	70 - 130
Chloromethane	ND		25.0	16.0		ug/L		64	39 - 144

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90735-7 MS
Matrix: Water
Analysis Batch: 524188

Client Sample ID: DG-P13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		25.0	25.3		ug/L		101	70 - 130
4-Chlorotoluene	ND		25.0	25.7		ug/L		103	70 - 130
Chlorodibromomethane	ND		25.0	27.7		ug/L		111	70 - 148
1,2-Dichlorobenzene	ND		25.0	27.4		ug/L		110	70 - 130
1,3-Dichlorobenzene	ND		25.0	27.1		ug/L		108	70 - 130
1,4-Dichlorobenzene	ND		25.0	27.3		ug/L		109	70 - 130
1,3-Dichloropropane	ND		25.0	25.8		ug/L		103	70 - 130
1,1-Dichloropropene	ND		25.0	28.3		ug/L		113	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	24.2		ug/L		97	48 - 140
Ethylene Dibromide	ND		25.0	25.3		ug/L		101	70 - 131
Dibromomethane	ND		25.0	28.0		ug/L		112	70 - 130
Dichlorodifluoromethane	ND		25.0	14.7		ug/L		59	25 - 142
1,1-Dichloroethane	ND		25.0	26.1		ug/L		104	65 - 130
1,2-Dichloroethane	ND		25.0	28.5		ug/L		114	56 - 146
1,1-Dichloroethene	ND		25.0	26.1		ug/L		104	70 - 130
cis-1,2-Dichloroethene	ND		25.0	28.5		ug/L		114	70 - 130
trans-1,2-Dichloroethene	ND		25.0	26.3		ug/L		105	70 - 130
1,2-Dichloropropane	ND		25.0	27.4		ug/L		109	69 - 130
cis-1,3-Dichloropropene	ND		25.0	27.9		ug/L		112	70 - 133
trans-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	70 - 138
Ethylbenzene	ND		25.0	25.8		ug/L		103	70 - 130
Hexachlorobutadiene	ND		25.0	26.9		ug/L		107	10 - 150
2-Hexanone	ND		25.0	20.6		ug/L		82	10 - 150
Isopropylbenzene	ND		25.0	26.7		ug/L		107	70 - 132
4-Isopropyltoluene	ND		25.0	26.7		ug/L		107	70 - 130
Methylene Chloride	ND		25.0	25.9		ug/L		104	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.7		ug/L		87	52 - 150
Naphthalene	ND		25.0	26.4		ug/L		106	60 - 140
N-Propylbenzene	ND		25.0	25.4		ug/L		102	66 - 135
Styrene	ND		25.0	23.3		ug/L		93	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.4		ug/L		110	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.6		ug/L		94	63 - 130
Tetrachloroethene	ND		25.0	27.7		ug/L		111	70 - 137
Toluene	ND		25.0	25.4		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.0		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	28.2		ug/L		113	60 - 140
1,1,1-Trichloroethane	ND		25.0	29.8		ug/L		119	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.6		ug/L		102	70 - 130
Trichloroethene	ND		25.0	28.1		ug/L		112	70 - 130
Trichlorofluoromethane	ND		25.0	23.3		ug/L		93	60 - 150
1,2,3-Trichloropropane	ND		25.0	26.4		ug/L		105	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.1		ug/L		104	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.9		ug/L		104	70 - 130
Vinyl acetate	ND		25.0	25.3		ug/L		101	23 - 150
Vinyl chloride	ND		25.0	16.3		ug/L		65	50 - 137
m-Xylene & p-Xylene	ND		25.0	26.2		ug/L		105	70 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90735-7 MS
Matrix: Water
Analysis Batch: 524188

Client Sample ID: DG-P13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	ND		25.0	26.9		ug/L		108	70 - 133
2,2-Dichloropropane	ND		25.0	28.7		ug/L		115	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-90735-7 MSD
Matrix: Water
Analysis Batch: 524188

Client Sample ID: DG-P13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	28.6		ug/L		114	70 - 130	1	25
Acetone	ND		25.0	27.1		ug/L		108	10 - 150	13	35
Benzene	ND		25.0	25.9		ug/L		103	66 - 130	1	20
Dichlorobromomethane	ND		25.0	28.5		ug/L		114	70 - 138	2	20
Bromobenzene	ND		25.0	26.9		ug/L		108	70 - 130	2	20
Chlorobromomethane	ND		25.0	28.9		ug/L		115	70 - 130	1	25
Bromoform	ND		25.0	26.5		ug/L		106	59 - 150	3	25
Bromomethane	ND		25.0	20.8		ug/L		83	62 - 131	1	25
2-Butanone (MEK)	ND		25.0	24.5		ug/L		98	48 - 140	2	40
n-Butylbenzene	ND		25.0	25.8		ug/L		103	61 - 149	1	20
sec-Butylbenzene	ND		25.0	25.3		ug/L		101	67 - 134	1	20
tert-Butylbenzene	ND		25.0	25.9		ug/L		103	70 - 130	0	20
Carbon disulfide	ND		25.0	22.9		ug/L		92	49 - 140	1	20
Carbon tetrachloride	ND		25.0	29.4		ug/L		118	60 - 150	1	25
Chlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	1	20
Chloroethane	ND		25.0	19.0		ug/L		76	68 - 130	2	25
Chloroform	ND		25.0	28.6		ug/L		114	70 - 130	2	20
Chloromethane	ND		25.0	15.7		ug/L		63	39 - 144	2	25
2-Chlorotoluene	ND		25.0	25.9		ug/L		104	70 - 130	2	20
4-Chlorotoluene	ND		25.0	25.8		ug/L		103	70 - 130	0	20
Chlorodibromomethane	ND		25.0	28.5		ug/L		114	70 - 148	3	25
1,2-Dichlorobenzene	ND		25.0	27.5		ug/L		110	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	27.3		ug/L		109	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	27.4		ug/L		110	70 - 130	0	20
1,3-Dichloropropane	ND		25.0	26.2		ug/L		105	70 - 130	1	25
1,1-Dichloropropene	ND		25.0	28.3		ug/L		113	64 - 130	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.8		ug/L		103	48 - 140	6	30
Ethylene Dibromide	ND		25.0	26.3		ug/L		105	70 - 131	4	25
Dibromomethane	ND		25.0	28.5		ug/L		114	70 - 130	2	25
Dichlorodifluoromethane	ND		25.0	14.9		ug/L		60	25 - 142	2	30
1,1-Dichloroethane	ND		25.0	26.2		ug/L		105	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	29.0		ug/L		116	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	25.7		ug/L		103	70 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	29.0		ug/L		116	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	26.5		ug/L		106	70 - 130	1	20
1,2-Dichloropropane	ND		25.0	27.0		ug/L		108	69 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90735-7 MSD
Matrix: Water
Analysis Batch: 524188

Client Sample ID: DG-P13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND		25.0	28.3		ug/L		113	70 - 133	1	20
trans-1,3-Dichloropropene	ND		25.0	26.9		ug/L		108	70 - 138	2	25
Ethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130	0	20
Hexachlorobutadiene	ND		25.0	27.6		ug/L		110	10 - 150	3	20
2-Hexanone	ND		25.0	21.5		ug/L		86	10 - 150	4	35
Isopropylbenzene	ND		25.0	26.4		ug/L		106	70 - 132	1	20
4-Isopropyltoluene	ND		25.0	26.7		ug/L		107	70 - 130	0	20
Methylene Chloride	ND		25.0	26.2		ug/L		105	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	22.4		ug/L		89	52 - 150	3	35
Naphthalene	ND		25.0	27.2		ug/L		109	60 - 140	3	30
N-Propylbenzene	ND		25.0	25.2		ug/L		101	66 - 135	1	20
Styrene	ND		25.0	23.3		ug/L		93	29 - 150	0	35
1,1,1,2-Tetrachloroethane	ND		25.0	27.9		ug/L		111	60 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.2		ug/L		97	63 - 130	3	30
Tetrachloroethene	ND		25.0	28.0		ug/L		112	70 - 137	1	20
Toluene	ND		25.0	25.4		ug/L		102	70 - 130	0	20
1,2,3-Trichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140	0	20
1,2,4-Trichlorobenzene	ND		25.0	27.5		ug/L		110	60 - 140	3	20
1,1,1-Trichloroethane	ND		25.0	29.5		ug/L		118	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	25.6		ug/L		103	70 - 130	0	25
Trichloroethene	ND		25.0	29.6		ug/L		119	70 - 130	5	20
Trichlorofluoromethane	ND		25.0	22.9		ug/L		91	60 - 150	2	25
1,2,3-Trichloropropane	ND		25.0	27.1		ug/L		108	60 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.9		ug/L		103	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		25.0	25.6		ug/L		102	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		25.0	26.0		ug/L		104	70 - 130	0	20
Vinyl acetate	ND		25.0	26.6		ug/L		106	23 - 150	5	30
Vinyl chloride	ND		25.0	16.5		ug/L		66	50 - 137	1	30
m-Xylene & p-Xylene	ND		25.0	26.1		ug/L		104	70 - 133	0	25
o-Xylene	ND		25.0	26.4		ug/L		106	70 - 133	2	20
2,2-Dichloropropane	ND		25.0	28.6		ug/L		114	69 - 138	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-524181/4
Matrix: Water
Analysis Batch: 524181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/22/19 19:52	1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-524181/4
Matrix: Water
Analysis Batch: 524181

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		76 - 132		01/22/19 19:52	1
4-Bromofluorobenzene (Surr)	108		80 - 120		01/22/19 19:52	1
Toluene-d8 (Surr)	103		80 - 128		01/22/19 19:52	1

Lab Sample ID: LCS 440-524181/6
Matrix: Water
Analysis Batch: 524181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	409		ug/L		82	55 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	110		76 - 132
4-Bromofluorobenzene (Surr)	108		80 - 120
Toluene-d8 (Surr)	103		80 - 128

Lab Sample ID: 720-90735-1 MS
Matrix: Water
Analysis Batch: 524181

Client Sample ID: DG-S15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1760		ug/L		102	50 - 145		

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	107		76 - 132
4-Bromofluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	102		80 - 128

Lab Sample ID: 720-90735-1 MSD
Matrix: Water
Analysis Batch: 524181

Client Sample ID: DG-S15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1720		ug/L		100	50 - 145	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	113		76 - 132
4-Bromofluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	101		80 - 128

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-524189/8
Matrix: Water
Analysis Batch: 524189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/22/19 22:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*01/22/19 22:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/22/19 22:35*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/22/19 22:35*	*1*

Lab Sample ID: LCS 440-524189/7
Matrix: Water
Analysis Batch: 524189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	552		ug/L		110	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: 720-90735-7 MS
Matrix: Water
Analysis Batch: 524189

Client Sample ID: DG-P13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1750		ug/L		102	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-90735-7 MSD
Matrix: Water
Analysis Batch: 524189

Client Sample ID: DG-P13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1750		ug/L		101	50 - 145	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-522780/1-A
Matrix: Water
Analysis Batch: 523378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Acenaphthene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Fluorene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Phenanthrene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Anthracene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Chrysene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Pyrene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/16/19 10:29	01/18/19 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*38 - 120*	*01/16/19 10:29*	*01/18/19 11:49*	*1*
Nitrobenzene-d5	*72*		*10 - 120*	*01/16/19 10:29*	*01/18/19 11:49*	*1*
Terphenyl-d14	*110*		*21 - 120*	*01/16/19 10:29*	*01/18/19 11:49*	*1*

Lab Sample ID: LCS 440-522780/2-A
Matrix: Water
Analysis Batch: 523378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.717		ug/L		72	50 - 120
Acenaphthene	1.00	0.787		ug/L		79	55 - 120
Acenaphthylene	1.00	0.807		ug/L		81	53 - 120
Fluorene	1.00	0.848		ug/L		85	56 - 120
Phenanthrene	1.00	0.905		ug/L		91	56 - 120
Anthracene	1.00	0.859		ug/L		86	54 - 120
Benzo[a]anthracene	1.00	0.902		ug/L		90	53 - 120
Chrysene	1.00	0.875		ug/L		88	56 - 120
Benzo[a]pyrene	1.00	0.897		ug/L		90	44 - 120
Benzo[b]fluoranthene	1.00	0.922		ug/L		92	48 - 120
Benzo[k]fluoranthene	1.00	0.945		ug/L		94	47 - 121
Benzo[g,h,i]perylene	1.00	0.941		ug/L		94	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.878		ug/L		88	38 - 120
Fluoranthene	1.00	1.02		ug/L		102	59 - 120
Pyrene	1.00	0.984		ug/L		98	59 - 120
Dibenz(a,h)anthracene	1.00	0.894		ug/L		89	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*84*		*38 - 120*
Nitrobenzene-d5	*73*		*10 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-522780/2-A
Matrix: Water
Analysis Batch: 523378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522780

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	*110*		*21 - 120*

Lab Sample ID: 720-90735-7 MS
Matrix: Water
Analysis Batch: 523378

Client Sample ID: DG-P13W
Prep Type: Total/NA
Prep Batch: 522780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		1.02	0.723		ug/L		71	10 - 150
Acenaphthene	ND		1.02	0.814		ug/L		80	10 - 150
Acenaphthylene	ND		1.02	0.835		ug/L		82	23 - 132
Fluorene	ND		1.02	0.924		ug/L		91	10 - 150
Phenanthrene	ND		1.02	0.970		ug/L		95	10 - 150
Anthracene	ND		1.02	0.920		ug/L		90	13 - 136
Benzo[a]anthracene	ND		1.02	0.756		ug/L		74	10 - 123
Chrysene	ND		1.02	0.749		ug/L		73	10 - 131
Benzo[a]pyrene	ND		1.02	0.666		ug/L		65	10 - 122
Benzo[b]fluoranthene	ND		1.02	0.634		ug/L		62	10 - 129
Benzo[k]fluoranthene	ND		1.02	0.653		ug/L		64	10 - 132
Benzo[g,h,i]perylene	ND		1.02	0.680		ug/L		67	10 - 126
Indeno[1,2,3-cd]pyrene	ND		1.02	0.634		ug/L		62	10 - 121
Fluoranthene	ND		1.02	1.07		ug/L		105	11 - 148
Pyrene	ND		1.02	1.03		ug/L		101	13 - 144
Dibenz(a,h)anthracene	ND		1.02	0.703		ug/L		69	10 - 119

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	*83*		*38 - 120*
Nitrobenzene-d5	*55*		*10 - 120*
Terphenyl-d14	*87*		*21 - 120*

Lab Sample ID: 720-90735-7 MSD
Matrix: Water
Analysis Batch: 523378

Client Sample ID: DG-P13W
Prep Type: Total/NA
Prep Batch: 522780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		0.990	0.684		ug/L		69	10 - 150	6	35
Acenaphthene	ND		0.990	0.729		ug/L		74	10 - 150	11	35
Acenaphthylene	ND		0.990	0.750		ug/L		76	23 - 132	11	35
Fluorene	ND		0.990	0.755		ug/L		76	10 - 150	20	35
Phenanthrene	ND		0.990	0.826		ug/L		83	10 - 150	16	35
Anthracene	ND		0.990	0.766		ug/L		77	13 - 136	18	35
Benzo[a]anthracene	ND		0.990	0.809		ug/L		82	10 - 123	7	35
Chrysene	ND		0.990	0.821		ug/L		83	10 - 131	9	35
Benzo[a]pyrene	ND		0.990	0.730		ug/L		74	10 - 122	9	35
Benzo[b]fluoranthene	ND		0.990	0.729		ug/L		74	10 - 129	14	35
Benzo[k]fluoranthene	ND		0.990	0.757		ug/L		76	10 - 132	15	35
Benzo[g,h,i]perylene	ND		0.990	0.789		ug/L		80	10 - 126	15	35
Indeno[1,2,3-cd]pyrene	ND		0.990	0.760		ug/L		77	10 - 121	18	35
Fluoranthene	ND		0.990	0.955		ug/L		96	11 - 148	11	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90735-7 MSD
Matrix: Water
Analysis Batch: 523378

Client Sample ID: DG-P13W
Prep Type: Total/NA
Prep Batch: 522780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene	ND		0.990	0.940		ug/L		95	13 - 144	9	35
Dibenz(a,h)anthracene	ND		0.990	0.779		ug/L		79	10 - 119	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*
Nitrobenzene-d5	*51*		*10 - 120*
Terphenyl-d14	*95*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-523003/1-A
Matrix: Water
Analysis Batch: 523032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/17/19 05:53	01/17/19 11:17	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/17/19 05:53	01/17/19 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*65*		*45 - 120*	*01/17/19 05:53*	*01/17/19 11:17*	*1*

Lab Sample ID: LCS 440-523003/2-A
Matrix: Water
Analysis Batch: 523032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	476	J	ug/L		48	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*63*		*45 - 120*

Lab Sample ID: 720-90735-7 MS
Matrix: Water
Analysis Batch: 523032

Client Sample ID: DG-P13W
Prep Type: Total/NA
Prep Batch: 523003

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	ND	F2 F1	1010	386	J F1	ug/L		38	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*55*		*45 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90735-7 MSD
Matrix: Water
Analysis Batch: 523032

Client Sample ID: DG-P13W
Prep Type: Total/NA
Prep Batch: 523003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	F2 F1	1060	739	F2	ug/L		70	40 - 120	63	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*71*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258443/1-A
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 19:03	1
Arsenic	3.66	J	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:03	1
Barium	ND		50	1.6	ug/L		01/14/19 10:32	01/15/19 19:03	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 19:03	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 19:03	1
Chromium	ND		10	0.70	ug/L		01/14/19 10:32	01/15/19 19:03	1
Cobalt	ND		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 19:03	1
Copper	ND		20	3.7	ug/L		01/14/19 10:32	01/15/19 19:03	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 19:03	1
Molybdenum	ND		10	2.9	ug/L		01/14/19 10:32	01/15/19 19:03	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/15/19 19:03	1
Selenium	4.84	J	20	4.6	ug/L		01/14/19 10:32	01/15/19 19:03	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 19:03	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 19:03	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 19:03	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 19:03	1

Lab Sample ID: LCS 720-258443/2-A
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	952		ug/L		95	80 - 120
Arsenic	1000	951		ug/L		95	80 - 120
Barium	1000	938		ug/L		94	80 - 120
Beryllium	1000	920		ug/L		92	80 - 120
Cadmium	1000	955		ug/L		95	80 - 120
Chromium	1000	940		ug/L		94	80 - 120
Cobalt	1000	961		ug/L		96	80 - 120
Copper	1000	952		ug/L		95	80 - 120
Lead	1000	969		ug/L		97	80 - 120
Molybdenum	1000	951		ug/L		95	80 - 120
Nickel	1000	961		ug/L		96	80 - 120
Selenium	1000	962		ug/L		96	80 - 120
Silver	500	432		ug/L		86	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-258443/2-A
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	1000	868		ug/L		87	80 - 120
Vanadium	1000	934		ug/L		93	80 - 120
Zinc	1000	952		ug/L		95	80 - 120

Lab Sample ID: 720-90735-7 MS
Matrix: Water
Analysis Batch: 258610

Client Sample ID: DG-P13W
Prep Type: Dissolved
Prep Batch: 258443

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	6.6	J	1000	945		ug/L		94	75 - 125
Arsenic	3.8	J B	1000	953		ug/L		95	75 - 125
Barium	42	J	1000	966		ug/L		92	75 - 125
Beryllium	ND		1000	914		ug/L		91	75 - 125
Cadmium	ND		1000	922		ug/L		92	75 - 125
Chromium	ND		1000	916		ug/L		92	75 - 125
Cobalt	ND		1000	920		ug/L		92	75 - 125
Copper	5.8	J	1000	931		ug/L		92	75 - 125
Lead	ND		1000	919		ug/L		92	75 - 125
Molybdenum	6.1	J	1000	942		ug/L		94	75 - 125
Nickel	ND		1000	915		ug/L		91	75 - 125
Selenium	ND		1000	946		ug/L		95	75 - 125
Silver	ND		500	437		ug/L		87	75 - 125
Thallium	ND		1000	870		ug/L		87	75 - 125
Vanadium	3.5	J	1000	923		ug/L		92	75 - 125
Zinc	ND		1000	922		ug/L		92	75 - 125

Lab Sample ID: 720-90735-7 MSD
Matrix: Water
Analysis Batch: 258610

Client Sample ID: DG-P13W
Prep Type: Dissolved
Prep Batch: 258443

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	6.6	J	1000	969		ug/L		96	75 - 125	3	20
Arsenic	3.8	J B	1000	976		ug/L		97	75 - 125	2	20
Barium	42	J	1000	997		ug/L		95	75 - 125	3	20
Beryllium	ND		1000	953		ug/L		95	75 - 125	4	20
Cadmium	ND		1000	939		ug/L		94	75 - 125	2	20
Chromium	ND		1000	934		ug/L		93	75 - 125	2	20
Cobalt	ND		1000	934		ug/L		93	75 - 125	2	20
Copper	5.8	J	1000	933		ug/L		93	75 - 125	0	20
Lead	ND		1000	939		ug/L		94	75 - 125	2	20
Molybdenum	6.1	J	1000	960		ug/L		95	75 - 125	2	20
Nickel	ND		1000	931		ug/L		93	75 - 125	2	20
Selenium	ND		1000	961		ug/L		96	75 - 125	2	20
Silver	ND		500	432		ug/L		86	75 - 125	1	20
Thallium	ND		1000	888		ug/L		89	75 - 125	2	20
Vanadium	3.5	J	1000	945		ug/L		94	75 - 125	2	20
Zinc	ND		1000	944		ug/L		94	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-258498/1-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 12:30	1

Lab Sample ID: LCS 720-258498/2-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258498

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			10.0	9.51		ug/L		95	85 - 115		

Lab Sample ID: 720-90735-7 MS
Matrix: Water
Analysis Batch: 258567

Client Sample ID: DG-P13W
Prep Type: Dissolved
Prep Batch: 258498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		10.0	9.89		ug/L		99	75 - 125		

Lab Sample ID: 720-90735-7 MSD
Matrix: Water
Analysis Batch: 258567

Client Sample ID: DG-P13W
Prep Type: Dissolved
Prep Batch: 258498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.70		ug/L		97	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-258403/9
Matrix: Water
Analysis Batch: 258403

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 19:38	1

Lab Sample ID: LCS 720-258403/10
Matrix: Water
Analysis Batch: 258403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	255		ug/L		102	90 - 110		

Lab Sample ID: LCSD 720-258403/11
Matrix: Water
Analysis Batch: 258403

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	255		ug/L		102	90 - 110	0	20

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 720-90735-7 MS
Matrix: Water
Analysis Batch: 258403

Client Sample ID: DG-P13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	250		ug/L		100	85 - 115		

Lab Sample ID: 720-90735-7 MSD
Matrix: Water
Analysis Batch: 258403

Client Sample ID: DG-P13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	250		ug/L		100	85 - 115	0	20

GC/MS VOA

Analysis Batch: 524180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Total/NA	Water	8260B	
720-90735-2	DUP-107	Total/NA	Water	8260B	
720-90735-3	DG-Q15W	Total/NA	Water	8260B	
MB 440-524180/4	Method Blank	Total/NA	Water	8260B	
LCS 440-524180/5	Lab Control Sample	Total/NA	Water	8260B	
720-90735-1 MS	DG-S15W	Total/NA	Water	8260B	
720-90735-1 MSD	DG-S15W	Total/NA	Water	8260B	

Analysis Batch: 524181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Total/NA	Water	8260B/CA_LUFT MS	
720-90735-2	DUP-107	Total/NA	Water	8260B/CA_LUFT MS	
720-90735-3	DG-Q15W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-524181/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-524181/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90735-1 MS	DG-S15W	Total/NA	Water	8260B/CA_LUFT MS	
720-90735-1 MSD	DG-S15W	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 524188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-4	DG-O15W	Total/NA	Water	8260B	
720-90735-5	DG-N13W	Total/NA	Water	8260B	
720-90735-6	DUP-89	Total/NA	Water	8260B	
720-90735-7	DG-P13W	Total/NA	Water	8260B	
MB 440-524188/8	Method Blank	Total/NA	Water	8260B	
LCS 440-524188/6	Lab Control Sample	Total/NA	Water	8260B	
720-90735-7 MS	DG-P13W	Total/NA	Water	8260B	
720-90735-7 MSD	DG-P13W	Total/NA	Water	8260B	

Analysis Batch: 524189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-4	DG-O15W	Total/NA	Water	8260B/CA_LUFT MS	
720-90735-5	DG-N13W	Total/NA	Water	8260B/CA_LUFT MS	
720-90735-6	DUP-89	Total/NA	Water	8260B/CA_LUFT MS	
720-90735-7	DG-P13W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-524189/8	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-524189/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90735-7 MS	DG-P13W	Total/NA	Water	8260B/CA_LUFT MS	
720-90735-7 MSD	DG-P13W	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 522780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Total/NA	Water	3520C	
720-90735-2	DUP-107	Total/NA	Water	3520C	
720-90735-3	DG-Q15W	Total/NA	Water	3520C	
720-90735-4	DG-O15W	Total/NA	Water	3520C	
720-90735-5	DG-N13W	Total/NA	Water	3520C	
720-90735-6	DUP-89	Total/NA	Water	3520C	
720-90735-7	DG-P13W	Total/NA	Water	3520C	
MB 440-522780/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-522780/2-A	Lab Control Sample	Total/NA	Water	3520C	
720-90735-7 MS	DG-P13W	Total/NA	Water	3520C	
720-90735-7 MSD	DG-P13W	Total/NA	Water	3520C	

Analysis Batch: 523040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Total/NA	Water	8270C SIM	522780
720-90735-2	DUP-107	Total/NA	Water	8270C SIM	522780

Analysis Batch: 523378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-3	DG-Q15W	Total/NA	Water	8270C SIM	522780
720-90735-4	DG-O15W	Total/NA	Water	8270C SIM	522780
720-90735-5	DG-N13W	Total/NA	Water	8270C SIM	522780
MB 440-522780/1-A	Method Blank	Total/NA	Water	8270C SIM	522780
LCS 440-522780/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	522780
720-90735-7 MS	DG-P13W	Total/NA	Water	8270C SIM	522780
720-90735-7 MSD	DG-P13W	Total/NA	Water	8270C SIM	522780

Analysis Batch: 523758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-6	DUP-89	Total/NA	Water	8270C SIM	522780
720-90735-7	DG-P13W	Total/NA	Water	8270C SIM	522780

GC Semi VOA

Prep Batch: 523003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Total/NA	Water	3510C	
720-90735-2	DUP-107	Total/NA	Water	3510C	
720-90735-3	DG-Q15W	Total/NA	Water	3510C	
720-90735-4	DG-O15W	Total/NA	Water	3510C	
720-90735-5	DG-N13W	Total/NA	Water	3510C	
720-90735-6	DUP-89	Total/NA	Water	3510C	
720-90735-7	DG-P13W	Total/NA	Water	3510C	
MB 440-523003/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-523003/2-A	Lab Control Sample	Total/NA	Water	3510C	
720-90735-7 MS	DG-P13W	Total/NA	Water	3510C	
720-90735-7 MSD	DG-P13W	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Analysis Batch: 523032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Total/NA	Water	8015B	523003
720-90735-2	DUP-107	Total/NA	Water	8015B	523003
720-90735-3	DG-Q15W	Total/NA	Water	8015B	523003
720-90735-4	DG-O15W	Total/NA	Water	8015B	523003
720-90735-5	DG-N13W	Total/NA	Water	8015B	523003
720-90735-6	DUP-89	Total/NA	Water	8015B	523003
720-90735-7	DG-P13W	Total/NA	Water	8015B	523003
MB 440-523003/1-A	Method Blank	Total/NA	Water	8015B	523003
LCS 440-523003/2-A	Lab Control Sample	Total/NA	Water	8015B	523003
720-90735-7 MS	DG-P13W	Total/NA	Water	8015B	523003
720-90735-7 MSD	DG-P13W	Total/NA	Water	8015B	523003

Metals

Prep Batch: 258443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Dissolved	Water	3005A	
720-90735-2	DUP-107	Dissolved	Water	3005A	
720-90735-3	DG-Q15W	Dissolved	Water	3005A	
720-90735-4	DG-O15W	Dissolved	Water	3005A	
720-90735-5	DG-N13W	Dissolved	Water	3005A	
720-90735-6	DUP-89	Dissolved	Water	3005A	
720-90735-7	DG-P13W	Dissolved	Water	3005A	
MB 720-258443/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-258443/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90735-7 MS	DG-P13W	Dissolved	Water	3005A	
720-90735-7 MSD	DG-P13W	Dissolved	Water	3005A	

Prep Batch: 258498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Dissolved	Water	7470A	
720-90735-2	DUP-107	Dissolved	Water	7470A	
720-90735-3	DG-Q15W	Dissolved	Water	7470A	
720-90735-4	DG-O15W	Dissolved	Water	7470A	
720-90735-5	DG-N13W	Dissolved	Water	7470A	
720-90735-6	DUP-89	Dissolved	Water	7470A	
720-90735-7	DG-P13W	Dissolved	Water	7470A	
MB 720-258498/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-258498/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90735-7 MS	DG-P13W	Dissolved	Water	7470A	
720-90735-7 MSD	DG-P13W	Dissolved	Water	7470A	

Analysis Batch: 258567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Dissolved	Water	7470A	258498
720-90735-2	DUP-107	Dissolved	Water	7470A	258498
720-90735-3	DG-Q15W	Dissolved	Water	7470A	258498
720-90735-4	DG-O15W	Dissolved	Water	7470A	258498
720-90735-5	DG-N13W	Dissolved	Water	7470A	258498
720-90735-6	DUP-89	Dissolved	Water	7470A	258498

Metals (Continued)

Analysis Batch: 258567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-7	DG-P13W	Dissolved	Water	7470A	258498
MB 720-258498/1-A	Method Blank	Total/NA	Water	7470A	258498
LCS 720-258498/2-A	Lab Control Sample	Total/NA	Water	7470A	258498
720-90735-7 MS	DG-P13W	Dissolved	Water	7470A	258498
720-90735-7 MSD	DG-P13W	Dissolved	Water	7470A	258498

Analysis Batch: 258610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Dissolved	Water	6010B	258443
720-90735-2	DUP-107	Dissolved	Water	6010B	258443
720-90735-3	DG-Q15W	Dissolved	Water	6010B	258443
720-90735-4	DG-O15W	Dissolved	Water	6010B	258443
720-90735-5	DG-N13W	Dissolved	Water	6010B	258443
720-90735-6	DUP-89	Dissolved	Water	6010B	258443
720-90735-7	DG-P13W	Dissolved	Water	6010B	258443
MB 720-258443/1-A	Method Blank	Total Recoverable	Water	6010B	258443
LCS 720-258443/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258443
720-90735-7 MS	DG-P13W	Dissolved	Water	6010B	258443
720-90735-7 MSD	DG-P13W	Dissolved	Water	6010B	258443

General Chemistry

Analysis Batch: 258403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90735-1	DG-S15W	Total/NA	Water	7196A	
720-90735-2	DUP-107	Total/NA	Water	7196A	
720-90735-3	DG-Q15W	Total/NA	Water	7196A	
720-90735-4	DG-O15W	Total/NA	Water	7196A	
720-90735-5	DG-N13W	Total/NA	Water	7196A	
720-90735-6	DUP-89	Total/NA	Water	7196A	
720-90735-7	DG-P13W	Total/NA	Water	7196A	
MB 720-258403/9	Method Blank	Total/NA	Water	7196A	
LCS 720-258403/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-258403/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90735-7 MS	DG-P13W	Total/NA	Water	7196A	
720-90735-7 MSD	DG-P13W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DG-S15W

Lab Sample ID: 720-90735-1

Date Collected: 01/11/19 10:30

Matrix: Water

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524180	01/22/19 21:15	GK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524181	01/22/19 21:15	GK	TAL IRV
Total/NA	Prep	3520C			522780	01/16/19 10:29	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 19:59	L1B	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 12:38	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 19:46	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 12:42	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258403	01/11/19 19:38	ECB	TAL PLS

Client Sample ID: DUP-107

Lab Sample ID: 720-90735-2

Date Collected: 01/11/19 00:00

Matrix: Water

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524180	01/22/19 22:38	GK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524181	01/22/19 22:38	GK	TAL IRV
Total/NA	Prep	3520C			522780	01/16/19 10:29	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523040	01/17/19 20:23	L1B	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 12:59	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 19:51	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 12:44	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258403	01/11/19 19:38	ECB	TAL PLS

Client Sample ID: DG-Q15W

Lab Sample ID: 720-90735-3

Date Collected: 01/11/19 11:00

Matrix: Water

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524180	01/22/19 23:06	GK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524181	01/22/19 23:06	GK	TAL IRV
Total/NA	Prep	3520C			522780	01/16/19 10:29	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523378	01/18/19 16:40	HN	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 13:19	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 19:56	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DG-Q15W

Date Collected: 01/11/19 11:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 12:46	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258403	01/11/19 19:38	ECB	TAL PLS

Client Sample ID: DG-O15W

Date Collected: 01/11/19 11:25
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524188	01/23/19 00:55	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524189	01/23/19 00:55	WC	TAL IRV
Total/NA	Prep	3520C			522780	01/16/19 10:29	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523378	01/18/19 17:04	HN	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 13:40	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 20:01	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 12:48	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258403	01/11/19 19:38	ECB	TAL PLS

Client Sample ID: DG-N13W

Date Collected: 01/11/19 11:49
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524188	01/23/19 01:21	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524189	01/23/19 01:21	WC	TAL IRV
Total/NA	Prep	3520C			522780	01/16/19 10:29	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523378	01/18/19 21:32	HN	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 14:20	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 20:05	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 12:51	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258403	01/11/19 19:38	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Client Sample ID: DUP-89

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524188	01/23/19 01:48	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524189	01/23/19 01:48	WC	TAL IRV
Total/NA	Prep	3520C			522780	01/16/19 10:29	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 23:12	HN	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 14:41	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 20:10	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 13:37	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258403	01/11/19 19:38	ECB	TAL PLS

Client Sample ID: DG-P13W

Date Collected: 01/11/19 12:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90735-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524188	01/22/19 23:35	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524189	01/22/19 23:35	WC	TAL IRV
Total/NA	Prep	3520C			522780	01/16/19 10:29	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 15:54	HN	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 11:37	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 19:41	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 12:39	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258403	01/11/19 19:38	ECB	TAL PLS

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90735-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90735-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90735-1	DG-S15W	Water	01/11/19 10:30	01/11/19 15:00
720-90735-2	DUP-107	Water	01/11/19 00:00	01/11/19 15:00
720-90735-3	DG-Q15W	Water	01/11/19 11:00	01/11/19 15:00
720-90735-4	DG-O15W	Water	01/11/19 11:25	01/11/19 15:00
720-90735-5	DG-N13W	Water	01/11/19 11:49	01/11/19 15:00
720-90735-6	DUP-89	Water	01/11/19 00:00	01/11/19 15:00
720-90735-7	DG-P13W	Water	01/11/19 12:30	01/11/19 15:00

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90735

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187786

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-11-19	COC No. 187786
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George H. Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnias@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90735 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-S15W	1-11-19	1030	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
Dup-107		[redacted]											
DG-Q15W		1100											
DG-O15W		1125											
DG-N13W		1149											
Dup-89		[redacted]											
DG-P13W		1230			13	Y							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.8, 1.7, 3.0, 2.1, 3.7 °C
2.2, 0.9, 3.0, 1.7, 3.3

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No ____	
Relinquished by	Company: GEOSYNTEC	Date/Time: 1-11-19 1203	Received by	Company: TAPCS	Date/Time: 1/11/19 1300
Relinquished by	Company: TAPCS	Date/Time: 1/11/19 1500	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/11/19 1500

3.8/1-7/3.0/2.1/3.7
1/11/19 2.2/0.9/3.0/1.7/3.3 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/30/2019

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TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

1.9 2.0 1.5 1.6

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-40787.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page. Page 1 of 1
Company. TestAmerica Laboratories, Inc		Accreditations Required (See note) State Program - California		Job # 720-90735-1
Address 17461 Denan Ave, Suite 100,	Due Date Requested: 1/23/2019			
City Irvine	TAT Requested (days):			
State, Zip CA, 92614-5817				
Phone 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email.	WO #:			
Project Name. Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-S15W (720-90735-1)	1/11/19	10:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-107 (720-90735-2)	1/11/19	Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Q15W (720-90735-3)	1/11/19	11:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-O15W (720-90735-4)	1/11/19	11:25 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-N13W (720-90735-5)	1/11/19	11:49 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-89 (720-90735-6)	1/11/19	Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-P13W (720-90735-7)	1/11/19	12:30 Pacific		Water			X	X	X	X	4	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-P13W (720-90735-7MS)	1/11/19	12:30 Pacific	MS	Water			X	X	X	X	4	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-P13W (720-90735-7MSD)	1/11/19	12:30 Pacific	MSD	Water			X	X	X	X	3	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time: 1/14/19 1049	Company TAPLS	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time: 1/15/19 1000	Company TA 112

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2 C 2.0 1.9 2.3 1.5 1.9 2.0 2.4

Ver: 09/20/2016

1/30/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90735-1

Login Number: 90735
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90735-1

Login Number: 90735
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/15/19 03:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
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Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90736-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/31/2019 1:20:50 PM
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90736-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90736-1

Comments
No additional comments.

Receipt
The samples were received on 1/11/2019 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.9º C, 1.7º C, 1.7º C, 2.1º C, 2.2º C, 3.0º C, 3.0º C, 3.3º C, 3.7º C and 3.8º C.

Receipt Exceptions
Insufficient sample volume was provided for the following samples for the matrix spike / matrix spike duplicate (MS/MSD) for both 8270C SIM PAHs and 8015B TPH-D/MO analyses: DG-AE7W (720-90736-4) and DG-AI7W (720-90736-10). Received 5 amber 1L containers per sample. Logged in both analyses "ON HOLD" for the MS/MSDs until resolved. See client response in correspondences. 8270SIM MS/MSD analyzed on sample #4 and 8015BDRO MS/MSD analyzed on sample #10 per client instructions.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The 8015-DRO matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-522700 and analytical batch 440-522742 were outside control limits due to "olive yellow with light emulsion". Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-258443 and analytical batch 720-258610 contained Arsenic and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258610 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 720-258610/43). Affected sample results for these compounds have been qualified with a "^" symbol: Thallium.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258610 recovered above the upper control limit for Thallium and Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 720-258610/46). Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The method blank for preparation batch 720-258448 and analytical batch 720-258632 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 3510C/8015B

Job ID: 720-90736-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

preparation/analysis: DG-AM7W (720-90736-8) and DG-AR9W (720-90736-12).

Method 3520C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 8270 SIM PAHs preparation/analysis: DG-AS7W (720-90736-6) and DG-AD9W (720-90736-11).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-Y7W — Lab Sample ID: 720-90736-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.1	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	170		50	1.6	ug/L	1		6010B	Dissolved
Cobalt	0.90	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.1	J	20	3.7	ug/L	1		6010B	Dissolved
Nickel	2.0	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	9.5	J ^	10	3.5	ug/L	1		6010B	Dissolved
Zinc	75		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AA7W — Lab Sample ID: 720-90736-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	120	J	530	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130	J	530	110	ug/L	1		8015B	Total/NA
Arsenic	11	B	10	2.9	ug/L	1		6010B	Dissolved
Barium	180		50	1.6	ug/L	1		6010B	Dissolved
Cobalt	1.7	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	8.4	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	4.7	J	5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.1	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	5.5	J ^	10	3.5	ug/L	1		6010B	Dissolved
Zinc	65		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AC7W — Lab Sample ID: 720-90736-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	110	J	510	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	140	J	510	100	ug/L	1		8015B	Total/NA
Antimony	8.0	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	5.5	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	150		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.32	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.3	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.4	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	23		20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	12		10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.4	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	4.6	J ^	10	3.5	ug/L	1		6010B	Dissolved
Zinc	43		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AE7W — Lab Sample ID: 720-90736-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.14	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.22		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Chrysene	0.18	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.25		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.30		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.14	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.26		0.21	0.11	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AE7W (Continued) — Lab Sample ID: 720-90736-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.22		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.47		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.42		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	230	J	530	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	190	J	530	110	ug/L	1		8015B	Total/NA
Arsenic	10	B	10	2.9	ug/L	1		6010B	Dissolved
Barium	190		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.75	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	2.0		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.5	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	6.6		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.3	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	3.9	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	6.0	J ^	10	3.5	ug/L	1		6010B	Dissolved
Zinc	18	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AU7W — Lab Sample ID: 720-90736-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.5		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	150	J	540	110	ug/L	1		8015B	Total/NA
Arsenic	61	B	10	2.9	ug/L	1		6010B	Dissolved
Barium	98		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.1	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	3.6		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	16	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	3.7	J	5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	3.5	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	3.6	J	10	1.0	ug/L	1		6010B	Dissolved
Selenium	5.0	J B	20	4.6	ug/L	1		6010B	Dissolved
Thallium	6.2	J ^	10	3.5	ug/L	1		6010B	Dissolved
Zinc	52		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AS7W — Lab Sample ID: 720-90736-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.2		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	150	J	530	110	ug/L	1		8015B	Total/NA
Arsenic	8.6	J B	10	2.9	ug/L	1		6010B	Dissolved
Barium	210		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.32	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.3	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	3.2		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	21		20	3.7	ug/L	1		6010B	Dissolved
Lead	14		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	6.0	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	6.3	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	3.5	J ^	10	3.5	ug/L	1		6010B	Dissolved
Zinc	150		20	7.4	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AO7W — Lab Sample ID: 720-90736-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.4		0.50	0.25	ug/L	1		8260B	Total/NA
Benzo[b]fluoranthene	0.10	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.11	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.13	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	200	J	530	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150	J	530	110	ug/L	1		8015B	Total/NA
Antimony	5.3	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	13		10	2.9	ug/L	1		6010B	Dissolved
Barium	290		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.64	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	1.4	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.3	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	6.1		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	7.5	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	13		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	8.4	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	7.6	J	10	1.0	ug/L	1		6010B	Dissolved
Silver	2.8	J	5.0	2.0	ug/L	1		6010B	Dissolved
Vanadium	1.1	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	57		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AM7W — Lab Sample ID: 720-90736-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.6		0.50	0.25	ug/L	1		8260B	Total/NA
Fluoranthene	0.14	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.15	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	180	J	560	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	140	J	560	110	ug/L	1		8015B	Total/NA
Arsenic	15		10	2.9	ug/L	1		6010B	Dissolved
Barium	280		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.61	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	0.47	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.7	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	4.3		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	5.7	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	8.8		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	4.7	J	10	1.0	ug/L	1		6010B	Dissolved
Silver	2.4	J	5.0	2.0	ug/L	1		6010B	Dissolved
Zinc	23		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AK7W — Lab Sample ID: 720-90736-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.77		0.50	0.25	ug/L	1		8260B	Total/NA
Chrysene	0.11	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.12	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.16	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.24		0.21	0.11	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK7W (Continued) — Lab Sample ID: 720-90736-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.16	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.21		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.23		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	170	J	550	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120	J	550	110	ug/L	1		8015B	Total/NA
Arsenic	7.9	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	200		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.23	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.3	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	3.2		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	3.7	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	11		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	5.2	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	45		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AI7W — Lab Sample ID: 720-90736-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.13	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.15	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.16	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	310	J F1	550	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	230	J	550	110	ug/L	1		8015B	Total/NA
Arsenic	8.9	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	200		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.68	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	1.0	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	2.2	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	2.5		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	9.9		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.1	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.6	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	15	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AD9W — Lab Sample ID: 720-90736-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	650		540	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	570		540	110	ug/L	1		8015B	Total/NA
Arsenic	5.3	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	240		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.42	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.2	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	3.4		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.5	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	25		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	6.1	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	16		10	1.0	ug/L	1		6010B	Dissolved
Silver	2.5	J	5.0	2.0	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD9W (Continued) — Lab Sample ID: 720-90736-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	210		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AR9W — Lab Sample ID: 720-90736-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.2		0.50	0.25	ug/L	1		8260B	Total/NA
Fluoranthene	0.20	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.23		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	180	J	570	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160	J	570	110	ug/L	1		8015B	Total/NA
Arsenic	12		10	2.9	ug/L	1		6010B	Dissolved
Barium	120		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.74	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	5.2		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	15	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	7.8		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	7.4	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	5.5	J	10	1.0	ug/L	1		6010B	Dissolved
Silver	2.1	J	5.0	2.0	ug/L	1		6010B	Dissolved
Zinc	59		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DUP-47 — Lab Sample ID: 720-90736-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.9	J	10	4.1	ug/L	1		6010B	Dissolved
Barium	150		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.38	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.1	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.9	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	21		20	3.7	ug/L	1		6010B	Dissolved
Lead	7.6		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	11		10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.6	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	0.99	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	39		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DUP-48 — Lab Sample ID: 720-90736-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.76		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	160	J	510	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	100	J	510	100	ug/L	1		8015B	Total/NA
Arsenic	8.0	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	200		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.73	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	2.9		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	11		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.1	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	4.0	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	43		20	7.4	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DUP-50 — Lab Sample ID: 720-90736-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.4		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	160	J	530	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110	J	530	110	ug/L	1		8015B	Total/NA
Arsenic	57		10	2.9	ug/L	1		6010B	Dissolved
Barium	95		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.1	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	4.2		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	12	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	11		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	3.0	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	4.5	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	45		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DUP-65 — Lab Sample ID: 720-90736-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.3		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	150	J	520	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120	J	520	100	ug/L	1		8015B	Total/NA
Arsenic	11		10	2.9	ug/L	1		6010B	Dissolved
Barium	140		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.72	J B	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	5.5		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	15	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	6.8		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	7.4	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	5.7	J	10	1.0	ug/L	1		6010B	Dissolved
Silver	2.4	J	5.0	2.0	ug/L	1		6010B	Dissolved
Vanadium	0.88	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	59		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: FB-1.11.19 — Lab Sample ID: 720-90736-17

No Detections.

Client Sample ID: TB-1.11.19 — Lab Sample ID: 720-90736-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	35	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-Y7W
Date Collected: 01/11/19 07:20
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*01/23/19 22:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*01/23/19 22:03*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/23/19 22:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Acetone	ND		20	10	ug/L			01/23/19 22:03	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 22:03	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 22:03	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 22:03	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 22:03	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 22:03	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 22:03	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 22:03	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 22:03	1

Client Sample ID: DG-Y7W
Date Collected: 01/11/19 07:20
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 22:03	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 22:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 22:03	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 22:03	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 22:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 22:03	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 22:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 22:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 22:03	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 22:03	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 22:03	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*01/23/19 22:03*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/23/19 22:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Acenaphthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Fluorene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Phenanthrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Anthracene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Chrysene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Fluoranthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Pyrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 19:09	1

Client Sample ID: DG-Y7W

Date Collected: 01/11/19 07:20
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*38 - 120*	*01/16/19 10:21*	*01/21/19 19:09*	*1*
Nitrobenzene-d5	*67*		*10 - 120*	*01/16/19 10:21*	*01/21/19 19:09*	*1*
Terphenyl-d14	*56*		*21 - 120*	*01/16/19 10:21*	*01/21/19 19:09*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/16/19 05:47	01/16/19 13:44	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/16/19 05:47	01/16/19 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*56*		*45 - 120*	*01/16/19 05:47*	*01/16/19 13:44*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 21:09	1
Arsenic	**4.1**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:09	1
Barium	**170**		50	1.6	ug/L		01/14/19 10:32	01/15/19 21:09	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 21:09	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 21:09	1
Chromium	ND		10	0.70	ug/L		01/14/19 10:32	01/15/19 21:09	1
Cobalt	**0.90**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/15/19 21:09	1
Copper	**6.1**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 21:09	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 21:09	1
Molybdenum	ND		10	2.9	ug/L		01/14/19 10:32	01/15/19 21:09	1
Nickel	**2.0**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 21:09	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 21:09	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 21:09	1
Thallium	**9.5**	**J ^**	10	3.5	ug/L		01/14/19 10:32	01/15/19 21:09	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 21:09	1
Zinc	**75**		20	7.4	ug/L		01/14/19 10:32	01/15/19 21:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AA7W
Date Collected: 01/11/19 07:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*01/23/19 22:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/23/19 22:31*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/23/19 22:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Acetone	ND		20	10	ug/L			01/23/19 22:31	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 22:31	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 22:31	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 22:31	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 22:31	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 22:31	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 22:31	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 22:31	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 22:31	1

Client Sample ID: DG-AA7W
Date Collected: 01/11/19 07:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 22:31	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 22:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 22:31	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 22:31	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 22:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 22:31	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 22:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 22:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 22:31	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 22:31	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 22:31	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*01/23/19 22:31*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/23/19 22:31*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Acenaphthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Fluorene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Phenanthrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Chrysene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Pyrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 19:33	1

Client Sample ID: DG-AA7W

Date Collected: 01/11/19 07:35
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*38 - 120*	*01/16/19 10:21*	*01/21/19 19:33*	*1*
Nitrobenzene-d5	*75*		*10 - 120*	*01/16/19 10:21*	*01/21/19 19:33*	*1*
Terphenyl-d14	*53*		*21 - 120*	*01/16/19 10:21*	*01/21/19 19:33*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**120**	**J**	530	110	ug/L		01/16/19 05:47	01/16/19 15:32	1
Motor Oil Range Organics [C24-C36]	**130**	**J**	530	110	ug/L		01/16/19 05:47	01/16/19 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*65*		*45 - 120*	*01/16/19 05:47*	*01/16/19 15:32*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 21:14	1
Arsenic	**11**	**B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:14	1
Barium	**180**		50	1.6	ug/L		01/14/19 10:32	01/15/19 21:14	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 21:14	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 21:14	1
Chromium	ND		10	0.70	ug/L		01/14/19 10:32	01/15/19 21:14	1
Cobalt	**1.7**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/15/19 21:14	1
Copper	**8.4**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 21:14	1
Lead	**4.7**	**J**	5.0	2.2	ug/L		01/14/19 10:32	01/15/19 21:14	1
Molybdenum	**4.9**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:14	1
Nickel	**2.1**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 21:14	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 21:14	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 21:14	1
Thallium	**5.5**	**J ^**	10	3.5	ug/L		01/14/19 10:32	01/15/19 21:14	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 21:14	1
Zinc	**65**		20	7.4	ug/L		01/14/19 10:32	01/15/19 21:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AC7W
Date Collected: 01/11/19 07:55
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*01/23/19 22:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*01/23/19 22:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/23/19 22:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Acetone	ND		20	10	ug/L			01/23/19 22:58	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 22:58	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 22:58	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 22:58	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 22:58	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 22:58	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 22:58	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 22:58	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 22:58	1

Client Sample ID: DG-AC7W
Date Collected: 01/11/19 07:55
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 22:58	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 22:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 22:58	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 22:58	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 22:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 22:58	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 22:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 22:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 22:58	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 22:58	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 22:58	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/23/19 22:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/23/19 22:58*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Acenaphthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Fluorene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Phenanthrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Chrysene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Benzo[a]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 19:57	1

Client Sample ID: DG-AC7W

Date Collected: 01/11/19 07:55
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*38 - 120*	*01/16/19 10:21*	*01/21/19 19:57*	*1*
Nitrobenzene-d5	*49*		*10 - 120*	*01/16/19 10:21*	*01/21/19 19:57*	*1*
Terphenyl-d14	*55*		*21 - 120*	*01/16/19 10:21*	*01/21/19 19:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**	**J**	510	100	ug/L		01/16/19 05:47	01/16/19 15:54	1
Motor Oil Range Organics [C24-C36]	**140**	**J**	510	100	ug/L		01/16/19 05:47	01/16/19 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*63*		*45 - 120*	*01/16/19 05:47*	*01/16/19 15:54*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**8.0**	**J**	10	4.1	ug/L		01/14/19 10:32	01/15/19 21:19	1
Arsenic	**5.5**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:19	1
Barium	**150**		50	1.6	ug/L		01/14/19 10:32	01/15/19 21:19	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 21:19	1
Cadmium	**0.32**	**J**	2.0	0.21	ug/L		01/14/19 10:32	01/15/19 21:19	1
Chromium	**1.3**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 21:19	1
Cobalt	**1.4**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/15/19 21:19	1
Copper	**23**		20	3.7	ug/L		01/14/19 10:32	01/15/19 21:19	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 21:19	1
Molybdenum	**12**		10	2.9	ug/L		01/14/19 10:32	01/15/19 21:19	1
Nickel	**2.4**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 21:19	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 21:19	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 21:19	1
Thallium	**4.6**	**J ^**	10	3.5	ug/L		01/14/19 10:32	01/15/19 21:19	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 21:19	1
Zinc	**43**		20	7.4	ug/L		01/14/19 10:32	01/15/19 21:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AE7W
Date Collected: 01/11/19 08:20
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*01/23/19 20:40*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*01/23/19 20:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/23/19 20:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Acetone	ND		20	10	ug/L			01/23/19 20:40	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 20:40	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 20:40	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 20:40	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 20:40	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 20:40	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 20:40	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 20:40	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 20:40	1

Client Sample ID: DG-AE7W
Date Collected: 01/11/19 08:20
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 20:40	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 20:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 20:40	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 20:40	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 20:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 20:40	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 20:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 20:40	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 20:40	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 20:40	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 20:40	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/23/19 20:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/23/19 20:40*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Acenaphthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Fluorene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Phenanthrene	**0.14**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Benzo[a]anthracene	**0.22**		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Chrysene	**0.18**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Benzo[a]pyrene	**0.25**		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Benzo[b]fluoranthene	**0.30**		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Benzo[k]fluoranthene	**0.14**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Benzo[g,h,i]perylene	**0.26**		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Fluoranthene	**0.47**		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Pyrene	**0.42**		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/18/19 12:37	1

Client Sample ID: DG-AE7W

Date Collected: 01/11/19 08:20
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*105*		*38 - 120*	*01/16/19 10:21*	*01/18/19 12:37*	*1*
Nitrobenzene-d5	*98*		*10 - 120*	*01/16/19 10:21*	*01/18/19 12:37*	*1*
Terphenyl-d14	*67*		*21 - 120*	*01/16/19 10:21*	*01/18/19 12:37*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**230**	**J**	530	110	ug/L		01/16/19 05:47	01/16/19 16:16	1
Motor Oil Range Organics [C24-C36]	**190**	**J**	530	110	ug/L		01/16/19 05:47	01/16/19 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*45 - 120*	*01/16/19 05:47*	*01/16/19 16:16*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 21:04	1
Arsenic	**10**	**B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:04	1
Barium	**190**		50	1.6	ug/L		01/14/19 10:32	01/15/19 21:04	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 21:04	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 21:04	1
Chromium	**0.75**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 21:04	1
Cobalt	**2.0**		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 21:04	1
Copper	**4.5**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 21:04	1
Lead	**6.6**		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 21:04	1
Molybdenum	**4.3**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:04	1
Nickel	**3.9**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 21:04	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 21:04	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 21:04	1
Thallium	**6.0**	**J ^**	10	3.5	ug/L		01/14/19 10:32	01/15/19 21:04	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 21:04	1
Zinc	**18**	**J**	20	7.4	ug/L		01/14/19 10:32	01/15/19 21:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AU7W

Date Collected: 01/11/19 09:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-5

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*01/23/19 23:26*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*01/23/19 23:26*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/23/19 23:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**2.5**		0.50	0.25	ug/L			01/23/19 23:26	1
Acetone	ND		20	10	ug/L			01/23/19 23:26	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 23:26	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 23:26	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 23:26	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 23:26	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 23:26	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 23:26	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 23:26	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 23:26	1

Client Sample ID: DG-AU7W

Date Collected: 01/11/19 09:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 23:26	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 23:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 23:26	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 23:26	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 23:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 23:26	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 23:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 23:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 23:26	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 23:26	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 23:26	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/23/19 23:26*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/23/19 23:26*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Acenaphthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Fluorene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Phenanthrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Anthracene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Chrysene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Fluoranthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Pyrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 21:10	1

Client Sample ID: DG-AU7W

Date Collected: 01/11/19 09:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*96*		*38 - 120*	*01/16/19 10:21*	*01/21/19 21:10*	*1*
Nitrobenzene-d5	*87*		*10 - 120*	*01/16/19 10:21*	*01/21/19 21:10*	*1*
Terphenyl-d14	*84*		*21 - 120*	*01/16/19 10:21*	*01/21/19 21:10*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**	**J**	540	110	ug/L		01/16/19 05:47	01/16/19 14:06	1
Motor Oil Range Organics [C24-C36]	ND		540	110	ug/L		01/16/19 05:47	01/16/19 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*68*		*45 - 120*	*01/16/19 05:47*	*01/16/19 14:06*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 21:24	1
Arsenic	**61**	**B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:24	1
Barium	**98**		50	1.6	ug/L		01/14/19 10:32	01/15/19 21:24	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 21:24	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 21:24	1
Chromium	**1.1**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 21:24	1
Cobalt	**3.6**		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 21:24	1
Copper	**16**	**J**	20	3.7	ug/L		01/14/19 10:32	01/15/19 21:24	1
Lead	**3.7**	**J**	5.0	2.2	ug/L		01/14/19 10:32	01/15/19 21:24	1
Molybdenum	**3.5**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:24	1
Nickel	**3.6**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 21:24	1
Selenium	**5.0**	**J B**	20	4.6	ug/L		01/14/19 10:32	01/15/19 21:24	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 21:24	1
Thallium	**6.2**	**J ^**	10	3.5	ug/L		01/14/19 10:32	01/15/19 21:24	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 21:24	1
Zinc	**52**		20	7.4	ug/L		01/14/19 10:32	01/15/19 21:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AS7W
Date Collected: 01/11/19 09:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*01/23/19 23:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*01/23/19 23:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/23/19 23:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**2.2**		0.50	0.25	ug/L			01/23/19 23:53	1
Acetone	ND		20	10	ug/L			01/23/19 23:53	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 23:53	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 23:53	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 23:53	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 23:53	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 23:53	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 23:53	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 23:53	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 23:53	1

Client Sample ID: DG-AS7W
Date Collected: 01/11/19 09:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 23:53	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 23:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 23:53	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 23:53	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 23:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 23:53	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 23:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 23:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 23:53	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 23:53	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 23:53	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*01/23/19 23:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/23/19 23:53*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Acenaphthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Fluorene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Phenanthrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Chrysene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Benzo[a]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 21:35	1

Client Sample ID: DG-AS7W

Date Collected: 01/11/19 09:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		38 - 120	01/16/19 10:21	01/21/19 21:35	1
Nitrobenzene-d5	88		10 - 120	01/16/19 10:21	01/21/19 21:35	1
Terphenyl-d14	94		21 - 120	01/16/19 10:21	01/21/19 21:35	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**	**J**	530	110	ug/L		01/16/19 05:47	01/16/19 14:27	1
Motor Oil Range Organics [C24-C36]	ND		530	110	ug/L		01/16/19 05:47	01/16/19 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	68		45 - 120	01/16/19 05:47	01/16/19 14:27	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 21:38	1
Arsenic	**8.6**	**J B**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:38	1
Barium	**210**		50	1.6	ug/L		01/14/19 10:32	01/15/19 21:38	1
Beryllium	ND	^	2.0	0.59	ug/L		01/14/19 10:32	01/15/19 21:38	1
Cadmium	**0.32**	**J**	2.0	0.21	ug/L		01/14/19 10:32	01/15/19 21:38	1
Chromium	**1.3**	**J**	10	0.70	ug/L		01/14/19 10:32	01/15/19 21:38	1
Cobalt	**3.2**		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 21:38	1
Copper	**21**		20	3.7	ug/L		01/14/19 10:32	01/15/19 21:38	1
Lead	**14**		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 21:38	1
Molybdenum	**6.0**	**J**	10	2.9	ug/L		01/14/19 10:32	01/15/19 21:38	1
Nickel	**6.3**	**J**	10	1.0	ug/L		01/14/19 10:32	01/15/19 21:38	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/15/19 21:38	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 21:38	1
Thallium	**3.5**	**J ^**	10	3.5	ug/L		01/14/19 10:32	01/15/19 21:38	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 21:38	1
Zinc	**150**		20	7.4	ug/L		01/14/19 10:32	01/15/19 21:38	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AO7W
Date Collected: 01/11/19 09:50
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*01/24/19 00:21*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*01/24/19 00:21*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/24/19 00:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**2.4**		0.50	0.25	ug/L			01/24/19 00:21	1
Acetone	ND		20	10	ug/L			01/24/19 00:21	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 00:21	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 00:21	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 00:21	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 00:21	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 00:21	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 00:21	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 00:21	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 00:21	1

Client Sample ID: DG-AO7W

Date Collected: 01/11/19 09:50
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 00:21	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 00:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 00:21	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 00:21	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 00:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 00:21	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 00:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 00:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 00:21	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 00:21	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 00:21	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/24/19 00:21*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/24/19 00:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Acenaphthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Fluorene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Phenanthrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Anthracene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Chrysene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Benzo[b]fluoranthene	**0.10**	**J**	0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Fluoranthene	**0.11**	**J**	0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Pyrene	**0.13**	**J**	0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/16/19 10:21	01/21/19 17:07	1

Client Sample ID: DG-AO7W

Date Collected: 01/11/19 09:50
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*38 - 120*	*01/16/19 10:21*	*01/21/19 17:07*	*1*
Nitrobenzene-d5	*63*		*10 - 120*	*01/16/19 10:21*	*01/21/19 17:07*	*1*
Terphenyl-d14	*63*		*21 - 120*	*01/16/19 10:21*	*01/21/19 17:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**200**	**J**	530	110	ug/L		01/16/19 05:47	01/16/19 16:37	1
Motor Oil Range Organics [C24-C36]	**150**	**J**	530	110	ug/L		01/16/19 05:47	01/16/19 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*01/16/19 05:47*	*01/16/19 16:37*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.3**	**J**	10	4.1	ug/L		01/14/19 10:32	01/16/19 10:56	1
Arsenic	**13**		10	2.9	ug/L		01/14/19 10:32	01/16/19 10:56	1
Barium	**290**		50	1.6	ug/L		01/14/19 10:32	01/16/19 10:56	1
Beryllium	**0.64**	**J**	2.0	0.59	ug/L		01/14/19 10:32	01/16/19 10:56	1
Cadmium	**1.4**	**J**	2.0	0.21	ug/L		01/14/19 10:32	01/16/19 10:56	1
Chromium	**1.3**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 10:56	1
Cobalt	**6.1**		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 10:56	1
Copper	**7.5**	**J**	20	3.7	ug/L		01/14/19 10:32	01/16/19 10:56	1
Lead	**13**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 10:56	1
Molybdenum	**8.4**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 10:56	1
Nickel	**7.6**	**J**	10	1.0	ug/L		01/14/19 10:32	01/16/19 10:56	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 10:56	1
Silver	**2.8**	**J**	5.0	2.0	ug/L		01/14/19 10:32	01/16/19 10:56	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 10:56	1
Vanadium	**1.1**	**J**	10	0.87	ug/L		01/14/19 10:32	01/16/19 10:56	1
Zinc	**57**		20	7.4	ug/L		01/14/19 10:32	01/16/19 10:56	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AM7W
Date Collected: 01/11/19 10:05
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-8
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*01/24/19 00:48*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*01/24/19 00:48*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/24/19 00:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.6**		0.50	0.25	ug/L			01/24/19 00:48	1
Acetone	ND		20	10	ug/L			01/24/19 00:48	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 00:48	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 00:48	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 00:48	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 00:48	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 00:48	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 00:48	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 00:48	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 00:48	1

Client Sample ID: DG-AM7W

Date Collected: 01/11/19 10:05
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 00:48	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 00:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 00:48	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 00:48	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 00:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 00:48	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 00:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 00:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 00:48	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 00:48	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 00:48	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*01/24/19 00:48*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/24/19 00:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Acenaphthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Fluorene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Phenanthrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Chrysene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Fluoranthene	**0.14**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Pyrene	**0.15**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 21:59	1

Client Sample ID: DG-AM7W

Date Collected: 01/11/19 10:05
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*	*01/16/19 10:21*	*01/21/19 21:59*	*1*
Nitrobenzene-d5	*72*		*10 - 120*	*01/16/19 10:21*	*01/21/19 21:59*	*1*
Terphenyl-d14	*48*		*21 - 120*	*01/16/19 10:21*	*01/21/19 21:59*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**180**	**J**	560	110	ug/L		01/16/19 05:47	01/16/19 14:49	1
Motor Oil Range Organics [C24-C36]	**140**	**J**	560	110	ug/L		01/16/19 05:47	01/16/19 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*45 - 120*	*01/16/19 05:47*	*01/16/19 14:49*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/16/19 11:01	1
Arsenic	**15**		10	2.9	ug/L		01/14/19 10:32	01/16/19 11:01	1
Barium	**280**		50	1.6	ug/L		01/14/19 10:32	01/16/19 11:01	1
Beryllium	**0.61**	**J**	2.0	0.59	ug/L		01/14/19 10:32	01/16/19 11:01	1
Cadmium	**0.47**	**J**	2.0	0.21	ug/L		01/14/19 10:32	01/16/19 11:01	1
Chromium	**1.7**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 11:01	1
Cobalt	**4.3**		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 11:01	1
Copper	**5.7**	**J**	20	3.7	ug/L		01/14/19 10:32	01/16/19 11:01	1
Lead	**8.8**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 11:01	1
Molybdenum	**4.9**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:01	1
Nickel	**4.7**	**J**	10	1.0	ug/L		01/14/19 10:32	01/16/19 11:01	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 11:01	1
Silver	**2.4**	**J**	5.0	2.0	ug/L		01/14/19 10:32	01/16/19 11:01	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 11:01	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/16/19 11:01	1
Zinc	**23**		20	7.4	ug/L		01/14/19 10:32	01/16/19 11:01	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AK7W
Date Collected: 01/11/19 10:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-9
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*01/24/19 01:16*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*01/24/19 01:16*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/24/19 01:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.77**		0.50	0.25	ug/L			01/24/19 01:16	1
Acetone	ND		20	10	ug/L			01/24/19 01:16	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 01:16	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 01:16	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 01:16	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 01:16	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 01:16	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 01:16	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 01:16	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 01:16	1

Client Sample ID: DG-AK7W
Date Collected: 01/11/19 10:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 01:16	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 01:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 01:16	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 01:16	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 01:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 01:16	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 01:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 01:16	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 01:16	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 01:16	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*01/24/19 01:16*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/24/19 01:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Acenaphthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Fluorene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Phenanthrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Chrysene	**0.11**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Benzo[a]pyrene	**0.12**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Benzo[b]fluoranthene	**0.16**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Benzo[g,h,i]perylene	**0.24**		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Indeno[1,2,3-cd]pyrene	**0.16**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Fluoranthene	**0.21**		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Pyrene	**0.23**		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 22:23	1

Client Sample ID: DG-AK7W

Date Collected: 01/11/19 10:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*38 - 120*	*01/16/19 10:21*	*01/21/19 22:23*	*1*
Nitrobenzene-d5	*81*		*10 - 120*	*01/16/19 10:21*	*01/21/19 22:23*	*1*
Terphenyl-d14	*52*		*21 - 120*	*01/16/19 10:21*	*01/21/19 22:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**	**J**	550	110	ug/L		01/16/19 05:47	01/16/19 18:04	1
Motor Oil Range Organics [C24-C36]	**120**	**J**	550	110	ug/L		01/16/19 05:47	01/16/19 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*45 - 120*	*01/16/19 05:47*	*01/16/19 18:04*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/16/19 11:06	1
Arsenic	**7.9**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:06	1
Barium	**200**		50	1.6	ug/L		01/14/19 10:32	01/16/19 11:06	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/16/19 11:06	1
Cadmium	**0.23**	**J**	2.0	0.21	ug/L		01/14/19 10:32	01/16/19 11:06	1
Chromium	**1.3**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 11:06	1
Cobalt	**3.2**		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 11:06	1
Copper	**3.7**	**J**	20	3.7	ug/L		01/14/19 10:32	01/16/19 11:06	1
Lead	**11**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 11:06	1
Molybdenum	**4.9**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:06	1
Nickel	**5.2**	**J**	10	1.0	ug/L		01/14/19 10:32	01/16/19 11:06	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 11:06	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/16/19 11:06	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 11:06	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/16/19 11:06	1
Zinc	**45**		20	7.4	ug/L		01/14/19 10:32	01/16/19 11:06	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client Sample ID: DG-AI7W
Date Collected: 01/11/19 10:55
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-10
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*01/24/19 21:29*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*01/24/19 21:29*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/24/19 21:29*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Acetone	ND		20	10	ug/L			01/24/19 21:29	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 21:29	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 21:29	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 21:29	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 21:29	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 21:29	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 21:29	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 21:29	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 21:29	1

Client Sample ID: DG-AI7W
Date Collected: 01/11/19 10:55
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 21:29	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 21:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 21:29	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 21:29	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 21:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 21:29	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 21:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 21:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 21:29	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 21:29	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 21:29	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*01/24/19 21:29*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/24/19 21:29*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Acenaphthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Fluorene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Phenanthrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Chrysene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Benzo[g,h,i]perylene	**0.13**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Fluoranthene	**0.15**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Pyrene	**0.16**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 17:31	1

Client Sample ID: DG-AI7W

Date Collected: 01/11/19 10:55
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*99*		*38 - 120*	*01/16/19 10:21*	*01/21/19 17:31*	*1*
Nitrobenzene-d5	*75*		*10 - 120*	*01/16/19 10:21*	*01/21/19 17:31*	*1*
Terphenyl-d14	*60*		*21 - 120*	*01/16/19 10:21*	*01/21/19 17:31*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**310**	**J F1**	550	110	ug/L		01/16/19 05:47	01/16/19 12:39	1
Motor Oil Range Organics [C24-C36]	**230**	**J**	550	110	ug/L		01/16/19 05:47	01/16/19 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*01/16/19 05:47*	*01/16/19 12:39*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/16/19 10:51	1
Arsenic	**8.9**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 10:51	1
Barium	**200**		50	1.6	ug/L		01/14/19 10:32	01/16/19 10:51	1
Beryllium	**0.68**	**J**	2.0	0.59	ug/L		01/14/19 10:32	01/16/19 10:51	1
Cadmium	**1.0**	**J**	2.0	0.21	ug/L		01/14/19 10:32	01/16/19 10:51	1
Chromium	**2.2**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 10:51	1
Cobalt	**2.5**		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 10:51	1
Copper	ND		20	3.7	ug/L		01/14/19 10:32	01/16/19 10:51	1
Lead	**9.9**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 10:51	1
Molybdenum	**4.1**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 10:51	1
Nickel	**2.6**	**J**	10	1.0	ug/L		01/14/19 10:32	01/16/19 10:51	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 10:51	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/16/19 10:51	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 10:51	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/16/19 10:51	1
Zinc	**15**	**J**	20	7.4	ug/L		01/14/19 10:32	01/16/19 10:51	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/25/19 09:23	01/25/19 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AD9W
Date Collected: 01/11/19 11:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-11
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*01/24/19 22:48*	*1*
4-Bromofluorobenzene (Surr)	*81*		*80 - 120*		*01/24/19 22:48*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/24/19 22:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Acetone	ND		20	10	ug/L			01/24/19 22:48	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 22:48	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 22:48	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 22:48	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 22:48	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 22:48	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 22:48	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 22:48	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 22:48	1

Client Sample ID: DG-AD9W
Date Collected: 01/11/19 11:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 22:48	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 22:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 22:48	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 22:48	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 22:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 22:48	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 22:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 22:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 22:48	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 22:48	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 22:48	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*01/24/19 22:48*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/24/19 22:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Acenaphthene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Acenaphthylene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Fluorene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Phenanthrene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Anthracene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Benzo[a]anthracene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Chrysene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Benzo[a]pyrene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Benzo[b]fluoranthene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Benzo[k]fluoranthene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Benzo[g,h,i]perylene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Indeno[1,2,3-cd]pyrene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Fluoranthene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Pyrene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1
Dibenz(a,h)anthracene	ND		0.23	0.11	ug/L		01/16/19 10:21	01/21/19 17:56	1

Client Sample ID: DG-AD9W

Date Collected: 01/11/19 11:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*96*		*38 - 120*	*01/16/19 10:21*	*01/21/19 17:56*	*1*
Nitrobenzene-d5	*75*		*10 - 120*	*01/16/19 10:21*	*01/21/19 17:56*	*1*
Terphenyl-d14	*54*		*21 - 120*	*01/16/19 10:21*	*01/21/19 17:56*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**650**		540	110	ug/L		01/16/19 05:47	01/16/19 16:59	1
Motor Oil Range Organics [C24-C36]	**570**		540	110	ug/L		01/16/19 05:47	01/16/19 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*01/16/19 05:47*	*01/16/19 16:59*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/16/19 11:20	1
Arsenic	**5.3**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:20	1
Barium	**240**		50	1.6	ug/L		01/14/19 10:32	01/16/19 11:20	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/16/19 11:20	1
Cadmium	**0.42**	**J**	2.0	0.21	ug/L		01/14/19 10:32	01/16/19 11:20	1
Chromium	**1.2**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 11:20	1
Cobalt	**3.4**		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 11:20	1
Copper	**6.5**	**J**	20	3.7	ug/L		01/14/19 10:32	01/16/19 11:20	1
Lead	**25**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 11:20	1
Molybdenum	**6.1**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:20	1
Nickel	**16**		10	1.0	ug/L		01/14/19 10:32	01/16/19 11:20	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 11:20	1
Silver	**2.5**	**J**	5.0	2.0	ug/L		01/14/19 10:32	01/16/19 11:20	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 11:20	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/16/19 11:20	1
Zinc	**210**		20	7.4	ug/L		01/14/19 10:32	01/16/19 11:20	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AR9W
Date Collected: 01/11/19 12:10
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-12
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*01/24/19 23:15*	*1*
4-Bromofluorobenzene (Surr)	*82*		*80 - 120*		*01/24/19 23:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/24/19 23:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.2**		0.50	0.25	ug/L			01/24/19 23:15	1
Acetone	ND		20	10	ug/L			01/24/19 23:15	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 23:15	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 23:15	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 23:15	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 23:15	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 23:15	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 23:15	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 23:15	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 23:15	1

Client Sample ID: DG-AR9W

Date Collected: 01/11/19 12:10
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 23:15	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 23:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 23:15	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 23:15	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 23:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 23:15	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 23:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 23:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 23:15	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 23:15	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 23:15	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*01/24/19 23:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/24/19 23:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Acenaphthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Fluorene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Phenanthrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Chrysene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Fluoranthene	**0.20**	**J**	0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Pyrene	**0.23**		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/16/19 10:21	01/21/19 18:20	1

Client Sample ID: DG-AR9W

Date Collected: 01/11/19 12:10
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*38 - 120*	*01/16/19 10:21*	*01/21/19 18:20*	*1*
Nitrobenzene-d5	*79*		*10 - 120*	*01/16/19 10:21*	*01/21/19 18:20*	*1*
Terphenyl-d14	*57*		*21 - 120*	*01/16/19 10:21*	*01/21/19 18:20*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**180**	**J**	570	110	ug/L		01/16/19 05:47	01/16/19 17:21	1
Motor Oil Range Organics [C24-C36]	**160**	**J**	570	110	ug/L		01/16/19 05:47	01/16/19 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*45 - 120*	*01/16/19 05:47*	*01/16/19 17:21*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/16/19 11:25	1
Arsenic	**12**		10	2.9	ug/L		01/14/19 10:32	01/16/19 11:25	1
Barium	**120**		50	1.6	ug/L		01/14/19 10:32	01/16/19 11:25	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/16/19 11:25	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/16/19 11:25	1
Chromium	**0.74**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 11:25	1
Cobalt	**5.2**		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 11:25	1
Copper	**15**	**J**	20	3.7	ug/L		01/14/19 10:32	01/16/19 11:25	1
Lead	**7.8**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 11:25	1
Molybdenum	**7.4**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:25	1
Nickel	**5.5**	**J**	10	1.0	ug/L		01/14/19 10:32	01/16/19 11:25	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 11:25	1
Silver	**2.1**	**J**	5.0	2.0	ug/L		01/14/19 10:32	01/16/19 11:25	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 11:25	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/16/19 11:25	1
Zinc	**59**		20	7.4	ug/L		01/14/19 10:32	01/16/19 11:25	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DUP-47
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-13
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*01/24/19 23:41*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*01/24/19 23:41*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/24/19 23:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Acetone	ND		20	10	ug/L			01/24/19 23:41	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 23:41	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 23:41	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 23:41	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 23:41	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 23:41	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 23:41	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 23:41	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 23:41	1

Client Sample ID: DUP-47
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 23:41	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 23:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 23:41	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 23:41	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 23:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 23:41	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 23:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 23:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 23:41	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 23:41	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 23:41	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/24/19 23:41*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/24/19 23:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Acenaphthene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Fluorene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Phenanthrene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Anthracene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Chrysene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Pyrene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/21/19 18:44	1

Client Sample ID: DUP-47

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-13

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*38 - 120*	*01/16/19 10:21*	*01/21/19 18:44*	*1*
Nitrobenzene-d5	*62*		*10 - 120*	*01/16/19 10:21*	*01/21/19 18:44*	*1*
Terphenyl-d14	*70*		*21 - 120*	*01/16/19 10:21*	*01/21/19 18:44*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		520	100	ug/L		01/16/19 05:47	01/16/19 17:42	1
Motor Oil Range Organics [C24-C36]	ND		520	100	ug/L		01/16/19 05:47	01/16/19 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*45 - 120*	*01/16/19 05:47*	*01/16/19 17:42*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.9**	**J**	10	4.1	ug/L		01/14/19 10:32	01/16/19 11:30	1
Arsenic	ND		10	2.9	ug/L		01/14/19 10:32	01/16/19 11:30	1
Barium	**150**		50	1.6	ug/L		01/14/19 10:32	01/16/19 11:30	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/16/19 11:30	1
Cadmium	**0.38**	**J**	2.0	0.21	ug/L		01/14/19 10:32	01/16/19 11:30	1
Chromium	**1.1**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 11:30	1
Cobalt	**1.9**	**J**	2.0	0.68	ug/L		01/14/19 10:32	01/16/19 11:30	1
Copper	**21**		20	3.7	ug/L		01/14/19 10:32	01/16/19 11:30	1
Lead	**7.6**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 11:30	1
Molybdenum	**11**		10	2.9	ug/L		01/14/19 10:32	01/16/19 11:30	1
Nickel	**2.6**	**J**	10	1.0	ug/L		01/14/19 10:32	01/16/19 11:30	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 11:30	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/16/19 11:30	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 11:30	1
Vanadium	**0.99**	**J**	10	0.87	ug/L		01/14/19 10:32	01/16/19 11:30	1
Zinc	**39**		20	7.4	ug/L		01/14/19 10:32	01/16/19 11:30	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DUP-48
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-14
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*01/25/19 00:08*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*01/25/19 00:08*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*01/25/19 00:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.76**		0.50	0.25	ug/L			01/25/19 00:08	1
Acetone	ND		20	10	ug/L			01/25/19 00:08	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 00:08	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 00:08	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 00:08	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 00:08	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 00:08	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 00:08	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 00:08	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 00:08	1

Client Sample ID: DUP-48
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 00:08	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 00:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 00:08	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 00:08	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 00:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 00:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 00:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 00:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 00:08	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 00:08	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 00:08	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/25/19 00:08*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*01/25/19 00:08*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Acenaphthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Fluorene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Phenanthrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Chrysene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Benzo[a]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 22:47	1

Client Sample ID: DUP-48

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-14

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*	*01/16/19 10:21*	*01/21/19 22:47*	*1*
Nitrobenzene-d5	*72*		*10 - 120*	*01/16/19 10:21*	*01/21/19 22:47*	*1*
Terphenyl-d14	*65*		*21 - 120*	*01/16/19 10:21*	*01/21/19 22:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**	**J**	510	100	ug/L		01/16/19 05:47	01/16/19 18:26	1
Motor Oil Range Organics [C24-C36]	**100**	**J**	510	100	ug/L		01/16/19 05:47	01/16/19 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*01/16/19 05:47*	*01/16/19 18:26*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/16/19 11:35	1
Arsenic	**8.0**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:35	1
Barium	**200**		50	1.6	ug/L		01/14/19 10:32	01/16/19 11:35	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/16/19 11:35	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/16/19 11:35	1
Chromium	**0.73**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 11:35	1
Cobalt	**2.9**		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 11:35	1
Copper	ND		20	3.7	ug/L		01/14/19 10:32	01/16/19 11:35	1
Lead	**11**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 11:35	1
Molybdenum	**4.1**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:35	1
Nickel	**4.0**	**J**	10	1.0	ug/L		01/14/19 10:32	01/16/19 11:35	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 11:35	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/16/19 11:35	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 11:35	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/16/19 11:35	1
Zinc	**43**		20	7.4	ug/L		01/14/19 10:32	01/16/19 11:35	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:52	1

Client Sample ID: DUP-50
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-15
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*01/25/19 00:34*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*01/25/19 00:34*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/25/19 00:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**2.4**		0.50	0.25	ug/L			01/25/19 00:34	1
Acetone	ND		20	10	ug/L			01/25/19 00:34	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 00:34	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 00:34	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 00:34	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 00:34	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 00:34	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 00:34	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 00:34	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 00:34	1

Client Sample ID: DUP-50
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 00:34	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 00:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 00:34	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 00:34	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 00:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 00:34	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 00:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 00:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 00:34	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 00:34	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 00:34	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/25/19 00:34*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/25/19 00:34*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Acenaphthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Fluorene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Phenanthrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Chrysene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Benzo[a]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:22	1

Client Sample ID: DUP-50

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-15

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*38 - 120*	*01/16/19 10:21*	*01/21/19 20:22*	*1*
Nitrobenzene-d5	*77*		*10 - 120*	*01/16/19 10:21*	*01/21/19 20:22*	*1*
Terphenyl-d14	*77*		*21 - 120*	*01/16/19 10:21*	*01/21/19 20:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**	**J**	530	110	ug/L		01/16/19 05:47	01/16/19 18:47	1
Motor Oil Range Organics [C24-C36]	**110**	**J**	530	110	ug/L		01/16/19 05:47	01/16/19 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*45 - 120*	*01/16/19 05:47*	*01/16/19 18:47*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/16/19 11:40	1
Arsenic	**57**		10	2.9	ug/L		01/14/19 10:32	01/16/19 11:40	1
Barium	**95**		50	1.6	ug/L		01/14/19 10:32	01/16/19 11:40	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/16/19 11:40	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/16/19 11:40	1
Chromium	**1.1**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 11:40	1
Cobalt	**4.2**		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 11:40	1
Copper	**12**	**J**	20	3.7	ug/L		01/14/19 10:32	01/16/19 11:40	1
Lead	**11**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 11:40	1
Molybdenum	**3.0**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:40	1
Nickel	**4.5**	**J**	10	1.0	ug/L		01/14/19 10:32	01/16/19 11:40	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 11:40	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/16/19 11:40	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 11:40	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/16/19 11:40	1
Zinc	**45**		20	7.4	ug/L		01/14/19 10:32	01/16/19 11:40	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/25/19 09:23	01/25/19 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:52	1

Client Sample ID: DUP-65

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-16

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*76 - 132*		*01/25/19 01:01*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*01/25/19 01:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/25/19 01:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.3**		0.50	0.25	ug/L			01/25/19 01:01	1
Acetone	ND		20	10	ug/L			01/25/19 01:01	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 01:01	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 01:01	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 01:01	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 01:01	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 01:01	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 01:01	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 01:01	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 01:01	1

Client Sample ID: DUP-65

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-16

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 01:01	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 01:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 01:01	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 01:01	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 01:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 01:01	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 01:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 01:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 01:01	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 01:01	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 01:01	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*01/25/19 01:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/25/19 01:01*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Acenaphthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Fluorene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Phenanthrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Chrysene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Benzo[a]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Fluoranthene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Pyrene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/16/19 10:21	01/21/19 20:46	1

Client Sample ID: DUP-65

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-16

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*102*		*38 - 120*	*01/16/19 10:21*	*01/21/19 20:46*	*1*
Nitrobenzene-d5	*94*		*10 - 120*	*01/16/19 10:21*	*01/21/19 20:46*	*1*
Terphenyl-d14	*53*		*21 - 120*	*01/16/19 10:21*	*01/21/19 20:46*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**	**J**	520	100	ug/L		01/16/19 05:47	01/16/19 19:09	1
Motor Oil Range Organics [C24-C36]	**120**	**J**	520	100	ug/L		01/16/19 05:47	01/16/19 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*65*		*45 - 120*	*01/16/19 05:47*	*01/16/19 19:09*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/16/19 11:44	1
Arsenic	**11**		10	2.9	ug/L		01/14/19 10:32	01/16/19 11:44	1
Barium	**140**		50	1.6	ug/L		01/14/19 10:32	01/16/19 11:44	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/16/19 11:44	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/16/19 11:44	1
Chromium	**0.72**	**J B**	10	0.70	ug/L		01/14/19 10:32	01/16/19 11:44	1
Cobalt	**5.5**		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 11:44	1
Copper	**15**	**J**	20	3.7	ug/L		01/14/19 10:32	01/16/19 11:44	1
Lead	**6.8**		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 11:44	1
Molybdenum	**7.4**	**J**	10	2.9	ug/L		01/14/19 10:32	01/16/19 11:44	1
Nickel	**5.7**	**J**	10	1.0	ug/L		01/14/19 10:32	01/16/19 11:44	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 11:44	1
Silver	**2.4**	**J**	5.0	2.0	ug/L		01/14/19 10:32	01/16/19 11:44	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 11:44	1
Vanadium	**0.88**	**J**	10	0.87	ug/L		01/14/19 10:32	01/16/19 11:44	1
Zinc	**59**		20	7.4	ug/L		01/14/19 10:32	01/16/19 11:44	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/25/19 09:23	01/25/19 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:52	1

Client Sample ID: FB-1.11.19
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-17
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*01/24/19 04:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*01/24/19 04:57*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/24/19 04:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Acetone	ND		20	10	ug/L			01/24/19 04:57	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 04:57	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 04:57	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 04:57	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 04:57	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 04:57	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 04:57	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 04:57	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 04:57	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: FB-1.11.19
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 04:57	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 04:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 04:57	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 04:57	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 04:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 04:57	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 04:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 04:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 04:57	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 04:57	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 04:57	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*01/24/19 04:57*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/24/19 04:57*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: TB-1.11.19
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-18
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	35	J	50	35	ug/L			01/24/19 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*01/24/19 05:25*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*01/24/19 05:25*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/24/19 05:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Acetone	ND		20	10	ug/L			01/24/19 05:25	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 05:25	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 05:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 05:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 05:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 05:25	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 05:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 05:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 05:25	1

Client Sample ID: TB-1.11.19
Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 05:25	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 05:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 05:25	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 05:25	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 05:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 05:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 05:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 05:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 05:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 05:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 05:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*01/24/19 05:25*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*01/24/19 05:25*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCA	TOL								
Lab Sample ID	Client Sample ID	(70-130)	(80-128)								
720-90736-1	DG-Y7W	107	100								
720-90736-2	DG-AA7W	105	98								
720-90736-3	DG-AC7W	103	98								
720-90736-4	DG-AE7W	103	100								
720-90736-4 MS	DG-AE7W	95	99								
720-90736-4 MSD	DG-AE7W	103	99								
720-90736-5	DG-AU7W	106	99								
720-90736-6	DG-AS7W	102	99								
720-90736-7	DG-AO7W	100	96								
720-90736-8	DG-AM7W	91	100								
720-90736-9	DG-AK7W	89	97								
720-90736-10	DG-AI7W	98	98								
720-90736-10 MS	DG-AI7W	97	95								
720-90736-10 MSD	DG-AI7W	101	93								
720-90736-11	DG-AD9W	98	96								
720-90736-12	DG-AR9W	99	100								
720-90736-13	DUP-47	103	96								
720-90736-14	DUP-48	103	95								
720-90736-15	DUP-50	104	97								
720-90736-16	DUP-65	107	96								
720-90736-17	FB-1.11.19	92	98								
720-90736-18	TB-1.11.19	94	99								
LCS 440-524503/5	Lab Control Sample	103	96								
LCS 440-524785/5	Lab Control Sample	96	91								
MB 440-524503/4	Method Blank	101	102								
MB 440-524785/4	Method Blank	100	97								

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DBFM	BFB	TOL							
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)							
720-90736-1	DG-Y7W	112	101	100							
720-90736-2	DG-AA7W	110	99	98							
720-90736-3	DG-AC7W	109	101	98							
720-90736-4	DG-AE7W	106	102	100							
720-90736-4 MS	DG-AE7W	105	98	99							
720-90736-4 MSD	DG-AE7W	110	99	99							
720-90736-5	DG-AU7W	105	101	99							
720-90736-6	DG-AS7W	108	101	99							
720-90736-7	DG-AO7W	105	95	96							
720-90736-8	DG-AM7W	104	94	100							
720-90736-9	DG-AK7W	105	89	97							
720-90736-10	DG-AI7W	111	83	98							

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
720-90736-10 MS	DG-AI7W	113	81	95
720-90736-10 MSD	DG-AI7W	116	82	93
720-90736-11	DG-AD9W	112	81	96
720-90736-12	DG-AR9W	112	82	100
720-90736-13	DUP-47	115	85	96
720-90736-14	DUP-48	116	85	95
720-90736-15	DUP-50	117	84	97
720-90736-16	DUP-65	120	83	96
720-90736-17	FB-1.11.19	103	101	98
720-90736-18	TB-1.11.19	107	94	99
LCS 440-524504/6	Lab Control Sample	105	104	100
LCS 440-524786/6	Lab Control Sample	113	82	98
MB 440-524504/4	Method Blank	106	100	102
MB 440-524786/4	Method Blank	113	84	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-90736-1	DG-Y7W	85	67	56
720-90736-2	DG-AA7W	84	75	53
720-90736-3	DG-AC7W	66	49	55
720-90736-4	DG-AE7W	105	98	67
720-90736-4 MS	DG-AE7W	94	56	73
720-90736-4 MSD	DG-AE7W	93	60	58
720-90736-5	DG-AU7W	96	87	84
720-90736-6	DG-AS7W	94	88	94
720-90736-7	DG-AO7W	80	63	63
720-90736-8	DG-AM7W	93	72	48
720-90736-9	DG-AK7W	94	81	52
720-90736-10	DG-AI7W	99	75	60
720-90736-11	DG-AD9W	96	75	54
720-90736-12	DG-AR9W	82	79	57
720-90736-13	DUP-47	85	62	70
720-90736-14	DUP-48	81	72	65
720-90736-15	DUP-50	85	77	77
720-90736-16	DUP-65	102	94	53
LCS 440-522777/2-A - RA	Lab Control Sample	82	80	91
MB 440-522777/1-A	Method Blank	105	92	116

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
720-90736-1	DG-Y7W	56
720-90736-2	DG-AA7W	65
720-90736-3	DG-AC7W	63
720-90736-4	DG-AE7W	64
720-90736-5	DG-AU7W	68
720-90736-6	DG-AS7W	68
720-90736-7	DG-AO7W	69
720-90736-8	DG-AM7W	75
720-90736-9	DG-AK7W	71
720-90736-10	DG-AI7W	69
720-90736-10 MS	DG-AI7W	56
720-90736-10 MSD	DG-AI7W	66
720-90736-11	DG-AD9W	69
720-90736-12	DG-AR9W	71
720-90736-13	DUP-47	64
720-90736-14	DUP-48	69
720-90736-15	DUP-50	77
720-90736-16	DUP-65	65
LCS 440-522700/2-A	Lab Control Sample	64
MB 440-522700/1-A	Method Blank	64

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-524503/4
Matrix: Water
Analysis Batch: 524503

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Acetone	ND		20	10	ug/L			01/23/19 19:15	1
Benzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Bromobenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Bromoform	ND		1.0	0.40	ug/L			01/23/19 19:15	1
Bromomethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/23/19 19:15	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/23/19 19:15	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/19 19:15	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Chloroethane	ND		1.0	0.40	ug/L			01/23/19 19:15	1
Chloroform	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Chloromethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/23/19 19:15	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Dibromomethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/23/19 19:15	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
2-Hexanone	ND		5.0	2.5	ug/L			01/23/19 19:15	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/23/19 19:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/23/19 19:15	1
Naphthalene	ND		1.0	0.40	ug/L			01/23/19 19:15	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Styrene	ND		0.50	0.25	ug/L			01/23/19 19:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-524503/4
Matrix: Water
Analysis Batch: 524503

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Toluene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 19:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/23/19 19:15	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Trichloroethene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/23/19 19:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/23/19 19:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/23/19 19:15	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/23/19 19:15	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/23/19 19:15	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/23/19 19:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*01/23/19 19:15*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/23/19 19:15*	*1*

Lab Sample ID: LCS 440-524503/5
Matrix: Water
Analysis Batch: 524503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.9		ug/L		104	63 - 131
Acetone	25.0	22.4		ug/L		90	10 - 150
Benzene	25.0	25.3		ug/L		101	68 - 130
Dichlorobromomethane	25.0	24.8		ug/L		99	70 - 132
Bromobenzene	25.0	24.2		ug/L		97	70 - 130
Chlorobromomethane	25.0	27.8		ug/L		111	70 - 130
Bromoform	25.0	25.5		ug/L		102	60 - 148
Bromomethane	25.0	29.7		ug/L		119	64 - 139
2-Butanone (MEK)	25.0	27.9		ug/L		112	44 - 150
n-Butylbenzene	25.0	25.3		ug/L		101	65 - 150
sec-Butylbenzene	25.0	25.2		ug/L		101	70 - 138
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 130
Carbon disulfide	25.0	26.5		ug/L		106	52 - 136
Carbon tetrachloride	25.0	24.7		ug/L		99	60 - 150
Chlorobenzene	25.0	23.6		ug/L		94	70 - 130
Chloroethane	25.0	26.8		ug/L		107	64 - 135
Chloroform	25.0	26.8		ug/L		107	70 - 130
Chloromethane	25.0	24.9		ug/L		100	47 - 140
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524503/5
Matrix: Water
Analysis Batch: 524503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	25.0		ug/L		100	69 - 145
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	24.0		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	24.2		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	52 - 140
Ethylene Dibromide	25.0	24.3		ug/L		97	70 - 130
Dibromomethane	25.0	25.0		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	24.1		ug/L		96	29 - 150
1,1-Dichloroethane	25.0	25.2		ug/L		101	64 - 130
1,2-Dichloroethane	25.0	23.9		ug/L		96	57 - 138
1,1-Dichloroethene	25.0	28.5		ug/L		114	70 - 130
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 133
trans-1,2-Dichloroethene	25.0	27.4		ug/L		109	70 - 130
1,2-Dichloropropane	25.0	25.3		ug/L		101	67 - 130
cis-1,3-Dichloropropene	25.0	26.1		ug/L		104	70 - 133
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 132
Ethylbenzene	25.0	24.3		ug/L		97	70 - 130
Hexachlorobutadiene	25.0	25.6		ug/L		102	10 - 150
2-Hexanone	25.0	22.8		ug/L		91	10 - 150
Isopropylbenzene	25.0	25.4		ug/L		101	70 - 136
4-Isopropyltoluene	25.0	24.6		ug/L		98	70 - 132
Methylene Chloride	25.0	27.0		ug/L		108	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	22.6		ug/L		90	59 - 149
Naphthalene	25.0	23.5		ug/L		94	60 - 140
N-Propylbenzene	25.0	24.8		ug/L		99	67 - 139
Styrene	25.0	24.3		ug/L		97	70 - 134
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	60 - 141
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	63 - 130
Tetrachloroethene	25.0	24.9		ug/L		99	70 - 130
Toluene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	25.0	24.3		ug/L		97	60 - 140
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	60 - 140
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	70 - 130
Trichloroethene	25.0	25.2		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	26.6		ug/L		107	60 - 150
1,2,3-Trichloropropane	25.0	23.5		ug/L		94	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.7		ug/L		119	60 - 140
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		97	70 - 135
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 136
Vinyl acetate	25.0	26.7		ug/L		107	48 - 140
Vinyl chloride	25.0	25.7		ug/L		103	59 - 133
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130
o-Xylene	25.0	25.0		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	26.3		ug/L		105	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524503/5
Matrix: Water
Analysis Batch: 524503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 720-90736-4 MS
Matrix: Water
Analysis Batch: 524503

Client Sample ID: DG-AE7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	26.2		ug/L		105	70 - 130
Acetone	ND		25.0	28.5		ug/L		114	10 - 150
Benzene	ND		25.0	25.5		ug/L		102	66 - 130
Dichlorobromomethane	ND		25.0	23.9		ug/L		96	70 - 138
Bromobenzene	ND		25.0	24.2		ug/L		97	70 - 130
Chlorobromomethane	ND		25.0	27.2		ug/L		109	70 - 130
Bromoform	ND		25.0	25.2		ug/L		101	59 - 150
Bromomethane	ND		25.0	28.8		ug/L		115	62 - 131
2-Butanone (MEK)	ND		25.0	26.9		ug/L		108	48 - 140
n-Butylbenzene	ND		25.0	25.2		ug/L		101	61 - 149
sec-Butylbenzene	ND		25.0	25.2		ug/L		101	67 - 134
tert-Butylbenzene	ND		25.0	25.5		ug/L		102	70 - 130
Carbon disulfide	ND		25.0	26.4		ug/L		106	49 - 140
Carbon tetrachloride	ND		25.0	25.8		ug/L		103	60 - 150
Chlorobenzene	ND		25.0	23.9		ug/L		96	70 - 130
Chloroethane	ND		25.0	27.7		ug/L		111	68 - 130
Chloroform	ND		25.0	26.1		ug/L		104	70 - 130
Chloromethane	ND		25.0	25.4		ug/L		101	39 - 144
2-Chlorotoluene	ND		25.0	24.0		ug/L		96	70 - 130
4-Chlorotoluene	ND		25.0	24.6		ug/L		98	70 - 130
Chlorodibromomethane	ND		25.0	24.1		ug/L		97	70 - 148
1,2-Dichlorobenzene	ND		25.0	24.2		ug/L		97	70 - 130
1,3-Dichlorobenzene	ND		25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	ND		25.0	23.1		ug/L		93	70 - 130
1,3-Dichloropropane	ND		25.0	24.1		ug/L		96	70 - 130
1,1-Dichloropropene	ND		25.0	24.4		ug/L		98	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	24.4		ug/L		97	48 - 140
Ethylene Dibromide	ND		25.0	23.9		ug/L		96	70 - 131
Dibromomethane	ND		25.0	25.2		ug/L		101	70 - 130
Dichlorodifluoromethane	ND		25.0	25.4		ug/L		102	25 - 142
1,1-Dichloroethane	ND		25.0	25.7		ug/L		103	65 - 130
1,2-Dichloroethane	ND		25.0	23.6		ug/L		94	56 - 146
1,1-Dichloroethene	ND		25.0	29.3		ug/L		117	70 - 130
cis-1,2-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.9		ug/L		112	70 - 130
1,2-Dichloropropane	ND		25.0	24.8		ug/L		99	69 - 130
cis-1,3-Dichloropropene	ND		25.0	26.1		ug/L		105	70 - 133
trans-1,3-Dichloropropene	ND		25.0	25.9		ug/L		103	70 - 138
Ethylbenzene	ND		25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	ND		25.0	25.3		ug/L		101	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90736-4 MS
Matrix: Water
Analysis Batch: 524503

Client Sample ID: DG-AE7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	22.6		ug/L		90	10 - 150
Isopropylbenzene	ND		25.0	25.9		ug/L		104	70 - 132
4-Isopropyltoluene	ND		25.0	24.8		ug/L		99	70 - 130
Methylene Chloride	ND		25.0	27.3		ug/L		109	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.0		ug/L		92	52 - 150
Naphthalene	ND		25.0	23.2		ug/L		93	60 - 140
N-Propylbenzene	ND		25.0	25.0		ug/L		100	66 - 135
Styrene	ND		25.0	24.2		ug/L		97	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	24.1		ug/L		96	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.4		ug/L		94	63 - 130
Tetrachloroethene	ND		25.0	25.0		ug/L		100	70 - 137
Toluene	ND		25.0	24.9		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	24.4		ug/L		97	60 - 140
1,1,1-Trichloroethane	ND		25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.1		ug/L		101	70 - 130
Trichloroethene	ND		25.0	24.9		ug/L		99	70 - 130
Trichlorofluoromethane	ND		25.0	26.0		ug/L		104	60 - 150
1,2,3-Trichloropropane	ND		25.0	23.9		ug/L		95	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.4		ug/L		117	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130
Vinyl acetate	ND		25.0	25.7		ug/L		103	23 - 150
Vinyl chloride	ND		25.0	25.6		ug/L		102	50 - 137
m-Xylene & p-Xylene	ND		25.0	25.5		ug/L		102	70 - 133
o-Xylene	ND		25.0	25.6		ug/L		102	70 - 133
2,2-Dichloropropane	ND		25.0	27.3		ug/L		109	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-90736-4 MSD
Matrix: Water
Analysis Batch: 524503

Client Sample ID: DG-AE7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	28.1		ug/L		113	70 - 130	7	25
Acetone	ND		25.0	31.9		ug/L		128	10 - 150	11	35
Benzene	ND		25.0	26.0		ug/L		104	66 - 130	2	20
Dichlorobromomethane	ND		25.0	24.1		ug/L		96	70 - 138	1	20
Bromobenzene	ND		25.0	24.6		ug/L		98	70 - 130	1	20
Chlorobromomethane	ND		25.0	29.0		ug/L		116	70 - 130	6	25
Bromoform	ND		25.0	26.1		ug/L		104	59 - 150	4	25
Bromomethane	ND		25.0	29.5		ug/L		118	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	32.7		ug/L		131	48 - 140	19	40
n-Butylbenzene	ND		25.0	25.3		ug/L		101	61 - 149	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90736-4 MSD
Matrix: Water
Analysis Batch: 524503

Client Sample ID: DG-AE7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	26.1		ug/L		104	67 - 134	3	20
tert-Butylbenzene	ND		25.0	25.8		ug/L		103	70 - 130	1	20
Carbon disulfide	ND		25.0	27.6		ug/L		110	49 - 140	4	20
Carbon tetrachloride	ND		25.0	26.1		ug/L		104	60 - 150	1	25
Chlorobenzene	ND		25.0	24.0		ug/L		96	70 - 130	0	20
Chloroethane	ND		25.0	27.5		ug/L		110	68 - 130	0	25
Chloroform	ND		25.0	26.9		ug/L		108	70 - 130	3	20
Chloromethane	ND		25.0	25.7		ug/L		103	39 - 144	1	25
2-Chlorotoluene	ND		25.0	24.5		ug/L		98	70 - 130	2	20
4-Chlorotoluene	ND		25.0	25.0		ug/L		100	70 - 130	2	20
Chlorodibromomethane	ND		25.0	25.4		ug/L		102	70 - 148	5	25
1,2-Dichlorobenzene	ND		25.0	24.6		ug/L		98	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	24.3		ug/L		97	70 - 130	2	20
1,4-Dichlorobenzene	ND		25.0	24.0		ug/L		96	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	25.0		ug/L		100	70 - 130	4	25
1,1-Dichloropropene	ND		25.0	25.7		ug/L		103	64 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		25.0	28.9		ug/L		116	48 - 140	17	30
Ethylene Dibromide	ND		25.0	25.1		ug/L		100	70 - 131	5	25
Dibromomethane	ND		25.0	25.4		ug/L		102	70 - 130	1	25
Dichlorodifluoromethane	ND		25.0	25.6		ug/L		103	25 - 142	1	30
1,1-Dichloroethane	ND		25.0	25.2		ug/L		101	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	24.6		ug/L		98	56 - 146	4	20
1,1-Dichloroethene	ND		25.0	31.2		ug/L		125	70 - 130	6	20
cis-1,2-Dichloroethene	ND		25.0	25.3		ug/L		101	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	28.8		ug/L		115	70 - 130	3	20
1,2-Dichloropropane	ND		25.0	25.3		ug/L		101	69 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	26.7		ug/L		107	70 - 133	2	20
trans-1,3-Dichloropropene	ND		25.0	26.2		ug/L		105	70 - 138	1	25
Ethylbenzene	ND		25.0	24.9		ug/L		100	70 - 130	2	20
Hexachlorobutadiene	ND		25.0	25.7		ug/L		103	10 - 150	2	20
2-Hexanone	ND		25.0	26.5		ug/L		106	10 - 150	16	35
Isopropylbenzene	ND		25.0	25.7		ug/L		103	70 - 132	1	20
4-Isopropyltoluene	ND		25.0	25.0		ug/L		100	70 - 130	1	20
Methylene Chloride	ND		25.0	28.4		ug/L		114	52 - 130	4	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	26.2		ug/L		105	52 - 150	13	35
Naphthalene	ND		25.0	26.1		ug/L		105	60 - 140	12	30
N-Propylbenzene	ND		25.0	25.3		ug/L		101	66 - 135	1	20
Styrene	ND		25.0	24.3		ug/L		97	29 - 150	0	35
1,1,1,2-Tetrachloroethane	ND		25.0	24.9		ug/L		100	60 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.0		ug/L		104	63 - 130	10	30
Tetrachloroethene	ND		25.0	26.0		ug/L		104	70 - 137	4	20
Toluene	ND		25.0	25.2		ug/L		101	70 - 130	1	20
1,2,3-Trichlorobenzene	ND		25.0	25.5		ug/L		102	60 - 140	8	20
1,2,4-Trichlorobenzene	ND		25.0	24.6		ug/L		98	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	25.3		ug/L		101	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	25.2		ug/L		101	70 - 130	0	25
Trichloroethene	ND		25.0	25.2		ug/L		101	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	26.4		ug/L		105	60 - 150	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90736-4 MSD
Matrix: Water
Analysis Batch: 524503

Client Sample ID: DG-AE7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	26.1		ug/L		104	60 - 130	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	30.3		ug/L		121	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		25.0	25.2		ug/L		101	70 - 130	2	25
1,3,5-Trimethylbenzene	ND		25.0	25.2		ug/L		101	70 - 130	2	20
Vinyl acetate	ND		25.0	28.6		ug/L		115	23 - 150	11	30
Vinyl chloride	ND		25.0	26.1		ug/L		105	50 - 137	2	30
m-Xylene & p-Xylene	ND		25.0	25.7		ug/L		103	70 - 133	1	25
o-Xylene	ND		25.0	25.3		ug/L		101	70 - 133	1	20
2,2-Dichloropropane	ND		25.0	26.4		ug/L		106	69 - 138	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: MB 440-524785/4
Matrix: Water
Analysis Batch: 524785

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Acetone	ND		20	10	ug/L			01/24/19 20:10	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 20:10	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 20:10	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 20:10	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 20:10	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 20:10	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 20:10	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 20:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-524785/4
Matrix: Water
Analysis Batch: 524785

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 20:10	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 20:10	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 20:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 20:10	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 20:10	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 20:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 20:10	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 20:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 20:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 20:10	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 20:10	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 20:10	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 20:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/24/19 20:10*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/24/19 20:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524785/5
Matrix: Water
Analysis Batch: 524785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.6		ug/L		106	63 - 131
Acetone	25.0	20.1		ug/L		81	10 - 150
Benzene	25.0	24.3		ug/L		97	68 - 130
Dichlorobromomethane	25.0	25.8		ug/L		103	70 - 132
Bromobenzene	25.0	26.3		ug/L		105	70 - 130
Chlorobromomethane	25.0	30.8		ug/L		123	70 - 130
Bromoform	25.0	28.2		ug/L		113	60 - 148
Bromomethane	25.0	26.4		ug/L		106	64 - 139
2-Butanone (MEK)	25.0	23.1		ug/L		92	44 - 150
n-Butylbenzene	25.0	21.2		ug/L		85	65 - 150
sec-Butylbenzene	25.0	21.4		ug/L		85	70 - 138
tert-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
Carbon disulfide	25.0	25.4		ug/L		102	52 - 136
Carbon tetrachloride	25.0	29.7		ug/L		119	60 - 150
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130
Chloroethane	25.0	22.5		ug/L		90	64 - 135
Chloroform	25.0	26.0		ug/L		104	70 - 130
Chloromethane	25.0	21.5		ug/L		86	47 - 140
2-Chlorotoluene	25.0	21.4		ug/L		86	70 - 130
4-Chlorotoluene	25.0	21.5		ug/L		86	70 - 130
Chlorodibromomethane	25.0	26.7		ug/L		107	69 - 145
1,2-Dichlorobenzene	25.0	26.8		ug/L		107	70 - 130
1,3-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,4-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,3-Dichloropropane	25.0	21.7		ug/L		87	70 - 130
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.5		ug/L		78	52 - 140
Ethylene Dibromide	25.0	23.0		ug/L		92	70 - 130
Dibromomethane	25.0	27.0		ug/L		108	70 - 130
Dichlorodifluoromethane	25.0	24.9		ug/L		100	29 - 150
1,1-Dichloroethane	25.0	24.4		ug/L		98	64 - 130
1,2-Dichloroethane	25.0	26.0		ug/L		104	57 - 138
1,1-Dichloroethene	25.0	28.0		ug/L		112	70 - 130
cis-1,2-Dichloroethene	25.0	28.6		ug/L		114	70 - 133
trans-1,2-Dichloroethene	25.0	27.9		ug/L		112	70 - 130
1,2-Dichloropropane	25.0	24.8		ug/L		99	67 - 130
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	70 - 133
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	70 - 132
Ethylbenzene	25.0	23.1		ug/L		92	70 - 130
Hexachlorobutadiene	25.0	27.7		ug/L		111	10 - 150
2-Hexanone	25.0	17.0		ug/L		68	10 - 150
Isopropylbenzene	25.0	23.4		ug/L		93	70 - 136
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 132
Methylene Chloride	25.0	24.9		ug/L		100	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	17.9		ug/L		72	59 - 149
Naphthalene	25.0	24.3		ug/L		97	60 - 140
N-Propylbenzene	25.0	21.3		ug/L		85	67 - 139
Styrene	25.0	21.2		ug/L		85	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524785/5
Matrix: Water
Analysis Batch: 524785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.7		ug/L		107	60 - 141
1,1,2,2-Tetrachloroethane	25.0	18.8		ug/L		75	63 - 130
Tetrachloroethene	25.0	30.0		ug/L		120	70 - 130
Toluene	25.0	23.0		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	25.0	26.9		ug/L		107	60 - 140
1,2,4-Trichlorobenzene	25.0	28.3		ug/L		113	60 - 140
1,1,1-Trichloroethane	25.0	28.7		ug/L		115	70 - 130
1,1,2-Trichloroethane	25.0	21.5		ug/L		86	70 - 130
Trichloroethene	25.0	30.9		ug/L		123	70 - 130
Trichlorofluoromethane	25.0	27.0		ug/L		108	60 - 150
1,2,3-Trichloropropane	25.0	21.6		ug/L		87	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.5		ug/L		114	60 - 140
1,2,4-Trimethylbenzene	25.0	21.7		ug/L		87	70 - 135
1,3,5-Trimethylbenzene	25.0	21.8		ug/L		87	70 - 136
Vinyl acetate	25.0	22.6		ug/L		91	48 - 140
Vinyl chloride	25.0	21.8		ug/L		87	59 - 133
m-Xylene & p-Xylene	25.0	23.0		ug/L		92	70 - 130
o-Xylene	25.0	24.0		ug/L		96	70 - 130
2,2-Dichloropropane	25.0	26.7		ug/L		107	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*91*		*80 - 128*

Lab Sample ID: 720-90736-10 MS
Matrix: Water
Analysis Batch: 524785

Client Sample ID: DG-AI7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	27.6		ug/L		110	70 - 130
Acetone	ND		25.0	23.8		ug/L		95	10 - 150
Benzene	ND		25.0	24.8		ug/L		99	66 - 130
Dichlorobromomethane	ND		25.0	25.6		ug/L		102	70 - 138
Bromobenzene	ND		25.0	25.3		ug/L		101	70 - 130
Chlorobromomethane	ND		25.0	30.7		ug/L		123	70 - 130
Bromoform	ND		25.0	29.3		ug/L		117	59 - 150
Bromomethane	ND		25.0	26.4		ug/L		105	62 - 131
2-Butanone (MEK)	ND		25.0	23.9		ug/L		96	48 - 140
n-Butylbenzene	ND		25.0	20.9		ug/L		84	61 - 149
sec-Butylbenzene	ND		25.0	20.6		ug/L		83	67 - 134
tert-Butylbenzene	ND		25.0	22.4		ug/L		89	70 - 130
Carbon disulfide	ND		25.0	25.6		ug/L		102	49 - 140
Carbon tetrachloride	ND		25.0	30.3		ug/L		121	60 - 150
Chlorobenzene	ND		25.0	26.1		ug/L		105	70 - 130
Chloroethane	ND		25.0	22.6		ug/L		91	68 - 130
Chloroform	ND		25.0	26.3		ug/L		105	70 - 130
Chloromethane	ND		25.0	21.5		ug/L		86	39 - 144

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90736-10 MS
Matrix: Water
Analysis Batch: 524785

Client Sample ID: DG-AI7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		25.0	20.5		ug/L		82	70 - 130
4-Chlorotoluene	ND		25.0	20.6		ug/L		82	70 - 130
Chlorodibromomethane	ND		25.0	27.9		ug/L		111	70 - 148
1,2-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.6		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130
1,3-Dichloropropane	ND		25.0	22.4		ug/L		90	70 - 130
1,1-Dichloropropene	ND		25.0	26.1		ug/L		104	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	19.6		ug/L		78	48 - 140
Ethylene Dibromide	ND		25.0	24.3		ug/L		97	70 - 131
Dibromomethane	ND		25.0	27.5		ug/L		110	70 - 130
Dichlorodifluoromethane	ND		25.0	25.8		ug/L		103	25 - 142
1,1-Dichloroethane	ND		25.0	24.7		ug/L		99	65 - 130
1,2-Dichloroethane	ND		25.0	26.1		ug/L		104	56 - 146
1,1-Dichloroethene	ND		25.0	28.7		ug/L		115	70 - 130
cis-1,2-Dichloroethene	ND		25.0	28.4		ug/L		114	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.9		ug/L		112	70 - 130
1,2-Dichloropropane	ND		25.0	25.0		ug/L		100	69 - 130
cis-1,3-Dichloropropene	ND		25.0	24.6		ug/L		98	70 - 133
trans-1,3-Dichloropropene	ND		25.0	24.1		ug/L		97	70 - 138
Ethylbenzene	ND		25.0	24.0		ug/L		96	70 - 130
Hexachlorobutadiene	ND		25.0	26.7		ug/L		107	10 - 150
2-Hexanone	ND		25.0	20.3		ug/L		81	10 - 150
Isopropylbenzene	ND		25.0	24.5		ug/L		98	70 - 132
4-Isopropyltoluene	ND		25.0	22.9		ug/L		92	70 - 130
Methylene Chloride	ND		25.0	24.7		ug/L		99	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	19.9		ug/L		80	52 - 150
Naphthalene	ND		25.0	24.6		ug/L		98	60 - 140
N-Propylbenzene	ND		25.0	20.5		ug/L		82	66 - 135
Styrene	ND		25.0	21.5		ug/L		86	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.7		ug/L		111	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	18.6		ug/L		74	63 - 130
Tetrachloroethene	ND		25.0	31.4		ug/L		126	70 - 137
Toluene	ND		25.0	23.9		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.3		ug/L		105	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	27.6		ug/L		110	60 - 140
1,1,1-Trichloroethane	ND		25.0	29.4		ug/L		118	70 - 130
1,1,2-Trichloroethane	ND		25.0	22.7		ug/L		91	70 - 130
Trichloroethene	ND		25.0	31.1		ug/L		124	70 - 130
Trichlorofluoromethane	ND		25.0	28.2		ug/L		113	60 - 150
1,2,3-Trichloropropane	ND		25.0	22.2		ug/L		89	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.8		ug/L		115	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	20.6		ug/L		82	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	21.0		ug/L		84	70 - 130
Vinyl acetate	ND		25.0	23.8		ug/L		95	23 - 150
Vinyl chloride	ND		25.0	21.7		ug/L		87	50 - 137
m-Xylene & p-Xylene	ND		25.0	24.0		ug/L		96	70 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90736-10 MS
Matrix: Water
Analysis Batch: 524785

Client Sample ID: DG-AI7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	ND		25.0	24.6		ug/L		99	70 - 133
2,2-Dichloropropane	ND		25.0	26.9		ug/L		108	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*95*		*80 - 128*

Lab Sample ID: 720-90736-10 MSD
Matrix: Water
Analysis Batch: 524785

Client Sample ID: DG-AI7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	27.4		ug/L		110	70 - 130	1	25
Acetone	ND		25.0	25.0		ug/L		100	10 - 150	5	35
Benzene	ND		25.0	24.3		ug/L		97	66 - 130	2	20
Dichlorobromomethane	ND		25.0	25.4		ug/L		102	70 - 138	1	20
Bromobenzene	ND		25.0	25.8		ug/L		103	70 - 130	2	20
Chlorobromomethane	ND		25.0	30.6		ug/L		123	70 - 130	0	25
Bromoform	ND		25.0	28.5		ug/L		114	59 - 150	3	25
Bromomethane	ND		25.0	26.3		ug/L		105	62 - 131	0	25
2-Butanone (MEK)	ND		25.0	23.4		ug/L		93	48 - 140	2	40
n-Butylbenzene	ND		25.0	20.7		ug/L		83	61 - 149	1	20
sec-Butylbenzene	ND		25.0	20.7		ug/L		83	67 - 134	0	20
tert-Butylbenzene	ND		25.0	22.4		ug/L		90	70 - 130	0	20
Carbon disulfide	ND		25.0	25.8		ug/L		103	49 - 140	1	20
Carbon tetrachloride	ND		25.0	29.8		ug/L		119	60 - 150	2	25
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	2	20
Chloroethane	ND		25.0	22.8		ug/L		91	68 - 130	1	25
Chloroform	ND		25.0	25.7		ug/L		103	70 - 130	2	20
Chloromethane	ND		25.0	20.9		ug/L		83	39 - 144	3	25
2-Chlorotoluene	ND		25.0	20.4		ug/L		82	70 - 130	0	20
4-Chlorotoluene	ND		25.0	20.7		ug/L		83	70 - 130	0	20
Chlorodibromomethane	ND		25.0	27.1		ug/L		108	70 - 148	3	25
1,2-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	0	20
1,4-Dichlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	21.4		ug/L		86	70 - 130	5	25
1,1-Dichloropropene	ND		25.0	26.2		ug/L		105	64 - 130	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	20.2		ug/L		81	48 - 140	3	30
Ethylene Dibromide	ND		25.0	23.4		ug/L		94	70 - 131	4	25
Dibromomethane	ND		25.0	26.6		ug/L		106	70 - 130	3	25
Dichlorodifluoromethane	ND		25.0	24.7		ug/L		99	25 - 142	4	30
1,1-Dichloroethane	ND		25.0	24.4		ug/L		97	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	25.8		ug/L		103	56 - 146	1	20
1,1-Dichloroethene	ND		25.0	28.9		ug/L		116	70 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	28.1		ug/L		112	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	27.4		ug/L		110	70 - 130	2	20
1,2-Dichloropropane	ND		25.0	24.3		ug/L		97	69 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90736-10 MSD
Matrix: Water
Analysis Batch: 524785

Client Sample ID: DG-AI7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND		25.0	23.4		ug/L		94	70 - 133	5	20
trans-1,3-Dichloropropene	ND		25.0	22.9		ug/L		92	70 - 138	5	25
Ethylbenzene	ND		25.0	23.1		ug/L		92	70 - 130	4	20
Hexachlorobutadiene	ND		25.0	27.2		ug/L		109	10 - 150	2	20
2-Hexanone	ND		25.0	18.8		ug/L		75	10 - 150	8	35
Isopropylbenzene	ND		25.0	23.6		ug/L		94	70 - 132	4	20
4-Isopropyltoluene	ND		25.0	22.9		ug/L		91	70 - 130	0	20
Methylene Chloride	ND		25.0	25.1		ug/L		100	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	19.3		ug/L		77	52 - 150	3	35
Naphthalene	ND		25.0	24.9		ug/L		99	60 - 140	1	30
N-Propylbenzene	ND		25.0	20.0		ug/L		80	66 - 135	2	20
Styrene	ND		25.0	20.6		ug/L		82	29 - 150	4	35
1,1,1,2-Tetrachloroethane	ND		25.0	27.2		ug/L		109	60 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	18.6		ug/L		74	63 - 130	0	30
Tetrachloroethene	ND		25.0	30.2		ug/L		121	70 - 137	4	20
Toluene	ND		25.0	22.7		ug/L		91	70 - 130	5	20
1,2,3-Trichlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	27.5		ug/L		110	60 - 140	0	20
1,1,1-Trichloroethane	ND		25.0	28.9		ug/L		116	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	21.6		ug/L		86	70 - 130	5	25
Trichloroethene	ND		25.0	30.3		ug/L		121	70 - 130	3	20
Trichlorofluoromethane	ND		25.0	27.2		ug/L		109	60 - 150	4	25
1,2,3-Trichloropropane	ND		25.0	22.0		ug/L		88	60 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.6		ug/L		114	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		25.0	20.6		ug/L		82	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		25.0	21.0		ug/L		84	70 - 130	0	20
Vinyl acetate	ND		25.0	23.5		ug/L		94	23 - 150	1	30
Vinyl chloride	ND		25.0	21.8		ug/L		87	50 - 137	0	30
m-Xylene & p-Xylene	ND		25.0	23.1		ug/L		92	70 - 133	4	25
o-Xylene	ND		25.0	23.5		ug/L		94	70 - 133	5	20
2,2-Dichloropropane	ND		25.0	26.0		ug/L		104	69 - 138	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*93*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-524504/4
Matrix: Water
Analysis Batch: 524504

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/23/19 19:15	1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-524504/4
Matrix: Water
Analysis Batch: 524504

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		76 - 132		01/23/19 19:15	1
4-Bromofluorobenzene (Surr)	100		80 - 120		01/23/19 19:15	1
Toluene-d8 (Surr)	102		80 - 128		01/23/19 19:15	1

Lab Sample ID: LCS 440-524504/6
Matrix: Water
Analysis Batch: 524504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	391		ug/L		78	55 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	105		76 - 132
4-Bromofluorobenzene (Surr)	104		80 - 120
Toluene-d8 (Surr)	100		80 - 128

Lab Sample ID: 720-90736-4 MS
Matrix: Water
Analysis Batch: 524504

Client Sample ID: DG-AE7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1560		ug/L		90	50 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	105		76 - 132
4-Bromofluorobenzene (Surr)	98		80 - 120
Toluene-d8 (Surr)	99		80 - 128

Lab Sample ID: 720-90736-4 MSD
Matrix: Water
Analysis Batch: 524504

Client Sample ID: DG-AE7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1620		ug/L		94	50 - 145	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	110		76 - 132
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	99		80 - 128

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-524786/4
Matrix: Water
Analysis Batch: 524786

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 20:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*01/24/19 20:10*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*01/24/19 20:10*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/24/19 20:10*	*1*

Lab Sample ID: LCS 440-524786/6
Matrix: Water
Analysis Batch: 524786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	480		ug/L		96	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*82*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-90736-10 MS
Matrix: Water
Analysis Batch: 524786

Client Sample ID: DG-AI7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1690		ug/L		98	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*81*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 128*

Lab Sample ID: 720-90736-10 MSD
Matrix: Water
Analysis Batch: 524786

Client Sample ID: DG-AI7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1680		ug/L		98	50 - 145	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*116*		*76 - 132*
4-Bromofluorobenzene (Surr)	*82*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-522777/1-A
Matrix: Water
Analysis Batch: 523378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Acenaphthene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Fluorene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Phenanthrene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Anthracene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Chrysene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Fluoranthene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Pyrene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/16/19 10:21	01/18/19 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*105*		*38 - 120*	*01/16/19 10:21*	*01/18/19 11:00*	*1*
Nitrobenzene-d5	*92*		*10 - 120*	*01/16/19 10:21*	*01/18/19 11:00*	*1*
Terphenyl-d14	*116*		*21 - 120*	*01/16/19 10:21*	*01/18/19 11:00*	*1*

Lab Sample ID: 720-90736-4 MS
Matrix: Water
Analysis Batch: 523758

Client Sample ID: DG-AE7W
Prep Type: Total/NA
Prep Batch: 522777

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		1.06	0.806		ug/L		76	10 - 150
Acenaphthene	ND		1.06	0.905		ug/L		85	10 - 150
Acenaphthylene	ND		1.06	0.928		ug/L		88	23 - 132
Fluorene	ND		1.06	0.990		ug/L		94	10 - 150
Phenanthrene	0.14	J	1.06	1.03		ug/L		84	10 - 150
Anthracene	ND		1.06	0.862		ug/L		81	13 - 136
Benzo[a]anthracene	0.22		1.06	0.871		ug/L		61	10 - 123
Chrysene	0.18	J	1.06	0.842		ug/L		62	10 - 131
Benzo[a]pyrene	0.25		1.06	0.899		ug/L		62	10 - 122
Benzo[b]fluoranthene	0.30		1.06	0.954		ug/L		62	10 - 129
Benzo[k]fluoranthene	0.14	J	1.06	0.708		ug/L		54	10 - 132
Benzo[g,h,i]perylene	0.26		1.06	0.917		ug/L		62	10 - 126
Indeno[1,2,3-cd]pyrene	0.22		1.06	0.815		ug/L		57	10 - 121
Fluoranthene	0.47		1.06	1.35		ug/L		83	11 - 148
Pyrene	0.42		1.06	1.26		ug/L		79	13 - 144
Dibenz(a,h)anthracene	ND		1.06	0.676		ug/L		64	10 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*94*		*38 - 120*
Nitrobenzene-d5	*56*		*10 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90736-4 MS
Matrix: Water
Analysis Batch: 523758

Client Sample ID: DG-AE7W
Prep Type: Total/NA
Prep Batch: 522777

Surrogate	MS %Recovery	MS Qualifier	Limits
Terphenyl-d14	*73*		*21 - 120*

Lab Sample ID: 720-90736-4 MSD
Matrix: Water
Analysis Batch: 523758

Client Sample ID: DG-AE7W
Prep Type: Total/NA
Prep Batch: 522777

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		1.06	0.888		ug/L		84	10 - 150	10	35
Acenaphthene	ND		1.06	0.900		ug/L		85	10 - 150	1	35
Acenaphthylene	ND		1.06	0.920		ug/L		87	23 - 132	1	35
Fluorene	ND		1.06	0.936		ug/L		88	10 - 150	6	35
Phenanthrene	0.14	J	1.06	0.969		ug/L		79	10 - 150	6	35
Anthracene	ND		1.06	0.774		ug/L		73	13 - 136	11	35
Benzo[a]anthracene	0.22		1.06	0.699		ug/L		45	10 - 123	22	35
Chrysene	0.18	J	1.06	0.719		ug/L		51	10 - 131	16	35
Benzo[a]pyrene	0.25		1.06	0.748		ug/L		47	10 - 122	18	35
Benzo[b]fluoranthene	0.30		1.06	0.733		ug/L		41	10 - 129	26	35
Benzo[k]fluoranthene	0.14	J	1.06	0.632		ug/L		47	10 - 132	11	35
Benzo[g,h,i]perylene	0.26		1.06	0.774		ug/L		48	10 - 126	17	35
Indeno[1,2,3-cd]pyrene	0.22		1.06	0.699		ug/L		46	10 - 121	15	35
Fluoranthene	0.47		1.06	1.12		ug/L		62	11 - 148	19	35
Pyrene	0.42		1.06	1.04		ug/L		59	13 - 144	19	35
Dibenz(a,h)anthracene	ND		1.06	0.625		ug/L		59	10 - 119	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*
Nitrobenzene-d5	*60*		*10 - 120*
Terphenyl-d14	*58*		*21 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Lab Sample ID: LCS 440-522777/2-A
Matrix: Water
Analysis Batch: 523975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene - RA	1.00	0.734		ug/L		73	50 - 120
Acenaphthene - RA	1.00	0.769		ug/L		77	55 - 120
Acenaphthylene - RA	1.00	0.775		ug/L		77	53 - 120
Fluorene - RA	1.00	0.832		ug/L		83	56 - 120
Phenanthrene - RA	1.00	0.770		ug/L		77	56 - 120
Anthracene - RA	1.00	0.731		ug/L		73	54 - 120
Benzo[a]anthracene - RA	1.00	0.745		ug/L		75	53 - 120
Chrysene - RA	1.00	0.777		ug/L		78	56 - 120
Benzo[a]pyrene - RA	1.00	0.736		ug/L		74	44 - 120
Benzo[b]fluoranthene - RA	1.00	0.754		ug/L		75	48 - 120
Benzo[k]fluoranthene - RA	1.00	0.795		ug/L		80	47 - 121

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA (Continued)

Lab Sample ID: LCS 440-522777/2-A
Matrix: Water
Analysis Batch: 523975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene - RA	1.00	0.754		ug/L		75	41 - 123
Indeno[1,2,3-cd]pyrene - RA	1.00	0.685		ug/L		69	38 - 120
Fluoranthene - RA	1.00	0.903		ug/L		90	59 - 120
Pyrene - RA	1.00	0.880		ug/L		88	59 - 120
Dibenz(a,h)anthracene - RA	1.00	0.735		ug/L		74	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr) - RA	*82*		*38 - 120*
Nitrobenzene-d5 - RA	*80*		*10 - 120*
Terphenyl-d14 - RA	*91*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-522700/1-A
Matrix: Water
Analysis Batch: 522742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/16/19 05:47	01/16/19 11:36	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/16/19 05:47	01/16/19 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*45 - 120*	*01/16/19 05:47*	*01/16/19 11:36*	*1*

Lab Sample ID: LCS 440-522700/2-A
Matrix: Water
Analysis Batch: 522742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	1000	496	J	ug/L		50	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*64*		*45 - 120*

Lab Sample ID: 720-90736-10 MS
Matrix: Water
Analysis Batch: 522742

Client Sample ID: DG-AI7W
Prep Type: Total/NA
Prep Batch: 522700

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	310	J F1	1050	618	F1	ug/L		29	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*56*		*45 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90736-10 MSD
Matrix: Water
Analysis Batch: 522742

Client Sample ID: DG-AI7W
Prep Type: Total/NA
Prep Batch: 522700

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	310	J F1	1090	714	F1	ug/L		37	40 - 120	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*66*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258443/1-A
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/15/19 19:03	1
Arsenic	3.66	J	10	2.9	ug/L		01/14/19 10:32	01/15/19 19:03	1
Barium	ND		50	1.6	ug/L		01/14/19 10:32	01/15/19 19:03	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/15/19 19:03	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/15/19 19:03	1
Chromium	ND		10	0.70	ug/L		01/14/19 10:32	01/15/19 19:03	1
Cobalt	ND		2.0	0.68	ug/L		01/14/19 10:32	01/15/19 19:03	1
Copper	ND		20	3.7	ug/L		01/14/19 10:32	01/15/19 19:03	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/15/19 19:03	1
Molybdenum	ND		10	2.9	ug/L		01/14/19 10:32	01/15/19 19:03	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/15/19 19:03	1
Selenium	4.84	J	20	4.6	ug/L		01/14/19 10:32	01/15/19 19:03	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/15/19 19:03	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/15/19 19:03	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/15/19 19:03	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/15/19 19:03	1

Lab Sample ID: LCS 720-258443/2-A
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	952		ug/L		95	80 - 120
Arsenic	1000	951		ug/L		95	80 - 120
Barium	1000	938		ug/L		94	80 - 120
Beryllium	1000	920		ug/L		92	80 - 120
Cadmium	1000	955		ug/L		95	80 - 120
Chromium	1000	940		ug/L		94	80 - 120
Cobalt	1000	961		ug/L		96	80 - 120
Copper	1000	952		ug/L		95	80 - 120
Lead	1000	969		ug/L		97	80 - 120
Molybdenum	1000	951		ug/L		95	80 - 120
Nickel	1000	961		ug/L		96	80 - 120
Selenium	1000	962		ug/L		96	80 - 120
Silver	500	432		ug/L		86	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-258443/2-A
Matrix: Water
Analysis Batch: 258610

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	1000	868		ug/L		87	80 - 120
Vanadium	1000	934		ug/L		93	80 - 120
Zinc	1000	952		ug/L		95	80 - 120

Lab Sample ID: MB 720-258448/1-A
Matrix: Water
Analysis Batch: 258632

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258448

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/14/19 10:32	01/16/19 10:23	1
Arsenic	ND		10	2.9	ug/L		01/14/19 10:32	01/16/19 10:23	1
Barium	ND		50	1.6	ug/L		01/14/19 10:32	01/16/19 10:23	1
Beryllium	ND		2.0	0.59	ug/L		01/14/19 10:32	01/16/19 10:23	1
Cadmium	ND		2.0	0.21	ug/L		01/14/19 10:32	01/16/19 10:23	1
Chromium	0.730	J	10	0.70	ug/L		01/14/19 10:32	01/16/19 10:23	1
Cobalt	ND		2.0	0.68	ug/L		01/14/19 10:32	01/16/19 10:23	1
Copper	ND		20	3.7	ug/L		01/14/19 10:32	01/16/19 10:23	1
Lead	ND		5.0	2.2	ug/L		01/14/19 10:32	01/16/19 10:23	1
Molybdenum	ND		10	2.9	ug/L		01/14/19 10:32	01/16/19 10:23	1
Nickel	ND		10	1.0	ug/L		01/14/19 10:32	01/16/19 10:23	1
Selenium	ND		20	4.6	ug/L		01/14/19 10:32	01/16/19 10:23	1
Silver	ND		5.0	2.0	ug/L		01/14/19 10:32	01/16/19 10:23	1
Thallium	ND		10	3.5	ug/L		01/14/19 10:32	01/16/19 10:23	1
Vanadium	ND		10	0.87	ug/L		01/14/19 10:32	01/16/19 10:23	1
Zinc	ND		20	7.4	ug/L		01/14/19 10:32	01/16/19 10:23	1

Lab Sample ID: LCS 720-258448/2-A
Matrix: Water
Analysis Batch: 258632

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	953		ug/L		95	80 - 120
Arsenic	1000	946		ug/L		95	80 - 120
Barium	1000	930		ug/L		93	80 - 120
Beryllium	1000	920		ug/L		92	80 - 120
Cadmium	1000	965		ug/L		97	80 - 120
Chromium	1000	941		ug/L		94	80 - 120
Cobalt	1000	967		ug/L		97	80 - 120
Copper	1000	922		ug/L		92	80 - 120
Lead	1000	969		ug/L		97	80 - 120
Molybdenum	1000	946		ug/L		95	80 - 120
Nickel	1000	967		ug/L		97	80 - 120
Selenium	1000	973		ug/L		97	80 - 120
Silver	500	422		ug/L		84	80 - 120
Thallium	1000	979		ug/L		98	80 - 120
Vanadium	1000	931		ug/L		93	80 - 120
Zinc	1000	958		ug/L		96	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90736-4 MS
Matrix: Water
Analysis Batch: 258610

Client Sample ID: DG-AE7W
Prep Type: Dissolved
Prep Batch: 258443

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	992		ug/L		99	75 - 125
Arsenic	10	B	1000	965		ug/L		95	75 - 125
Barium	190		1000	1140		ug/L		95	75 - 125
Beryllium	ND		1000	1010		ug/L		101	75 - 125
Cadmium	ND		1000	937		ug/L		94	75 - 125
Chromium	0.75	J	1000	971		ug/L		97	75 - 125
Cobalt	2.0		1000	913		ug/L		91	75 - 125
Copper	4.5	J	1000	911		ug/L		91	75 - 125
Lead	6.6		1000	950		ug/L		94	75 - 125
Molybdenum	4.3	J	1000	935		ug/L		93	75 - 125
Nickel	3.9	J	1000	960		ug/L		96	75 - 125
Selenium	ND		1000	1000		ug/L		100	75 - 125
Silver	ND		500	475		ug/L		95	75 - 125
Thallium	6.0	J ^	1000	964	^	ug/L		96	75 - 125
Vanadium	ND		1000	960		ug/L		96	75 - 125
Zinc	18	J	1000	981		ug/L		96	75 - 125

Lab Sample ID: 720-90736-4 MSD
Matrix: Water
Analysis Batch: 258610

Client Sample ID: DG-AE7W
Prep Type: Dissolved
Prep Batch: 258443

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	944		ug/L		94	75 - 125	5	20
Arsenic	10	B	1000	931		ug/L		92	75 - 125	4	20
Barium	190		1000	1080		ug/L		89	75 - 125	6	20
Beryllium	ND		1000	946		ug/L		95	75 - 125	7	20
Cadmium	ND		1000	897		ug/L		90	75 - 125	4	20
Chromium	0.75	J	1000	927		ug/L		93	75 - 125	5	20
Cobalt	2.0		1000	879		ug/L		88	75 - 125	4	20
Copper	4.5	J	1000	893		ug/L		89	75 - 125	2	20
Lead	6.6		1000	910		ug/L		90	75 - 125	4	20
Molybdenum	4.3	J	1000	904		ug/L		90	75 - 125	3	20
Nickel	3.9	J	1000	912		ug/L		91	75 - 125	5	20
Selenium	ND		1000	954		ug/L		95	75 - 125	5	20
Silver	ND		500	426		ug/L		85	75 - 125	11	20
Thallium	6.0	J ^	1000	862	^	ug/L		86	75 - 125	11	20
Vanadium	ND		1000	914		ug/L		91	75 - 125	5	20
Zinc	18	J	1000	931		ug/L		91	75 - 125	5	20

Lab Sample ID: 720-90736-10 MS
Matrix: Water
Analysis Batch: 258632

Client Sample ID: DG-AI7W
Prep Type: Dissolved
Prep Batch: 258448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	874		ug/L		87	75 - 125
Arsenic	8.9	J	1000	904		ug/L		89	75 - 125
Barium	200		1000	1070		ug/L		87	75 - 125
Beryllium	0.68	J	1000	887		ug/L		89	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90736-10 MS
Matrix: Water
Analysis Batch: 258632

Client Sample ID: DG-AI7W
Prep Type: Dissolved
Prep Batch: 258448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.0	J	1000	942		ug/L		94	75 - 125
Chromium	2.2	J B	1000	842		ug/L		84	75 - 125
Cobalt	2.5		1000	920		ug/L		92	75 - 125
Copper	ND		1000	827		ug/L		83	75 - 125
Lead	9.9		1000	916		ug/L		91	75 - 125
Molybdenum	4.1	J	1000	872		ug/L		87	75 - 125
Nickel	2.6	J	1000	927		ug/L		92	75 - 125
Selenium	ND		1000	959		ug/L		96	75 - 125
Silver	ND		500	386		ug/L		77	75 - 125
Thallium	ND		1000	882		ug/L		88	75 - 125
Vanadium	ND		1000	867		ug/L		87	75 - 125
Zinc	15	J	1000	921		ug/L		91	75 - 125

Lab Sample ID: 720-90736-10 MSD
Matrix: Water
Analysis Batch: 258632

Client Sample ID: DG-AI7W
Prep Type: Dissolved
Prep Batch: 258448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	892		ug/L		89	75 - 125	2	20
Arsenic	8.9	J	1000	916		ug/L		91	75 - 125	1	20
Barium	200		1000	1080		ug/L		88	75 - 125	1	20
Beryllium	0.68	J	1000	907		ug/L		91	75 - 125	2	20
Cadmium	1.0	J	1000	958		ug/L		96	75 - 125	2	20
Chromium	2.2	J B	1000	854		ug/L		85	75 - 125	1	20
Cobalt	2.5		1000	937		ug/L		93	75 - 125	2	20
Copper	ND		1000	844		ug/L		84	75 - 125	2	20
Lead	9.9		1000	921		ug/L		91	75 - 125	1	20
Molybdenum	4.1	J	1000	889		ug/L		89	75 - 125	2	20
Nickel	2.6	J	1000	956		ug/L		95	75 - 125	3	20
Selenium	ND		1000	967		ug/L		97	75 - 125	1	20
Silver	ND		500	382		ug/L		76	75 - 125	1	20
Thallium	ND		1000	880		ug/L		88	75 - 125	0	20
Vanadium	ND		1000	888		ug/L		89	75 - 125	2	20
Zinc	15	J	1000	917		ug/L		90	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-258498/1-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/14/19 19:48	01/15/19 12:30	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-258498/2-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.51		ug/L		95	85 - 115

Lab Sample ID: MB 720-259075/1-A
Matrix: Water
Analysis Batch: 259171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/23/19 16:56	01/24/19 14:38	1

Lab Sample ID: LCS 720-259075/2-A
Matrix: Water
Analysis Batch: 259171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	10.4		ug/L		104	85 - 115

Lab Sample ID: MB 720-259214/1-A
Matrix: Water
Analysis Batch: 259256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/25/19 09:23	01/25/19 13:39	1

Lab Sample ID: LCS 720-259214/2-A
Matrix: Water
Analysis Batch: 259256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	8.96		ug/L		90	85 - 115

Lab Sample ID: 720-90735-H-7-D MS
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 258498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.89		ug/L		99	75 - 125

Lab Sample ID: 720-90735-H-7-E MSD
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 258498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.70		ug/L		97	75 - 125	2	20

Lab Sample ID: 720-90736-4 MS
Matrix: Water
Analysis Batch: 259171

Client Sample ID: DG-AE7W
Prep Type: Dissolved
Prep Batch: 259075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.66		ug/L		97	75 - 125

Lab Sample ID: 720-90736-4 MSD
Matrix: Water
Analysis Batch: 259171

Client Sample ID: DG-AE7W
Prep Type: Dissolved
Prep Batch: 259075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.78		ug/L		98	75 - 125	1	20

Lab Sample ID: 720-90736-10 MS
Matrix: Water
Analysis Batch: 259256

Client Sample ID: DG-AI7W
Prep Type: Dissolved
Prep Batch: 259214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.20		ug/L		92	75 - 125

Lab Sample ID: 720-90736-10 MSD
Matrix: Water
Analysis Batch: 259256

Client Sample ID: DG-AI7W
Prep Type: Dissolved
Prep Batch: 259214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.08		ug/L		91	75 - 125	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-258400/9
Matrix: Water
Analysis Batch: 258400

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/11/19 18:46	1

Lab Sample ID: LCS 720-258400/10
Matrix: Water
Analysis Batch: 258400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	250	255		ug/L		102	90 - 110

Lab Sample ID: LCSD 720-258400/11
Matrix: Water
Analysis Batch: 258400

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	250	254		ug/L		102	90 - 110	0	20

Lab Sample ID: 720-90736-4 MS
Matrix: Water
Analysis Batch: 258400

Client Sample ID: DG-AE7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		250	228		ug/L		91	85 - 115

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 720-90736-4 MSD
Matrix: Water
Analysis Batch: 258400

Client Sample ID: DG-AE7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	229		ug/L		91	85 - 115	0	20

Lab Sample ID: 720-90736-10 MS
Matrix: Water
Analysis Batch: 258400

Client Sample ID: DG-AI7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		250	220		ug/L		88	85 - 115

Lab Sample ID: 720-90736-10 MSD
Matrix: Water
Analysis Batch: 258400

Client Sample ID: DG-AI7W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	219		ug/L		88	85 - 115	1	20

GC/MS VOA

Analysis Batch: 524503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Total/NA	Water	8260B	
720-90736-2	DG-AA7W	Total/NA	Water	8260B	
720-90736-3	DG-AC7W	Total/NA	Water	8260B	
720-90736-4	DG-AE7W	Total/NA	Water	8260B	
720-90736-5	DG-AU7W	Total/NA	Water	8260B	
720-90736-6	DG-AS7W	Total/NA	Water	8260B	
720-90736-7	DG-AO7W	Total/NA	Water	8260B	
720-90736-8	DG-AM7W	Total/NA	Water	8260B	
720-90736-9	DG-AK7W	Total/NA	Water	8260B	
720-90736-17	FB-1.11.19	Total/NA	Water	8260B	
720-90736-18	TB-1.11.19	Total/NA	Water	8260B	
MB 440-524503/4	Method Blank	Total/NA	Water	8260B	
LCS 440-524503/5	Lab Control Sample	Total/NA	Water	8260B	
720-90736-4 MS	DG-AE7W	Total/NA	Water	8260B	
720-90736-4 MSD	DG-AE7W	Total/NA	Water	8260B	

Analysis Batch: 524504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-2	DG-AA7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-3	DG-AC7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-4	DG-AE7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-5	DG-AU7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-6	DG-AS7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-7	DG-AO7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-8	DG-AM7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-9	DG-AK7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-17	FB-1.11.19	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-18	TB-1.11.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-524504/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-524504/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-4 MS	DG-AE7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-4 MSD	DG-AE7W	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 524785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-10	DG-AI7W	Total/NA	Water	8260B	
720-90736-11	DG-AD9W	Total/NA	Water	8260B	
720-90736-12	DG-AR9W	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 524785 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-13	DUP-47	Total/NA	Water	8260B	
720-90736-14	DUP-48	Total/NA	Water	8260B	
720-90736-15	DUP-50	Total/NA	Water	8260B	
720-90736-16	DUP-65	Total/NA	Water	8260B	
MB 440-524785/4	Method Blank	Total/NA	Water	8260B	
LCS 440-524785/5	Lab Control Sample	Total/NA	Water	8260B	
720-90736-10 MS	DG-AI7W	Total/NA	Water	8260B	
720-90736-10 MSD	DG-AI7W	Total/NA	Water	8260B	

Analysis Batch: 524786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-10	DG-AI7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-11	DG-AD9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-12	DG-AR9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-13	DUP-47	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-14	DUP-48	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-15	DUP-50	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-16	DUP-65	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-524786/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-524786/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-10 MS	DG-AI7W	Total/NA	Water	8260B/CA_LUFT MS	
720-90736-10 MSD	DG-AI7W	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 522777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Total/NA	Water	3520C	
720-90736-2	DG-AA7W	Total/NA	Water	3520C	
720-90736-3	DG-AC7W	Total/NA	Water	3520C	
720-90736-4	DG-AE7W	Total/NA	Water	3520C	
720-90736-5	DG-AU7W	Total/NA	Water	3520C	
720-90736-6	DG-AS7W	Total/NA	Water	3520C	
720-90736-7	DG-AO7W	Total/NA	Water	3520C	
720-90736-8	DG-AM7W	Total/NA	Water	3520C	
720-90736-9	DG-AK7W	Total/NA	Water	3520C	
720-90736-10	DG-AI7W	Total/NA	Water	3520C	
720-90736-11	DG-AD9W	Total/NA	Water	3520C	
720-90736-12	DG-AR9W	Total/NA	Water	3520C	
720-90736-13	DUP-47	Total/NA	Water	3520C	
720-90736-14	DUP-48	Total/NA	Water	3520C	
720-90736-15	DUP-50	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 522777 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-16	DUP-65	Total/NA	Water	3520C	
MB 440-522777/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-522777/2-A - RA	Lab Control Sample	Total/NA	Water	3520C	
720-90736-4 MS	DG-AE7W	Total/NA	Water	3520C	
720-90736-4 MSD	DG-AE7W	Total/NA	Water	3520C	

Analysis Batch: 523378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-4	DG-AE7W	Total/NA	Water	8270C SIM	522777
MB 440-522777/1-A	Method Blank	Total/NA	Water	8270C SIM	522777

Analysis Batch: 523758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Total/NA	Water	8270C SIM	522777
720-90736-2	DG-AA7W	Total/NA	Water	8270C SIM	522777
720-90736-3	DG-AC7W	Total/NA	Water	8270C SIM	522777
720-90736-5	DG-AU7W	Total/NA	Water	8270C SIM	522777
720-90736-6	DG-AS7W	Total/NA	Water	8270C SIM	522777
720-90736-7	DG-AO7W	Total/NA	Water	8270C SIM	522777
720-90736-8	DG-AM7W	Total/NA	Water	8270C SIM	522777
720-90736-9	DG-AK7W	Total/NA	Water	8270C SIM	522777
720-90736-10	DG-AI7W	Total/NA	Water	8270C SIM	522777
720-90736-11	DG-AD9W	Total/NA	Water	8270C SIM	522777
720-90736-12	DG-AR9W	Total/NA	Water	8270C SIM	522777
720-90736-13	DUP-47	Total/NA	Water	8270C SIM	522777
720-90736-14	DUP-48	Total/NA	Water	8270C SIM	522777
720-90736-15	DUP-50	Total/NA	Water	8270C SIM	522777
720-90736-16	DUP-65	Total/NA	Water	8270C SIM	522777
720-90736-4 MS	DG-AE7W	Total/NA	Water	8270C SIM	522777
720-90736-4 MSD	DG-AE7W	Total/NA	Water	8270C SIM	522777

Analysis Batch: 523975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-522777/2-A - RA	Lab Control Sample	Total/NA	Water	8270C SIM	522777

GC Semi VOA

Prep Batch: 522700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Total/NA	Water	3510C	
720-90736-2	DG-AA7W	Total/NA	Water	3510C	
720-90736-3	DG-AC7W	Total/NA	Water	3510C	
720-90736-4	DG-AE7W	Total/NA	Water	3510C	
720-90736-5	DG-AU7W	Total/NA	Water	3510C	
720-90736-6	DG-AS7W	Total/NA	Water	3510C	
720-90736-7	DG-AO7W	Total/NA	Water	3510C	
720-90736-8	DG-AM7W	Total/NA	Water	3510C	
720-90736-9	DG-AK7W	Total/NA	Water	3510C	
720-90736-10	DG-AI7W	Total/NA	Water	3510C	
720-90736-11	DG-AD9W	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 522700 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-12	DG-AR9W	Total/NA	Water	3510C	
720-90736-13	DUP-47	Total/NA	Water	3510C	
720-90736-14	DUP-48	Total/NA	Water	3510C	
720-90736-15	DUP-50	Total/NA	Water	3510C	
720-90736-16	DUP-65	Total/NA	Water	3510C	
MB 440-522700/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-522700/2-A	Lab Control Sample	Total/NA	Water	3510C	
720-90736-10 MS	DG-AI7W	Total/NA	Water	3510C	
720-90736-10 MSD	DG-AI7W	Total/NA	Water	3510C	

Analysis Batch: 522742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Total/NA	Water	8015B	522700
720-90736-2	DG-AA7W	Total/NA	Water	8015B	522700
720-90736-3	DG-AC7W	Total/NA	Water	8015B	522700
720-90736-4	DG-AE7W	Total/NA	Water	8015B	522700
720-90736-5	DG-AU7W	Total/NA	Water	8015B	522700
720-90736-6	DG-AS7W	Total/NA	Water	8015B	522700
720-90736-7	DG-AO7W	Total/NA	Water	8015B	522700
720-90736-8	DG-AM7W	Total/NA	Water	8015B	522700
720-90736-9	DG-AK7W	Total/NA	Water	8015B	522700
720-90736-10	DG-AI7W	Total/NA	Water	8015B	522700
720-90736-11	DG-AD9W	Total/NA	Water	8015B	522700
720-90736-12	DG-AR9W	Total/NA	Water	8015B	522700
720-90736-13	DUP-47	Total/NA	Water	8015B	522700
720-90736-14	DUP-48	Total/NA	Water	8015B	522700
720-90736-15	DUP-50	Total/NA	Water	8015B	522700
720-90736-16	DUP-65	Total/NA	Water	8015B	522700
MB 440-522700/1-A	Method Blank	Total/NA	Water	8015B	522700
LCS 440-522700/2-A	Lab Control Sample	Total/NA	Water	8015B	522700
720-90736-10 MS	DG-AI7W	Total/NA	Water	8015B	522700
720-90736-10 MSD	DG-AI7W	Total/NA	Water	8015B	522700

Metals

Prep Batch: 258443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Dissolved	Water	3005A	
720-90736-2	DG-AA7W	Dissolved	Water	3005A	
720-90736-3	DG-AC7W	Dissolved	Water	3005A	
720-90736-4	DG-AE7W	Dissolved	Water	3005A	
720-90736-5	DG-AU7W	Dissolved	Water	3005A	
720-90736-6	DG-AS7W	Dissolved	Water	3005A	
MB 720-258443/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-258443/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90736-4 MS	DG-AE7W	Dissolved	Water	3005A	
720-90736-4 MSD	DG-AE7W	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 258448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-7	DG-AO7W	Dissolved	Water	3005A	
720-90736-8	DG-AM7W	Dissolved	Water	3005A	
720-90736-9	DG-AK7W	Dissolved	Water	3005A	
720-90736-10	DG-AI7W	Dissolved	Water	3005A	
720-90736-11	DG-AD9W	Dissolved	Water	3005A	
720-90736-12	DG-AR9W	Dissolved	Water	3005A	
720-90736-13	DUP-47	Dissolved	Water	3005A	
720-90736-14	DUP-48	Dissolved	Water	3005A	
720-90736-15	DUP-50	Dissolved	Water	3005A	
720-90736-16	DUP-65	Dissolved	Water	3005A	
MB 720-258448/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-258448/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90736-10 MS	DG-AI7W	Dissolved	Water	3005A	
720-90736-10 MSD	DG-AI7W	Dissolved	Water	3005A	

Prep Batch: 258498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Dissolved	Water	7470A	
720-90736-2	DG-AA7W	Dissolved	Water	7470A	
720-90736-3	DG-AC7W	Dissolved	Water	7470A	
MB 720-258498/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-258498/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90735-H-7-D MS	Matrix Spike	Dissolved	Water	7470A	
720-90735-H-7-E MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 258567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Dissolved	Water	7470A	258498
720-90736-2	DG-AA7W	Dissolved	Water	7470A	258498
720-90736-3	DG-AC7W	Dissolved	Water	7470A	258498
MB 720-258498/1-A	Method Blank	Total/NA	Water	7470A	258498
LCS 720-258498/2-A	Lab Control Sample	Total/NA	Water	7470A	258498
720-90735-H-7-D MS	Matrix Spike	Dissolved	Water	7470A	258498
720-90735-H-7-E MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	258498

Analysis Batch: 258610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Dissolved	Water	6010B	258443
720-90736-2	DG-AA7W	Dissolved	Water	6010B	258443
720-90736-3	DG-AC7W	Dissolved	Water	6010B	258443
720-90736-4	DG-AE7W	Dissolved	Water	6010B	258443
720-90736-5	DG-AU7W	Dissolved	Water	6010B	258443
720-90736-6	DG-AS7W	Dissolved	Water	6010B	258443
MB 720-258443/1-A	Method Blank	Total Recoverable	Water	6010B	258443
LCS 720-258443/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258443
720-90736-4 MS	DG-AE7W	Dissolved	Water	6010B	258443
720-90736-4 MSD	DG-AE7W	Dissolved	Water	6010B	258443

Analysis Batch: 258632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-7	DG-AO7W	Dissolved	Water	6010B	258448

Metals (Continued)

Analysis Batch: 258632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-8	DG-AM7W	Dissolved	Water	6010B	258448
720-90736-9	DG-AK7W	Dissolved	Water	6010B	258448
720-90736-10	DG-AI7W	Dissolved	Water	6010B	258448
720-90736-11	DG-AD9W	Dissolved	Water	6010B	258448
720-90736-12	DG-AR9W	Dissolved	Water	6010B	258448
720-90736-13	DUP-47	Dissolved	Water	6010B	258448
720-90736-14	DUP-48	Dissolved	Water	6010B	258448
720-90736-15	DUP-50	Dissolved	Water	6010B	258448
720-90736-16	DUP-65	Dissolved	Water	6010B	258448
MB 720-258448/1-A	Method Blank	Total Recoverable	Water	6010B	258448
LCS 720-258448/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258448
720-90736-10 MS	DG-AI7W	Dissolved	Water	6010B	258448
720-90736-10 MSD	DG-AI7W	Dissolved	Water	6010B	258448

Prep Batch: 259075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-4	DG-AE7W	Dissolved	Water	7470A	
720-90736-5	DG-AU7W	Dissolved	Water	7470A	
720-90736-6	DG-AS7W	Dissolved	Water	7470A	
720-90736-7	DG-AO7W	Dissolved	Water	7470A	
720-90736-8	DG-AM7W	Dissolved	Water	7470A	
720-90736-9	DG-AK7W	Dissolved	Water	7470A	
720-90736-11	DG-AD9W	Dissolved	Water	7470A	
720-90736-12	DG-AR9W	Dissolved	Water	7470A	
720-90736-13	DUP-47	Dissolved	Water	7470A	
720-90736-14	DUP-48	Dissolved	Water	7470A	
MB 720-259075/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259075/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90736-4 MS	DG-AE7W	Dissolved	Water	7470A	
720-90736-4 MSD	DG-AE7W	Dissolved	Water	7470A	

Analysis Batch: 259171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-4	DG-AE7W	Dissolved	Water	7470A	259075
720-90736-5	DG-AU7W	Dissolved	Water	7470A	259075
720-90736-6	DG-AS7W	Dissolved	Water	7470A	259075
720-90736-7	DG-AO7W	Dissolved	Water	7470A	259075
720-90736-8	DG-AM7W	Dissolved	Water	7470A	259075
720-90736-9	DG-AK7W	Dissolved	Water	7470A	259075
720-90736-11	DG-AD9W	Dissolved	Water	7470A	259075
720-90736-12	DG-AR9W	Dissolved	Water	7470A	259075
720-90736-13	DUP-47	Dissolved	Water	7470A	259075
720-90736-14	DUP-48	Dissolved	Water	7470A	259075
MB 720-259075/1-A	Method Blank	Total/NA	Water	7470A	259075
LCS 720-259075/2-A	Lab Control Sample	Total/NA	Water	7470A	259075
720-90736-4 MS	DG-AE7W	Dissolved	Water	7470A	259075
720-90736-4 MSD	DG-AE7W	Dissolved	Water	7470A	259075

Prep Batch: 259214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-10	DG-AI7W	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 259214 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-15	DUP-50	Dissolved	Water	7470A	
720-90736-16	DUP-65	Dissolved	Water	7470A	
MB 720-259214/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259214/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90736-10 MS	DG-AI7W	Dissolved	Water	7470A	
720-90736-10 MSD	DG-AI7W	Dissolved	Water	7470A	

Analysis Batch: 259256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-10	DG-AI7W	Dissolved	Water	7470A	259214
720-90736-15	DUP-50	Dissolved	Water	7470A	259214
720-90736-16	DUP-65	Dissolved	Water	7470A	259214
MB 720-259214/1-A	Method Blank	Total/NA	Water	7470A	259214
LCS 720-259214/2-A	Lab Control Sample	Total/NA	Water	7470A	259214
720-90736-10 MS	DG-AI7W	Dissolved	Water	7470A	259214
720-90736-10 MSD	DG-AI7W	Dissolved	Water	7470A	259214

General Chemistry

Analysis Batch: 258400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90736-1	DG-Y7W	Total/NA	Water	7196A	
720-90736-2	DG-AA7W	Total/NA	Water	7196A	
720-90736-3	DG-AC7W	Total/NA	Water	7196A	
720-90736-4	DG-AE7W	Total/NA	Water	7196A	
720-90736-5	DG-AU7W	Total/NA	Water	7196A	
720-90736-6	DG-AS7W	Total/NA	Water	7196A	
720-90736-7	DG-AO7W	Total/NA	Water	7196A	
720-90736-8	DG-AM7W	Total/NA	Water	7196A	
720-90736-9	DG-AK7W	Total/NA	Water	7196A	
720-90736-10	DG-AI7W	Total/NA	Water	7196A	
720-90736-11	DG-AD9W	Total/NA	Water	7196A	
720-90736-12	DG-AR9W	Total/NA	Water	7196A	
720-90736-13	DUP-47	Total/NA	Water	7196A	
720-90736-14	DUP-48	Total/NA	Water	7196A	
720-90736-15	DUP-50	Total/NA	Water	7196A	
720-90736-16	DUP-65	Total/NA	Water	7196A	
MB 720-258400/9	Method Blank	Total/NA	Water	7196A	
LCS 720-258400/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-258400/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90736-4 MS	DG-AE7W	Total/NA	Water	7196A	
720-90736-4 MSD	DG-AE7W	Total/NA	Water	7196A	
720-90736-10 MS	DG-AI7W	Total/NA	Water	7196A	
720-90736-10 MSD	DG-AI7W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-Y7W

Lab Sample ID: 720-90736-1

Date Collected: 01/11/19 07:20

Matrix: Water

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/23/19 22:03	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/23/19 22:03	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 19:09	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 13:44	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 21:09	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 14:07	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Client Sample ID: DG-AA7W

Lab Sample ID: 720-90736-2

Date Collected: 01/11/19 07:35

Matrix: Water

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/23/19 22:31	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/23/19 22:31	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 19:33	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 15:32	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 21:14	BKR	TAL PLS
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 14:09	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Client Sample ID: DG-AC7W

Lab Sample ID: 720-90736-3

Date Collected: 01/11/19 07:55

Matrix: Water

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/23/19 22:58	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/23/19 22:58	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 19:57	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 15:54	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 21:19	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AC7W

Lab Sample ID: 720-90736-3

Date Collected: 01/11/19 07:55
Matrix: Water
Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			258498	01/14/19 19:48	GLL	TAL PLS
Dissolved	Analysis	7470A		1	258567	01/15/19 14:11	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Client Sample ID: DG-AE7W

Lab Sample ID: 720-90736-4

Date Collected: 01/11/19 08:20
Matrix: Water
Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/23/19 20:40	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/23/19 20:40	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523378	01/18/19 12:37	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 16:16	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 21:04	BKR	TAL PLS
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 14:47	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Client Sample ID: DG-AU7W

Lab Sample ID: 720-90736-5

Date Collected: 01/11/19 09:00
Matrix: Water
Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/23/19 23:26	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/23/19 23:26	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 21:10	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 14:06	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 21:24	BKR	TAL PLS
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 14:50	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AS7W

Lab Sample ID: 720-90736-6

Date Collected: 01/11/19 09:30
Matrix: Water
Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/23/19 23:53	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/23/19 23:53	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 21:35	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 14:27	LMB	TAL IRV
Dissolved	Prep	3005A			258443	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258610	01/15/19 21:38	BKR	TAL PLS
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 14:52	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Client Sample ID: DG-AO7W

Lab Sample ID: 720-90736-7

Date Collected: 01/11/19 09:50
Matrix: Water
Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/24/19 00:21	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/24/19 00:21	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 17:07	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 16:37	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 10:56	MAG	TAL PLS
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 14:54	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Client Sample ID: DG-AM7W

Lab Sample ID: 720-90736-8

Date Collected: 01/11/19 10:05
Matrix: Water
Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/24/19 00:48	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/24/19 00:48	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 21:59	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 14:49	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 11:01	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DG-AM7W

Date Collected: 01/11/19 10:05
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 14:56	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Client Sample ID: DG-AK7W

Date Collected: 01/11/19 10:30
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/24/19 01:16	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/24/19 01:16	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 22:23	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 18:04	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 11:06	MAG	TAL PLS
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 14:59	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Client Sample ID: DG-AI7W

Date Collected: 01/11/19 10:55
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524785	01/24/19 21:29	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524786	01/24/19 21:29	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 17:31	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 12:39	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 10:51	MAG	TAL PLS
Dissolved	Prep	7470A			259214	01/25/19 09:23	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259256	01/25/19 13:48	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:46	ECB	TAL PLS

Client Sample ID: DG-AD9W

Lab Sample ID: 720-90736-11

Date Collected: 01/11/19 11:30

Matrix: Water

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524785	01/24/19 22:48	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524786	01/24/19 22:48	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 17:56	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 16:59	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 11:20	MAG	TAL PLS
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 15:06	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:50	ECB	TAL PLS

Client Sample ID: DG-AR9W

Lab Sample ID: 720-90736-12

Date Collected: 01/11/19 12:10

Matrix: Water

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524785	01/24/19 23:15	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524786	01/24/19 23:15	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 18:20	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 17:21	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 11:25	MAG	TAL PLS
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 15:08	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:50	ECB	TAL PLS

Client Sample ID: DUP-47

Lab Sample ID: 720-90736-13

Date Collected: 01/11/19 00:00

Matrix: Water

Date Received: 01/11/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524785	01/24/19 23:41	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524786	01/24/19 23:41	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 18:44	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 17:42	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 11:30	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DUP-47

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 15:10	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:50	ECB	TAL PLS

Client Sample ID: DUP-48

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524785	01/25/19 00:08	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524786	01/25/19 00:08	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 22:47	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 18:26	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 11:35	MAG	TAL PLS
Dissolved	Prep	7470A			259075	01/23/19 16:56	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259171	01/24/19 15:12	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:52	ECB	TAL PLS

Client Sample ID: DUP-50

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524785	01/25/19 00:34	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524786	01/25/19 00:34	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 20:22	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 18:47	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 11:40	MAG	TAL PLS
Dissolved	Prep	7470A			259214	01/25/19 09:23	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259256	01/25/19 13:51	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:52	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Client Sample ID: DUP-65

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524785	01/25/19 01:01	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524786	01/25/19 01:01	GMA	TAL IRV
Total/NA	Prep	3520C			522777	01/16/19 10:21	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 20:46	HN	TAL IRV
Total/NA	Prep	3510C			522700	01/16/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	522742	01/16/19 19:09	LMB	TAL IRV
Dissolved	Prep	3005A			258448	01/14/19 10:32	SUN	TAL PLS
Dissolved	Analysis	6010B		1	258632	01/16/19 11:44	MAG	TAL PLS
Dissolved	Prep	7470A			259214	01/25/19 09:23	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259256	01/25/19 13:53	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258400	01/11/19 18:52	ECB	TAL PLS

Client Sample ID: FB-1.11.19

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/24/19 04:57	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/24/19 04:57	GMA	TAL IRV

Client Sample ID: TB-1.11.19

Date Collected: 01/11/19 00:00
Date Received: 01/11/19 15:00

Lab Sample ID: 720-90736-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524503	01/24/19 05:25	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524504	01/24/19 05:25	GMA	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90736-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90736-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90736-1	DG-Y7W	Water	01/11/19 07:20	01/11/19 15:00
720-90736-2	DG-AA7W	Water	01/11/19 07:35	01/11/19 15:00
720-90736-3	DG-AC7W	Water	01/11/19 07:55	01/11/19 15:00
720-90736-4	DG-AE7W	Water	01/11/19 08:20	01/11/19 15:00
720-90736-5	DG-AU7W	Water	01/11/19 09:00	01/11/19 15:00
720-90736-6	DG-AS7W	Water	01/11/19 09:30	01/11/19 15:00
720-90736-7	DG-AO7W	Water	01/11/19 09:50	01/11/19 15:00
720-90736-8	DG-AM7W	Water	01/11/19 10:05	01/11/19 15:00
720-90736-9	DG-AK7W	Water	01/11/19 10:30	01/11/19 15:00
720-90736-10	DG-AI7W	Water	01/11/19 10:55	01/11/19 15:00
720-90736-11	DG-AD9W	Water	01/11/19 11:30	01/11/19 15:00
720-90736-12	DG-AR9W	Water	01/11/19 12:10	01/11/19 15:00
720-90736-13	DUP-47	Water	01/11/19 00:00	01/11/19 15:00
720-90736-14	DUP-48	Water	01/11/19 00:00	01/11/19 15:00
720-90736-15	DUP-50	Water	01/11/19 00:00	01/11/19 15:00
720-90736-16	DUP-65	Water	01/11/19 00:00	01/11/19 15:00
720-90736-17	FB-1.11.19	Water	01/11/19 00:00	01/11/19 15:00
720-90736-18	TB-1.11.19	Water	01/11/19 00:00	01/11/19 15:00

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TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90736

Chain of Custody Record

187784

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/11/19	COC No 184 184
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90736 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG-Y7W	1/11/19	720	G	GW	3	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG-AA7W		735											
3	DG-AC7W		755											
4	DG-AE7W		820			12		Y						
5	DG-AU7W		900			3								
6	DG-AS7W		930											
7	DG-AD7W		950											
8	DG-AM7W		1005											
9	DG-AK7W		1030											
10	DG-AJ7W		1055			12		Y						
11	DG-AD9W		1130			3								
12	DG-AR9W		1210			3								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

3.8, 1.7, 3.0, 2.1, 3.7 °C
2.2, 0.9, 3.0, 1.7, 3.3

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____	
Relinquished by	Company Geosyntec	Date/Time 1/11/19 1300	Received by	Company TA-PLS	Date/Time 1/11/19 13°C
Relinquished by	Company TAPLS	Date/Time 1/11/19 1500	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/11/19 1500

1/11/19
3.8/1.7/3.0/2.1/3.7
2.2/0.9/3.0/1.7/3.3 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600 3002

720-90736

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

184784

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/11/19	COC No 184784
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler.
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
13	DUP-47	1/11/19	—	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
14	DUP-48	↓	↓	↓	↓	↓	↓		↓	↓	↓	↓	↓	
15	DUP-50													
16	DUP-605					↓								
17	FB-1.11.19-W					2								
18	TB-1.11.19					↓			↓					

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd ____ Corr'd ____		Therm ID No. ____
Relinquished by	Company Geosyntec	Date/Time 1/11/19 1300	Received by	Company TA PLS	Date/Time 1/11/19 13°C
Relinquished by	Company TAPLS	Date/Time 1/11/19 1500	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/11/19 1500

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/11/19 JS 3-8|1-7|3|2-1|3-7|3-2
-9+3|1-7|3-3 C

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40787.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90736-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
DG-Y7W (720-90736-1)	1/11/19	07:20 Pacific		Water				X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AA7W (720-90736-2)	1/11/19	07.35 Pacific		Water				X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AC7W (720-90736-3)	1/11/19	07:55 Pacific		Water				X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AE7W (720-90736-4)	1/11/19	08:20 Pacific		Water				X	X			4	check for 2 phases
DG-AE7W (720-90736-4MS)	1/11/19	08:20 Pacific	MS	Water				X	X			4	check for 2 phases
DG-AE7W (720-90736-4MSD)	1/11/19	08:20 Pacific	MSD	Water				X	X			2	check for 2 phases
DG-AU7W (720-90736-5)	1/11/19	09.00 Pacific		Water				X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AS7W (720-90736-6)	1/11/19	09:30 Pacific		Water				X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AO7W (720-90736-7)	1/11/19	09:50 Pacific		Water				X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/11/19 1050	Company: TAPS	Received by	Date/Time.	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time: 1/15/19 1000	Company: TA IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1/3.5 IR#9 2.1/2.5 1.4/1.8 40/44

Ver: 09/20/2016

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40787.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90736-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AM7W (720-90736-8)	1/11/19	10:05 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AK7W (720-90736-9)	1/11/19	10:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AI7W (720-90736-10)	1/11/19	10.55 Pacific		Water			X	X			4	check for 2 phases
DG-AI7W (720-90736-10MS)	1/11/19	10:55 Pacific	MS	Water			X	X			4	check for 2 phases
DG-AI7W (720-90736-10MSD)	1/11/19	10:55 Pacific	MSD	Water			X	X			2	check for 2 phases
DG-AD9W (720-90736-11)	1/11/19	11:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AR9W (720-90736-12)	1/11/19	12:10 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-47 (720-90736-13)	1/11/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-48 (720-90736-14)	1/11/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
1		1/14/19 1050	TAPL			
2	Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/15/19 1000	Company: TA IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40787.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90736-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaD2, P - Na2O4S, Q - Na2SD3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DUP-50 (720-90736-15)	1/11/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-65 (720-90736-16)	1/11/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-1.11.19-W (720-90736-17)	1/11/19	Pacific		Water			X	X			2	check for 2 phases
TB-1.11.19 (720-90736-18)	1/11/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time: 1/14/19 1050	Company: TAPLS	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by	Date/Time: 1/15/19 1000	Company: TA IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90736-1

Login Number: 90736
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90736-1

Login Number: 90736
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/15/19 02:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90736-1

Login Number: 90736
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/15/19 02:54 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90736-1

Login Number: 90736
List Number: 4
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/15/19 03:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Tuesday, January 15, 2019 7:16 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ-TestAmerica sample confirmation files from 720-90736-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

For sample 4 please run the MS/MSD on 8270SIM.

For sample 10 please run the MS/MSD on 8015 DRO.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Monday, January 14, 2019 7:10 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ-TestAmerica sample confirmation files from 720-90736-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90736-1; Brisbane OU-2 Data Gap Investigation

Regarding samples 4 & 10, DG-AE7W & DG-AI7W, only 5x 1L amber containers were received each for analyses

8270SIM and 8015 DRO. MS/MSD was requested for both of these samples. 1x 1L amber is needed per analysis in this case so a total of 6 containers were needed to perform the complete MS/MSD. We are able to do MS/MSD for 8270SIM OR for 8015 DRO but not for both tests since there is insufficient sample volume. Please confirm which test you would like for the MS/MSD for each sample.

We will proceed with all tests unless otherwise notified.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [495000]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90759-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/31/2019 5:21:50 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90759-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90759-1

Comments
No additional comments.

Receipt
The samples were received on 1/14/2019 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.4º C, 1.5º C and 3.0º C.

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DUP-80 (720-90759-21), DG-O12S-0.5-1 (720-90759-22), DG-O12S-3.5-4 (720-90759-23), DG-P12S-0.5-1 (720-90759-24), DG-P12S-3.5-4 (720-90759-25), DG-Q12S-0.5-1 (720-90759-26), DG-Q12S-3.5-4 (720-90759-27), DG-S12S-0.5-1 (720-90759-28), DG-S12S-3.5-4 (720-90759-29), DUP-81 (720-90759-30), DG-T12S-0.5-1 (720-90759-31), DG-T12S-3.5-4 (720-90759-32), DG-V10S-0.5-1 (720-90759-33), DG-V10S-3.5-4 (720-90759-34), DG-U10S-0.5-1 (720-90759-35), DG-U10S-3.5-4 (720-90759-36), DG-T10S-0.5-1 (720-90759-37), DG-T10S-3.5-4 (720-90759-38), DG-S10S-0.5-1 (720-90759-39) and DG-S10S-3.5-4 (720-90759-40). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258540 and analytical batch 720-258658 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Silver-129%, Arsenic-129%, Barium-143%, Beryllium- 139%, Cobalt-126%,Chromium- 137%,Copper- 142%, Molybdenum- 127%, Nickel- 127%, Lead- 127%, Antimony- 128%,Selenium-127%,Thallium- 127%, Vanadium- 143%, Zn-132% associated with batch 720-258658 was outside of the 10% control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258658 was outside control limits for Barium-34%, Beryllium- 15%, Cobalt-18%,Chromium- 16%, Nickel- 17%, Lead- 16%, Vanadium- 16%, : (720-90759-A-21-C SD)

Method 6010B: The method blank for preparation batch 720-258529 and analytical batch 720-258654 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258529 and analytical batch 720-258654 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Lead-134% associated with batch 720-258654 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258654 was outside control limits for Arsenic-43%, Barium-54%, Cobalt-47%, Chromium-65%, Copper-54%, Nickel-41%, Lead-46%, Vanadium-54%, and Zinc-45%: (720-90759-A-19-C SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258654 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a “*” symbol .

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Q16S-0.5-1 (720-90759-1), DG-Q16S-3.5-4 (720-90759-2), DG-S16S-0.5-1 (720-90759-3), DUP-114 (720-90759-4), DG-S16S-3.5-4 (720-90759-5), DG-T14S-0.5-1 (720-90759-6), DG-T14S-3.5-4 (720-90759-7), DG-S14S-0.5-1 (720-90759-8), DG-S14S-3.5-4 (720-90759-9), DG-Q14S-0.5-1 (720-90759-10), DG-Q14S-3.5-4 (720-90759-11), DG-P14S-0.5-1 (720-90759-12), DG-P14S-3.5-4 (720-90759-13), DUP-97 (720-90759-14), DG-O14S-0.5-1 (720-90759-15), DG-O14S-3.5-4 (720-90759-16), DG-N14S-0.5-1 (720-90759-17), DG-N14S-3.5-4 (720-90759-18), DG-N12S-0.5-1 (720-90759-19), DG-N12S-0.5-1 (720-90759-19[MS]), DG-N12S-0.5-1 (720-90759-19[MSD]),

Job ID: 720-90759-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

DG-N12S-3.5-4 (720-90759-20), (720-90759-A-19-C PDS) and (720-90759-A-19-C SD), DG-O12S-3.5-4 (720-90759-23), DG-V10S-3.5-4 (720-90759-34), DG-Q10S-0.5-1 (720-90759-41), DG-Q10S-3.5-4 (720-90759-42), DG-P10S-0.5-1 (720-90759-43), DG-P10S-3.5-4 (720-90759-44), DG-O10S-0.5-1 (720-90759-45), DUP-67 (720-90759-46), DG-O10S-3.5-4 (720-90759-47), DG-N10S-0.5-1 (720-90759-48) and DG-N10S-3.5-4 (720-90759-49). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-258547 and analytical batch 720-258961 contained Arsenic & Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258547 and analytical batch 720-258961 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for Copper-47%, Lead-72% & Zinc-49% associated with batch 720-258961 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258961 was outside control limits for Arsenic-12% & Barium-13%: (720-90759-A-47-C SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258961 contained Lead above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a “^” symbol .

Method 6010B: The following sample was diluted due to negative interference for Silver: DG-N14S-3.5-4 (720-90759-18). Elevated reporting limits (RLs) are provided.

Method 7471A: The following sample was diluted to bring the concentration of target analytes within the calibration range: DG-N10S-0.5-1 (720-90759-48). Elevated reporting limits (RLs) are provided.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258530 and analytical batch 720-259292 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The following samples were diluted to bring the concentration of target analyte mercury within the calibration range: DG-S16S-0.5-1 (720-90759-3), DUP-114 (720-90759-4), DG-S16S-3.5-4 (720-90759-5), DG-P14S-3.5-4 (720-90759-13) and DUP-97 (720-90759-14). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Client Sample ID: DG-Q16S-0.5-1 — Lab Sample ID: 720-90759-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	120		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	81		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.56		0.29	0.095	mg/Kg	4		6010B	Total/NA
Cadmium	0.49		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	87	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	110		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	110	^	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.30	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	96		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Thallium	0.93	J	1.5	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	75		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	150		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	1.2		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q16S-3.5-4 — Lab Sample ID: 720-90759-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.7		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	4.0		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	110		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.36		0.28	0.090	mg/Kg	4		6010B	Total/NA
Chromium	260	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	28		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	46		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	4.6		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	290		1.4	0.14	mg/Kg	4		6010B	Total/NA
Thallium	1.1	J	1.4	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	91		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	57		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S16S-0.5-1 — Lab Sample ID: 720-90759-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	23		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	18		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	120		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.43		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	83	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	24		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	2800		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	4700	^	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	1.8		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	110		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.6	0.54	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S16S-0.5-1 (Continued) — Lab Sample ID: 720-90759-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.30	J	0.90	0.18	mg/Kg	4		6010B	Total/NA
Thallium	0.72	J	1.8	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	430		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	14		0.34	0.050	mg/Kg	20		7471A	Total/NA

Client Sample ID: DUP-114 — Lab Sample ID: 720-90759-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	19		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	180		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.42		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.3		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	74	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	1800		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	3400		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	2.1		1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	110		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Thallium	0.63	J	1.6	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	450		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	2.5		0.064	0.0094	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-S16S-3.5-4 — Lab Sample ID: 720-90759-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.3		3.1	0.52	mg/Kg	10		6010B	Total/NA
Arsenic	20		6.3	0.53	mg/Kg	10		6010B	Total/NA
Barium	840		3.1	0.44	mg/Kg	10		6010B	Total/NA
Beryllium	1.4		0.63	0.20	mg/Kg	10		6010B	Total/NA
Cadmium	0.68	J	0.78	0.078	mg/Kg	10		6010B	Total/NA
Chromium	71	B	3.1	0.33	mg/Kg	10		6010B	Total/NA
Cobalt	16		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	230		9.4	4.5	mg/Kg	10		6010B	Total/NA
Lead	1200		3.1	0.66	mg/Kg	10		6010B	Total/NA
Molybdenum	3.6		3.1	0.40	mg/Kg	10		6010B	Total/NA
Nickel	46		3.1	0.32	mg/Kg	10		6010B	Total/NA
Selenium	1.8	J	6.3	0.94	mg/Kg	10		6010B	Total/NA
Silver	0.57	J	1.6	0.32	mg/Kg	10		6010B	Total/NA
Thallium	1.1	J	3.1	0.91	mg/Kg	10		6010B	Total/NA
Vanadium	91		3.1	0.43	mg/Kg	10		6010B	Total/NA
Zinc	620		9.4	4.0	mg/Kg	10		6010B	Total/NA
Mercury	2.4		0.068	0.010	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-T14S-0.5-1 — Lab Sample ID: 720-90759-6

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T14S-0.5-1 (Continued) — Lab Sample ID: 720-90759-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	3.8		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	110		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.22		0.22	0.072	mg/Kg	4		6010B	Total/NA
Cadmium	0.67		0.28	0.027	mg/Kg	4		6010B	Total/NA
Chromium	200	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	25		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	64		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	210		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	400		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.48	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Thallium	0.49	J	1.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	360		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T14S-3.5-4 — Lab Sample ID: 720-90759-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.5		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.2	J	2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	71		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.25	0.080	mg/Kg	4		6010B	Total/NA
Cadmium	0.99		0.31	0.030	mg/Kg	4		6010B	Total/NA
Chromium	360	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	34		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	85		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	170		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.16	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	650		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Thallium	0.75	J	1.2	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	160		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S14S-0.5-1 — Lab Sample ID: 720-90759-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.9		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	5.4		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	250		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	53	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	1100		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	1200		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	1.9		1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	58		1.3	0.13	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S14S-0.5-1 (Continued) — Lab Sample ID: 720-90759-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.85	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Thallium	0.46	J	1.3	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	300		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	1.1		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S14S-3.5-4 — Lab Sample ID: 720-90759-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	J	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	8.9		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	67		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.89		0.35	0.11	mg/Kg	4		6010B	Total/NA
Chromium	43	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	37		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	58		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.38	J	1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	40		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.62	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	190		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.028		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q14S-0.5-1 — Lab Sample ID: 720-90759-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.3		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	6.6		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	110		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	44	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	320		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	680		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.8	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	34		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	400		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q14S-3.5-4 — Lab Sample ID: 720-90759-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.80	J	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	2.0		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	88		1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.36		0.20	0.066	mg/Kg	4		6010B	Total/NA
Chromium	71	B	1.0	0.11	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q14S-3.5-4 (Continued) — Lab Sample ID: 720-90759-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	10		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	15		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	5.0		1.0	0.21	mg/Kg	4		6010B	Total/NA
Nickel	36		1.0	0.10	mg/Kg	4		6010B	Total/NA
Thallium	1.0		1.0	0.30	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	36		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.026		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P14S-0.5-1 — Lab Sample ID: 720-90759-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	200		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	35		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	94		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.28	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	1200		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	3200		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.48	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	24		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.60	J	0.88	0.18	mg/Kg	4		6010B	Total/NA
Thallium	1.3	J	1.8	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	96		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	240		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P14S-3.5-4 — Lab Sample ID: 720-90759-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.7		2.8	0.46	mg/Kg	10		6010B	Total/NA
Arsenic	14		5.6	0.47	mg/Kg	10		6010B	Total/NA
Barium	1100		2.8	0.39	mg/Kg	10		6010B	Total/NA
Beryllium	1.4		0.56	0.18	mg/Kg	10		6010B	Total/NA
Cadmium	0.62	J	0.69	0.069	mg/Kg	10		6010B	Total/NA
Chromium	140	B	2.8	0.29	mg/Kg	10		6010B	Total/NA
Cobalt	19		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	220		8.3	4.0	mg/Kg	10		6010B	Total/NA
Lead	920		2.8	0.58	mg/Kg	10		6010B	Total/NA
Molybdenum	1.7	J	2.8	0.36	mg/Kg	10		6010B	Total/NA
Nickel	130		2.8	0.28	mg/Kg	10		6010B	Total/NA
Silver	1.0	J	1.4	0.28	mg/Kg	10		6010B	Total/NA
Thallium	0.93	J	2.8	0.81	mg/Kg	10		6010B	Total/NA
Vanadium	86		2.8	0.38	mg/Kg	10		6010B	Total/NA
Zinc	550		8.3	3.5	mg/Kg	10		6010B	Total/NA
Mercury	3.4		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: DUP-97 — Lab Sample ID: 720-90759-14

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-97 (Continued) — Lab Sample ID: 720-90759-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.0		3.3	0.55	mg/Kg	10		6010B	Total/NA
Arsenic	19		6.7	0.57	mg/Kg	10		6010B	Total/NA
Barium	1500		3.3	0.47	mg/Kg	10		6010B	Total/NA
Beryllium	1.9		0.67	0.22	mg/Kg	10		6010B	Total/NA
Cadmium	0.63	J	0.83	0.083	mg/Kg	10		6010B	Total/NA
Chromium	110	B	3.3	0.35	mg/Kg	10		6010B	Total/NA
Cobalt	19		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	300		10	4.7	mg/Kg	10		6010B	Total/NA
Lead	2500		3.3	0.70	mg/Kg	10		6010B	Total/NA
Molybdenum	4.5		3.3	0.43	mg/Kg	10		6010B	Total/NA
Nickel	110		3.3	0.34	mg/Kg	10		6010B	Total/NA
Silver	0.48	J	1.7	0.34	mg/Kg	10		6010B	Total/NA
Vanadium	120		3.3	0.45	mg/Kg	10		6010B	Total/NA
Zinc	610		10	4.2	mg/Kg	10		6010B	Total/NA
Mercury	3.0		0.15	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-O14S-0.5-1 — Lab Sample ID: 720-90759-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.35	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.4		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	54		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.079	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	14	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	140		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	130		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.49	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	12		1.2	0.12	mg/Kg	4		6010B	Total/NA
Thallium	1.2		1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	88		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O14S-3.5-4 — Lab Sample ID: 720-90759-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	8.5		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	130		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.80		0.29	0.093	mg/Kg	4		6010B	Total/NA
Chromium	150	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	23		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	56		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	61		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.66	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	130		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	140		4.3	1.8	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O14S-3.5-4 (Continued) — Lab Sample ID: 720-90759-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.22		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N14S-0.5-1 — Lab Sample ID: 720-90759-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.8		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	95		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	120		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.4		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	37	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	250		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	510		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	1.7		1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	31		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Thallium	1.7		1.6	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	350		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.26		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N14S-3.5-4 — Lab Sample ID: 720-90759-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	15		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	160		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.66		0.28	0.090	mg/Kg	4		6010B	Total/NA
Chromium	58	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	31		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	7.9		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	73		1.4	0.14	mg/Kg	4		6010B	Total/NA
Thallium	0.50	J	1.4	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	71		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N12S-0.5-1 — Lab Sample ID: 720-90759-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.4	F1	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	89	F1	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	80	F1	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J F1	0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.43	F1	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	14	F1 B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13	F1	0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	140	F1	4.2	2.0	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N12S-0.5-1 (Continued) — Lab Sample ID: 720-90759-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	470	^ F2	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.48	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	12	F1 F2	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Thallium	1.1	J	1.4	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	79	F1	1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	250	F2	4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.11	F1	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N12S-3.5-4 — Lab Sample ID: 720-90759-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	26		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	29		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.36		0.24	0.078	mg/Kg	4		6010B	Total/NA
Chromium	32	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	92		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	16		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	24		1.2	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.80	J	1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	64		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-80 — Lab Sample ID: 720-90759-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8	F1	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	13	F1	2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	25	F1	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.68	F1	0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	37	F1	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	53	F1	4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	22	F1	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	2.7		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	28	F1	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.77	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	57	F1	1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	66	F1	4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.087		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O12S-0.5-1 — Lab Sample ID: 720-90759-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.4		2.0	0.33	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O12S-0.5-1 (Continued) — Lab Sample ID: 720-90759-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	25		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	100		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	36		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	150		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	730		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	2.0	0.26	mg/Kg	4		6010B	Total/NA
Nickel	46		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.73	J	4.0	0.60	mg/Kg	4		6010B	Total/NA
Vanadium	59		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	320		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O12S-3.5-4 — Lab Sample ID: 720-90759-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	59		7.8	1.3	mg/Kg	20		6010B	Total/NA
Arsenic	24		16	1.3	mg/Kg	20		6010B	Total/NA
Barium	240		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	3.8		1.9	0.19	mg/Kg	20		6010B	Total/NA
Chromium	39		7.8	0.82	mg/Kg	20		6010B	Total/NA
Cobalt	15		3.1	0.31	mg/Kg	20		6010B	Total/NA
Copper	6800		23	11	mg/Kg	20		6010B	Total/NA
Lead	3700		7.8	1.6	mg/Kg	20		6010B	Total/NA
Molybdenum	2.5		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	45		7.8	0.79	mg/Kg	20		6010B	Total/NA
Selenium	6.6	J	16	2.3	mg/Kg	20		6010B	Total/NA
Silver	1.8	J	3.9	0.78	mg/Kg	20		6010B	Total/NA
Vanadium	65		7.8	1.1	mg/Kg	20		6010B	Total/NA
Zinc	1700		23	9.8	mg/Kg	20		6010B	Total/NA
Mercury	0.17		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P12S-0.5-1 — Lab Sample ID: 720-90759-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	10		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	6.0		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	86		1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.21	0.068	mg/Kg	4		6010B	Total/NA
Cadmium	0.92		0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	30		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	3.2		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	260		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	1600		1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.54	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	17		1.0	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	2.1	0.31	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P12S-0.5-1 (Continued) — Lab Sample ID: 720-90759-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.13	J	0.52	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	15		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	240		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P12S-3.5-4 — Lab Sample ID: 720-90759-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	28		1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	9.6		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	130		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.30	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	29		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	860		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	1000		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	1.7		1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	67		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	94		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	140		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.29		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q12S-0.5-1 — Lab Sample ID: 720-90759-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.4		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	6.2		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	23		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.35	J	0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	17		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	4.7		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	180		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	380		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.69	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	27		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.52	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	21		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	77		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q12S-3.5-4 — Lab Sample ID: 720-90759-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.55	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	2.7	J	4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	25		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.28	J	0.40	0.13	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q12S-3.5-4 (Continued) — Lab Sample ID: 720-90759-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	16		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	92		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	17		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	13		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	4.0	0.59	mg/Kg	4		6010B	Total/NA
Vanadium	91		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	73		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.044		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S12S-0.5-1 — Lab Sample ID: 720-90759-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.7		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	160		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.36		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.10	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	81		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	34		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	9.1		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.53	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	92		1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	53		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.097		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S12S-3.5-4 — Lab Sample ID: 720-90759-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	9.9		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	58		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	1.3		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	40		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	23		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	51		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	54		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.81	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	43		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.4	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	100		3.7	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.090		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-81 — Lab Sample ID: 720-90759-30

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-81 (Continued) — Lab Sample ID: 720-90759-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	140		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.52		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	0.031	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	87		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	26		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	6.6		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.57	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	87		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.56	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	42		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T12S-0.5-1 — Lab Sample ID: 720-90759-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	33		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	9.3		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	220		1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	52		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	4600		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	1100		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	2.7		1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	69		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.9	0.58	mg/Kg	4		6010B	Total/NA
Silver	3.1		0.97	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	550		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.30		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T12S-3.5-4 — Lab Sample ID: 720-90759-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	8.1		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	160		1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.47		0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.45	J	0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	95		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	150		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	91		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.85	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	130		1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.9	0.26	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Client Sample ID: DG-T12S-3.5-4 (Continued) — Lab Sample ID: 720-90759-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	420		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	2.5		0.066	0.0097	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-V10S-0.5-1 — Lab Sample ID: 720-90759-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	3.0	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	58		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.52		0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	16		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	170		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	93		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	11		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	190		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V10S-3.5-4 — Lab Sample ID: 720-90759-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12		2.8	0.46	mg/Kg	10		6010B	Total/NA
Arsenic	22		5.6	0.47	mg/Kg	10		6010B	Total/NA
Barium	84		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.36		0.22	0.072	mg/Kg	4		6010B	Total/NA
Cadmium	0.60	J	0.69	0.069	mg/Kg	10		6010B	Total/NA
Chromium	22		2.8	0.29	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	590		8.3	4.0	mg/Kg	10		6010B	Total/NA
Lead	950		2.8	0.58	mg/Kg	10		6010B	Total/NA
Molybdenum	3.3		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	94		2.8	0.28	mg/Kg	10		6010B	Total/NA
Selenium	3.7	J	5.6	0.83	mg/Kg	10		6010B	Total/NA
Vanadium	74		2.8	0.38	mg/Kg	10		6010B	Total/NA
Zinc	170		8.3	3.5	mg/Kg	10		6010B	Total/NA
Mercury	0.17		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U10S-0.5-1 — Lab Sample ID: 720-90759-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	2.3	J	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	43		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.25	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	17		1.8	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U10S-0.5-1 (Continued) — Lab Sample ID: 720-90759-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	14		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	220		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	170		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	13		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.2	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	130		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.075		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U10S-3.5-4 — Lab Sample ID: 720-90759-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	30		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	32		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	150		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.31		0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	0.76		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	27		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	1400		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	1500		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	62		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	0.50	J	0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	94		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	320		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T10S-0.5-1 — Lab Sample ID: 720-90759-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.52	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	32		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	61		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Chromium	14		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	190		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	44		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.45	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	11		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.99	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	50		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.039		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T10S-3.5-4 — Lab Sample ID: 720-90759-38

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T10S-3.5-4 (Continued)

Lab Sample ID: 720-90759-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	110		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	79		1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.70		0.20	0.065	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	120		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.40	0.040	mg/Kg	4		6010B	Total/NA
Copper	67		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	27		1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.60	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	150		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	2.0	0.30	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	84		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.71		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S10S-0.5-1

Lab Sample ID: 720-90759-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	5.0		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	12		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.093	J	0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	8.9		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	1.6		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	32		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	110		1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	9.5		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.59	J	2.7	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	5.4		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	27		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.031		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S10S-3.5-4

Lab Sample ID: 720-90759-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.2		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	8.5		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	68		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.3		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	24		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	4.8		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	340		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	820		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	30		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	20		1.9	0.26	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S10S-3.5-4 (Continued) — Lab Sample ID: 720-90759-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	480		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q10S-0.5-1 — Lab Sample ID: 720-90759-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.6	B	2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	73	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.33		0.23	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	9.1		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	5.9		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	52		8.5	4.0	mg/Kg	10		6010B	Total/NA
Lead	58		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.49	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	9.4		2.8	0.29	mg/Kg	10		6010B	Total/NA
Thallium	1.1	J	2.8	0.82	mg/Kg	10		6010B	Total/NA
Vanadium	41		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	49		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.039		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q10S-3.5-4 — Lab Sample ID: 720-90759-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	2.3	B	2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.83		0.20	0.065	mg/Kg	4		6010B	Total/NA
Cadmium	0.085	J	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	83		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.40	0.040	mg/Kg	4		6010B	Total/NA
Copper	9.4		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	4.9		1.0	0.21	mg/Kg	4		6010B	Total/NA
Molybdenum	0.55	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	45		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	0.74	J	2.0	0.30	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	29		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.054		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P10S-0.5-1 — Lab Sample ID: 720-90759-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	5.7	B	3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	81	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.72		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.59		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	40		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.0		0.63	0.063	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-P10S-0.5-1 (Continued) — Lab Sample ID: 720-90759-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	110		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	300		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.59	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	31		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	130		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.089		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-P10S-3.5-4 — Lab Sample ID: 720-90759-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	2.1	J B	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	78	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.27	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.10	J	0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	46		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	8.5		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	7.9		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	11		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.47	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	37		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	43		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O10S-0.5-1 — Lab Sample ID: 720-90759-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2500		5.2	0.87	mg/Kg	20		6010B	Total/NA
Arsenic	97	B	2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	92	B	1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.45		0.21	0.068	mg/Kg	4		6010B	Total/NA
Cadmium	2.0		0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	25		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	7.6		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	1800		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	17000	^	5.2	1.1	mg/Kg	20		6010B	Total/NA
Molybdenum	2.2		1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	35		1.0	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.1	0.31	mg/Kg	4		6010B	Total/NA
Silver	6.3		0.52	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	600		16	6.6	mg/Kg	20		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-67 — Lab Sample ID: 720-90759-46

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-67 (Continued) — Lab Sample ID: 720-90759-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4300		5.9	0.98	mg/Kg	20		6010B	Total/NA
Arsenic	57	B	12	1.0	mg/Kg	20		6010B	Total/NA
Barium	24	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.24	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	4.8		1.5	0.15	mg/Kg	20		6010B	Total/NA
Chromium	50		5.9	0.62	mg/Kg	20		6010B	Total/NA
Cobalt	13		2.4	0.24	mg/Kg	20		6010B	Total/NA
Copper	1300		18	8.4	mg/Kg	20		6010B	Total/NA
Lead	14000	^	5.9	1.2	mg/Kg	20		6010B	Total/NA
Molybdenum	5.2		1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	77		5.9	0.60	mg/Kg	20		6010B	Total/NA
Selenium	10	J	12	1.8	mg/Kg	20		6010B	Total/NA
Silver	8.2		2.9	0.59	mg/Kg	20		6010B	Total/NA
Vanadium	12		5.9	0.80	mg/Kg	20		6010B	Total/NA
Zinc	2800		18	7.5	mg/Kg	20		6010B	Total/NA
Mercury	0.053		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O10S-3.5-4 — Lab Sample ID: 720-90759-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.5	F1	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	13	B	2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	100	B F1	1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.90		0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	0.64		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	44		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	640	F2	4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	180		1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.47	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	48	F1	1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.4	J	2.7	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	49	F1	1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	300		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N10S-0.5-1 — Lab Sample ID: 720-90759-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	17		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	18	B	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.99		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	27		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	3600		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	1700		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	2.4		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	59		1.6	0.16	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N10S-0.5-1 (Continued) — Lab Sample ID: 720-90759-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	3.1	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.37	J	0.79	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	390		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	2.0		0.063	0.0092	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-N10S-3.5-4 — Lab Sample ID: 720-90759-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.0		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	4.8	B	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	43	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.23		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	11		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	3.1		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	66		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	240		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.63	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	12		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.43	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Thallium	0.44	J	1.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	14		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	64		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.081		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q16S-0.5-1

Date Collected: 01/14/19 08:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1		1.5	0.24	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Arsenic	120		2.9	0.25	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Barium	81		1.5	0.21	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Beryllium	0.56		0.29	0.095	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Cadmium	0.49		0.36	0.036	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Chromium	87	B	1.5	0.15	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Cobalt	20		0.58	0.058	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Copper	110		4.4	2.1	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Lead	110	^	1.5	0.31	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Molybdenum	0.30	J	1.5	0.19	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Nickel	96		1.5	0.15	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Selenium	1.1	J	2.9	0.44	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Silver	ND		0.73	0.15	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Thallium	0.93	J	1.5	0.42	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Vanadium	75		1.5	0.20	mg/Kg		01/15/19 10:16	01/16/19 13:54	4
Zinc	150		4.4	1.9	mg/Kg		01/15/19 10:16	01/16/19 13:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.015	0.0022	mg/Kg		01/25/19 15:45	01/25/19 20:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-Q16S-3.5-4

Date Collected: 01/14/19 08:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.4	0.23	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Arsenic	4.0		2.8	0.23	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Barium	110		1.4	0.20	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Beryllium	0.36		0.28	0.090	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Cadmium	ND		0.34	0.034	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Chromium	260	B	1.4	0.15	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Cobalt	28		0.55	0.055	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Copper	46		4.1	2.0	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Lead	4.6		1.4	0.29	mg/Kg		01/15/19 10:16	01/21/19 14:59	4
Molybdenum	0.25	J	1.4	0.18	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Nickel	290		1.4	0.14	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Selenium	ND		2.8	0.41	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Silver	ND		0.69	0.14	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Thallium	1.1	J	1.4	0.40	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Vanadium	91		1.4	0.19	mg/Kg		01/15/19 10:16	01/16/19 13:59	4
Zinc	57		4.1	1.8	mg/Kg		01/15/19 10:16	01/16/19 13:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0023	mg/Kg		01/25/19 15:45	01/25/19 20:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-S16S-0.5-1

Date Collected: 01/14/19 08:20
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	23		1.8	0.30	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Arsenic	18		3.6	0.31	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Barium	120		1.8	0.26	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Beryllium	0.43		0.36	0.12	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Cadmium	1.2		0.45	0.045	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Chromium	83	B	1.8	0.19	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Cobalt	24		0.72	0.072	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Copper	2800		5.4	2.6	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Lead	4700	^	1.8	0.38	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Molybdenum	1.8		1.8	0.23	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Nickel	110		1.8	0.18	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Selenium	1.6	J	3.6	0.54	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Silver	0.30	J	0.90	0.18	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Thallium	0.72	J	1.8	0.52	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Vanadium	77		1.8	0.25	mg/Kg		01/15/19 10:16	01/16/19 14:04	4
Zinc	430		5.4	2.3	mg/Kg		01/15/19 10:16	01/16/19 14:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14		0.34	0.050	mg/Kg		01/25/19 15:45	01/26/19 09:45	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.9		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DUP-114

Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		1.6	0.27	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Arsenic	19		3.2	0.27	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Barium	180		1.6	0.23	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Beryllium	0.42		0.32	0.10	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Cadmium	1.3		0.40	0.040	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Chromium	74	B	1.6	0.17	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Cobalt	21		0.65	0.065	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Copper	1800		4.8	2.3	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Lead	3400		1.6	0.34	mg/Kg		01/15/19 10:16	01/21/19 15:04	4
Molybdenum	2.1		1.6	0.21	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Nickel	110		1.6	0.16	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Selenium	1.2	J	3.2	0.48	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Silver	ND		0.81	0.16	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Thallium	0.63	J	1.6	0.47	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Vanadium	67		1.6	0.22	mg/Kg		01/15/19 10:16	01/16/19 14:18	4
Zinc	450		4.8	2.0	mg/Kg		01/15/19 10:16	01/16/19 14:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.5		0.064	0.0094	mg/Kg		01/25/19 15:45	01/26/19 09:48	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.4		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-S16S-3.5-4

Date Collected: 01/14/19 08:20
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.3		3.1	0.52	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Arsenic	20		6.3	0.53	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Barium	840		3.1	0.44	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Beryllium	1.4		0.63	0.20	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Cadmium	0.68	J	0.78	0.078	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Chromium	71	B	3.1	0.33	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Cobalt	16		1.3	0.13	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Copper	230		9.4	4.5	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Lead	1200		3.1	0.66	mg/Kg		01/15/19 10:16	01/21/19 15:08	10
Molybdenum	3.6		3.1	0.40	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Nickel	46		3.1	0.32	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Selenium	1.8	J	6.3	0.94	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Silver	0.57	J	1.6	0.32	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Thallium	1.1	J	3.1	0.91	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Vanadium	91		3.1	0.43	mg/Kg		01/15/19 10:16	01/16/19 14:23	10
Zinc	620		9.4	4.0	mg/Kg		01/15/19 10:16	01/16/19 14:23	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.4		0.068	0.010	mg/Kg		01/25/19 15:45	01/26/19 09:50	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	42.6		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-T14S-0.5-1

Date Collected: 01/14/19 08:40
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.1	0.18	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Arsenic	3.8		2.2	0.19	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Barium	110		1.1	0.16	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Beryllium	0.22		0.22	0.072	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Cadmium	0.67		0.28	0.027	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Chromium	200	B	1.1	0.12	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Cobalt	25		0.44	0.044	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Copper	64		3.3	1.6	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Lead	210		1.1	0.23	mg/Kg		01/15/19 10:16	01/21/19 15:13	4
Molybdenum	0.39	J	1.1	0.14	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Nickel	400		1.1	0.11	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Selenium	0.48	J	2.2	0.33	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Silver	ND		0.55	0.11	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Thallium	0.49	J	1.1	0.32	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Vanadium	40		1.1	0.15	mg/Kg		01/15/19 10:16	01/16/19 14:28	4
Zinc	360		3.3	1.4	mg/Kg		01/15/19 10:16	01/16/19 14:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.015	0.0022	mg/Kg		01/25/19 15:45	01/25/19 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.1		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-T14S-3.5-4

Date Collected: 01/14/19 08:40
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.5		1.2	0.20	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Arsenic	2.2	J	2.5	0.21	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Barium	71		1.2	0.17	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Beryllium	0.12	J	0.25	0.080	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Cadmium	0.99		0.31	0.030	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Chromium	360	B	1.2	0.13	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Cobalt	34		0.49	0.049	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Copper	85		3.7	1.7	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Lead	170		1.2	0.26	mg/Kg		01/15/19 10:16	01/21/19 15:18	4
Molybdenum	0.16	J	1.2	0.16	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Nickel	650		1.2	0.13	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Selenium	1.1	J	2.5	0.37	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Silver	ND		0.61	0.12	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Thallium	0.75	J	1.2	0.36	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Vanadium	38		1.2	0.17	mg/Kg		01/15/19 10:16	01/16/19 14:32	4
Zinc	160		3.7	1.6	mg/Kg		01/15/19 10:16	01/16/19 14:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.015	0.0022	mg/Kg		01/25/19 15:45	01/25/19 20:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.2		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-S14S-0.5-1

Date Collected: 01/14/19 09:20
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.9		1.3	0.21	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Arsenic	5.4		2.5	0.21	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Barium	250		1.3	0.18	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Beryllium	ND		0.25	0.081	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Cadmium	1.1		0.31	0.031	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Chromium	53	B	1.3	0.13	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Cobalt	10		0.50	0.050	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Copper	1100		3.8	1.8	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Lead	1200		1.3	0.26	mg/Kg		01/15/19 10:16	01/21/19 15:23	4
Molybdenum	1.9		1.3	0.16	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Nickel	58		1.3	0.13	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Selenium	0.85	J	2.5	0.38	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Silver	ND		0.63	0.13	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Thallium	0.46	J	1.3	0.36	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Vanadium	40		1.3	0.17	mg/Kg		01/15/19 10:16	01/16/19 14:37	4
Zinc	300		3.8	1.6	mg/Kg		01/15/19 10:16	01/16/19 14:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.015	0.0022	mg/Kg		01/25/19 15:45	01/25/19 20:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-S14S-3.5-4

Date Collected: 01/14/19 09:20
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	1.8	0.29	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Arsenic	8.9		3.5	0.30	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Barium	67		1.8	0.25	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Beryllium	0.89		0.35	0.11	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Cadmium	ND		0.44	0.044	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Chromium	43	B	1.8	0.19	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Cobalt	19		0.70	0.070	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Copper	37		5.3	2.5	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Lead	58		1.8	0.37	mg/Kg		01/15/19 10:16	01/21/19 15:27	4
Molybdenum	0.38	J	1.8	0.22	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Nickel	40		1.8	0.18	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Selenium	0.62	J	3.5	0.53	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Silver	ND		0.88	0.18	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Thallium	ND		1.8	0.51	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Vanadium	52		1.8	0.24	mg/Kg		01/15/19 10:16	01/16/19 14:42	4
Zinc	190		5.3	2.2	mg/Kg		01/15/19 10:16	01/16/19 14:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.014	0.0021	mg/Kg		01/25/19 15:45	01/25/19 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-Q14S-0.5-1

Date Collected: 01/14/19 09:35
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.3		1.9	0.31	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Arsenic	6.6		3.7	0.31	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Barium	110		1.9	0.26	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Beryllium	0.21	J	0.37	0.12	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Cadmium	1.2		0.46	0.046	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Chromium	44	B	1.9	0.20	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Cobalt	9.9		0.74	0.074	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Copper	320		5.6	2.6	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Lead	680		1.9	0.39	mg/Kg		01/15/19 10:16	01/21/19 15:32	4
Molybdenum	1.8	J	1.9	0.24	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Nickel	34		1.9	0.19	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Selenium	ND		3.7	0.56	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Silver	ND		0.93	0.19	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Thallium	ND		1.9	0.54	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Vanadium	66		1.9	0.25	mg/Kg		01/15/19 10:16	01/16/19 14:47	4
Zinc	400		5.6	2.4	mg/Kg		01/15/19 10:16	01/16/19 14:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.014	0.0021	mg/Kg		01/25/19 15:45	01/25/19 20:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-Q14S-3.5-4

Date Collected: 01/14/19 09:35
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.80**	**J**	1.0	0.17	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Arsenic	**2.0**		2.0	0.17	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Barium	**88**		1.0	0.14	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Beryllium	**0.36**		0.20	0.066	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Cadmium	ND		0.26	0.025	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Chromium	**71**	**B**	1.0	0.11	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Cobalt	**10**		0.41	0.041	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Copper	**15**		3.1	1.5	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Lead	**5.0**		1.0	0.21	mg/Kg		01/15/19 10:16	01/21/19 15:37	4
Molybdenum	ND		1.0	0.13	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Nickel	**36**		1.0	0.10	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Selenium	ND		2.0	0.31	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Silver	ND		0.51	0.10	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Thallium	**1.0**		1.0	0.30	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Vanadium	**74**		1.0	0.14	mg/Kg		01/15/19 10:16	01/16/19 14:51	4
Zinc	**36**		3.1	1.3	mg/Kg		01/15/19 10:16	01/16/19 14:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.015	0.0022	mg/Kg		01/25/19 15:45	01/25/19 20:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-P14S-0.5-1

Date Collected: 01/14/19 09:45
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	200		1.8	0.29	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Arsenic	35		3.5	0.30	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Barium	94		1.8	0.25	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Beryllium	0.13	J	0.35	0.12	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Cadmium	0.28	J	0.44	0.044	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Chromium	21	B	1.8	0.19	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Cobalt	14		0.71	0.071	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Copper	1200		5.3	2.5	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Lead	3200		1.8	0.37	mg/Kg		01/15/19 10:16	01/21/19 15:42	4
Molybdenum	0.48	J	1.8	0.23	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Nickel	24		1.8	0.18	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Selenium	ND		3.5	0.53	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Silver	0.60	J	0.88	0.18	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Thallium	1.3	J	1.8	0.51	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Vanadium	96		1.8	0.24	mg/Kg		01/15/19 10:16	01/16/19 14:56	4
Zinc	240		5.3	2.2	mg/Kg		01/15/19 10:16	01/16/19 14:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.014	0.0021	mg/Kg		01/25/19 15:45	01/25/19 20:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-P14S-3.5-4

Date Collected: 01/14/19 09:45
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.7		2.8	0.46	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Arsenic	14		5.6	0.47	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Barium	1100		2.8	0.39	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Beryllium	1.4		0.56	0.18	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Cadmium	0.62	J	0.69	0.069	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Chromium	140	B	2.8	0.29	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Cobalt	19		1.1	0.11	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Copper	220		8.3	4.0	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Lead	920		2.8	0.58	mg/Kg		01/15/19 10:16	01/21/19 16:18	10
Molybdenum	1.7	J	2.8	0.36	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Nickel	130		2.8	0.28	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Selenium	ND		5.6	0.83	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Silver	1.0	J	1.4	0.28	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Thallium	0.93	J	2.8	0.81	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Vanadium	86		2.8	0.38	mg/Kg		01/15/19 10:16	01/16/19 15:01	10
Zinc	550		8.3	3.5	mg/Kg		01/15/19 10:16	01/16/19 15:01	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.4		0.15	0.022	mg/Kg		01/25/19 15:45	01/26/19 09:53	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.1		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DUP-97
Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-14
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0		3.3	0.55	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Arsenic	19		6.7	0.57	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Barium	1500		3.3	0.47	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Beryllium	1.9		0.67	0.22	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Cadmium	0.63	J	0.83	0.083	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Chromium	110	B	3.3	0.35	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Cobalt	19		1.3	0.13	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Copper	300		10	4.7	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Lead	2500		3.3	0.70	mg/Kg		01/15/19 10:16	01/21/19 16:23	10
Molybdenum	4.5		3.3	0.43	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Nickel	110		3.3	0.34	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Selenium	ND		6.7	1.0	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Silver	0.48	J	1.7	0.34	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Thallium	ND		3.3	0.97	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Vanadium	120		3.3	0.45	mg/Kg		01/15/19 10:16	01/16/19 15:15	10
Zinc	610		10	4.2	mg/Kg		01/15/19 10:16	01/16/19 15:15	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.0		0.15	0.021	mg/Kg		01/25/19 15:45	01/26/19 09:55	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.8		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-O14S-0.5-1

Date Collected: 01/14/19 10:05
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.20	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Arsenic	2.4		2.4	0.21	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Barium	54		1.2	0.17	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Beryllium	ND		0.24	0.079	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Cadmium	0.079	J	0.30	0.030	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Chromium	14	B	1.2	0.13	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Cobalt	14		0.48	0.048	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Copper	140		3.6	1.7	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Lead	130		1.2	0.25	mg/Kg		01/15/19 10:16	01/21/19 16:28	4
Molybdenum	0.49	J	1.2	0.16	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Nickel	12		1.2	0.12	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Selenium	ND		2.4	0.36	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Silver	ND		0.61	0.12	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Thallium	1.2		1.2	0.35	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Vanadium	100		1.2	0.16	mg/Kg		01/15/19 10:16	01/16/19 15:20	4
Zinc	88		3.6	1.5	mg/Kg		01/15/19 10:16	01/16/19 15:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.016	0.0024	mg/Kg		01/25/19 15:45	01/26/19 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-O14S-3.5-4

Date Collected: 01/14/19 10:05
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1		1.4	0.24	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Arsenic	8.5		2.9	0.24	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Barium	130		1.4	0.20	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Beryllium	0.80		0.29	0.093	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Cadmium	ND		0.36	0.035	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Chromium	150	B	1.4	0.15	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Cobalt	23		0.57	0.057	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Copper	56		4.3	2.0	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Lead	61		1.4	0.30	mg/Kg		01/15/19 10:16	01/21/19 16:32	4
Molybdenum	0.66	J	1.4	0.18	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Nickel	130		1.4	0.15	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Selenium	1.2	J	2.9	0.43	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Silver	ND		0.71	0.14	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Thallium	ND		1.4	0.41	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Vanadium	63		1.4	0.19	mg/Kg		01/15/19 10:16	01/16/19 15:25	4
Zinc	140		4.3	1.8	mg/Kg		01/15/19 10:16	01/16/19 15:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.015	0.0022	mg/Kg		01/25/19 15:45	01/25/19 21:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-N14S-0.5-1

Date Collected: 01/14/19 10:25
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.8		1.6	0.27	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Arsenic	95		3.2	0.27	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Barium	120		1.6	0.23	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Beryllium	0.22	J	0.32	0.10	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Cadmium	1.4		0.40	0.040	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Chromium	37	B	1.6	0.17	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Cobalt	17		0.65	0.065	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Copper	250		4.8	2.3	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Lead	510		1.6	0.34	mg/Kg		01/15/19 10:16	01/21/19 16:37	4
Molybdenum	1.7		1.6	0.21	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Nickel	31		1.6	0.16	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Selenium	1.2	J	3.2	0.48	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Silver	ND		0.81	0.16	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Thallium	1.7		1.6	0.47	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Vanadium	110		1.6	0.22	mg/Kg		01/15/19 10:16	01/16/19 15:29	4
Zinc	350		4.8	2.0	mg/Kg		01/15/19 10:16	01/16/19 15:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.015	0.0021	mg/Kg		01/25/19 15:45	01/25/19 21:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-N14S-3.5-4

Date Collected: 01/14/19 10:25
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5		1.4	0.23	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Arsenic	15		2.8	0.24	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Barium	160		1.4	0.20	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Beryllium	0.66		0.28	0.090	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Cadmium	ND		0.35	0.034	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Chromium	58	B	1.4	0.15	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Cobalt	14		0.56	0.056	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Copper	31		4.2	2.0	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Lead	7.9		1.4	0.29	mg/Kg		01/15/19 10:16	01/21/19 16:50	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Nickel	73		1.4	0.14	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Selenium	ND		2.8	0.42	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Silver	ND		0.87	0.18	mg/Kg		01/15/19 10:16	01/31/19 15:01	5
Thallium	0.50	J	1.4	0.40	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Vanadium	81		1.4	0.19	mg/Kg		01/15/19 10:16	01/16/19 15:34	4
Zinc	71		4.2	1.8	mg/Kg		01/15/19 10:16	01/16/19 15:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.014	0.0021	mg/Kg		01/25/19 15:45	01/25/19 21:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.05	%			01/15/19 11:02	1

Client Sample ID: DG-N12S-0.5-1
Date Collected: 01/14/19 10:50
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-19
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.4	F1	1.4	0.23	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Arsenic	89	F1	2.8	0.24	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Barium	80	F1	1.4	0.20	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Beryllium	0.25	J F1	0.28	0.092	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Cadmium	0.43	F1	0.35	0.035	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Chromium	14	F1 B	1.4	0.15	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Cobalt	13	F1	0.56	0.056	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Copper	140	F1	4.2	2.0	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Lead	470	^ F2	1.4	0.30	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Molybdenum	0.48	J	1.4	0.18	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Nickel	12	F1 F2	1.4	0.14	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Selenium	1.1	J	2.8	0.42	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Silver	ND	F1	0.70	0.14	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Thallium	1.1	J	1.4	0.41	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Vanadium	79	F1	1.4	0.19	mg/Kg		01/15/19 10:16	01/16/19 13:49	4
Zinc	250	F2	4.2	1.8	mg/Kg		01/15/19 10:16	01/16/19 13:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11	F1	0.015	0.0022	mg/Kg		01/25/19 15:45	01/25/19 20:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-N12S-3.5-4

Date Collected: 01/14/19 10:50
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3		1.2	0.20	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Arsenic	26		2.4	0.20	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Barium	29		1.2	0.17	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Beryllium	0.36		0.24	0.078	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Cadmium	ND		0.30	0.030	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Chromium	32	B	1.2	0.13	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Cobalt	13		0.48	0.048	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Copper	92		3.6	1.7	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Lead	16		1.2	0.25	mg/Kg		01/15/19 10:16	01/21/19 16:55	4
Molybdenum	1.6		1.2	0.15	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Nickel	24		1.2	0.12	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Selenium	ND		2.4	0.36	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Silver	ND		0.60	0.12	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Thallium	0.80	J	1.2	0.35	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Vanadium	77		1.2	0.16	mg/Kg		01/15/19 10:16	01/16/19 15:39	4
Zinc	64		3.6	1.5	mg/Kg		01/15/19 10:16	01/16/19 15:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0023	mg/Kg		01/25/19 15:45	01/25/19 21:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DUP-80

Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8	F1	1.5	0.24	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Arsenic	13	F1	2.9	0.25	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Barium	25	F1	1.5	0.21	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Beryllium	0.68	F1	0.29	0.096	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Cadmium	0.13	J	0.37	0.036	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Chromium	37	F1	1.5	0.16	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Cobalt	15		0.59	0.059	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Copper	53	F1	4.4	2.1	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Lead	22	F1	1.5	0.31	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Molybdenum	2.7		1.5	0.19	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Nickel	28	F1	1.5	0.15	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Selenium	0.77	J	2.9	0.44	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Silver	ND	F1	0.74	0.15	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Thallium	ND	F1	1.5	0.43	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Vanadium	57	F1	1.5	0.20	mg/Kg		01/15/19 11:11	01/16/19 14:49	4
Zinc	66	F1	4.4	1.9	mg/Kg		01/15/19 11:11	01/16/19 14:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087		0.017	0.0025	mg/Kg		01/25/19 16:38	01/25/19 21:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.7		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-O12S-0.5-1

Date Collected: 01/14/19 11:05
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.4		2.0	0.33	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Arsenic	25		4.0	0.34	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Barium	100		2.0	0.28	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Beryllium	0.24	J	0.40	0.13	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Cadmium	1.1		0.50	0.050	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Chromium	36		2.0	0.21	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Cobalt	11		0.80	0.080	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Copper	150		6.0	2.8	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Lead	730		2.0	0.42	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Molybdenum	1.1	J	2.0	0.26	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Nickel	46		2.0	0.20	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Selenium	0.73	J	4.0	0.60	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Silver	ND		1.0	0.20	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Thallium	ND		2.0	0.58	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Vanadium	59		2.0	0.27	mg/Kg		01/15/19 11:11	01/16/19 14:53	4
Zinc	320		6.0	2.5	mg/Kg		01/15/19 11:11	01/16/19 14:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.017	0.0025	mg/Kg		01/25/19 16:38	01/25/19 21:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.6		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-O12S-3.5-4

Date Collected: 01/14/19 11:05
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	59		7.8	1.3	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Arsenic	24		16	1.3	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Barium	240		1.6	0.22	mg/Kg		01/15/19 11:11	01/16/19 14:58	4
Beryllium	0.49		0.31	0.10	mg/Kg		01/15/19 11:11	01/16/19 14:58	4
Cadmium	3.8		1.9	0.19	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Chromium	39		7.8	0.82	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Cobalt	15		3.1	0.31	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Copper	6800		23	11	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Lead	3700		7.8	1.6	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Molybdenum	2.5		1.6	0.20	mg/Kg		01/15/19 11:11	01/16/19 14:58	4
Nickel	45		7.8	0.79	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Selenium	6.6	J	16	2.3	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Silver	1.8	J	3.9	0.78	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Thallium	ND		7.8	2.2	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Vanadium	65		7.8	1.1	mg/Kg		01/15/19 11:11	01/21/19 11:23	20
Zinc	1700		23	9.8	mg/Kg		01/15/19 11:11	01/21/19 11:23	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.015	0.0023	mg/Kg		01/25/19 16:38	01/25/19 21:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.7		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-P12S-0.5-1

Date Collected: 01/14/19 11:20
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	10		1.0	0.17	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Arsenic	6.0		2.1	0.18	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Barium	86		1.0	0.15	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Beryllium	0.12	J	0.21	0.068	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Cadmium	0.92		0.26	0.026	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Chromium	30		1.0	0.11	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Cobalt	3.2		0.42	0.042	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Copper	260		3.1	1.5	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Lead	1600		1.0	0.22	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Molybdenum	0.54	J	1.0	0.13	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Nickel	17		1.0	0.11	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Selenium	1.0	J	2.1	0.31	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Silver	0.13	J	0.52	0.11	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Thallium	ND		1.0	0.30	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Vanadium	15		1.0	0.14	mg/Kg		01/15/19 11:11	01/16/19 15:03	4
Zinc	240		3.1	1.3	mg/Kg		01/15/19 11:11	01/16/19 15:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.015	0.0022	mg/Kg		01/25/19 16:38	01/25/19 21:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-P12S-3.5-4

Date Collected: 01/14/19 11:20
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	28		1.5	0.26	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Arsenic	9.6		3.1	0.26	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Barium	130		1.5	0.22	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Beryllium	0.30	J	0.31	0.10	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Cadmium	0.21	J	0.38	0.038	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Chromium	29		1.5	0.16	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Cobalt	7.5		0.62	0.062	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Copper	860		4.6	2.2	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Lead	1000		1.5	0.32	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Molybdenum	1.7		1.5	0.20	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Nickel	67		1.5	0.16	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Selenium	1.5	J	3.1	0.46	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Silver	ND		0.77	0.16	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Thallium	ND		1.5	0.45	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Vanadium	94		1.5	0.21	mg/Kg		01/15/19 11:11	01/16/19 15:17	4
Zinc	140		4.6	2.0	mg/Kg		01/15/19 11:11	01/16/19 15:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.015	0.0021	mg/Kg		01/25/19 16:38	01/25/19 21:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.9		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-Q12S-0.5-1

Date Collected: 01/14/19 11:30
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.4		1.5	0.24	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Arsenic	6.2		2.9	0.25	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Barium	23		1.5	0.21	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Beryllium	0.15	J	0.29	0.096	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Cadmium	0.35	J	0.37	0.036	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Chromium	17		1.5	0.16	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Cobalt	4.7		0.59	0.059	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Copper	180		4.4	2.1	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Lead	380		1.5	0.31	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Molybdenum	0.69	J	1.5	0.19	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Nickel	27		1.5	0.15	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Selenium	0.52	J	2.9	0.44	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Silver	ND		0.74	0.15	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Thallium	ND		1.5	0.43	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Vanadium	21		1.5	0.20	mg/Kg		01/15/19 11:11	01/16/19 15:22	4
Zinc	77		4.4	1.9	mg/Kg		01/15/19 11:11	01/16/19 15:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.015	0.0022	mg/Kg		01/25/19 16:38	01/25/19 21:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-Q12S-3.5-4

Date Collected: 01/14/19 11:30
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	2.0	0.33	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Arsenic	2.7	J	4.0	0.34	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Barium	25		2.0	0.28	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Beryllium	0.28	J	0.40	0.13	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Cadmium	ND		0.50	0.049	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Chromium	16		2.0	0.21	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Cobalt	14		0.79	0.079	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Copper	92		5.9	2.8	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Lead	17		2.0	0.42	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Molybdenum	0.53	J	2.0	0.25	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Nickel	13		2.0	0.20	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Selenium	1.3	J	4.0	0.59	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Silver	ND		0.99	0.20	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Thallium	ND		2.0	0.57	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Vanadium	91		2.0	0.27	mg/Kg		01/15/19 11:11	01/16/19 15:26	4
Zinc	73		5.9	2.5	mg/Kg		01/15/19 11:11	01/16/19 15:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.016	0.0023	mg/Kg		01/25/19 16:38	01/25/19 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-S12S-0.5-1

Date Collected: 01/14/19 11:40
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.30	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Arsenic	**4.7**		3.6	0.31	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Barium	**160**		1.8	0.26	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Beryllium	**0.36**		0.36	0.12	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Cadmium	**0.10**	**J**	0.45	0.045	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Chromium	**81**		1.8	0.19	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Cobalt	**20**		0.73	0.073	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Copper	**34**		5.5	2.6	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Lead	**9.1**		1.8	0.38	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Molybdenum	**0.53**	**J**	1.8	0.23	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Nickel	**92**		1.8	0.19	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Selenium	ND		3.6	0.55	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Silver	ND		0.91	0.18	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Thallium	ND		1.8	0.53	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Vanadium	**87**		1.8	0.25	mg/Kg		01/15/19 11:11	01/16/19 15:31	4
Zinc	**53**		5.5	2.3	mg/Kg		01/15/19 11:11	01/16/19 15:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.097**		0.017	0.0025	mg/Kg		01/25/19 16:38	01/25/19 21:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.2**		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-S12S-3.5-4

Date Collected: 01/14/19 11:40
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3		1.2	0.20	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Arsenic	9.9		2.4	0.21	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Barium	58		1.2	0.17	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Beryllium	1.3		0.24	0.079	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Cadmium	0.15	J	0.30	0.030	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Chromium	40		1.2	0.13	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Cobalt	23		0.49	0.049	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Copper	51		3.7	1.7	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Lead	54		1.2	0.26	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Molybdenum	0.81	J	1.2	0.16	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Nickel	43		1.2	0.12	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Selenium	1.4	J	2.4	0.37	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Silver	ND		0.61	0.12	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Thallium	ND		1.2	0.35	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Vanadium	48		1.2	0.17	mg/Kg		01/15/19 11:11	01/16/19 15:36	4
Zinc	100		3.7	1.5	mg/Kg		01/15/19 11:11	01/16/19 15:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.090		0.015	0.0022	mg/Kg		01/25/19 16:38	01/25/19 21:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DUP-81

Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.18	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Arsenic	**3.1**		2.2	0.19	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Barium	**140**		1.1	0.16	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Beryllium	**0.52**		0.22	0.071	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Cadmium	**0.031**	**J**	0.27	0.027	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Chromium	**87**		1.1	0.12	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Cobalt	**19**		0.44	0.044	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Copper	**26**		3.3	1.6	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Lead	**6.6**		1.1	0.23	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Molybdenum	**0.57**	**J**	1.1	0.14	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Nickel	**87**		1.1	0.11	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Selenium	**0.56**	**J**	2.2	0.33	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Silver	ND		0.55	0.11	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Thallium	ND		1.1	0.32	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Vanadium	**69**		1.1	0.15	mg/Kg		01/15/19 11:11	01/16/19 15:40	4
Zinc	**42**		3.3	1.4	mg/Kg		01/15/19 11:11	01/16/19 15:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.016	0.0024	mg/Kg		01/25/19 16:38	01/25/19 21:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.0**		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-T12S-0.5-1

Date Collected: 01/14/19 12:55
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	33		1.9	0.32	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Arsenic	9.3		3.9	0.33	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Barium	220		1.9	0.28	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Beryllium	0.24	J	0.39	0.13	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Cadmium	1.5		0.49	0.048	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Chromium	52		1.9	0.21	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Cobalt	9.6		0.78	0.078	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Copper	4600		5.8	2.8	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Lead	1100		1.9	0.41	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Molybdenum	2.7		1.9	0.25	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Nickel	69		1.9	0.20	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Selenium	1.6	J	3.9	0.58	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Silver	3.1		0.97	0.20	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Thallium	ND		1.9	0.56	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Vanadium	53		1.9	0.26	mg/Kg		01/15/19 11:11	01/16/19 15:45	4
Zinc	550		5.8	2.5	mg/Kg		01/15/19 11:11	01/16/19 15:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.016	0.0023	mg/Kg		01/25/19 16:38	01/25/19 21:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-T12S-3.5-4

Date Collected: 01/14/19 12:55
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.9	0.32	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Arsenic	8.1		3.9	0.33	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Barium	160		1.9	0.28	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Beryllium	0.47		0.39	0.13	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Cadmium	0.45	J	0.49	0.048	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Chromium	95		1.9	0.21	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Cobalt	15		0.78	0.078	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Copper	150		5.8	2.8	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Lead	91		1.9	0.41	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Molybdenum	0.85	J	1.9	0.25	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Nickel	130		1.9	0.20	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Selenium	ND		3.9	0.58	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Silver	ND		0.97	0.20	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Thallium	ND		1.9	0.56	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Vanadium	64		1.9	0.26	mg/Kg		01/15/19 11:11	01/16/19 15:50	4
Zinc	420		5.8	2.5	mg/Kg		01/15/19 11:11	01/16/19 15:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.5		0.066	0.0097	mg/Kg		01/25/19 16:38	01/26/19 10:19	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-V10S-0.5-1

Date Collected: 01/14/19 13:45
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.7	0.28	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Arsenic	3.0	J	3.3	0.28	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Barium	58		1.7	0.24	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Beryllium	0.22	J	0.33	0.11	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Cadmium	0.52		0.42	0.041	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Chromium	16		1.7	0.18	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Cobalt	11		0.67	0.067	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Copper	170		5.0	2.4	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Lead	93		1.7	0.35	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Molybdenum	1.4	J	1.7	0.21	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Nickel	11		1.7	0.17	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Selenium	1.5	J	3.3	0.50	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Silver	ND		0.83	0.17	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Thallium	ND		1.7	0.48	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Vanadium	110		1.7	0.23	mg/Kg		01/15/19 11:11	01/16/19 15:55	4
Zinc	190		5.0	2.1	mg/Kg		01/15/19 11:11	01/16/19 15:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0021	mg/Kg		01/25/19 16:38	01/25/19 22:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-V10S-3.5-4

Date Collected: 01/14/19 13:45
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12		2.8	0.46	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Arsenic	22		5.6	0.47	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Barium	84		1.1	0.16	mg/Kg		01/15/19 11:11	01/16/19 15:59	4
Beryllium	0.36		0.22	0.072	mg/Kg		01/15/19 11:11	01/16/19 15:59	4
Cadmium	0.60	J	0.69	0.069	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Chromium	22		2.8	0.29	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Cobalt	13		1.1	0.11	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Copper	590		8.3	4.0	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Lead	950		2.8	0.58	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Molybdenum	3.3		1.1	0.14	mg/Kg		01/15/19 11:11	01/16/19 15:59	4
Nickel	94		2.8	0.28	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Selenium	3.7	J	5.6	0.83	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Silver	ND		1.4	0.28	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Thallium	ND		2.8	0.81	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Vanadium	74		2.8	0.38	mg/Kg		01/15/19 11:11	01/21/19 11:27	10
Zinc	170		8.3	3.5	mg/Kg		01/15/19 11:11	01/21/19 11:27	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.015	0.0022	mg/Kg		01/25/19 16:38	01/25/19 22:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.6		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-U10S-0.5-1

Date Collected: 01/14/19 14:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.8	0.30	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Arsenic	2.3	J	3.6	0.30	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Barium	43		1.8	0.25	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Beryllium	0.19	J	0.36	0.12	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Cadmium	0.25	J	0.45	0.044	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Chromium	17		1.8	0.19	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Cobalt	14		0.71	0.071	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Copper	220		5.4	2.5	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Lead	170		1.8	0.38	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Molybdenum	1.1	J	1.8	0.23	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Nickel	13		1.8	0.18	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Selenium	2.2	J	3.6	0.54	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Silver	ND		0.89	0.18	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Thallium	ND		1.8	0.52	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Vanadium	110		1.8	0.24	mg/Kg		01/15/19 11:11	01/16/19 16:14	4
Zinc	130		5.4	2.3	mg/Kg		01/15/19 11:11	01/16/19 16:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.015	0.0022	mg/Kg		01/25/19 16:38	01/25/19 22:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-U10S-3.5-4

Date Collected: 01/14/19 14:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	30		1.5	0.25	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Arsenic	32		3.0	0.26	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Barium	150		1.5	0.21	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Beryllium	0.31		0.30	0.098	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Cadmium	0.76		0.38	0.037	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Chromium	27		1.5	0.16	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Cobalt	10		0.60	0.060	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Copper	1400		4.5	2.1	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Lead	1500		1.5	0.32	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Molybdenum	1.5		1.5	0.19	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Nickel	62		1.5	0.15	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Selenium	2.1	J	3.0	0.45	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Silver	0.50	J	0.75	0.15	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Thallium	ND		1.5	0.44	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Vanadium	94		1.5	0.20	mg/Kg		01/15/19 11:11	01/16/19 16:18	4
Zinc	320		4.5	1.9	mg/Kg		01/15/19 11:11	01/16/19 16:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.017	0.0025	mg/Kg		01/25/19 16:38	01/25/19 22:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.4		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-T10S-0.5-1

Date Collected: 01/14/19 14:10
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.6	0.26	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Arsenic	32		3.2	0.27	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Barium	61		1.6	0.23	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Beryllium	0.21	J	0.32	0.10	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Cadmium	ND		0.40	0.039	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Chromium	14		1.6	0.17	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Cobalt	13		0.63	0.063	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Copper	190		4.8	2.3	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Lead	44		1.6	0.33	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Molybdenum	0.45	J	1.6	0.20	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Nickel	11		1.6	0.16	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Selenium	0.99	J	3.2	0.48	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Silver	ND		0.79	0.16	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Thallium	ND		1.6	0.46	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Vanadium	120		1.6	0.22	mg/Kg		01/15/19 11:11	01/16/19 16:23	4
Zinc	50		4.8	2.0	mg/Kg		01/15/19 11:11	01/16/19 16:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.015	0.0022	mg/Kg		01/25/19 16:38	01/25/19 22:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.05	%			01/15/19 11:31	1

Client Sample ID: DG-T10S-3.5-4

Date Collected: 01/14/19 14:10
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-38

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.0	0.17	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Arsenic	110		2.0	0.17	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Barium	79		1.0	0.14	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Beryllium	0.70		0.20	0.065	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Cadmium	0.18	J	0.25	0.025	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Chromium	120		1.0	0.11	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Cobalt	20		0.40	0.040	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Copper	67		3.0	1.4	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Lead	27		1.0	0.21	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Molybdenum	0.60	J	1.0	0.13	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Nickel	150		1.0	0.10	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Selenium	1.7	J	2.0	0.30	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Silver	ND		0.50	0.10	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Thallium	ND		1.0	0.29	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Vanadium	56		1.0	0.14	mg/Kg		01/15/19 11:11	01/16/19 16:28	4
Zinc	84		3.0	1.3	mg/Kg		01/15/19 11:11	01/16/19 16:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.71		0.015	0.0022	mg/Kg		01/25/19 16:38	01/25/19 22:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-S10S-0.5-1

Date Collected: 01/14/19 14:20
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-39

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.3	0.22	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Arsenic	5.0		2.7	0.23	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Barium	12		1.3	0.19	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Beryllium	0.093	J	0.27	0.087	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Cadmium	0.12	J	0.33	0.033	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Chromium	8.9		1.3	0.14	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Cobalt	1.6		0.53	0.053	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Copper	32		4.0	1.9	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Lead	110		1.3	0.28	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Molybdenum	1.1	J	1.3	0.17	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Nickel	9.5		1.3	0.14	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Selenium	0.59	J	2.7	0.40	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Silver	ND		0.67	0.13	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Thallium	ND		1.3	0.39	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Vanadium	5.4		1.3	0.18	mg/Kg		01/15/19 11:11	01/16/19 16:32	4
Zinc	27		4.0	1.7	mg/Kg		01/15/19 11:11	01/16/19 16:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.015	0.0022	mg/Kg		01/25/19 16:38	01/25/19 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.0		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-S10S-3.5-4

Date Collected: 01/14/19 14:20
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-40

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.2		1.9	0.31	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Arsenic	8.5		3.8	0.32	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Barium	68		1.9	0.27	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Beryllium	0.12	J	0.38	0.12	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Cadmium	1.3		0.47	0.047	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Chromium	24		1.9	0.20	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Cobalt	4.8		0.75	0.075	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Copper	340		5.7	2.7	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Lead	820		1.9	0.40	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Molybdenum	1.0	J	1.9	0.24	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Nickel	30		1.9	0.19	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Selenium	ND		3.8	0.57	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Silver	ND		0.94	0.19	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Thallium	ND		1.9	0.55	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Vanadium	20		1.9	0.26	mg/Kg		01/15/19 11:11	01/16/19 16:37	4
Zinc	480		5.7	2.4	mg/Kg		01/15/19 11:11	01/16/19 16:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.016	0.0023	mg/Kg		01/25/19 16:38	01/25/19 22:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.4		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-Q10S-0.5-1

Date Collected: 01/14/19 15:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-41

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.8	0.47	mg/Kg		01/15/19 11:15	01/22/19 11:26	10
Arsenic	**6.6**	**B**	2.3	0.19	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Barium	**73**	**B**	1.1	0.16	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Beryllium	**0.33**		0.23	0.073	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Cadmium	**0.20**	**J**	0.28	0.028	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Chromium	**9.1**		1.1	0.12	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Cobalt	**5.9**		0.45	0.045	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Copper	**52**		8.5	4.0	mg/Kg		01/15/19 11:15	01/22/19 11:26	10
Lead	**58**		1.1	0.24	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Molybdenum	**0.49**	**J**	1.1	0.14	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Nickel	**9.4**		2.8	0.29	mg/Kg		01/15/19 11:15	01/22/19 11:26	10
Selenium	ND		5.6	0.85	mg/Kg		01/15/19 11:15	01/22/19 11:26	10
Silver	ND		0.56	0.11	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Thallium	**1.1**	**J**	2.8	0.82	mg/Kg		01/15/19 11:15	01/22/19 11:26	10
Vanadium	**41**		1.1	0.15	mg/Kg		01/15/19 11:15	01/21/19 19:10	4
Zinc	**49**		3.4	1.4	mg/Kg		01/15/19 11:15	01/21/19 19:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.015	0.0022	mg/Kg		01/24/19 10:35	01/24/19 19:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-Q10S-3.5-4

Date Collected: 01/14/19 15:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-42

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3		1.0	0.17	mg/Kg		01/15/19 11:15	01/22/19 11:31	4
Arsenic	2.3	B	2.0	0.17	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Barium	110	B	1.0	0.14	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Beryllium	0.83		0.20	0.065	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Cadmium	0.085	J	0.25	0.025	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Chromium	83		1.0	0.11	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Cobalt	22		0.40	0.040	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Copper	9.4		3.0	1.4	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Lead	4.9		1.0	0.21	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Molybdenum	0.55	J	1.0	0.13	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Nickel	45		1.0	0.10	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Selenium	0.74	J	2.0	0.30	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Silver	ND		0.50	0.10	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Thallium	ND		1.0	0.29	mg/Kg		01/15/19 11:15	01/22/19 11:31	4
Vanadium	50		1.0	0.14	mg/Kg		01/15/19 11:15	01/21/19 19:14	4
Zinc	29		3.0	1.3	mg/Kg		01/15/19 11:15	01/21/19 19:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.015	0.0022	mg/Kg		01/24/19 10:35	01/24/19 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.0		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-P10S-0.5-1

Date Collected: 01/14/19 15:15
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-43

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.6	0.26	mg/Kg		01/15/19 11:15	01/22/19 11:36	4
Arsenic	5.7	B	3.1	0.27	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Barium	81	B	1.6	0.22	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Beryllium	0.72		0.31	0.10	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Cadmium	0.59		0.39	0.039	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Chromium	40		1.6	0.17	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Cobalt	8.0		0.63	0.063	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Copper	110		4.7	2.2	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Lead	300		1.6	0.33	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Molybdenum	0.59	J	1.6	0.20	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Nickel	31		1.6	0.16	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Selenium	ND		3.1	0.47	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Silver	ND		0.79	0.16	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Thallium	ND		1.6	0.46	mg/Kg		01/15/19 11:15	01/22/19 11:36	4
Vanadium	72		1.6	0.21	mg/Kg		01/15/19 11:15	01/21/19 19:19	4
Zinc	130		4.7	2.0	mg/Kg		01/15/19 11:15	01/21/19 19:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.089		0.016	0.0023	mg/Kg		01/24/19 10:35	01/24/19 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-P10S-3.5-4

Date Collected: 01/14/19 15:15
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-44

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.6	0.26	mg/Kg		01/15/19 11:15	01/22/19 11:41	4
Arsenic	2.1	J B	3.1	0.26	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Barium	78	B	1.6	0.22	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Beryllium	0.27	J	0.31	0.10	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Cadmium	0.10	J	0.39	0.038	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Chromium	46		1.6	0.16	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Cobalt	8.5		0.62	0.062	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Copper	7.9		4.7	2.2	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Lead	11		1.6	0.33	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Molybdenum	0.47	J	1.6	0.20	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Nickel	37		1.6	0.16	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Selenium	1.3	J	3.1	0.47	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Silver	ND		0.78	0.16	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Thallium	ND		1.6	0.45	mg/Kg		01/15/19 11:15	01/22/19 11:41	4
Vanadium	47		1.6	0.21	mg/Kg		01/15/19 11:15	01/21/19 19:24	4
Zinc	43		4.7	2.0	mg/Kg		01/15/19 11:15	01/21/19 19:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.016	0.0024	mg/Kg		01/24/19 10:35	01/24/19 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-O10S-0.5-1

Date Collected: 01/14/19 15:25
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-45

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2500		5.2	0.87	mg/Kg		01/15/19 11:15	01/22/19 11:55	20
Arsenic	97	B	2.1	0.18	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Barium	92	B	1.0	0.15	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Beryllium	0.45		0.21	0.068	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Cadmium	2.0		0.26	0.026	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Chromium	25		1.0	0.11	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Cobalt	7.6		0.42	0.042	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Copper	1800		3.1	1.5	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Lead	17000	^	5.2	1.1	mg/Kg		01/15/19 11:15	01/22/19 11:55	20
Molybdenum	2.2		1.0	0.13	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Nickel	35		1.0	0.11	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Selenium	1.8	J	2.1	0.31	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Silver	6.3		0.52	0.11	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Thallium	ND		5.2	1.5	mg/Kg		01/15/19 11:15	01/22/19 11:55	20
Vanadium	22		1.0	0.14	mg/Kg		01/15/19 11:15	01/21/19 19:29	4
Zinc	600		16	6.6	mg/Kg		01/15/19 11:15	01/22/19 11:55	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		01/24/19 10:35	01/24/19 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DUP-67

Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-46

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4300		5.9	0.98	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Arsenic	57	B	12	1.0	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Barium	24	B	1.2	0.17	mg/Kg		01/15/19 11:15	01/21/19 19:33	4
Beryllium	0.50		0.24	0.076	mg/Kg		01/15/19 11:15	01/21/19 19:33	4
Cadmium	4.8		1.5	0.15	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Chromium	50		5.9	0.62	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Cobalt	13		2.4	0.24	mg/Kg		01/15/19 11:15	01/23/19 10:54	20
Copper	1300		18	8.4	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Lead	14000	^	5.9	1.2	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Molybdenum	5.2		1.2	0.15	mg/Kg		01/15/19 11:15	01/21/19 19:33	4
Nickel	77		5.9	0.60	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Selenium	10	J	12	1.8	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Silver	8.2		2.9	0.59	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Thallium	ND		5.9	1.7	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Vanadium	12		5.9	0.80	mg/Kg		01/15/19 11:15	01/22/19 12:00	20
Zinc	2800		18	7.5	mg/Kg		01/15/19 11:15	01/22/19 12:00	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.017	0.0025	mg/Kg		01/24/19 10:35	01/24/19 20:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-O10S-3.5-4

Date Collected: 01/14/19 15:25
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-47

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.5	F1	1.3	0.22	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Arsenic	13	B	2.7	0.23	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Barium	100	B F1	1.3	0.19	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Beryllium	0.90		0.27	0.087	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Cadmium	0.64		0.33	0.033	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Chromium	44		1.3	0.14	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Cobalt	15		0.53	0.053	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Copper	640	F2	4.0	1.9	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Lead	180		1.3	0.28	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Molybdenum	0.47	J	1.3	0.17	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Nickel	48	F1	1.3	0.14	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Selenium	2.4	J	2.7	0.40	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Silver	ND		0.67	0.13	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Thallium	ND		1.3	0.39	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Vanadium	49	F1	1.3	0.18	mg/Kg		01/15/19 11:15	01/22/19 11:22	4
Zinc	300		4.0	1.7	mg/Kg		01/15/19 11:15	01/22/19 11:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.016	0.0024	mg/Kg		01/24/19 10:35	01/24/19 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.2		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-N10S-0.5-1
Date Collected: 01/14/19 15:45
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-48
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	17		1.6	0.26	mg/Kg		01/15/19 11:15	01/22/19 12:04	4
Arsenic	18	B	3.2	0.27	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Barium	120	B	1.6	0.23	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Beryllium	0.99		0.32	0.10	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Cadmium	1.0		0.40	0.039	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Chromium	27		1.6	0.17	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Cobalt	11		0.63	0.063	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Copper	3600		4.8	2.3	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Lead	1700		1.6	0.33	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Molybdenum	2.4		1.6	0.20	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Nickel	59		1.6	0.16	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Selenium	3.1	J	3.2	0.48	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Silver	0.37	J	0.79	0.16	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Thallium	ND		1.6	0.46	mg/Kg		01/15/19 11:15	01/22/19 12:04	4
Vanadium	56		1.6	0.22	mg/Kg		01/15/19 11:15	01/21/19 19:48	4
Zinc	390		4.8	2.0	mg/Kg		01/15/19 11:15	01/21/19 19:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.0		0.063	0.0092	mg/Kg		01/24/19 10:35	01/25/19 09:38	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			01/15/19 12:04	1

Client Sample ID: DG-N10S-3.5-4

Date Collected: 01/14/19 15:45
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-49

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.0		1.1	0.18	mg/Kg		01/15/19 11:15	01/22/19 12:09	4
Arsenic	4.8	B	2.2	0.19	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Barium	43	B	1.1	0.16	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Beryllium	0.23		0.22	0.071	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Cadmium	0.21	J	0.27	0.027	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Chromium	11		1.1	0.12	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Cobalt	3.1		0.44	0.044	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Copper	66		3.3	1.6	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Lead	240		1.1	0.23	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Molybdenum	0.63	J	1.1	0.14	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Nickel	12		1.1	0.11	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Selenium	0.43	J	2.2	0.33	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Silver	ND		0.55	0.11	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Thallium	0.44	J	1.1	0.32	mg/Kg		01/15/19 11:15	01/22/19 12:09	4
Vanadium	14		1.1	0.15	mg/Kg		01/15/19 11:15	01/21/19 19:52	4
Zinc	64		3.3	1.4	mg/Kg		01/15/19 11:15	01/21/19 19:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.017	0.0025	mg/Kg		01/24/19 10:35	01/24/19 20:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.5		0.1	0.05	%			01/15/19 12:04	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258529/1-A
Matrix: Solid
Analysis Batch: 258654

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Arsenic	ND		1.0	0.085	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Barium	ND		0.50	0.071	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Beryllium	ND		0.10	0.033	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Cadmium	ND		0.13	0.012	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Chromium	0.0698	J	0.50	0.053	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Cobalt	ND		0.20	0.020	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Copper	ND		1.5	0.71	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Lead	ND		0.50	0.11	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Nickel	ND		0.50	0.051	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Selenium	ND		1.0	0.15	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Silver	ND		0.25	0.051	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Thallium	ND		0.50	0.15	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Vanadium	ND		0.50	0.068	mg/Kg		01/15/19 10:16	01/16/19 13:21	1
Zinc	ND		1.5	0.64	mg/Kg		01/15/19 10:16	01/16/19 13:21	1

Lab Sample ID: LCS 720-258529/2-A
Matrix: Solid
Analysis Batch: 258654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	52.5		mg/Kg		105	80 - 120
Arsenic	50.0	52.4		mg/Kg		105	80 - 120
Barium	50.0	53.3		mg/Kg		107	80 - 120
Beryllium	50.0	53.3		mg/Kg		107	80 - 120
Cadmium	50.0	51.3		mg/Kg		103	80 - 120
Chromium	50.0	53.1		mg/Kg		106	80 - 120
Cobalt	50.0	52.2		mg/Kg		104	80 - 120
Copper	50.0	53.5		mg/Kg		107	80 - 120
Lead	50.0	53.1		mg/Kg		106	80 - 120
Molybdenum	50.0	53.2		mg/Kg		106	80 - 120
Nickel	50.0	51.8		mg/Kg		104	80 - 120
Selenium	50.0	50.7		mg/Kg		101	80 - 120
Silver	25.0	24.7		mg/Kg		99	80 - 120
Thallium	50.0	53.1		mg/Kg		106	80 - 120
Vanadium	50.0	52.9		mg/Kg		106	80 - 120
Zinc	50.0	52.3		mg/Kg		105	80 - 120

Lab Sample ID: 720-90759-19 MS
Matrix: Solid
Analysis Batch: 258654

Client Sample ID: DG-N12S-0.5-1
Prep Type: Total/NA
Prep Batch: 258529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.4	F1	35.2	15.9	F1	mg/Kg		35	75 - 125
Arsenic	89	F1	35.2	150	F1	mg/Kg		171	75 - 125
Barium	80	F1	35.2	165	F1	mg/Kg		242	75 - 125
Beryllium	0.25	J F1	35.2	46.8	F1	mg/Kg		132	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90759-19 MS
Matrix: Solid
Analysis Batch: 258654

Client Sample ID: DG-N12S-0.5-1
Prep Type: Total/NA
Prep Batch: 258529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.43	F1	35.2	43.0		mg/Kg		121	75 - 125
Chromium	14	F1 B	35.2	61.6	F1	mg/Kg		134	75 - 125
Cobalt	13	F1	35.2	56.4		mg/Kg		123	75 - 125
Copper	140	F1	35.2	224	F1	mg/Kg		246	75 - 125
Lead	470	^ F2	35.2	526	4	mg/Kg		173	75 - 125
Molybdenum	0.48	J	35.2	41.6		mg/Kg		117	75 - 125
Nickel	12	F1 F2	35.2	55.2		mg/Kg		124	75 - 125
Selenium	1.1	J	35.2	43.8		mg/Kg		121	75 - 125
Silver	ND	F1	17.6	21.5		mg/Kg		122	75 - 125
Thallium	1.1	J	35.2	42.4		mg/Kg		117	75 - 125
Vanadium	79	F1	35.2	142	F1	mg/Kg		181	75 - 125
Zinc	250	F2	35.2	333	4	mg/Kg		230	75 - 125

Lab Sample ID: 720-90759-19 MSD
Matrix: Solid
Analysis Batch: 258654

Client Sample ID: DG-N12S-0.5-1
Prep Type: Total/NA
Prep Batch: 258529

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.4	F1	35.7	16.0	F1	mg/Kg		35	75 - 125	1	20
Arsenic	89	F1	35.7	173	F1	mg/Kg		234	75 - 125	14	20
Barium	80	F1	35.7	158	F1	mg/Kg		217	75 - 125	5	20
Beryllium	0.25	J F1	35.7	49.7	F1	mg/Kg		138	75 - 125	6	20
Cadmium	0.43	F1	35.7	46.2	F1	mg/Kg		128	75 - 125	7	20
Chromium	14	F1 B	35.7	71.2	F1	mg/Kg		159	75 - 125	14	20
Cobalt	13	F1	35.7	62.9	F1	mg/Kg		140	75 - 125	11	20
Copper	140	F1	35.7	237	F1	mg/Kg		277	75 - 125	5	20
Lead	470	^ F2	35.7	828	4 F2	mg/Kg		1015	75 - 125	45	20
Molybdenum	0.48	J	35.7	44.1		mg/Kg		122	75 - 125	6	20
Nickel	12	F1 F2	35.7	72.1	F1 F2	mg/Kg		170	75 - 125	27	20
Selenium	1.1	J	35.7	45.4		mg/Kg		124	75 - 125	4	20
Silver	ND	F1	17.9	22.9	F1	mg/Kg		128	75 - 125	6	20
Thallium	1.1	J	35.7	44.6		mg/Kg		122	75 - 125	5	20
Vanadium	79	F1	35.7	149	F1	mg/Kg		197	75 - 125	5	20
Zinc	250	F2	35.7	424	4 F2	mg/Kg		482	75 - 125	24	20

Lab Sample ID: MB 720-258540/1-A
Matrix: Solid
Analysis Batch: 258866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Arsenic	ND		1.0	0.085	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Barium	ND		0.50	0.071	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Beryllium	ND		0.10	0.033	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Cadmium	ND		0.13	0.012	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Chromium	ND		0.50	0.053	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Cobalt	ND		0.20	0.020	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Copper	ND		1.5	0.71	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Lead	ND		0.50	0.11	mg/Kg		01/15/19 11:11	01/21/19 11:13	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-258540/1-A
Matrix: Solid
Analysis Batch: 258866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Nickel	ND		0.50	0.051	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Selenium	ND		1.0	0.15	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Silver	ND		0.25	0.051	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Thallium	ND		0.50	0.15	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Vanadium	ND		0.50	0.068	mg/Kg		01/15/19 11:11	01/21/19 11:13	1
Zinc	ND		1.5	0.64	mg/Kg		01/15/19 11:11	01/21/19 11:13	1

Lab Sample ID: LCS 720-258540/2-A
Matrix: Solid
Analysis Batch: 258866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.2		mg/Kg		100	80 - 120
Arsenic	50.0	50.4		mg/Kg		101	80 - 120
Barium	50.0	50.3		mg/Kg		101	80 - 120
Beryllium	50.0	51.0		mg/Kg		102	80 - 120
Cadmium	50.0	50.1		mg/Kg		100	80 - 120
Chromium	50.0	49.8		mg/Kg		100	80 - 120
Cobalt	50.0	51.1		mg/Kg		102	80 - 120
Copper	50.0	49.6		mg/Kg		99	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Molybdenum	50.0	51.7		mg/Kg		103	80 - 120
Nickel	50.0	50.5		mg/Kg		101	80 - 120
Selenium	50.0	49.8		mg/Kg		100	80 - 120
Silver	25.0	23.3		mg/Kg		93	80 - 120
Thallium	50.0	50.0		mg/Kg		100	80 - 120
Vanadium	50.0	49.6		mg/Kg		99	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Lab Sample ID: 720-90759-21 MS
Matrix: Solid
Analysis Batch: 258658

Client Sample ID: DUP-80
Prep Type: Total/NA
Prep Batch: 258540

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.8	F1	36.5	15.5	F1	mg/Kg		38	75 - 125
Arsenic	13	F1	36.5	61.7	F1	mg/Kg		133	75 - 125
Barium	25	F1	36.5	74.1	F1	mg/Kg		136	75 - 125
Beryllium	0.68	F1	36.5	50.3	F1	mg/Kg		136	75 - 125
Cadmium	0.13	J	36.5	45.4		mg/Kg		124	75 - 125
Chromium	37	F1	36.5	89.3	F1	mg/Kg		142	75 - 125
Cobalt	15		36.5	58.5		mg/Kg		120	75 - 125
Copper	53	F1	36.5	102	F1	mg/Kg		133	75 - 125
Lead	22	F1	36.5	66.3		mg/Kg		121	75 - 125
Molybdenum	2.7		36.5	47.0		mg/Kg		121	75 - 125
Nickel	28	F1	36.5	75.8	F1	mg/Kg		130	75 - 125
Selenium	0.77	J	36.5	46.0		mg/Kg		124	75 - 125
Silver	ND	F1	18.2	23.0	F1	mg/Kg		126	75 - 125
Thallium	ND	F1	36.5	46.2	F1	mg/Kg		126	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90759-21 MS
Matrix: Solid
Analysis Batch: 258658

Client Sample ID: DUP-80
Prep Type: Total/NA
Prep Batch: 258540

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	57	F1	36.5	117	F1	mg/Kg		164	75 - 125
Zinc	66	F1	36.5	122	F1	mg/Kg		154	75 - 125

Lab Sample ID: 720-90759-21 MSD
Matrix: Solid
Analysis Batch: 258658

Client Sample ID: DUP-80
Prep Type: Total/NA
Prep Batch: 258540

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.8	F1	36.5	13.2	F1	mg/Kg		31	75 - 125	16	20
Arsenic	13	F1	36.5	60.8	F1	mg/Kg		130	75 - 125	1	20
Barium	25	F1	36.5	77.8	F1	mg/Kg		146	75 - 125	5	20
Beryllium	0.68	F1	36.5	49.2	F1	mg/Kg		133	75 - 125	2	20
Cadmium	0.13	J	36.5	43.1		mg/Kg		118	75 - 125	5	20
Chromium	37	F1	36.5	83.9	F1	mg/Kg		127	75 - 125	6	20
Cobalt	15		36.5	58.1		mg/Kg		118	75 - 125	1	20
Copper	53	F1	36.5	115	F1	mg/Kg		169	75 - 125	12	20
Lead	22	F1	36.5	68.7	F1	mg/Kg		127	75 - 125	4	20
Molybdenum	2.7		36.5	44.7		mg/Kg		115	75 - 125	5	20
Nickel	28	F1	36.5	69.8		mg/Kg		114	75 - 125	8	20
Selenium	0.77	J	36.5	44.2		mg/Kg		119	75 - 125	4	20
Silver	ND	F1	18.2	22.1		mg/Kg		121	75 - 125	4	20
Thallium	ND	F1	36.5	43.9		mg/Kg		120	75 - 125	5	20
Vanadium	57	F1	36.5	118	F1	mg/Kg		167	75 - 125	1	20
Zinc	66	F1	36.5	121	F1	mg/Kg		151	75 - 125	1	20

Lab Sample ID: MB 720-258547/1-A
Matrix: Solid
Analysis Batch: 258961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Arsenic	0.0900	J	1.0	0.085	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Barium	0.0841	J	0.50	0.071	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Beryllium	ND		0.10	0.033	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Cadmium	ND		0.13	0.012	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Chromium	ND		0.50	0.053	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Cobalt	ND		0.20	0.020	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Copper	ND		1.5	0.71	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Lead	ND		0.50	0.11	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Nickel	ND		0.50	0.051	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Selenium	ND		1.0	0.15	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Silver	ND		0.25	0.051	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Thallium	ND		0.50	0.15	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Vanadium	ND		0.50	0.068	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Zinc	ND		1.5	0.64	mg/Kg		01/15/19 11:15	01/22/19 10:58	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-258547/2-A
Matrix: Solid
Analysis Batch: 258926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.6		mg/Kg		103	80 - 120
Arsenic	50.0	51.0		mg/Kg		102	80 - 120
Barium	50.0	48.0		mg/Kg		96	80 - 120
Beryllium	50.0	47.3		mg/Kg		95	80 - 120
Cadmium	50.0	51.0		mg/Kg		102	80 - 120
Chromium	50.0	51.0		mg/Kg		102	80 - 120
Cobalt	50.0	51.8		mg/Kg		104	80 - 120
Copper	50.0	51.2		mg/Kg		102	80 - 120
Lead	50.0	52.5		mg/Kg		105	80 - 120
Molybdenum	50.0	52.5		mg/Kg		105	80 - 120
Nickel	50.0	51.7		mg/Kg		103	80 - 120
Selenium	50.0	50.3		mg/Kg		101	80 - 120
Silver	25.0	25.2		mg/Kg		101	80 - 120
Thallium	50.0	58.5		mg/Kg		117	80 - 120
Vanadium	50.0	50.9		mg/Kg		102	80 - 120
Zinc	50.0	51.4		mg/Kg		103	80 - 120

Lab Sample ID: 720-90759-47 MS
Matrix: Solid
Analysis Batch: 258961

Client Sample ID: DG-O10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.5	F1	33.3	12.6	F1	mg/Kg		24	75 - 125
Arsenic	13	B	33.3	42.3		mg/Kg		87	75 - 125
Barium	100	B F1	33.3	117	F1	mg/Kg		46	75 - 125
Beryllium	0.90		33.3	31.4		mg/Kg		92	75 - 125
Cadmium	0.64		33.3	30.2		mg/Kg		89	75 - 125
Chromium	44		33.3	71.2		mg/Kg		81	75 - 125
Cobalt	15		33.3	40.9		mg/Kg		78	75 - 125
Copper	640	F2	33.3	967	4	mg/Kg		977	75 - 125
Lead	180		33.3	276	4	mg/Kg		290	75 - 125
Molybdenum	0.47	J	33.3	28.8		mg/Kg		85	75 - 125
Nickel	48	F1	33.3	72.3	F1	mg/Kg		74	75 - 125
Selenium	2.4	J	33.3	30.3		mg/Kg		84	75 - 125
Silver	ND		16.7	14.9		mg/Kg		90	75 - 125
Thallium	ND		33.3	28.6		mg/Kg		86	75 - 125
Vanadium	49	F1	33.3	69.6	F1	mg/Kg		61	75 - 125
Zinc	300		33.3	318	4	mg/Kg		65	75 - 125

Lab Sample ID: 720-90759-47 MSD
Matrix: Solid
Analysis Batch: 258961

Client Sample ID: DG-O10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.5	F1	33.1	14.0	F1	mg/Kg		29	75 - 125	11	20
Arsenic	13	B	33.1	44.5		mg/Kg		94	75 - 125	5	20
Barium	100	B F1	33.1	136		mg/Kg		102	75 - 125	15	20
Beryllium	0.90		33.1	35.9		mg/Kg		106	75 - 125	13	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90759-47 MSD
Matrix: Solid
Analysis Batch: 258961

Client Sample ID: DG-O10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.64		33.1	31.4		mg/Kg		93	75 - 125	4	20
Chromium	44		33.1	85.7		mg/Kg		125	75 - 125	18	20
Cobalt	15		33.1	44.7		mg/Kg		90	75 - 125	9	20
Copper	640	F2	33.1	1480	4 F2	mg/Kg		2541	75 - 125	42	20
Lead	180		33.1	290	4	mg/Kg		335	75 - 125	5	20
Molybdenum	0.47	J	33.1	30.9		mg/Kg		92	75 - 125	7	20
Nickel	48	F1	33.1	78.3		mg/Kg		93	75 - 125	8	20
Selenium	2.4	J	33.1	32.4		mg/Kg		91	75 - 125	7	20
Silver	ND		16.6	16.3		mg/Kg		98	75 - 125	9	20
Thallium	ND		33.1	30.1		mg/Kg		91	75 - 125	5	20
Vanadium	49	F1	33.1	80.0		mg/Kg		93	75 - 125	14	20
Zinc	300		33.1	337	4	mg/Kg		122	75 - 125	6	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-258530/1-A
Matrix: Solid
Analysis Batch: 259292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/25/19 15:45	01/25/19 20:10	1

Lab Sample ID: LCS 720-258530/2-A
Matrix: Solid
Analysis Batch: 259292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.818		mg/Kg		98	80 - 120

Lab Sample ID: 720-90759-19 MS
Matrix: Solid
Analysis Batch: 259292

Client Sample ID: DG-N12S-0.5-1
Prep Type: Total/NA
Prep Batch: 258530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.11	F1	0.758	0.914		mg/Kg		106	75 - 125

Lab Sample ID: 720-90759-19 MSD
Matrix: Solid
Analysis Batch: 259292

Client Sample ID: DG-N12S-0.5-1
Prep Type: Total/NA
Prep Batch: 258530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.11	F1	0.781	1.12	F1	mg/Kg		128	75 - 125	20	20

Lab Sample ID: MB 720-258541/1-A
Matrix: Solid
Analysis Batch: 259293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/25/19 16:38	01/25/19 21:17	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-258541/2-A
Matrix: Solid
Analysis Batch: 259293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258541

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.819		mg/Kg		98	80 - 120		

Lab Sample ID: 720-90759-21 MS
Matrix: Solid
Analysis Batch: 259293

Client Sample ID: DUP-80
Prep Type: Total/NA
Prep Batch: 258541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.087		0.806	0.856		mg/Kg		95	75 - 125		

Lab Sample ID: 720-90759-21 MSD
Matrix: Solid
Analysis Batch: 259293

Client Sample ID: DUP-80
Prep Type: Total/NA
Prep Batch: 258541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.087		0.794	0.844		mg/Kg		95	75 - 125	1	20

Lab Sample ID: MB 720-258548/1-A
Matrix: Solid
Analysis Batch: 259219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/24/19 10:35	01/24/19 19:34	1

Lab Sample ID: LCS 720-258548/2-A
Matrix: Solid
Analysis Batch: 259219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258548

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.843		mg/Kg		101	80 - 120		

Lab Sample ID: 720-90759-47 MS
Matrix: Solid
Analysis Batch: 259219

Client Sample ID: DG-O10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.19		0.806	0.989		mg/Kg		100	75 - 125		

Lab Sample ID: 720-90759-47 MSD
Matrix: Solid
Analysis Batch: 259219

Client Sample ID: DG-O10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19		0.833	1.01		mg/Kg		99	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90759-1 DU
Matrix: Solid
Analysis Batch: 258545

Client Sample ID: DG-Q16S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	8.6			10.4		%				19	20

Lab Sample ID: 720-90759-19 DU
Matrix: Solid
Analysis Batch: 258550

Client Sample ID: DG-N12S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.2			8.6		%				18	20

Lab Sample ID: 720-90759-38 DU
Matrix: Solid
Analysis Batch: 258551

Client Sample ID: DG-T10S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.7			12.9		%				2	20

Metals

Prep Batch: 258529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-1	DG-Q16S-0.5-1	Total/NA	Solid	3050B	
720-90759-2	DG-Q16S-3.5-4	Total/NA	Solid	3050B	
720-90759-3	DG-S16S-0.5-1	Total/NA	Solid	3050B	
720-90759-4	DUP-114	Total/NA	Solid	3050B	
720-90759-5	DG-S16S-3.5-4	Total/NA	Solid	3050B	
720-90759-6	DG-T14S-0.5-1	Total/NA	Solid	3050B	
720-90759-7	DG-T14S-3.5-4	Total/NA	Solid	3050B	
720-90759-8	DG-S14S-0.5-1	Total/NA	Solid	3050B	
720-90759-9	DG-S14S-3.5-4	Total/NA	Solid	3050B	
720-90759-10	DG-Q14S-0.5-1	Total/NA	Solid	3050B	
720-90759-11	DG-Q14S-3.5-4	Total/NA	Solid	3050B	
720-90759-12	DG-P14S-0.5-1	Total/NA	Solid	3050B	
720-90759-13	DG-P14S-3.5-4	Total/NA	Solid	3050B	
720-90759-14	DUP-97	Total/NA	Solid	3050B	
720-90759-15	DG-O14S-0.5-1	Total/NA	Solid	3050B	
720-90759-16	DG-O14S-3.5-4	Total/NA	Solid	3050B	
720-90759-17	DG-N14S-0.5-1	Total/NA	Solid	3050B	
720-90759-18	DG-N14S-3.5-4	Total/NA	Solid	3050B	
720-90759-19	DG-N12S-0.5-1	Total/NA	Solid	3050B	
720-90759-20	DG-N12S-3.5-4	Total/NA	Solid	3050B	
MB 720-258529/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258529/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90759-19 MS	DG-N12S-0.5-1	Total/NA	Solid	3050B	
720-90759-19 MSD	DG-N12S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 258530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-1	DG-Q16S-0.5-1	Total/NA	Solid	7471A	
720-90759-2	DG-Q16S-3.5-4	Total/NA	Solid	7471A	
720-90759-3	DG-S16S-0.5-1	Total/NA	Solid	7471A	
720-90759-4	DUP-114	Total/NA	Solid	7471A	
720-90759-5	DG-S16S-3.5-4	Total/NA	Solid	7471A	
720-90759-6	DG-T14S-0.5-1	Total/NA	Solid	7471A	
720-90759-7	DG-T14S-3.5-4	Total/NA	Solid	7471A	
720-90759-8	DG-S14S-0.5-1	Total/NA	Solid	7471A	
720-90759-9	DG-S14S-3.5-4	Total/NA	Solid	7471A	
720-90759-10	DG-Q14S-0.5-1	Total/NA	Solid	7471A	
720-90759-11	DG-Q14S-3.5-4	Total/NA	Solid	7471A	
720-90759-12	DG-P14S-0.5-1	Total/NA	Solid	7471A	
720-90759-13	DG-P14S-3.5-4	Total/NA	Solid	7471A	
720-90759-14	DUP-97	Total/NA	Solid	7471A	
720-90759-15	DG-O14S-0.5-1	Total/NA	Solid	7471A	
720-90759-16	DG-O14S-3.5-4	Total/NA	Solid	7471A	
720-90759-17	DG-N14S-0.5-1	Total/NA	Solid	7471A	
720-90759-18	DG-N14S-3.5-4	Total/NA	Solid	7471A	
720-90759-19	DG-N12S-0.5-1	Total/NA	Solid	7471A	
720-90759-20	DG-N12S-3.5-4	Total/NA	Solid	7471A	
MB 720-258530/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258530/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90759-19 MS	DG-N12S-0.5-1	Total/NA	Solid	7471A	
720-90759-19 MSD	DG-N12S-0.5-1	Total/NA	Solid	7471A	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Prep Batch: 258540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-21	DUP-80	Total/NA	Solid	3050B	
720-90759-22	DG-O12S-0.5-1	Total/NA	Solid	3050B	
720-90759-23	DG-O12S-3.5-4	Total/NA	Solid	3050B	
720-90759-24	DG-P12S-0.5-1	Total/NA	Solid	3050B	
720-90759-25	DG-P12S-3.5-4	Total/NA	Solid	3050B	
720-90759-26	DG-Q12S-0.5-1	Total/NA	Solid	3050B	
720-90759-27	DG-Q12S-3.5-4	Total/NA	Solid	3050B	
720-90759-28	DG-S12S-0.5-1	Total/NA	Solid	3050B	
720-90759-29	DG-S12S-3.5-4	Total/NA	Solid	3050B	
720-90759-30	DUP-81	Total/NA	Solid	3050B	
720-90759-31	DG-T12S-0.5-1	Total/NA	Solid	3050B	
720-90759-32	DG-T12S-3.5-4	Total/NA	Solid	3050B	
720-90759-33	DG-V10S-0.5-1	Total/NA	Solid	3050B	
720-90759-34	DG-V10S-3.5-4	Total/NA	Solid	3050B	
720-90759-35	DG-U10S-0.5-1	Total/NA	Solid	3050B	
720-90759-36	DG-U10S-3.5-4	Total/NA	Solid	3050B	
720-90759-37	DG-T10S-0.5-1	Total/NA	Solid	3050B	
720-90759-38	DG-T10S-3.5-4	Total/NA	Solid	3050B	
720-90759-39	DG-S10S-0.5-1	Total/NA	Solid	3050B	
720-90759-40	DG-S10S-3.5-4	Total/NA	Solid	3050B	
MB 720-258540/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258540/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90759-21 MS	DUP-80	Total/NA	Solid	3050B	
720-90759-21 MSD	DUP-80	Total/NA	Solid	3050B	

Prep Batch: 258541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-21	DUP-80	Total/NA	Solid	7471A	
720-90759-22	DG-O12S-0.5-1	Total/NA	Solid	7471A	
720-90759-23	DG-O12S-3.5-4	Total/NA	Solid	7471A	
720-90759-24	DG-P12S-0.5-1	Total/NA	Solid	7471A	
720-90759-25	DG-P12S-3.5-4	Total/NA	Solid	7471A	
720-90759-26	DG-Q12S-0.5-1	Total/NA	Solid	7471A	
720-90759-27	DG-Q12S-3.5-4	Total/NA	Solid	7471A	
720-90759-28	DG-S12S-0.5-1	Total/NA	Solid	7471A	
720-90759-29	DG-S12S-3.5-4	Total/NA	Solid	7471A	
720-90759-30	DUP-81	Total/NA	Solid	7471A	
720-90759-31	DG-T12S-0.5-1	Total/NA	Solid	7471A	
720-90759-32	DG-T12S-3.5-4	Total/NA	Solid	7471A	
720-90759-33	DG-V10S-0.5-1	Total/NA	Solid	7471A	
720-90759-34	DG-V10S-3.5-4	Total/NA	Solid	7471A	
720-90759-35	DG-U10S-0.5-1	Total/NA	Solid	7471A	
720-90759-36	DG-U10S-3.5-4	Total/NA	Solid	7471A	
720-90759-37	DG-T10S-0.5-1	Total/NA	Solid	7471A	
720-90759-38	DG-T10S-3.5-4	Total/NA	Solid	7471A	
720-90759-39	DG-S10S-0.5-1	Total/NA	Solid	7471A	
720-90759-40	DG-S10S-3.5-4	Total/NA	Solid	7471A	
MB 720-258541/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258541/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90759-21 MS	DUP-80	Total/NA	Solid	7471A	
720-90759-21 MSD	DUP-80	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 258547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-41	DG-Q10S-0.5-1	Total/NA	Solid	3050B	
720-90759-42	DG-Q10S-3.5-4	Total/NA	Solid	3050B	
720-90759-43	DG-P10S-0.5-1	Total/NA	Solid	3050B	
720-90759-44	DG-P10S-3.5-4	Total/NA	Solid	3050B	
720-90759-45	DG-O10S-0.5-1	Total/NA	Solid	3050B	
720-90759-46	DUP-67	Total/NA	Solid	3050B	
720-90759-47	DG-O10S-3.5-4	Total/NA	Solid	3050B	
720-90759-48	DG-N10S-0.5-1	Total/NA	Solid	3050B	
720-90759-49	DG-N10S-3.5-4	Total/NA	Solid	3050B	
MB 720-258547/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258547/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90759-47 MS	DG-O10S-3.5-4	Total/NA	Solid	3050B	
720-90759-47 MSD	DG-O10S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 258548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-41	DG-Q10S-0.5-1	Total/NA	Solid	7471A	
720-90759-42	DG-Q10S-3.5-4	Total/NA	Solid	7471A	
720-90759-43	DG-P10S-0.5-1	Total/NA	Solid	7471A	
720-90759-44	DG-P10S-3.5-4	Total/NA	Solid	7471A	
720-90759-45	DG-O10S-0.5-1	Total/NA	Solid	7471A	
720-90759-46	DUP-67	Total/NA	Solid	7471A	
720-90759-47	DG-O10S-3.5-4	Total/NA	Solid	7471A	
720-90759-48	DG-N10S-0.5-1	Total/NA	Solid	7471A	
720-90759-49	DG-N10S-3.5-4	Total/NA	Solid	7471A	
MB 720-258548/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258548/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90759-47 MS	DG-O10S-3.5-4	Total/NA	Solid	7471A	
720-90759-47 MSD	DG-O10S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 258654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-1	DG-Q16S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-2	DG-Q16S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-3	DG-S16S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-4	DUP-114	Total/NA	Solid	6010B	258529
720-90759-5	DG-S16S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-6	DG-T14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-7	DG-T14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-8	DG-S14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-9	DG-S14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-10	DG-Q14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-11	DG-Q14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-12	DG-P14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-13	DG-P14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-14	DUP-97	Total/NA	Solid	6010B	258529
720-90759-15	DG-O14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-16	DG-O14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-17	DG-N14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-18	DG-N14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-19	DG-N12S-0.5-1	Total/NA	Solid	6010B	258529

Metals (Continued)

Analysis Batch: 258654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-20	DG-N12S-3.5-4	Total/NA	Solid	6010B	258529
MB 720-258529/1-A	Method Blank	Total/NA	Solid	6010B	258529
LCS 720-258529/2-A	Lab Control Sample	Total/NA	Solid	6010B	258529
720-90759-19 MS	DG-N12S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-19 MSD	DG-N12S-0.5-1	Total/NA	Solid	6010B	258529

Analysis Batch: 258658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-21	DUP-80	Total/NA	Solid	6010B	258540
720-90759-22	DG-O12S-0.5-1	Total/NA	Solid	6010B	258540
720-90759-23	DG-O12S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-24	DG-P12S-0.5-1	Total/NA	Solid	6010B	258540
720-90759-25	DG-P12S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-26	DG-Q12S-0.5-1	Total/NA	Solid	6010B	258540
720-90759-27	DG-Q12S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-28	DG-S12S-0.5-1	Total/NA	Solid	6010B	258540
720-90759-29	DG-S12S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-30	DUP-81	Total/NA	Solid	6010B	258540
720-90759-31	DG-T12S-0.5-1	Total/NA	Solid	6010B	258540
720-90759-32	DG-T12S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-33	DG-V10S-0.5-1	Total/NA	Solid	6010B	258540
720-90759-34	DG-V10S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-35	DG-U10S-0.5-1	Total/NA	Solid	6010B	258540
720-90759-36	DG-U10S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-37	DG-T10S-0.5-1	Total/NA	Solid	6010B	258540
720-90759-38	DG-T10S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-39	DG-S10S-0.5-1	Total/NA	Solid	6010B	258540
720-90759-40	DG-S10S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-21 MS	DUP-80	Total/NA	Solid	6010B	258540
720-90759-21 MSD	DUP-80	Total/NA	Solid	6010B	258540

Analysis Batch: 258866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-23	DG-O12S-3.5-4	Total/NA	Solid	6010B	258540
720-90759-34	DG-V10S-3.5-4	Total/NA	Solid	6010B	258540
MB 720-258540/1-A	Method Blank	Total/NA	Solid	6010B	258540
LCS 720-258540/2-A	Lab Control Sample	Total/NA	Solid	6010B	258540

Analysis Batch: 258894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-2	DG-Q16S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-4	DUP-114	Total/NA	Solid	6010B	258529
720-90759-5	DG-S16S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-6	DG-T14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-7	DG-T14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-8	DG-S14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-9	DG-S14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-10	DG-Q14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-11	DG-Q14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-12	DG-P14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-13	DG-P14S-3.5-4	Total/NA	Solid	6010B	258529

Metals (Continued)

Analysis Batch: 258894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-14	DUP-97	Total/NA	Solid	6010B	258529
720-90759-15	DG-O14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-16	DG-O14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-17	DG-N14S-0.5-1	Total/NA	Solid	6010B	258529
720-90759-18	DG-N14S-3.5-4	Total/NA	Solid	6010B	258529
720-90759-20	DG-N12S-3.5-4	Total/NA	Solid	6010B	258529

Analysis Batch: 258926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-41	DG-Q10S-0.5-1	Total/NA	Solid	6010B	258547
720-90759-42	DG-Q10S-3.5-4	Total/NA	Solid	6010B	258547
720-90759-43	DG-P10S-0.5-1	Total/NA	Solid	6010B	258547
720-90759-44	DG-P10S-3.5-4	Total/NA	Solid	6010B	258547
720-90759-45	DG-O10S-0.5-1	Total/NA	Solid	6010B	258547
720-90759-46	DUP-67	Total/NA	Solid	6010B	258547
720-90759-48	DG-N10S-0.5-1	Total/NA	Solid	6010B	258547
720-90759-49	DG-N10S-3.5-4	Total/NA	Solid	6010B	258547
LCS 720-258547/2-A	Lab Control Sample	Total/NA	Solid	6010B	258547

Analysis Batch: 258961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-41	DG-Q10S-0.5-1	Total/NA	Solid	6010B	258547
720-90759-42	DG-Q10S-3.5-4	Total/NA	Solid	6010B	258547
720-90759-43	DG-P10S-0.5-1	Total/NA	Solid	6010B	258547
720-90759-44	DG-P10S-3.5-4	Total/NA	Solid	6010B	258547
720-90759-45	DG-O10S-0.5-1	Total/NA	Solid	6010B	258547
720-90759-46	DUP-67	Total/NA	Solid	6010B	258547
720-90759-47	DG-O10S-3.5-4	Total/NA	Solid	6010B	258547
720-90759-48	DG-N10S-0.5-1	Total/NA	Solid	6010B	258547
720-90759-49	DG-N10S-3.5-4	Total/NA	Solid	6010B	258547
MB 720-258547/1-A	Method Blank	Total/NA	Solid	6010B	258547
720-90759-47 MS	DG-O10S-3.5-4	Total/NA	Solid	6010B	258547
720-90759-47 MSD	DG-O10S-3.5-4	Total/NA	Solid	6010B	258547

Analysis Batch: 259044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-46	DUP-67	Total/NA	Solid	6010B	258547

Analysis Batch: 259219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-41	DG-Q10S-0.5-1	Total/NA	Solid	7471A	258548
720-90759-42	DG-Q10S-3.5-4	Total/NA	Solid	7471A	258548
720-90759-43	DG-P10S-0.5-1	Total/NA	Solid	7471A	258548
720-90759-44	DG-P10S-3.5-4	Total/NA	Solid	7471A	258548
720-90759-45	DG-O10S-0.5-1	Total/NA	Solid	7471A	258548
720-90759-46	DUP-67	Total/NA	Solid	7471A	258548
720-90759-47	DG-O10S-3.5-4	Total/NA	Solid	7471A	258548
720-90759-49	DG-N10S-3.5-4	Total/NA	Solid	7471A	258548
MB 720-258548/1-A	Method Blank	Total/NA	Solid	7471A	258548
LCS 720-258548/2-A	Lab Control Sample	Total/NA	Solid	7471A	258548
720-90759-47 MS	DG-O10S-3.5-4	Total/NA	Solid	7471A	258548

Metals (Continued)

Analysis Batch: 259219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-47 MSD	DG-O10S-3.5-4	Total/NA	Solid	7471A	258548

Analysis Batch: 259230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-48	DG-N10S-0.5-1	Total/NA	Solid	7471A	258548

Analysis Batch: 259292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-1	DG-Q16S-0.5-1	Total/NA	Solid	7471A	258530
720-90759-2	DG-Q16S-3.5-4	Total/NA	Solid	7471A	258530
720-90759-6	DG-T14S-0.5-1	Total/NA	Solid	7471A	258530
720-90759-7	DG-T14S-3.5-4	Total/NA	Solid	7471A	258530
720-90759-8	DG-S14S-0.5-1	Total/NA	Solid	7471A	258530
720-90759-9	DG-S14S-3.5-4	Total/NA	Solid	7471A	258530
720-90759-10	DG-Q14S-0.5-1	Total/NA	Solid	7471A	258530
720-90759-11	DG-Q14S-3.5-4	Total/NA	Solid	7471A	258530
720-90759-12	DG-P14S-0.5-1	Total/NA	Solid	7471A	258530
720-90759-16	DG-O14S-3.5-4	Total/NA	Solid	7471A	258530
720-90759-17	DG-N14S-0.5-1	Total/NA	Solid	7471A	258530
720-90759-18	DG-N14S-3.5-4	Total/NA	Solid	7471A	258530
720-90759-19	DG-N12S-0.5-1	Total/NA	Solid	7471A	258530
720-90759-20	DG-N12S-3.5-4	Total/NA	Solid	7471A	258530
MB 720-258530/1-A	Method Blank	Total/NA	Solid	7471A	258530
LCS 720-258530/2-A	Lab Control Sample	Total/NA	Solid	7471A	258530
720-90759-19 MS	DG-N12S-0.5-1	Total/NA	Solid	7471A	258530
720-90759-19 MSD	DG-N12S-0.5-1	Total/NA	Solid	7471A	258530

Analysis Batch: 259293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-21	DUP-80	Total/NA	Solid	7471A	258541
720-90759-22	DG-O12S-0.5-1	Total/NA	Solid	7471A	258541
720-90759-23	DG-O12S-3.5-4	Total/NA	Solid	7471A	258541
720-90759-24	DG-P12S-0.5-1	Total/NA	Solid	7471A	258541
720-90759-25	DG-P12S-3.5-4	Total/NA	Solid	7471A	258541
720-90759-26	DG-Q12S-0.5-1	Total/NA	Solid	7471A	258541
720-90759-27	DG-Q12S-3.5-4	Total/NA	Solid	7471A	258541
720-90759-28	DG-S12S-0.5-1	Total/NA	Solid	7471A	258541
720-90759-29	DG-S12S-3.5-4	Total/NA	Solid	7471A	258541
720-90759-30	DUP-81	Total/NA	Solid	7471A	258541
720-90759-31	DG-T12S-0.5-1	Total/NA	Solid	7471A	258541
720-90759-33	DG-V10S-0.5-1	Total/NA	Solid	7471A	258541
720-90759-34	DG-V10S-3.5-4	Total/NA	Solid	7471A	258541
720-90759-35	DG-U10S-0.5-1	Total/NA	Solid	7471A	258541
720-90759-36	DG-U10S-3.5-4	Total/NA	Solid	7471A	258541
720-90759-37	DG-T10S-0.5-1	Total/NA	Solid	7471A	258541
720-90759-38	DG-T10S-3.5-4	Total/NA	Solid	7471A	258541
720-90759-39	DG-S10S-0.5-1	Total/NA	Solid	7471A	258541
720-90759-40	DG-S10S-3.5-4	Total/NA	Solid	7471A	258541
MB 720-258541/1-A	Method Blank	Total/NA	Solid	7471A	258541
LCS 720-258541/2-A	Lab Control Sample	Total/NA	Solid	7471A	258541
720-90759-21 MS	DUP-80	Total/NA	Solid	7471A	258541

Metals (Continued)

Analysis Batch: 259293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-21 MSD	DUP-80	Total/NA	Solid	7471A	258541

Analysis Batch: 259295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-3	DG-S16S-0.5-1	Total/NA	Solid	7471A	258530
720-90759-4	DUP-114	Total/NA	Solid	7471A	258530
720-90759-5	DG-S16S-3.5-4	Total/NA	Solid	7471A	258530
720-90759-13	DG-P14S-3.5-4	Total/NA	Solid	7471A	258530
720-90759-14	DUP-97	Total/NA	Solid	7471A	258530
720-90759-15	DG-O14S-0.5-1	Total/NA	Solid	7471A	258530

Analysis Batch: 259296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-32	DG-T12S-3.5-4	Total/NA	Solid	7471A	258541

Analysis Batch: 259585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-18	DG-N14S-3.5-4	Total/NA	Solid	6010B	258529

General Chemistry

Analysis Batch: 258545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-1	DG-Q16S-0.5-1	Total/NA	Solid	Moisture	
720-90759-2	DG-Q16S-3.5-4	Total/NA	Solid	Moisture	
720-90759-3	DG-S16S-0.5-1	Total/NA	Solid	Moisture	
720-90759-4	DUP-114	Total/NA	Solid	Moisture	
720-90759-5	DG-S16S-3.5-4	Total/NA	Solid	Moisture	
720-90759-6	DG-T14S-0.5-1	Total/NA	Solid	Moisture	
720-90759-7	DG-T14S-3.5-4	Total/NA	Solid	Moisture	
720-90759-8	DG-S14S-0.5-1	Total/NA	Solid	Moisture	
720-90759-9	DG-S14S-3.5-4	Total/NA	Solid	Moisture	
720-90759-10	DG-Q14S-0.5-1	Total/NA	Solid	Moisture	
720-90759-11	DG-Q14S-3.5-4	Total/NA	Solid	Moisture	
720-90759-12	DG-P14S-0.5-1	Total/NA	Solid	Moisture	
720-90759-13	DG-P14S-3.5-4	Total/NA	Solid	Moisture	
720-90759-14	DUP-97	Total/NA	Solid	Moisture	
720-90759-15	DG-O14S-0.5-1	Total/NA	Solid	Moisture	
720-90759-16	DG-O14S-3.5-4	Total/NA	Solid	Moisture	
720-90759-17	DG-N14S-0.5-1	Total/NA	Solid	Moisture	
720-90759-18	DG-N14S-3.5-4	Total/NA	Solid	Moisture	
720-90759-1 DU	DG-Q16S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 258550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-19	DG-N12S-0.5-1	Total/NA	Solid	Moisture	
720-90759-20	DG-N12S-3.5-4	Total/NA	Solid	Moisture	
720-90759-21	DUP-80	Total/NA	Solid	Moisture	
720-90759-22	DG-O12S-0.5-1	Total/NA	Solid	Moisture	
720-90759-23	DG-O12S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 258550 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-24	DG-P12S-0.5-1	Total/NA	Solid	Moisture	
720-90759-25	DG-P12S-3.5-4	Total/NA	Solid	Moisture	
720-90759-26	DG-Q12S-0.5-1	Total/NA	Solid	Moisture	
720-90759-27	DG-Q12S-3.5-4	Total/NA	Solid	Moisture	
720-90759-28	DG-S12S-0.5-1	Total/NA	Solid	Moisture	
720-90759-29	DG-S12S-3.5-4	Total/NA	Solid	Moisture	
720-90759-30	DUP-81	Total/NA	Solid	Moisture	
720-90759-31	DG-T12S-0.5-1	Total/NA	Solid	Moisture	
720-90759-32	DG-T12S-3.5-4	Total/NA	Solid	Moisture	
720-90759-33	DG-V10S-0.5-1	Total/NA	Solid	Moisture	
720-90759-34	DG-V10S-3.5-4	Total/NA	Solid	Moisture	
720-90759-35	DG-U10S-0.5-1	Total/NA	Solid	Moisture	
720-90759-36	DG-U10S-3.5-4	Total/NA	Solid	Moisture	
720-90759-37	DG-T10S-0.5-1	Total/NA	Solid	Moisture	
720-90759-19 DU	DG-N12S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 258551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90759-38	DG-T10S-3.5-4	Total/NA	Solid	Moisture	
720-90759-39	DG-S10S-0.5-1	Total/NA	Solid	Moisture	
720-90759-40	DG-S10S-3.5-4	Total/NA	Solid	Moisture	
720-90759-41	DG-Q10S-0.5-1	Total/NA	Solid	Moisture	
720-90759-42	DG-Q10S-3.5-4	Total/NA	Solid	Moisture	
720-90759-43	DG-P10S-0.5-1	Total/NA	Solid	Moisture	
720-90759-44	DG-P10S-3.5-4	Total/NA	Solid	Moisture	
720-90759-45	DG-O10S-0.5-1	Total/NA	Solid	Moisture	
720-90759-46	DUP-67	Total/NA	Solid	Moisture	
720-90759-47	DG-O10S-3.5-4	Total/NA	Solid	Moisture	
720-90759-48	DG-N10S-0.5-1	Total/NA	Solid	Moisture	
720-90759-49	DG-N10S-3.5-4	Total/NA	Solid	Moisture	
720-90759-38 DU	DG-T10S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-Q16S-0.5-1

Lab Sample ID: 720-90759-1

Date Collected: 01/14/19 08:00

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 13:54	BKR	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-Q16S-3.5-4

Lab Sample ID: 720-90759-2

Date Collected: 01/14/19 08:00

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 13:59	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 14:59	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-S16S-0.5-1

Lab Sample ID: 720-90759-3

Date Collected: 01/14/19 08:20

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 14:04	BKR	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		20	259295	01/26/19 09:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DUP-114

Lab Sample ID: 720-90759-4

Date Collected: 01/14/19 00:00

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 14:18	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 15:04	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		4	259295	01/26/19 09:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-S16S-3.5-4

Lab Sample ID: 720-90759-5

Date Collected: 01/14/19 08:20

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258654	01/16/19 14:23	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258894	01/21/19 15:08	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		4	259295	01/26/19 09:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-T14S-0.5-1

Lab Sample ID: 720-90759-6

Date Collected: 01/14/19 08:40

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 14:28	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 15:13	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-T14S-3.5-4

Lab Sample ID: 720-90759-7

Date Collected: 01/14/19 08:40

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 14:32	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 15:18	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-S14S-0.5-1

Lab Sample ID: 720-90759-8

Date Collected: 01/14/19 09:20

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 14:37	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 15:23	OBI	TAL PLS

Client Sample ID: DG-S14S-0.5-1

Lab Sample ID: 720-90759-8

Date Collected: 01/14/19 09:20

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-S14S-3.5-4

Lab Sample ID: 720-90759-9

Date Collected: 01/14/19 09:20

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 14:42	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 15:27	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-Q14S-0.5-1

Lab Sample ID: 720-90759-10

Date Collected: 01/14/19 09:35

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 14:47	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 15:32	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-Q14S-3.5-4

Lab Sample ID: 720-90759-11

Date Collected: 01/14/19 09:35

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 14:51	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 15:37	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Client Sample ID: DG-P14S-0.5-1

Lab Sample ID: 720-90759-12

Date Collected: 01/14/19 09:45
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 14:56	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 15:42	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-P14S-3.5-4

Lab Sample ID: 720-90759-13

Date Collected: 01/14/19 09:45
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258654	01/16/19 15:01	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258894	01/21/19 16:18	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		10	259295	01/26/19 09:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DUP-97

Lab Sample ID: 720-90759-14

Date Collected: 01/14/19 00:00
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258654	01/16/19 15:15	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258894	01/21/19 16:23	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		10	259295	01/26/19 09:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-O14S-0.5-1

Lab Sample ID: 720-90759-15

Date Collected: 01/14/19 10:05
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 15:20	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 16:28	OBI	TAL PLS

Client Sample ID: DG-O14S-0.5-1

Lab Sample ID: 720-90759-15

Date Collected: 01/14/19 10:05

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259295	01/26/19 09:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-O14S-3.5-4

Lab Sample ID: 720-90759-16

Date Collected: 01/14/19 10:05

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 15:25	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 16:32	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 21:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-N14S-0.5-1

Lab Sample ID: 720-90759-17

Date Collected: 01/14/19 10:25

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 15:29	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 16:37	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 21:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-N14S-3.5-4

Lab Sample ID: 720-90759-18

Date Collected: 01/14/19 10:25

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 15:34	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 16:50	OBI	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		5	259585	01/31/19 15:01	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 21:12	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Client Sample ID: DG-N14S-3.5-4

Date Collected: 01/14/19 10:25
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258545	01/15/19 11:02	TNL	TAL PLS

Client Sample ID: DG-N12S-0.5-1

Date Collected: 01/14/19 10:50
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 13:49	BKR	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 20:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-N12S-3.5-4

Date Collected: 01/14/19 10:50
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258654	01/16/19 15:39	BKR	TAL PLS
Total/NA	Prep	3050B			258529	01/15/19 10:16	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258894	01/21/19 16:55	OBI	TAL PLS
Total/NA	Prep	7471A			258530	01/25/19 15:45	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259292	01/25/19 21:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DUP-80

Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 14:49	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-O12S-0.5-1

Lab Sample ID: 720-90759-22

Date Collected: 01/14/19 11:05

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 14:53	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-O12S-3.5-4

Lab Sample ID: 720-90759-23

Date Collected: 01/14/19 11:05

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 14:58	BKR	TAL PLS
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		20	258866	01/21/19 11:23	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-P12S-0.5-1

Lab Sample ID: 720-90759-24

Date Collected: 01/14/19 11:20

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:03	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-P12S-3.5-4

Lab Sample ID: 720-90759-25

Date Collected: 01/14/19 11:20

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:17	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-Q12S-0.5-1

Lab Sample ID: 720-90759-26

Date Collected: 01/14/19 11:30

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:22	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-Q12S-3.5-4

Lab Sample ID: 720-90759-27

Date Collected: 01/14/19 11:30

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:26	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-S12S-0.5-1

Lab Sample ID: 720-90759-28

Date Collected: 01/14/19 11:40

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:31	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-S12S-3.5-4

Lab Sample ID: 720-90759-29

Date Collected: 01/14/19 11:40

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:36	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DUP-81

Lab Sample ID: 720-90759-30

Date Collected: 01/14/19 00:00

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:40	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-T12S-0.5-1

Lab Sample ID: 720-90759-31

Date Collected: 01/14/19 12:55

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:45	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 21:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-T12S-3.5-4

Lab Sample ID: 720-90759-32

Date Collected: 01/14/19 12:55

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:50	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		4	259296	01/26/19 10:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-V10S-0.5-1

Lab Sample ID: 720-90759-33

Date Collected: 01/14/19 13:45

Matrix: Solid

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:55	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 22:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Client Sample ID: DG-V10S-3.5-4

Lab Sample ID: 720-90759-34

Date Collected: 01/14/19 13:45
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 15:59	BKR	TAL PLS
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258866	01/21/19 11:27	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 22:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-U10S-0.5-1

Lab Sample ID: 720-90759-35

Date Collected: 01/14/19 14:00
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 16:14	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 22:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-U10S-3.5-4

Lab Sample ID: 720-90759-36

Date Collected: 01/14/19 14:00
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 16:18	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 22:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Client Sample ID: DG-T10S-0.5-1

Lab Sample ID: 720-90759-37

Date Collected: 01/14/19 14:10
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 16:23	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 22:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258550	01/15/19 11:31	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Client Sample ID: DG-T10S-3.5-4

Lab Sample ID: 720-90759-38

Date Collected: 01/14/19 14:10
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 16:28	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 22:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Client Sample ID: DG-S10S-0.5-1

Lab Sample ID: 720-90759-39

Date Collected: 01/14/19 14:20
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 16:32	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 22:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Client Sample ID: DG-S10S-3.5-4

Lab Sample ID: 720-90759-40

Date Collected: 01/14/19 14:20
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258540	01/15/19 11:11	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258658	01/16/19 16:37	BKR	TAL PLS
Total/NA	Prep	7471A			258541	01/25/19 16:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259293	01/25/19 22:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Client Sample ID: DG-Q10S-0.5-1

Lab Sample ID: 720-90759-41

Date Collected: 01/14/19 15:00
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 19:10	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258961	01/22/19 11:26	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 19:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Client Sample ID: DG-Q10S-3.5-4

Lab Sample ID: 720-90759-42

Date Collected: 01/14/19 15:00
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 19:14	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 11:31	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 19:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Client Sample ID: DG-P10S-0.5-1

Lab Sample ID: 720-90759-43

Date Collected: 01/14/19 15:15
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 19:19	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 11:36	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 19:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Client Sample ID: DG-P10S-3.5-4

Lab Sample ID: 720-90759-44

Date Collected: 01/14/19 15:15
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 19:24	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 11:41	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 19:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Client Sample ID: DG-O10S-0.5-1

Lab Sample ID: 720-90759-45

Date Collected: 01/14/19 15:25
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 19:29	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		20	258961	01/22/19 11:55	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Client Sample ID: DG-O10S-0.5-1

Lab Sample ID: 720-90759-45

Date Collected: 01/14/19 15:25
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Client Sample ID: DUP-67

Lab Sample ID: 720-90759-46

Date Collected: 01/14/19 00:00
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 19:33	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		20	258961	01/22/19 12:00	OBI	TAL PLS
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		20	259044	01/23/19 10:54	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Client Sample ID: DG-O10S-3.5-4

Lab Sample ID: 720-90759-47

Date Collected: 01/14/19 15:25
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 11:22	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 19:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Client Sample ID: DG-N10S-0.5-1

Lab Sample ID: 720-90759-48

Date Collected: 01/14/19 15:45
Matrix: Solid
Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 19:48	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 12:04	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		4	259230	01/25/19 09:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Client Sample ID: DG-N10S-3.5-4

Date Collected: 01/14/19 15:45
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90759-49

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 19:52	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/15/19 11:15	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 12:09	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258551	01/15/19 12:04	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90759-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90759-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90759-1	DG-Q16S-0.5-1	Solid	01/14/19 08:00	01/14/19 17:40
720-90759-2	DG-Q16S-3.5-4	Solid	01/14/19 08:00	01/14/19 17:40
720-90759-3	DG-S16S-0.5-1	Solid	01/14/19 08:20	01/14/19 17:40
720-90759-4	DUP-114	Solid	01/14/19 00:00	01/14/19 17:40
720-90759-5	DG-S16S-3.5-4	Solid	01/14/19 08:20	01/14/19 17:40
720-90759-6	DG-T14S-0.5-1	Solid	01/14/19 08:40	01/14/19 17:40
720-90759-7	DG-T14S-3.5-4	Solid	01/14/19 08:40	01/14/19 17:40
720-90759-8	DG-S14S-0.5-1	Solid	01/14/19 09:20	01/14/19 17:40
720-90759-9	DG-S14S-3.5-4	Solid	01/14/19 09:20	01/14/19 17:40
720-90759-10	DG-Q14S-0.5-1	Solid	01/14/19 09:35	01/14/19 17:40
720-90759-11	DG-Q14S-3.5-4	Solid	01/14/19 09:35	01/14/19 17:40
720-90759-12	DG-P14S-0.5-1	Solid	01/14/19 09:45	01/14/19 17:40
720-90759-13	DG-P14S-3.5-4	Solid	01/14/19 09:45	01/14/19 17:40
720-90759-14	DUP-97	Solid	01/14/19 00:00	01/14/19 17:40
720-90759-15	DG-O14S-0.5-1	Solid	01/14/19 10:05	01/14/19 17:40
720-90759-16	DG-O14S-3.5-4	Solid	01/14/19 10:05	01/14/19 17:40
720-90759-17	DG-N14S-0.5-1	Solid	01/14/19 10:25	01/14/19 17:40
720-90759-18	DG-N14S-3.5-4	Solid	01/14/19 10:25	01/14/19 17:40
720-90759-19	DG-N12S-0.5-1	Solid	01/14/19 10:50	01/14/19 17:40
720-90759-20	DG-N12S-3.5-4	Solid	01/14/19 10:50	01/14/19 17:40
720-90759-21	DUP-80	Solid	01/14/19 00:00	01/14/19 17:40
720-90759-22	DG-O12S-0.5-1	Solid	01/14/19 11:05	01/14/19 17:40
720-90759-23	DG-O12S-3.5-4	Solid	01/14/19 11:05	01/14/19 17:40
720-90759-24	DG-P12S-0.5-1	Solid	01/14/19 11:20	01/14/19 17:40
720-90759-25	DG-P12S-3.5-4	Solid	01/14/19 11:20	01/14/19 17:40
720-90759-26	DG-Q12S-0.5-1	Solid	01/14/19 11:30	01/14/19 17:40
720-90759-27	DG-Q12S-3.5-4	Solid	01/14/19 11:30	01/14/19 17:40
720-90759-28	DG-S12S-0.5-1	Solid	01/14/19 11:40	01/14/19 17:40
720-90759-29	DG-S12S-3.5-4	Solid	01/14/19 11:40	01/14/19 17:40
720-90759-30	DUP-81	Solid	01/14/19 00:00	01/14/19 17:40
720-90759-31	DG-T12S-0.5-1	Solid	01/14/19 12:55	01/14/19 17:40
720-90759-32	DG-T12S-3.5-4	Solid	01/14/19 12:55	01/14/19 17:40
720-90759-33	DG-V10S-0.5-1	Solid	01/14/19 13:45	01/14/19 17:40
720-90759-34	DG-V10S-3.5-4	Solid	01/14/19 13:45	01/14/19 17:40
720-90759-35	DG-U10S-0.5-1	Solid	01/14/19 14:00	01/14/19 17:40
720-90759-36	DG-U10S-3.5-4	Solid	01/14/19 14:00	01/14/19 17:40
720-90759-37	DG-T10S-0.5-1	Solid	01/14/19 14:10	01/14/19 17:40
720-90759-38	DG-T10S-3.5-4	Solid	01/14/19 14:10	01/14/19 17:40
720-90759-39	DG-S10S-0.5-1	Solid	01/14/19 14:20	01/14/19 17:40
720-90759-40	DG-S10S-3.5-4	Solid	01/14/19 14:20	01/14/19 17:40
720-90759-41	DG-Q10S-0.5-1	Solid	01/14/19 15:00	01/14/19 17:40
720-90759-42	DG-Q10S-3.5-4	Solid	01/14/19 15:00	01/14/19 17:40
720-90759-43	DG-P10S-0.5-1	Solid	01/14/19 15:15	01/14/19 17:40
720-90759-44	DG-P10S-3.5-4	Solid	01/14/19 15:15	01/14/19 17:40
720-90759-45	DG-O10S-0.5-1	Solid	01/14/19 15:25	01/14/19 17:40
720-90759-46	DUP-67	Solid	01/14/19 00:00	01/14/19 17:40
720-90759-47	DG-O10S-3.5-4	Solid	01/14/19 15:25	01/14/19 17:40
720-90759-48	DG-N10S-0.5-1	Solid	01/14/19 15:45	01/14/19 17:40
720-90759-49	DG-N10S-3.5-4	Solid	01/14/19 15:45	01/14/19 17:40

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

720-90759

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#157617
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/14/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 5 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90759 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1. DG- Q16s - 0.5-1	01/14/2019	0800	G	S	1	N		X	
2. DG - Q16s - 3.5-4		0800							
3. DG - S16s - 0.5-1		0820							
4. DUP 114		—							
5. DG - S16s - 3.5-4		0820							
6. DG - T14s - 0.5-1		0840							
7. DG - T14s - 3.5-4		0840							
8. DG - S14s - 0.5-1		0920							
9. DG - S14s - 3.5-4		0926							
10. DG - Q14s - 0.5-1		0935							
11. DG - Q14s - 3.5-4		0935							
12. DG - P14s - 0.5-1		0945							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.4°C, 1.5°, 3.0°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd. ____ Corr'd ____	Therm ID No. ____

Relinquished by	Company Geosyntec	Date/Time 01/14/2019 1609	Received by	Company TA PLS	Date/Time 1-14-19 16:09
Relinquished by	Company TA PLS	Date/Time 1-14-19 17:10	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-14-19 17.40

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90759

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187817
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/14/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 5 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Casey Gibson
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-P14s-3.5-4	01/14/2019	0945	G	S	1	N		X	
14	DUP-97		—							
15	DG-014s-0.5-1		1005							
16	DG-014s-3.5-4		1005							
17	DG-N14s-0.5-1		1025							
18	DG-N14s-3.5-4		1025							
19	DG-N12s-0.5-1		1050					Y		
20	DG-N12s-3.5-4		1050							
21	DUP-80		—							
22	DG-012s-0.5-1		1105							
23	DG-012s-3.5-4	↓	1105	↓	↓	↓			↓	

ME

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company Geosyntec	Date/Time 01/14/2019 1610	Received by	Company TA-PLS	Date/Time 1-14-19 16:16
Relinquished by	Company TA PLS 1-14-19 TB	Date/Time 1-14-19 17:16	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-14-19 1740

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

720-90759

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187817
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/14/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 5 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler Casey Griffin
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
24	DG-P12s-0.5-1	01/14/2019	1120	G	S	1	N		X	
25	DG-P12s-3.5-4		1120							
26	DG-Q12s-0.5-1		1130							
27	DG-Q12s-3.5-4		1130							
28	DG-S12s-0.5-1		1140							
29	DG-S12s-3.5-4		1140							
30	DUP-81		—							
31	DG-T12s-0.5-1		1255							
32	DG-T12s-3.5-4		1256							
33	DG-V10s-0.5-1		1345							
34	DG-V10s-3.5-4		1345							
35	DG-U10s-0.5-1	↓	1400	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd ____ Corr'd: ____ Therm ID No ____		
Relinquished by	Company Geosyntec	Date/Time 01/14/2019 1610	Received by	Company TA PLS	Date/Time 1-14-19 16:10
Relinquished by	Company TA PLS	Date/Time 1-14-19 17:40	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-14-19 1740

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90759

Chain of Custody Record

TestAmerica

#187817

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/14/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 5 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
36.	DG-410s-3.5-4	01/14/2019	1400	G	S	1	N		X	
37.	DG-T10s-0.5-1		1410							
38.	DG-T10s-3.5-4		1410							
39.	DG-S10s-0.5-1		1420							
40.	DG-S10s-3.5-4		1420							
41.	DG-Q10s-0.5-1		1500							
42.	DG-Q10s-3.5-4		1500							
43.	DG-P10s-0.5-1		1515							
44.	DG-P10s-3.5-4		1515							
45.	DG-O10s-0.5-1		1525							
46.	DUP-67		—							
47.	DG-O10s-3.5-4		1525	↓	↓	↓		Y	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No. _____
Relinquished by	Company: Geosyntec	Date/Time: 01/14/2019 1641	Received by:	Company: TA PLS	Date/Time: 1-17-19 16:16
Relinquished by	Company: TA PLS	Date/Time: 1-14-19 17:40	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1-14-19 1740

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600 3002

720-90759

Chain of Custody Record

TestAmerica

#197817

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/14/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	5 of 5 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes.
	01/14/2019	~~1545~~ MAP	G	S	1	N		X	
48. DG-N10s-0.5-1	↓	1545	↓	↓	↓			↓	
49. DG-N10s-3.5-4	↓	1545	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No..	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company: Geosyntec	Date/Time: 01/14/2019 1641	Received by	Company: TA PLS	Date/Time: 1-14-19 16:16
Relinquished by	Company: TA PLS	Date/Time: 1-14-19 1710	Received by	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by	Company: TA-PLS	Date/Time: 1-14-19 1740

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/31/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90759-1

Login Number: 90759
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90763-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Jill Kellmann

Authorized for release by:
1/31/2019 3:33:15 PM
Jill Kellmann, Manager of Project Management
(916)374-4402
jill.kellmann@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Job ID: 720-90763-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90763-1

Comments
No additional comments.

Receipt
The samples were received on 1/14/2019 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.4º C, 1.5º C and 3.0º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DG-T9W. The container label lists a sampling time of 14:55, while the COC lists a sampling time of 14:45. The sample was logged in according to the COC with a sampling time of 14:45.

GC/MS VOA
Methods: 8260B, 8260B/CA_LUFTMS: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was noted as 7. The sample was analyzed after 7 days from sampling: DG-T9W (720-90763-3). The sample container had visible sediment.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The 8015-DRO matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-523003 and analytical batch 440-523032 were outside control limits. Sample matrix interference is suspected due to the “olive yellow with light emulsion” appearance of the sample and because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-523317 and analytical batch 440-523349. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-523317/2-A)

Method(s) 8015B: Surrogate recovery for the following 8015-DRO method blank was outside the upper control limits due to a possible double spike of the surrogate: .(MB 440-523317/1-A). The method blank is non detect (ND) for all compounds of interest, therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-258527 and analytical batch 720-258635 contained Barium and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258635 was outside control limits Barium (25%): (720-90699-B-9-D SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Job ID: 720-90763-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for the preparation/analysis: DG-V9W (720-90763-2). 8015B-DRO

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-523317. A laboratory control sample was performed in duplicate to provide precision of data. 8015B-DRO

Method 3520C: Excessive solid material was observed in samples DG-V9W (720-90763-2) and DG-N9W (720-90763-4). Only the water portion was decanted and extracted.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-523114. A laboratory control sample was performed in duplicate to provide precision of data. 8270-SIM-PAH.

Method 3520C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for the preparation/analysis: DG-V9W (720-90763-2). 8270 SIM-PAH

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: DG-X9W — Lab Sample ID: 720-90763-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	310	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.75	J	10	0.70	ug/L	1		6010B	Dissolved
Nickel	1.4	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	18	J B	20	7.4	ug/L	1		6010B	Dissolved
Mercury	0.28		0.20	0.10	ug/L	1		7470A	Dissolved

Client Sample ID: DG-V9W — Lab Sample ID: 720-90763-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	330	B	50	1.6	ug/L	1		6010B	Dissolved
Cadmium	1.2	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	0.92	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	6.3		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	7.6	J	20	3.7	ug/L	1		6010B	Dissolved
Nickel	9.4	J	10	1.0	ug/L	1		6010B	Dissolved
Selenium	5.2	J	20	4.6	ug/L	1		6010B	Dissolved
Thallium	4.3	J	10	3.5	ug/L	1		6010B	Dissolved
Zinc	310	B	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-T9W — Lab Sample ID: 720-90763-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	20	10	ug/L	1		8260B	Total/NA
Arsenic	16		10	2.9	ug/L	1		6010B	Dissolved
Barium	690	B	50	1.6	ug/L	1		6010B	Dissolved
Molybdenum	5.7	J	10	2.9	ug/L	1		6010B	Dissolved
Selenium	5.6	J	20	4.6	ug/L	1		6010B	Dissolved
Zinc	13	J B	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-N9W — Lab Sample ID: 720-90763-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		0.50	0.25	ug/L	1		8260B	Total/NA
Fluoranthene	0.11	J	0.22	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.20	J	0.22	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	120	J	540	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130	J	540	110	ug/L	1		8015B	Total/NA
Arsenic	42		10	2.9	ug/L	1		6010B	Dissolved
Barium	67	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.0	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	0.87	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.9	J	20	3.7	ug/L	1		6010B	Dissolved
Nickel	1.6	J	10	1.0	ug/L	1		6010B	Dissolved
Selenium	7.2	J	20	4.6	ug/L	1		6010B	Dissolved
Vanadium	1.1	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-O11W — Lab Sample ID: 720-90763-5

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: DG-O11W (Continued) — Lab Sample ID: 720-90763-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.12	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Arsenic	11		10	2.9	ug/L	1		6010B	Dissolved
Barium	34	J B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	2.0	J	10	0.70	ug/L	1		6010B	Dissolved
Nickel	1.2	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	6.2	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: FB-01.14.19 — Lab Sample ID: 720-90763-6

No Detections.

Client Sample ID: TB-01.14.19 — Lab Sample ID: 720-90763-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: DG-X9W
Date Collected: 01/14/19 13:55
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*01/25/19 00:09*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/25/19 00:09*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*01/25/19 00:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Acetone	ND		20	10	ug/L			01/25/19 00:09	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 00:09	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 00:09	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 00:09	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 00:09	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 00:09	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 00:09	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 00:09	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 00:09	1

Client Sample ID: DG-X9W
Date Collected: 01/14/19 13:55
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 00:09	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 00:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 00:09	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 00:09	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 00:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 00:09	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 00:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 00:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 00:09	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 00:09	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 00:09	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*01/25/19 00:09*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*01/25/19 00:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Acenaphthene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Fluorene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Phenanthrene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Anthracene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Chrysene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Fluoranthene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Pyrene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/21/19 23:36	1

Client Sample ID: DG-X9W

Date Collected: 01/14/19 13:55
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*	*01/17/19 11:06*	*01/21/19 23:36*	*1*
Nitrobenzene-d5	*67*		*10 - 120*	*01/17/19 11:06*	*01/21/19 23:36*	*1*
Terphenyl-d14	*66*		*21 - 120*	*01/17/19 11:06*	*01/21/19 23:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		520	100	ug/L		01/17/19 05:53	01/17/19 20:07	1
Motor Oil Range Organics [C24-C36]	ND		520	100	ug/L		01/17/19 05:53	01/17/19 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*48*		*45 - 120*	*01/17/19 05:53*	*01/17/19 20:07*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/15/19 09:04	01/16/19 10:29	1
Arsenic	ND		10	2.9	ug/L		01/15/19 09:04	01/16/19 10:29	1
Barium	**310**	**B**	50	1.6	ug/L		01/15/19 09:04	01/16/19 10:29	1
Beryllium	ND		2.0	0.59	ug/L		01/15/19 09:04	01/16/19 10:29	1
Cadmium	ND		2.0	0.21	ug/L		01/15/19 09:04	01/16/19 10:29	1
Chromium	**0.75**	**J**	10	0.70	ug/L		01/15/19 09:04	01/16/19 10:29	1
Cobalt	ND		2.0	0.68	ug/L		01/15/19 09:04	01/16/19 10:29	1
Copper	ND		20	3.7	ug/L		01/15/19 09:04	01/16/19 10:29	1
Lead	ND		5.0	2.2	ug/L		01/15/19 09:04	01/16/19 10:29	1
Molybdenum	ND		10	2.9	ug/L		01/15/19 09:04	01/16/19 10:29	1
Nickel	**1.4**	**J**	10	1.0	ug/L		01/15/19 09:04	01/16/19 10:29	1
Selenium	ND		20	4.6	ug/L		01/15/19 09:04	01/16/19 10:29	1
Silver	ND		5.0	2.0	ug/L		01/15/19 09:04	01/16/19 10:29	1
Thallium	ND		10	3.5	ug/L		01/15/19 09:04	01/16/19 10:29	1
Vanadium	ND		10	0.87	ug/L		01/15/19 09:04	01/16/19 10:29	1
Zinc	**18**	**J B**	20	7.4	ug/L		01/15/19 09:04	01/16/19 10:29	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/14/19 20:17	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: DG-V9W
Date Collected: 01/14/19 14:30
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*01/25/19 00:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*01/25/19 00:38*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*01/25/19 00:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Acetone	ND		20	10	ug/L			01/25/19 00:38	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 00:38	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 00:38	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 00:38	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 00:38	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 00:38	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 00:38	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 00:38	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 00:38	1

Client Sample ID: DG-V9W
Date Collected: 01/14/19 14:30
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 00:38	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 00:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 00:38	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 00:38	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 00:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 00:38	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 00:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 00:38	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 00:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 00:38	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 00:38	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*01/25/19 00:38*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*01/25/19 00:38*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Acenaphthene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Acenaphthylene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Fluorene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Phenanthrene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Anthracene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Benzo[a]anthracene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Chrysene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Benzo[a]pyrene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Benzo[b]fluoranthene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Benzo[k]fluoranthene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Benzo[g,h,i]perylene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Indeno[1,2,3-cd]pyrene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Fluoranthene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Pyrene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1
Dibenz(a,h)anthracene	ND		0.23	0.11	ug/L		01/17/19 11:06	01/22/19 00:00	1

Client Sample ID: DG-V9W

Date Collected: 01/14/19 14:30
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*	*01/17/19 11:06*	*01/22/19 00:00*	*1*
Nitrobenzene-d5	*84*		*10 - 120*	*01/17/19 11:06*	*01/22/19 00:00*	*1*
Terphenyl-d14	*76*		*21 - 120*	*01/17/19 11:06*	*01/22/19 00:00*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		570	110	ug/L		01/17/19 05:53	01/17/19 16:02	1
Motor Oil Range Organics [C24-C36]	ND		570	110	ug/L		01/17/19 05:53	01/17/19 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*01/17/19 05:53*	*01/17/19 16:02*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/15/19 09:04	01/16/19 10:34	1
Arsenic	**3.8**	**J**	10	2.9	ug/L		01/15/19 09:04	01/16/19 10:34	1
Barium	**330**	**B**	50	1.6	ug/L		01/15/19 09:04	01/16/19 10:34	1
Beryllium	ND		2.0	0.59	ug/L		01/15/19 09:04	01/16/19 10:34	1
Cadmium	**1.2**	**J**	2.0	0.21	ug/L		01/15/19 09:04	01/16/19 10:34	1
Chromium	**0.92**	**J**	10	0.70	ug/L		01/15/19 09:04	01/16/19 10:34	1
Cobalt	**6.3**		2.0	0.68	ug/L		01/15/19 09:04	01/16/19 10:34	1
Copper	**7.6**	**J**	20	3.7	ug/L		01/15/19 09:04	01/16/19 10:34	1
Lead	ND		5.0	2.2	ug/L		01/15/19 09:04	01/16/19 10:34	1
Molybdenum	ND		10	2.9	ug/L		01/15/19 09:04	01/16/19 10:34	1
Nickel	**9.4**	**J**	10	1.0	ug/L		01/15/19 09:04	01/16/19 10:34	1
Selenium	**5.2**	**J**	20	4.6	ug/L		01/15/19 09:04	01/16/19 10:34	1
Silver	ND		5.0	2.0	ug/L		01/15/19 09:04	01/16/19 10:34	1
Thallium	**4.3**	**J**	10	3.5	ug/L		01/15/19 09:04	01/16/19 10:34	1
Vanadium	ND		10	0.87	ug/L		01/15/19 09:04	01/16/19 10:34	1
Zinc	**310**	**B**	20	7.4	ug/L		01/15/19 09:04	01/16/19 10:34	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/14/19 20:17	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: DG-T9W
Date Collected: 01/14/19 14:55
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*01/25/19 01:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*01/25/19 01:06*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/25/19 01:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Acetone	**18**	**J**	20	10	ug/L			01/25/19 01:06	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 01:06	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 01:06	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 01:06	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 01:06	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 01:06	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 01:06	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 01:06	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 01:06	1

Client Sample ID: DG-T9W
Date Collected: 01/14/19 14:55
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 01:06	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 01:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 01:06	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 01:06	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 01:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 01:06	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 01:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 01:06	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 01:06	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 01:06	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 01:06	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*01/25/19 01:06*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/25/19 01:06*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Acenaphthene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Fluorene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Phenanthrene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Anthracene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Chrysene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Fluoranthene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Pyrene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/17/19 11:06	01/22/19 00:24	1

Client Sample ID: DG-T9W

Date Collected: 01/14/19 14:55
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*38 - 120*	*01/17/19 11:06*	*01/22/19 00:24*	*1*
Nitrobenzene-d5	*71*		*10 - 120*	*01/17/19 11:06*	*01/22/19 00:24*	*1*
Terphenyl-d14	*46*		*21 - 120*	*01/17/19 11:06*	*01/22/19 00:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		550	110	ug/L		01/17/19 05:53	01/17/19 16:23	1
Motor Oil Range Organics [C24-C36]	ND		550	110	ug/L		01/17/19 05:53	01/17/19 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*63*		*45 - 120*	*01/17/19 05:53*	*01/17/19 16:23*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/15/19 09:04	01/16/19 11:12	1
Arsenic	**16**		10	2.9	ug/L		01/15/19 09:04	01/16/19 11:12	1
Barium	**690**	**B**	50	1.6	ug/L		01/15/19 09:04	01/16/19 11:12	1
Beryllium	ND		2.0	0.59	ug/L		01/15/19 09:04	01/16/19 11:12	1
Cadmium	ND		2.0	0.21	ug/L		01/15/19 09:04	01/16/19 11:12	1
Chromium	ND		10	0.70	ug/L		01/15/19 09:04	01/16/19 11:12	1
Cobalt	ND		2.0	0.68	ug/L		01/15/19 09:04	01/16/19 11:12	1
Copper	ND		20	3.7	ug/L		01/15/19 09:04	01/16/19 11:12	1
Lead	ND		5.0	2.2	ug/L		01/15/19 09:04	01/16/19 11:12	1
Molybdenum	**5.7**	**J**	10	2.9	ug/L		01/15/19 09:04	01/16/19 11:12	1
Nickel	ND		10	1.0	ug/L		01/15/19 09:04	01/16/19 11:12	1
Selenium	**5.6**	**J**	20	4.6	ug/L		01/15/19 09:04	01/16/19 11:12	1
Silver	ND		5.0	2.0	ug/L		01/15/19 09:04	01/16/19 11:12	1
Thallium	ND		10	3.5	ug/L		01/15/19 09:04	01/16/19 11:12	1
Vanadium	ND		10	0.87	ug/L		01/15/19 09:04	01/16/19 11:12	1
Zinc	**13**	**J B**	20	7.4	ug/L		01/15/19 09:04	01/16/19 11:12	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/14/19 20:17	1

Client Sample ID: DG-N9W

Date Collected: 01/14/19 15:15
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-4

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*01/25/19 01:35*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/25/19 01:35*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/25/19 01:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Acetone	ND		20	10	ug/L			01/25/19 01:35	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 01:35	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 01:35	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 01:35	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 01:35	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 01:35	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 01:35	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 01:35	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
cis-1,2-Dichloroethene	**2.0**		0.50	0.25	ug/L			01/25/19 01:35	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 01:35	1

Client Sample ID: DG-N9W

Date Collected: 01/14/19 15:15
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 01:35	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 01:35	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 01:35	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 01:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 01:35	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 01:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 01:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 01:35	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 01:35	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 01:35	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*01/25/19 01:35*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/25/19 01:35*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Acenaphthene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Fluorene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Phenanthrene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Anthracene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Chrysene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Benzo[a]pyrene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Fluoranthene	**0.11**	**J**	0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Pyrene	**0.20**	**J**	0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/17/19 11:06	01/22/19 00:49	1

Client Sample ID: DG-N9W

Date Collected: 01/14/19 15:15
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	93		38 - 120	01/17/19 11:06	01/22/19 00:49	1
Nitrobenzene-d5	59		10 - 120	01/17/19 11:06	01/22/19 00:49	1
Terphenyl-d14	68		21 - 120	01/17/19 11:06	01/22/19 00:49	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**120**	**J**	540	110	ug/L		01/17/19 05:53	01/17/19 17:24	1
Motor Oil Range Organics [C24-C36]	**130**	**J**	540	110	ug/L		01/17/19 05:53	01/17/19 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	69		45 - 120	01/17/19 05:53	01/17/19 17:24	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/15/19 09:04	01/16/19 11:17	1
Arsenic	**42**		10	2.9	ug/L		01/15/19 09:04	01/16/19 11:17	1
Barium	**67**	**B**	50	1.6	ug/L		01/15/19 09:04	01/16/19 11:17	1
Beryllium	ND		2.0	0.59	ug/L		01/15/19 09:04	01/16/19 11:17	1
Cadmium	ND		2.0	0.21	ug/L		01/15/19 09:04	01/16/19 11:17	1
Chromium	**1.0**	**J**	10	0.70	ug/L		01/15/19 09:04	01/16/19 11:17	1
Cobalt	**0.87**	**J**	2.0	0.68	ug/L		01/15/19 09:04	01/16/19 11:17	1
Copper	**4.9**	**J**	20	3.7	ug/L		01/15/19 09:04	01/16/19 11:17	1
Lead	ND		5.0	2.2	ug/L		01/15/19 09:04	01/16/19 11:17	1
Molybdenum	ND		10	2.9	ug/L		01/15/19 09:04	01/16/19 11:17	1
Nickel	**1.6**	**J**	10	1.0	ug/L		01/15/19 09:04	01/16/19 11:17	1
Selenium	**7.2**	**J**	20	4.6	ug/L		01/15/19 09:04	01/16/19 11:17	1
Silver	ND		5.0	2.0	ug/L		01/15/19 09:04	01/16/19 11:17	1
Thallium	ND		10	3.5	ug/L		01/15/19 09:04	01/16/19 11:17	1
Vanadium	**1.1**	**J**	10	0.87	ug/L		01/15/19 09:04	01/16/19 11:17	1
Zinc	ND		20	7.4	ug/L		01/15/19 09:04	01/16/19 11:17	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/14/19 20:17	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: DG-O11W
Date Collected: 01/14/19 15:35
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*01/25/19 02:03*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*01/25/19 02:03*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/25/19 02:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Acetone	ND		20	10	ug/L			01/25/19 02:03	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 02:03	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 02:03	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 02:03	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 02:03	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 02:03	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 02:03	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 02:03	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 02:03	1

Client Sample ID: DG-O11W
Date Collected: 01/14/19 15:35
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 02:03	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 02:03	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 02:03	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 02:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 02:03	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 02:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 02:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 02:03	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 02:03	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 02:03	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*01/25/19 02:03*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/25/19 02:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Acenaphthene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Fluorene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Phenanthrene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Anthracene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Chrysene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Fluoranthene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Pyrene	**0.12**	**J**	0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/17/19 11:06	01/22/19 01:13	1

Client Sample ID: DG-O11W

Date Collected: 01/14/19 15:35
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*38 - 120*	*01/17/19 11:06*	*01/22/19 01:13*	*1*
Nitrobenzene-d5	*74*		*10 - 120*	*01/17/19 11:06*	*01/22/19 01:13*	*1*
Terphenyl-d14	*69*		*21 - 120*	*01/17/19 11:06*	*01/22/19 01:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		550	110	ug/L		01/18/19 08:47	01/19/19 00:01	1
Motor Oil Range Organics [C24-C36]	ND		550	110	ug/L		01/18/19 08:47	01/19/19 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*67*		*45 - 120*	*01/18/19 08:47*	*01/19/19 00:01*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/15/19 09:04	01/16/19 11:22	1
Arsenic	**11**		10	2.9	ug/L		01/15/19 09:04	01/16/19 11:22	1
Barium	**34**	**J B**	50	1.6	ug/L		01/15/19 09:04	01/16/19 11:22	1
Beryllium	ND		2.0	0.59	ug/L		01/15/19 09:04	01/16/19 11:22	1
Cadmium	ND		2.0	0.21	ug/L		01/15/19 09:04	01/16/19 11:22	1
Chromium	**2.0**	**J**	10	0.70	ug/L		01/15/19 09:04	01/16/19 11:22	1
Cobalt	ND		2.0	0.68	ug/L		01/15/19 09:04	01/16/19 11:22	1
Copper	ND		20	3.7	ug/L		01/15/19 09:04	01/16/19 11:22	1
Lead	ND		5.0	2.2	ug/L		01/15/19 09:04	01/16/19 11:22	1
Molybdenum	ND		10	2.9	ug/L		01/15/19 09:04	01/16/19 11:22	1
Nickel	**1.2**	**J**	10	1.0	ug/L		01/15/19 09:04	01/16/19 11:22	1
Selenium	ND		20	4.6	ug/L		01/15/19 09:04	01/16/19 11:22	1
Silver	ND		5.0	2.0	ug/L		01/15/19 09:04	01/16/19 11:22	1
Thallium	ND		10	3.5	ug/L		01/15/19 09:04	01/16/19 11:22	1
Vanadium	**6.2**	**J**	10	0.87	ug/L		01/15/19 09:04	01/16/19 11:22	1
Zinc	ND		20	7.4	ug/L		01/15/19 09:04	01/16/19 11:22	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/14/19 20:17	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: FB-01.14.19
Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*01/25/19 02:32*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/25/19 02:32*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/25/19 02:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Acetone	ND		20	10	ug/L			01/25/19 02:32	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 02:32	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 02:32	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 02:32	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 02:32	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 02:32	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 02:32	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 02:32	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 02:32	1

Client Sample ID: FB-01.14.19
Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 02:32	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 02:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 02:32	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 02:32	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 02:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 02:32	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 02:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 02:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 02:32	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 02:32	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 02:32	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*01/25/19 02:32*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*01/25/19 02:32*	*1*

Client Sample ID: TB-01.14.19

Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-7

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*01/25/19 03:01*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*01/25/19 03:01*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/25/19 03:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Acetone	ND		20	10	ug/L			01/25/19 03:01	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 03:01	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 03:01	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 03:01	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 03:01	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 03:01	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 03:01	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 03:01	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 03:01	1

Client Sample ID: TB-01.14.19
Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 03:01	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 03:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 03:01	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 03:01	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 03:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 03:01	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 03:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 03:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 03:01	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 03:01	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 03:01	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*01/25/19 03:01*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/25/19 03:01*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	
Lab Sample ID	Client Sample ID	(70-130)	(80-128)	
440-230069-A-4 MS	Matrix Spike	94	107	
440-230069-A-4 MSD	Matrix Spike Duplicate	95	106	
720-90763-1	DG-X9W	108	112	
720-90763-2	DG-V9W	112	112	
720-90763-3	DG-T9W	109	110	
720-90763-4	DG-N9W	107	110	
720-90763-5	DG-O11W	110	110	
720-90763-6	FB-01.14.19	109	104	
720-90763-7	TB-01.14.19	109	110	
LCS 440-524789/5	Lab Control Sample	93	109	
MB 440-524789/4	Method Blank	103	114	

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-230069-A-4 MS	Matrix Spike	109	100	107
440-230069-A-4 MSD	Matrix Spike Duplicate	108	98	106
720-90763-1	DG-X9W	110	106	112
720-90763-2	DG-V9W	116	102	112
720-90763-3	DG-T9W	114	104	110
720-90763-4	DG-N9W	111	106	110
720-90763-5	DG-O11W	113	103	110
720-90763-6	FB-01.14.19	113	106	104
720-90763-7	TB-01.14.19	112	107	110
LCS 440-524790/6	Lab Control Sample	114	103	112
MB 440-524790/4	Method Blank	109	110	114

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-90763-1	DG-X9W	93	67	66
720-90763-2	DG-V9W	93	84	76
720-90763-3	DG-T9W	95	71	46
720-90763-4	DG-N9W	93	59	68
720-90763-5	DG-O11W	78	74	69

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
LCS 440-523114/2-A	Lab Control Sample	68	60	90
LCSD 440-523114/3-A	Lab Control Sample Dup	93	79	106
MB 440-523114/1-A	Method Blank	87	77	95

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-90735-E-7-B MS	Matrix Spike	55
720-90735-E-7-C MSD	Matrix Spike Duplicate	71
720-90763-1	DG-X9W	48
720-90763-2	DG-V9W	70
720-90763-3	DG-T9W	63
720-90763-4	DG-N9W	69
720-90763-5	DG-O11W	67
LCS 440-523003/2-A	Lab Control Sample	63
LCS 440-523317/2-A	Lab Control Sample	70
LCSD 440-523317/3-A	Lab Control Sample Dup	75
MB 440-523003/1-A	Method Blank	65
MB 440-523317/1-A	Method Blank	149 X

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-524789/4
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Acetone	ND		20	10	ug/L			01/24/19 19:36	1
Benzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Bromobenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Bromoform	ND		1.0	0.40	ug/L			01/24/19 19:36	1
Bromomethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/24/19 19:36	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/24/19 19:36	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/19 19:36	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Chloroethane	ND		1.0	0.40	ug/L			01/24/19 19:36	1
Chloroform	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Chloromethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/24/19 19:36	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Dibromomethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/24/19 19:36	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
2-Hexanone	ND		5.0	2.5	ug/L			01/24/19 19:36	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/24/19 19:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/24/19 19:36	1
Naphthalene	ND		1.0	0.40	ug/L			01/24/19 19:36	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Styrene	ND		0.50	0.25	ug/L			01/24/19 19:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-524789/4
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Toluene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 19:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/24/19 19:36	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Trichloroethene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/24/19 19:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/24/19 19:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/24/19 19:36	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/24/19 19:36	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/24/19 19:36	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/24/19 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/24/19 19:36*	*1*
Toluene-d8 (Surr)	*114*		*80 - 128*		*01/24/19 19:36*	*1*

Lab Sample ID: LCS 440-524789/5
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.7		ug/L		99	63 - 131
Acetone	25.0	22.4		ug/L		90	10 - 150
Benzene	25.0	26.4		ug/L		106	68 - 130
Dichlorobromomethane	25.0	26.0		ug/L		104	70 - 132
Bromobenzene	25.0	27.3		ug/L		109	70 - 130
Chlorobromomethane	25.0	25.9		ug/L		103	70 - 130
Bromoform	25.0	27.0		ug/L		108	60 - 148
Bromomethane	25.0	25.6		ug/L		102	64 - 139
2-Butanone (MEK)	25.0	21.7		ug/L		87	44 - 150
n-Butylbenzene	25.0	23.3		ug/L		93	65 - 150
sec-Butylbenzene	25.0	23.9		ug/L		95	70 - 138
tert-Butylbenzene	25.0	23.8		ug/L		95	70 - 130
Carbon disulfide	25.0	27.0		ug/L		108	52 - 136
Carbon tetrachloride	25.0	27.9		ug/L		112	60 - 150
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130
Chloroethane	25.0	25.8		ug/L		103	64 - 135
Chloroform	25.0	25.6		ug/L		102	70 - 130
Chloromethane	25.0	23.9		ug/L		96	47 - 140
2-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130
4-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524789/5
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	27.7		ug/L		111	69 - 145
1,2-Dichlorobenzene	25.0	25.4		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	28.7		ug/L		115	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.2		ug/L		81	52 - 140
Ethylene Dibromide	25.0	26.2		ug/L		105	70 - 130
Dibromomethane	25.0	26.4		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	24.1		ug/L		96	29 - 150
1,1-Dichloroethane	25.0	25.5		ug/L		102	64 - 130
1,2-Dichloroethane	25.0	24.3		ug/L		97	57 - 138
1,1-Dichloroethene	25.0	28.7		ug/L		115	70 - 130
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 133
trans-1,2-Dichloroethene	25.0	26.9		ug/L		107	70 - 130
1,2-Dichloropropane	25.0	26.2		ug/L		105	67 - 130
cis-1,3-Dichloropropene	25.0	27.5		ug/L		110	70 - 133
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 132
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	23.4		ug/L		94	10 - 150
2-Hexanone	25.0	20.6		ug/L		82	10 - 150
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 136
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 132
Methylene Chloride	25.0	25.2		ug/L		101	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	24.5		ug/L		98	59 - 149
Naphthalene	25.0	19.1		ug/L		77	60 - 140
N-Propylbenzene	25.0	24.5		ug/L		98	67 - 139
Styrene	25.0	24.5		ug/L		98	70 - 134
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	60 - 141
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	63 - 130
Tetrachloroethene	25.0	31.3		ug/L		125	70 - 130
Toluene	25.0	26.3		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	25.0	21.3		ug/L		85	60 - 140
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	60 - 140
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
Trichloroethene	25.0	28.1		ug/L		112	70 - 130
Trichlorofluoromethane	25.0	24.6		ug/L		98	60 - 150
1,2,3-Trichloropropane	25.0	22.3		ug/L		89	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.0		ug/L		108	60 - 140
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 135
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 136
Vinyl acetate	25.0	25.2		ug/L		101	48 - 140
Vinyl chloride	25.0	26.1		ug/L		104	59 - 133
m-Xylene & p-Xylene	25.0	27.2		ug/L		109	70 - 130
o-Xylene	25.0	25.9		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	27.6		ug/L		110	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524789/5
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*109*		*80 - 128*

Lab Sample ID: 440-230069-A-4 MS
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	25.7		ug/L		103	70 - 130
Acetone	ND		25.0	27.6		ug/L		110	10 - 150
Benzene	ND		25.0	27.0		ug/L		108	66 - 130
Dichlorobromomethane	ND		25.0	27.1		ug/L		108	70 - 138
Bromobenzene	ND		25.0	27.8		ug/L		111	70 - 130
Chlorobromomethane	ND		25.0	27.2		ug/L		109	70 - 130
Bromoform	ND		25.0	27.1		ug/L		108	59 - 150
Bromomethane	ND		25.0	26.8		ug/L		107	62 - 131
2-Butanone (MEK)	ND		25.0	23.2		ug/L		93	48 - 140
n-Butylbenzene	ND		25.0	24.5		ug/L		98	61 - 149
sec-Butylbenzene	ND		25.0	24.9		ug/L		100	67 - 134
tert-Butylbenzene	ND		25.0	25.4		ug/L		101	70 - 130
Carbon disulfide	ND		25.0	29.3		ug/L		117	49 - 140
Carbon tetrachloride	ND		25.0	30.0		ug/L		120	60 - 150
Chlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130
Chloroethane	ND		25.0	26.1		ug/L		105	68 - 130
Chloroform	ND		25.0	26.4		ug/L		106	70 - 130
Chloromethane	ND		25.0	24.1		ug/L		96	39 - 144
2-Chlorotoluene	ND		25.0	24.3		ug/L		97	70 - 130
4-Chlorotoluene	ND		25.0	24.4		ug/L		98	70 - 130
Chlorodibromomethane	ND		25.0	27.4		ug/L		110	70 - 148
1,2-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	ND		25.0	23.6		ug/L		94	70 - 130
1,1-Dichloropropene	ND		25.0	29.7		ug/L		119	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	21.7		ug/L		87	48 - 140
Ethylene Dibromide	ND		25.0	26.0		ug/L		104	70 - 131
Dibromomethane	ND		25.0	26.5		ug/L		106	70 - 130
Dichlorodifluoromethane	ND		25.0	26.4		ug/L		106	25 - 142
1,1-Dichloroethane	ND		25.0	27.0		ug/L		108	65 - 130
1,2-Dichloroethane	ND		25.0	25.3		ug/L		101	56 - 146
1,1-Dichloroethene	ND		25.0	30.6		ug/L		122	70 - 130
cis-1,2-Dichloroethene	ND		25.0	27.7		ug/L		111	70 - 130
trans-1,2-Dichloroethene	ND		25.0	29.8		ug/L		119	70 - 130
1,2-Dichloropropane	ND		25.0	26.8		ug/L		107	69 - 130
cis-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	70 - 133
trans-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	70 - 138
Ethylbenzene	ND		25.0	26.2		ug/L		105	70 - 130
Hexachlorobutadiene	ND		25.0	24.6		ug/L		99	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230069-A-4 MS
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	22.9		ug/L		92	10 - 150
Isopropylbenzene	ND		25.0	27.0		ug/L		108	70 - 132
4-Isopropyltoluene	ND		25.0	25.4		ug/L		102	70 - 130
Methylene Chloride	ND		25.0	26.0		ug/L		104	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	26.4		ug/L		106	52 - 150
Naphthalene	ND		25.0	21.3		ug/L		85	60 - 140
N-Propylbenzene	ND		25.0	25.8		ug/L		103	66 - 135
Styrene	ND		25.0	24.8		ug/L		99	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.4		ug/L		110	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.6		ug/L		94	63 - 130
Tetrachloroethene	ND		25.0	32.7		ug/L		131	70 - 137
Toluene	0.88		25.0	26.7		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	23.0		ug/L		92	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	24.0		ug/L		96	60 - 140
1,1,1-Trichloroethane	ND		25.0	28.6		ug/L		115	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.7		ug/L		103	70 - 130
Trichloroethene	ND		25.0	29.7		ug/L		119	70 - 130
Trichlorofluoromethane	ND		25.0	26.8		ug/L		107	60 - 150
1,2,3-Trichloropropane	ND		25.0	23.8		ug/L		95	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.6		ug/L		118	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	24.6		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	24.8		ug/L		99	70 - 130
Vinyl acetate	ND		25.0	26.0		ug/L		104	23 - 150
Vinyl chloride	ND		25.0	27.8		ug/L		111	50 - 137
m-Xylene & p-Xylene	ND		25.0	27.0		ug/L		108	70 - 133
o-Xylene	ND		25.0	26.7		ug/L		107	70 - 133
2,2-Dichloropropane	ND		25.0	28.9		ug/L		116	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-230069-A-4 MSD
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	26.0		ug/L		104	70 - 130	1	25
Acetone	ND		25.0	28.6		ug/L		115	10 - 150	4	35
Benzene	ND		25.0	27.2		ug/L		109	66 - 130	1	20
Dichlorobromomethane	ND		25.0	27.3		ug/L		109	70 - 138	1	20
Bromobenzene	ND		25.0	27.6		ug/L		110	70 - 130	1	20
Chlorobromomethane	ND		25.0	27.3		ug/L		109	70 - 130	0	25
Bromoform	ND		25.0	27.8		ug/L		111	59 - 150	3	25
Bromomethane	ND		25.0	26.2		ug/L		105	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	24.8		ug/L		99	48 - 140	7	40
n-Butylbenzene	ND		25.0	24.0		ug/L		96	61 - 149	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230069-A-4 MSD
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	24.4		ug/L		97	67 - 134	2	20
tert-Butylbenzene	ND		25.0	25.1		ug/L		101	70 - 130	1	20
Carbon disulfide	ND		25.0	29.0		ug/L		116	49 - 140	1	20
Carbon tetrachloride	ND		25.0	29.5		ug/L		118	60 - 150	2	25
Chlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130	3	20
Chloroethane	ND		25.0	27.0		ug/L		108	68 - 130	3	25
Chloroform	ND		25.0	26.4		ug/L		105	70 - 130	0	20
Chloromethane	ND		25.0	24.1		ug/L		96	39 - 144	0	25
2-Chlorotoluene	ND		25.0	24.0		ug/L		96	70 - 130	1	20
4-Chlorotoluene	ND		25.0	24.4		ug/L		97	70 - 130	0	20
Chlorodibromomethane	ND		25.0	28.0		ug/L		112	70 - 148	2	25
1,2-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		104	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	24.4		ug/L		98	70 - 130	3	25
1,1-Dichloropropene	ND		25.0	29.6		ug/L		118	64 - 130	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	21.9		ug/L		87	48 - 140	1	30
Ethylene Dibromide	ND		25.0	26.7		ug/L		107	70 - 131	3	25
Dibromomethane	ND		25.0	26.6		ug/L		106	70 - 130	0	25
Dichlorodifluoromethane	ND		25.0	25.9		ug/L		104	25 - 142	2	30
1,1-Dichloroethane	ND		25.0	26.4		ug/L		106	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	25.2		ug/L		101	56 - 146	1	20
1,1-Dichloroethene	ND		25.0	30.4		ug/L		122	70 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	27.8		ug/L		111	70 - 130	0	20
trans-1,2-Dichloroethene	ND		25.0	30.0		ug/L		120	70 - 130	1	20
1,2-Dichloropropane	ND		25.0	27.0		ug/L		108	69 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	27.9		ug/L		112	70 - 133	2	20
trans-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	70 - 138	3	25
Ethylbenzene	ND		25.0	26.6		ug/L		106	70 - 130	1	20
Hexachlorobutadiene	ND		25.0	24.0		ug/L		96	10 - 150	3	20
2-Hexanone	ND		25.0	23.8		ug/L		95	10 - 150	4	35
Isopropylbenzene	ND		25.0	27.2		ug/L		109	70 - 132	1	20
4-Isopropyltoluene	ND		25.0	25.2		ug/L		101	70 - 130	1	20
Methylene Chloride	ND		25.0	25.6		ug/L		103	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	27.1		ug/L		108	52 - 150	3	35
Naphthalene	ND		25.0	22.4		ug/L		90	60 - 140	5	30
N-Propylbenzene	ND		25.0	25.2		ug/L		101	66 - 135	2	20
Styrene	ND		25.0	24.9		ug/L		100	29 - 150	0	35
1,1,1,2-Tetrachloroethane	ND		25.0	27.4		ug/L		109	60 - 149	0	20
1,1,2,2-Tetrachloroethane	ND		25.0	23.2		ug/L		93	63 - 130	2	30
Tetrachloroethene	ND		25.0	32.5		ug/L		130	70 - 137	1	20
Toluene	0.88		25.0	27.5		ug/L		107	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		25.0	23.0		ug/L		92	60 - 140	0	20
1,2,4-Trichlorobenzene	ND		25.0	23.6		ug/L		94	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	27.6		ug/L		110	70 - 130	4	20
1,1,2-Trichloroethane	ND		25.0	27.3		ug/L		109	70 - 130	6	25
Trichloroethene	ND		25.0	28.8		ug/L		115	70 - 130	3	20
Trichlorofluoromethane	ND		25.0	26.8		ug/L		107	60 - 150	0	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-230069-A-4 MSD
Matrix: Water
Analysis Batch: 524789

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	24.9		ug/L		100	60 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.1		ug/L		116	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		25.0	24.4		ug/L		98	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130	0	20
Vinyl acetate	ND		25.0	26.2		ug/L		105	23 - 150	1	30
Vinyl chloride	ND		25.0	26.9		ug/L		108	50 - 137	3	30
m-Xylene & p-Xylene	ND		25.0	27.6		ug/L		110	70 - 133	2	25
o-Xylene	ND		25.0	26.9		ug/L		108	70 - 133	1	20
2,2-Dichloropropane	ND		25.0	29.1		ug/L		116	69 - 138	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*106*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-524790/4
Matrix: Water
Analysis Batch: 524790

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/24/19 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*01/24/19 19:36*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*01/24/19 19:36*	*1*
Toluene-d8 (Surr)	*114*		*80 - 128*		*01/24/19 19:36*	*1*

Lab Sample ID: LCS 440-524790/6
Matrix: Water
Analysis Batch: 524790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	403		ug/L		81	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*112*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-230069-A-4 MS
Matrix: Water
Analysis Batch: 524790

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1630		ug/L		94	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*76 - 132*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-230069-A-4 MSD
Matrix: Water
Analysis Batch: 524790

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1630		ug/L		94	50 - 145	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-523114/1-A
Matrix: Water
Analysis Batch: 523758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Acenaphthene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Acenaphthylene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Fluorene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Phenanthrene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Anthracene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Benzo[a]anthracene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Chrysene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Benzo[a]pyrene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Benzo[b]fluoranthene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Benzo[k]fluoranthene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Benzo[g,h,i]perylene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Fluoranthene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Pyrene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		01/17/19 11:06	01/21/19 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*38 - 120*	*01/17/19 11:06*	*01/21/19 14:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-523114/1-A
Matrix: Water
Analysis Batch: 523758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523114

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	77		10 - 120	01/17/19 11:06	01/21/19 14:41	1
Terphenyl-d14	95		21 - 120	01/17/19 11:06	01/21/19 14:41	1

Lab Sample ID: LCS 440-523114/2-A
Matrix: Water
Analysis Batch: 523758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	0.985	0.601		ug/L		61	50 - 120
Acenaphthene	0.985	0.641		ug/L		65	55 - 120
Acenaphthylene	0.985	0.645		ug/L		65	53 - 120
Fluorene	0.985	0.702		ug/L		71	56 - 120
Phenanthrene	0.985	0.656		ug/L		67	56 - 120
Anthracene	0.985	0.616		ug/L		63	54 - 120
Benzo[a]anthracene	0.985	0.771		ug/L		78	53 - 120
Chrysene	0.985	0.770		ug/L		78	56 - 120
Benzo[a]pyrene	0.985	0.733		ug/L		74	44 - 120
Benzo[b]fluoranthene	0.985	0.779		ug/L		79	48 - 120
Benzo[k]fluoranthene	0.985	0.808		ug/L		82	47 - 121
Benzo[g,h,i]perylene	0.985	0.707		ug/L		72	41 - 123
Indeno[1,2,3-cd]pyrene	0.985	0.663		ug/L		67	38 - 120
Fluoranthene	0.985	0.844		ug/L		86	59 - 120
Pyrene	0.985	0.833		ug/L		85	59 - 120
Dibenz(a,h)anthracene	0.985	0.706		ug/L		72	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	68		38 - 120
Nitrobenzene-d5	60		10 - 120
Terphenyl-d14	90		21 - 120

Lab Sample ID: LCSD 440-523114/3-A
Matrix: Water
Analysis Batch: 523758

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 523114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	0.990	0.746		ug/L		75	50 - 120	22	35
Acenaphthene	0.990	0.883		ug/L		89	55 - 120	32	35
Acenaphthylene	0.990	0.908		ug/L		92	53 - 120	34	35
Fluorene	0.990	0.979		ug/L		99	56 - 120	33	35
Phenanthrene	0.990	0.900		ug/L		91	56 - 120	31	35
Anthracene	0.990	0.852		ug/L		86	54 - 120	32	35
Benzo[a]anthracene	0.990	0.860		ug/L		87	53 - 120	11	35
Chrysene	0.990	0.846		ug/L		85	56 - 120	9	35
Benzo[a]pyrene	0.990	0.831		ug/L		84	44 - 120	13	35
Benzo[b]fluoranthene	0.990	0.835		ug/L		84	48 - 120	7	35
Benzo[k]fluoranthene	0.990	0.832		ug/L		84	47 - 121	3	35
Benzo[g,h,i]perylene	0.990	0.791		ug/L		80	41 - 123	11	35
Indeno[1,2,3-cd]pyrene	0.990	0.717		ug/L		72	38 - 120	8	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-523114/3-A
Matrix: Water
Analysis Batch: 523758

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 523114

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene			0.990	0.978		ug/L		99	59 - 120	15	35
Pyrene			0.990	0.946		ug/L		96	59 - 120	13	35
Dibenz(a,h)anthracene			0.990	0.787		ug/L		79	38 - 122	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*
Nitrobenzene-d5	*79*		*10 - 120*
Terphenyl-d14	*106*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-523003/1-A
Matrix: Water
Analysis Batch: 523032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/17/19 05:53	01/17/19 11:17	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/17/19 05:53	01/17/19 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*65*		*45 - 120*	*01/17/19 05:53*	*01/17/19 11:17*	*1*

Lab Sample ID: LCS 440-523003/2-A
Matrix: Water
Analysis Batch: 523032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			1000	476	J	ug/L		48	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*63*		*45 - 120*

Lab Sample ID: 720-90735-E-7-B MS
Matrix: Water
Analysis Batch: 523032

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 523003

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND	F2 F1	1010	386	J F1	ug/L		38	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*55*		*45 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90735-E-7-C MSD
Matrix: Water
Analysis Batch: 523032

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 523003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	F2 F1	1060	739	F2	ug/L		70	40 - 120	63	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*71*		*45 - 120*

Lab Sample ID: MB 440-523317/1-A
Matrix: Water
Analysis Batch: 523349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/18/19 06:16	01/18/19 17:54	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/18/19 06:16	01/18/19 17:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*149*	*X*	*45 - 120*	*01/18/19 06:16*	*01/18/19 17:54*	*1*

Lab Sample ID: LCS 440-523317/2-A
Matrix: Water
Analysis Batch: 523349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523317

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	596		ug/L		60	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*70*		*45 - 120*

Lab Sample ID: LCSD 440-523317/3-A
Matrix: Water
Analysis Batch: 523349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 523317

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	660		ug/L		66	40 - 115	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*75*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258527/1-A
Matrix: Water
Analysis Batch: 258635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/15/19 09:04	01/16/19 09:51	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-258527/1-A
Matrix: Water
Analysis Batch: 258635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	2.9	ug/L		01/15/19 09:04	01/16/19 09:51	1
Barium	1.65	J	50	1.6	ug/L		01/15/19 09:04	01/16/19 09:51	1
Beryllium	ND		2.0	0.59	ug/L		01/15/19 09:04	01/16/19 09:51	1
Cadmium	ND		2.0	0.21	ug/L		01/15/19 09:04	01/16/19 09:51	1
Chromium	ND		10	0.70	ug/L		01/15/19 09:04	01/16/19 09:51	1
Cobalt	ND		2.0	0.68	ug/L		01/15/19 09:04	01/16/19 09:51	1
Copper	ND		20	3.7	ug/L		01/15/19 09:04	01/16/19 09:51	1
Lead	ND		5.0	2.2	ug/L		01/15/19 09:04	01/16/19 09:51	1
Molybdenum	ND		10	2.9	ug/L		01/15/19 09:04	01/16/19 09:51	1
Nickel	ND		10	1.0	ug/L		01/15/19 09:04	01/16/19 09:51	1
Selenium	ND		20	4.6	ug/L		01/15/19 09:04	01/16/19 09:51	1
Silver	ND		5.0	2.0	ug/L		01/15/19 09:04	01/16/19 09:51	1
Thallium	ND		10	3.5	ug/L		01/15/19 09:04	01/16/19 09:51	1
Vanadium	ND		10	0.87	ug/L		01/15/19 09:04	01/16/19 09:51	1
Zinc	11.5	J	20	7.4	ug/L		01/15/19 09:04	01/16/19 09:51	1

Lab Sample ID: LCS 720-258527/2-A
Matrix: Water
Analysis Batch: 258635

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	956		ug/L		96	80 - 120
Arsenic	1000	939		ug/L		94	80 - 120
Barium	1000	977		ug/L		98	80 - 120
Beryllium	1000	952		ug/L		95	80 - 120
Cadmium	1000	968		ug/L		97	80 - 120
Chromium	1000	962		ug/L		96	80 - 120
Cobalt	1000	979		ug/L		98	80 - 120
Copper	1000	975		ug/L		98	80 - 120
Lead	1000	973		ug/L		97	80 - 120
Molybdenum	1000	980		ug/L		98	80 - 120
Nickel	1000	959		ug/L		96	80 - 120
Selenium	1000	958		ug/L		96	80 - 120
Silver	500	461		ug/L		92	80 - 120
Thallium	1000	940		ug/L		94	80 - 120
Vanadium	1000	962		ug/L		96	80 - 120
Zinc	1000	959		ug/L		96	80 - 120

Lab Sample ID: 720-90699-B-9-B MS
Matrix: Water
Analysis Batch: 258635

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 258527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	927		ug/L		93	75 - 125
Arsenic	4.0	J	1000	931		ug/L		93	75 - 125
Barium	1000	B	1000	2000		ug/L		96	75 - 125
Beryllium	ND		1000	944		ug/L		94	75 - 125
Cadmium	ND		1000	908		ug/L		91	75 - 125
Chromium	1.0	J	1000	909		ug/L		91	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90699-B-9-B MS
Matrix: Water
Analysis Batch: 258635

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 258527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	ND		1000	903		ug/L		90	75 - 125
Copper	ND		1000	928		ug/L		93	75 - 125
Lead	ND		1000	885		ug/L		88	75 - 125
Molybdenum	2.9	J	1000	948		ug/L		95	75 - 125
Nickel	1.1	J	1000	882		ug/L		88	75 - 125
Selenium	ND		1000	923		ug/L		92	75 - 125
Silver	ND		500	444		ug/L		89	75 - 125
Thallium	ND		1000	913		ug/L		91	75 - 125
Vanadium	ND		1000	935		ug/L		94	75 - 125
Zinc	28	B	1000	927		ug/L		90	75 - 125

Lab Sample ID: 720-90699-B-9-C MSD
Matrix: Water
Analysis Batch: 258635

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 258527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	963		ug/L		96	75 - 125	4	20
Arsenic	4.0	J	1000	975		ug/L		97	75 - 125	5	20
Barium	1000	B	1000	2000		ug/L		96	75 - 125	0	20
Beryllium	ND		1000	989		ug/L		99	75 - 125	5	20
Cadmium	ND		1000	936		ug/L		94	75 - 125	3	20
Chromium	1.0	J	1000	932		ug/L		93	75 - 125	3	20
Cobalt	ND		1000	924		ug/L		92	75 - 125	2	20
Copper	ND		1000	928		ug/L		93	75 - 125	0	20
Lead	ND		1000	920		ug/L		92	75 - 125	4	20
Molybdenum	2.9	J	1000	967		ug/L		96	75 - 125	2	20
Nickel	1.1	J	1000	917		ug/L		92	75 - 125	4	20
Selenium	ND		1000	965		ug/L		97	75 - 125	4	20
Silver	ND		500	460		ug/L		92	75 - 125	4	20
Thallium	ND		1000	953		ug/L		95	75 - 125	4	20
Vanadium	ND		1000	959		ug/L		96	75 - 125	2	20
Zinc	28	B	1000	962		ug/L		93	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259321/1-A
Matrix: Water
Analysis Batch: 259349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:07	1

Lab Sample ID: LCS 720-259321/2-A
Matrix: Water
Analysis Batch: 259349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.92		ug/L		99	85 - 115

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90792-H-2-D MS
Matrix: Water
Analysis Batch: 259349

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.68		ug/L		97	75 - 125

Lab Sample ID: 720-90792-H-2-E MSD
Matrix: Water
Analysis Batch: 259349

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.88		ug/L		99	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-258500/9
Matrix: Water
Analysis Batch: 258500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/14/19 20:17	1

Lab Sample ID: LCS 720-258500/10
Matrix: Water
Analysis Batch: 258500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	250	255		ug/L		102	90 - 110

Lab Sample ID: LCSD 720-258500/11
Matrix: Water
Analysis Batch: 258500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	250	256		ug/L		102	90 - 110	0	20

Lab Sample ID: 720-90763-2 MS
Matrix: Water
Analysis Batch: 258500

Client Sample ID: DG-V9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		250	253		ug/L		101	85 - 115

Lab Sample ID: 720-90763-2 MSD
Matrix: Water
Analysis Batch: 258500

Client Sample ID: DG-V9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	252		ug/L		101	85 - 115	0	20

GC/MS VOA

Analysis Batch: 524789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Total/NA	Water	8260B	
720-90763-2	DG-V9W	Total/NA	Water	8260B	
720-90763-3	DG-T9W	Total/NA	Water	8260B	
720-90763-4	DG-N9W	Total/NA	Water	8260B	
720-90763-5	DG-O11W	Total/NA	Water	8260B	
720-90763-6	FB-01.14.19	Total/NA	Water	8260B	
720-90763-7	TB-01.14.19	Total/NA	Water	8260B	
MB 440-524789/4	Method Blank	Total/NA	Water	8260B	
LCS 440-524789/5	Lab Control Sample	Total/NA	Water	8260B	
440-230069-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
440-230069-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 524790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90763-2	DG-V9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90763-3	DG-T9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90763-4	DG-N9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90763-5	DG-O11W	Total/NA	Water	8260B/CA_LUFT MS	
720-90763-6	FB-01.14.19	Total/NA	Water	8260B/CA_LUFT MS	
720-90763-7	TB-01.14.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-524790/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-524790/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-230069-A-4 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-230069-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 523114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Total/NA	Water	3520C	
720-90763-2	DG-V9W	Total/NA	Water	3520C	
720-90763-3	DG-T9W	Total/NA	Water	3520C	
720-90763-4	DG-N9W	Total/NA	Water	3520C	
720-90763-5	DG-O11W	Total/NA	Water	3520C	
MB 440-523114/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-523114/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-523114/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 523758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Total/NA	Water	8270C SIM	523114

GC/MS Semi VOA (Continued)

Analysis Batch: 523758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-2	DG-V9W	Total/NA	Water	8270C SIM	523114
720-90763-3	DG-T9W	Total/NA	Water	8270C SIM	523114
720-90763-4	DG-N9W	Total/NA	Water	8270C SIM	523114
720-90763-5	DG-O11W	Total/NA	Water	8270C SIM	523114
MB 440-523114/1-A	Method Blank	Total/NA	Water	8270C SIM	523114
LCS 440-523114/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	523114
LCSD 440-523114/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	523114

GC Semi VOA

Prep Batch: 523003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Total/NA	Water	3510C	
720-90763-2	DG-V9W	Total/NA	Water	3510C	
720-90763-3	DG-T9W	Total/NA	Water	3510C	
720-90763-4	DG-N9W	Total/NA	Water	3510C	
MB 440-523003/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-523003/2-A	Lab Control Sample	Total/NA	Water	3510C	
720-90735-E-7-B MS	Matrix Spike	Total/NA	Water	3510C	
720-90735-E-7-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 523032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Total/NA	Water	8015B	523003
720-90763-2	DG-V9W	Total/NA	Water	8015B	523003
720-90763-3	DG-T9W	Total/NA	Water	8015B	523003
720-90763-4	DG-N9W	Total/NA	Water	8015B	523003
MB 440-523003/1-A	Method Blank	Total/NA	Water	8015B	523003
LCS 440-523003/2-A	Lab Control Sample	Total/NA	Water	8015B	523003
720-90735-E-7-B MS	Matrix Spike	Total/NA	Water	8015B	523003
720-90735-E-7-C MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	523003

Prep Batch: 523317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-5	DG-O11W	Total/NA	Water	3510C	
MB 440-523317/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-523317/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-523317/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 523349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-5	DG-O11W	Total/NA	Water	8015B	523317
MB 440-523317/1-A	Method Blank	Total/NA	Water	8015B	523317
LCS 440-523317/2-A	Lab Control Sample	Total/NA	Water	8015B	523317
LCSD 440-523317/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	523317

Metals

Prep Batch: 258527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Dissolved	Water	3005A	
720-90763-2	DG-V9W	Dissolved	Water	3005A	
720-90763-3	DG-T9W	Dissolved	Water	3005A	
720-90763-4	DG-N9W	Dissolved	Water	3005A	
720-90763-5	DG-O11W	Dissolved	Water	3005A	
MB 720-258527/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-258527/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90699-B-9-B MS	Matrix Spike	Dissolved	Water	3005A	
720-90699-B-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 258635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Dissolved	Water	6010B	258527
720-90763-2	DG-V9W	Dissolved	Water	6010B	258527
720-90763-3	DG-T9W	Dissolved	Water	6010B	258527
720-90763-4	DG-N9W	Dissolved	Water	6010B	258527
720-90763-5	DG-O11W	Dissolved	Water	6010B	258527
MB 720-258527/1-A	Method Blank	Total Recoverable	Water	6010B	258527
LCS 720-258527/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258527
720-90699-B-9-B MS	Matrix Spike	Dissolved	Water	6010B	258527
720-90699-B-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	258527

Prep Batch: 259321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Dissolved	Water	7470A	
720-90763-2	DG-V9W	Dissolved	Water	7470A	
720-90763-3	DG-T9W	Dissolved	Water	7470A	
720-90763-4	DG-N9W	Dissolved	Water	7470A	
720-90763-5	DG-O11W	Dissolved	Water	7470A	
MB 720-259321/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259321/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90792-H-2-D MS	Matrix Spike	Dissolved	Water	7470A	
720-90792-H-2-E MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 259349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Dissolved	Water	7470A	259321
720-90763-2	DG-V9W	Dissolved	Water	7470A	259321
720-90763-3	DG-T9W	Dissolved	Water	7470A	259321
720-90763-4	DG-N9W	Dissolved	Water	7470A	259321
720-90763-5	DG-O11W	Dissolved	Water	7470A	259321
MB 720-259321/1-A	Method Blank	Total/NA	Water	7470A	259321
LCS 720-259321/2-A	Lab Control Sample	Total/NA	Water	7470A	259321
720-90792-H-2-D MS	Matrix Spike	Dissolved	Water	7470A	259321
720-90792-H-2-E MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	259321

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

General Chemistry

Analysis Batch: 258500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90763-1	DG-X9W	Total/NA	Water	7196A	
720-90763-2	DG-V9W	Total/NA	Water	7196A	
720-90763-3	DG-T9W	Total/NA	Water	7196A	
720-90763-4	DG-N9W	Total/NA	Water	7196A	
720-90763-5	DG-O11W	Total/NA	Water	7196A	
MB 720-258500/9	Method Blank	Total/NA	Water	7196A	
LCS 720-258500/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-258500/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90763-2 MS	DG-V9W	Total/NA	Water	7196A	
720-90763-2 MSD	DG-V9W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: DG-X9W

Lab Sample ID: 720-90763-1

Date Collected: 01/14/19 13:55

Matrix: Water

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524789	01/25/19 00:09	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524790	01/25/19 00:09	JB	TAL IRV
Total/NA	Prep	3520C			523114	01/17/19 11:06	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/21/19 23:36	HN	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 20:07	LMB	TAL IRV
Dissolved	Prep	3005A			258527	01/15/19 09:04	MAA	TAL PLS
Dissolved	Analysis	6010B		1	258635	01/16/19 10:29	BKR	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:37	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258500	01/14/19 20:17	ECB	TAL PLS

Client Sample ID: DG-V9W

Lab Sample ID: 720-90763-2

Date Collected: 01/14/19 14:30

Matrix: Water

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524789	01/25/19 00:38	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524790	01/25/19 00:38	JB	TAL IRV
Total/NA	Prep	3520C			523114	01/17/19 11:06	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/22/19 00:00	HN	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 16:02	LMB	TAL IRV
Dissolved	Prep	3005A			258527	01/15/19 09:04	MAA	TAL PLS
Dissolved	Analysis	6010B		1	258635	01/16/19 10:34	BKR	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:40	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258500	01/14/19 20:17	ECB	TAL PLS

Client Sample ID: DG-T9W

Lab Sample ID: 720-90763-3

Date Collected: 01/14/19 14:55

Matrix: Water

Date Received: 01/14/19 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524789	01/25/19 01:06	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524790	01/25/19 01:06	JB	TAL IRV
Total/NA	Prep	3520C			523114	01/17/19 11:06	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/22/19 00:24	HN	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 16:23	LMB	TAL IRV
Dissolved	Prep	3005A			258527	01/15/19 09:04	MAA	TAL PLS
Dissolved	Analysis	6010B		1	258635	01/16/19 11:12	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: DG-T9W

Date Collected: 01/14/19 14:55
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:42	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258500	01/14/19 20:17	ECB	TAL PLS

Client Sample ID: DG-N9W

Date Collected: 01/14/19 15:15
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524789	01/25/19 01:35	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524790	01/25/19 01:35	JB	TAL IRV
Total/NA	Prep	3520C			523114	01/17/19 11:06	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/22/19 00:49	HN	TAL IRV
Total/NA	Prep	3510C			523003	01/17/19 05:53	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523032	01/17/19 17:24	LMB	TAL IRV
Dissolved	Prep	3005A			258527	01/15/19 09:04	MAA	TAL PLS
Dissolved	Analysis	6010B		1	258635	01/16/19 11:17	BKR	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:44	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258500	01/14/19 20:17	ECB	TAL PLS

Client Sample ID: DG-O11W

Date Collected: 01/14/19 15:35
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524789	01/25/19 02:03	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524790	01/25/19 02:03	JB	TAL IRV
Total/NA	Prep	3520C			523114	01/17/19 11:06	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523758	01/22/19 01:13	HN	TAL IRV
Total/NA	Prep	3510C			523317	01/18/19 08:47	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523349	01/19/19 00:01	MPD	TAL IRV
Dissolved	Prep	3005A			258527	01/15/19 09:04	MAA	TAL PLS
Dissolved	Analysis	6010B		1	258635	01/16/19 11:22	BKR	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:46	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258500	01/14/19 20:17	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Client Sample ID: FB-01.14.19

Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524789	01/25/19 02:32	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524790	01/25/19 02:32	JB	TAL IRV

Client Sample ID: TB-01.14.19

Date Collected: 01/14/19 00:00
Date Received: 01/14/19 17:40

Lab Sample ID: 720-90763-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	524789	01/25/19 03:01	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524790	01/25/19 03:01	JB	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90763-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90763-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90763-1	DG-X9W	Water	01/14/19 13:55	01/14/19 17:40
720-90763-2	DG-V9W	Water	01/14/19 14:30	01/14/19 17:40
720-90763-3	DG-T9W	Water	01/14/19 14:55	01/14/19 17:40
720-90763-4	DG-N9W	Water	01/14/19 15:15	01/14/19 17:40
720-90763-5	DG-O11W	Water	01/14/19 15:35	01/14/19 17:40
720-90763-6	FB-01.14.19	Water	01/14/19 00:00	01/14/19 17:40
720-90763-7	TB-01.14.19	Water	01/14/19 00:00	01/14/19 17:40

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90763

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#167GH
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/14/19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	____ of ____ COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG-X9W	1/14/19	1355	G	GW	8	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG-V9W		1430											
3	DG-T9W		1445											
4	DG-N9W		1515											
5	DG-O11W		1535			↓								
6	FB-01.14.19		—			2								
7	TB-01.14.19	↓	—	↓	↓	↓			↓					

720-90763 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.4°C, 1.5°C, 3.0°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No :	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____			
Relinquished by	Company Geosyntec	Date/Time 1/14/19 1600	Received by	Company TA PLS	Date/Time 1-14-19 16:10
Relinquished by	Company TA PLS	Date/Time 1-14-19 17:40	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-14-19 1740

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 1786 4574 1640	COC No: 720-40803.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90763-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/24/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-X9W (720-90763-1)	1/14/19	13:55 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-V9W (720-90763-2)	1/14/19	14:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-T9W (720-90763-3)	1/14/19	14:45 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-N9W (720-90763-4)	1/14/19	15:15 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-O11W (720-90763-5)	1/14/19	15:35 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-01 14.19 (720-90763-6)	1/14/19	Pacific		Water			X	X			2	check for 2 phases
TB-01 14.19 (720-90763-7)	1/14/19	Pacific		Water			X	X			2	check for 2 phases

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/15/19 1234	TAPLS			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by: Olga Oviedo	Date/Time: 1/16/19 930	Company: TAI IRV

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6/2.6 IR-88 2.9/2.9

Ver. 09/20/2016

1/31/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90763-1

Login Number: 90763
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90763-1

Login Number: 90763
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/16/19 01:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90763-1

Login Number: 90763
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/16/19 01:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90791-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
1/30/2019 3:52:24 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90791-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90791-1

Comments
See client email for sample #16 and #35.

Receipt
The samples were received on 1/15/2019 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0º C, 4.2º C and 4.6º C.

Receipt Exceptions

720-90791 (Geosyntec-Brisbane) Pleasanton lab received 1 x 8 oz jar for the following two samples : (#16) DG-AN10S-4.5-5 and (#35) DG-AK10S-4.5-5. All other samples received 1 x 4oz jar. Client instructed to cancel analysis for these 2 samples.

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes:DG-AO10S-0.5-1 (720-90791-12), DG-AO10S-3.5-4 (720-90791-13), DG-AN10S-0.5-1 (720-90791-14), DG-AN10S-3.5-4 (720-90791-15), DG-AM10S-0.5-1 (720-90791-17), DG-AM10S-3.5-4 (720-90791-18), DG-AL10S-0.5-1 (720-90791-19), DG-AL10S-3.5-4 (720-90791-20), DG-AK10S-0.5-1 (720-90791-21), DG-AK10S-3.5-4 (720-90791-22), DG-AJ10S-0.5-1 (720-90791-23), DG-AJ10S-3.5-4 (720-90791-24), DG-AH10S-0.5-1 (720-90791-25), DG-AH10S-3.5-4 (720-90791-26), DG-AG10S-0.5-1 (720-90791-27), DG-AG10S-3.5-4 (720-90791-28), DG-AF10S-0.5-1 (720-90791-29), DG-AF10S-3.5-4 (720-90791-30) and DG-AE10S-0.5-1 (720-90791-31). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 720-258625 and analytical batch 720-258923 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for Barium-58%, Copper-57%, Lead-44% and Zinc--2% associated with batch 720-258923 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258923 was outside control limits for: Barium-25%, Cobalt-11%, Chromium-12%, Copper-18%, Nickel-18%, Lead-14%, Vanadium-19% and Zinc-15% (720-90791-A-12-C SD)

Method 6010B: The method blank for preparation batch 720-258625 and analytical batch 720-258923 contained Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-N8S-0.5-1 (720-90791-1), DG-N8S-3.5-4 (720-90791-2), DG-Q8S-0.5-1 (720-90791-3), DG-Q8S-3.5-4 (720-90791-4), DG-T8S-0.5-1 (720-90791-5), DG-T8S-3.5-4 (720-90791-6), DG-U8S-0.5-1 (720-90791-7), DG-U8S-3.5-4 (720-90791-8), DG-V8S-0.5-1 (720-90791-9), DG-V8S-3.5-4 (720-90791-10) and DG-AN8S-3.5-4 (720-90791-11). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-258547 and analytical batch 720-258961 contained Arsenic & Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258547 and analytical batch 720-258961 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for Copper-47%, Lead-72% & Zinc-49% associated with batch 720-258961 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258961 was outside control limits for Arsenic-12% & Barium-13%: (720-90759-A-47-C SD)

Job ID: 720-90791-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258961 contained Lead above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The method blank for preparation batch 720-258633 and analytical batch 720-259173 contained Barium, Lead, & Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258633 and analytical batch 720-259173 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259173 was outside control limits for Barium-15%, Cobalt-22%,Vanadium-13%: (720-90791-A-32-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AE10S-3.5-4 (720-90791-32), DG-AD10S-0.5-1 (720-90791-33), DG-AD10S-3.5-4 (720-90791-34), DUP-51 (720-90791-36), DUP-71 (720-90791-37) and DUP-70 (720-90791-38). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258926 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: DG-AN8S-3.5-4 (720-90791-11).

Method 7471A: The following sample was diluted to bring the concentration of target analytes within the calibration range: DG-AN10S-3.5-4 (720-90791-15). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-N8S-0.5-1 — Lab Sample ID: 720-90791-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	11		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	140	B	5.2	0.44	mg/Kg	10		6010B	Total/NA
Barium	1400	B	2.6	0.37	mg/Kg	10		6010B	Total/NA
Beryllium	1.4		0.52	0.17	mg/Kg	10		6010B	Total/NA
Cadmium	4.3		0.64	0.064	mg/Kg	10		6010B	Total/NA
Chromium	100		2.6	0.27	mg/Kg	10		6010B	Total/NA
Cobalt	27		1.0	0.10	mg/Kg	10		6010B	Total/NA
Copper	610		7.7	3.7	mg/Kg	10		6010B	Total/NA
Lead	1300		2.6	0.54	mg/Kg	10		6010B	Total/NA
Molybdenum	6.0		2.6	0.33	mg/Kg	10		6010B	Total/NA
Nickel	170		2.6	0.26	mg/Kg	10		6010B	Total/NA
Selenium	3.7	J	5.2	0.77	mg/Kg	10		6010B	Total/NA
Silver	0.77	J	1.3	0.26	mg/Kg	10		6010B	Total/NA
Thallium	0.36	J	1.0	0.30	mg/Kg	4		6010B	Total/NA
Vanadium	140		2.6	0.35	mg/Kg	10		6010B	Total/NA
Zinc	1700		7.7	3.3	mg/Kg	10		6010B	Total/NA
Mercury	0.42		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-N8S-3.5-4 — Lab Sample ID: 720-90791-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	11	B	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	100	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	1.7		0.24	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	43		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	20		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	110		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	35		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	36		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.4	0.35	mg/Kg	4		6010B	Total/NA
Thallium	0.44	J	1.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	95		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	72		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.047		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q8S-0.5-1 — Lab Sample ID: 720-90791-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12		3.4	0.56	mg/Kg	10		6010B	Total/NA
Arsenic	23	B	6.7	0.57	mg/Kg	10		6010B	Total/NA
Barium	160	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.62		0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	3.3		0.84	0.083	mg/Kg	10		6010B	Total/NA
Chromium	97		3.4	0.36	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	1000		10	4.8	mg/Kg	10		6010B	Total/NA
Lead	780	^	3.4	0.70	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q8S-0.5-1 (Continued) — Lab Sample ID: 720-90791-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	9.5		1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	85		3.4	0.34	mg/Kg	10		6010B	Total/NA
Selenium	7.0		6.7	1.0	mg/Kg	10		6010B	Total/NA
Thallium	1.7	J	3.4	0.97	mg/Kg	10		6010B	Total/NA
Vanadium	71		3.4	0.46	mg/Kg	10		6010B	Total/NA
Zinc	780		10	4.3	mg/Kg	10		6010B	Total/NA
Mercury	0.23		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Q8S-3.5-4 — Lab Sample ID: 720-90791-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	4.8	B	2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	67	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	20		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	97		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	150		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.55	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	18		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.50	J	2.4	0.37	mg/Kg	4		6010B	Total/NA
Thallium	0.44	J	1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	140		3.7	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T8S-0.5-1 — Lab Sample ID: 720-90791-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.47	J	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	2.7	B	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	98	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.79		0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	5.3		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	21		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	500		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	78		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	26		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Thallium	0.39	J	1.1	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	85		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	1400		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T8S-3.5-4 — Lab Sample ID: 720-90791-6

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T8S-3.5-4 (Continued) — Lab Sample ID: 720-90791-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	13		2.7	0.45	mg/Kg	10		6010B	Total/NA
Arsenic	28	B	5.5	0.46	mg/Kg	10		6010B	Total/NA
Barium	200	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.82		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	0.53	J	0.68	0.068	mg/Kg	10		6010B	Total/NA
Chromium	31		2.7	0.29	mg/Kg	10		6010B	Total/NA
Cobalt	17		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	470		8.2	3.9	mg/Kg	10		6010B	Total/NA
Lead	990	^	2.7	0.57	mg/Kg	10		6010B	Total/NA
Molybdenum	2.3		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	69		2.7	0.28	mg/Kg	10		6010B	Total/NA
Selenium	4.1	J	5.5	0.82	mg/Kg	10		6010B	Total/NA
Silver	0.42	J	1.4	0.28	mg/Kg	10		6010B	Total/NA
Thallium	0.93	J	2.7	0.79	mg/Kg	10		6010B	Total/NA
Vanadium	94		2.7	0.37	mg/Kg	10		6010B	Total/NA
Zinc	670		8.2	3.5	mg/Kg	10		6010B	Total/NA
Mercury	0.23		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U8S-0.5-1 — Lab Sample ID: 720-90791-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4		1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	1.7	J B	2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	53	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.79		0.23	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.29		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	12		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	120		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	58		1.2	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.76	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	7.9		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	2.3	0.35	mg/Kg	4		6010B	Total/NA
Thallium	0.86	J	1.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	99		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	110		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U8S-3.5-4 — Lab Sample ID: 720-90791-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	20		2.7	0.46	mg/Kg	10		6010B	Total/NA
Arsenic	27	B	5.5	0.47	mg/Kg	10		6010B	Total/NA
Barium	1500	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.76		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	5.3		0.69	0.068	mg/Kg	10		6010B	Total/NA
Chromium	78		2.7	0.29	mg/Kg	10		6010B	Total/NA
Cobalt	7.7		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	1600		8.2	3.9	mg/Kg	10		6010B	Total/NA
Lead	5300	^	2.7	0.58	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U8S-3.5-4 (Continued) — Lab Sample ID: 720-90791-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	2.5		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	86		2.7	0.28	mg/Kg	10		6010B	Total/NA
Selenium	4.7	J	5.5	0.82	mg/Kg	10		6010B	Total/NA
Silver	8.6		1.4	0.28	mg/Kg	10		6010B	Total/NA
Vanadium	32		2.7	0.37	mg/Kg	10		6010B	Total/NA
Zinc	4200		8.2	3.5	mg/Kg	10		6010B	Total/NA
Mercury	0.49		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V8S-0.5-1 — Lab Sample ID: 720-90791-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	46		2.9	0.48	mg/Kg	10		6010B	Total/NA
Arsenic	31	B	5.7	0.49	mg/Kg	10		6010B	Total/NA
Barium	1600	B	2.9	0.41	mg/Kg	10		6010B	Total/NA
Beryllium	0.97		0.57	0.19	mg/Kg	10		6010B	Total/NA
Cadmium	2.9		0.72	0.071	mg/Kg	10		6010B	Total/NA
Chromium	42		2.9	0.30	mg/Kg	10		6010B	Total/NA
Cobalt	14		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	510		8.6	4.1	mg/Kg	10		6010B	Total/NA
Lead	5500		2.9	0.60	mg/Kg	10		6010B	Total/NA
Molybdenum	4.1		2.9	0.37	mg/Kg	10		6010B	Total/NA
Nickel	42		2.9	0.29	mg/Kg	10		6010B	Total/NA
Selenium	6.0		5.7	0.86	mg/Kg	10		6010B	Total/NA
Silver	12		1.4	0.29	mg/Kg	10		6010B	Total/NA
Thallium	2.1	J	5.7	1.7	mg/Kg	20		6010B	Total/NA
Vanadium	29		2.9	0.39	mg/Kg	10		6010B	Total/NA
Zinc	1600		8.6	3.6	mg/Kg	10		6010B	Total/NA
Mercury	0.77		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V8S-3.5-4 — Lab Sample ID: 720-90791-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.7		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	12	B	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	310	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.99		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	59		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	120		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	770		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	40		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.4	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Silver	0.80	J	0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	640		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN8S-3.5-4 — Lab Sample ID: 720-90791-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AN8S-3.5-4 (Continued)

Lab Sample ID: 720-90791-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.46	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	4.6	B	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	61	B	1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.33	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	20		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	6.3		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	18		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	7.9		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.60	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	13		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.9	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	40		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.016		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO10S-0.5-1

Lab Sample ID: 720-90791-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9	F1	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	4.7		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	170	F2	1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	28	F1	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	180		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	320	B F2	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	12		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	2.8	0.41	mg/Kg	4		6010B	Total/NA
Silver	0.24	J	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	81	F1	1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	630		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO10S-3.5-4

Lab Sample ID: 720-90791-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	45		4.7	0.78	mg/Kg	10		6010B	Total/NA
Arsenic	40		9.3	0.79	mg/Kg	10		6010B	Total/NA
Barium	1200		4.7	0.66	mg/Kg	10		6010B	Total/NA
Cadmium	4.2		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	59		4.7	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	1400		14	6.7	mg/Kg	10		6010B	Total/NA
Lead	4300	B	4.7	0.98	mg/Kg	10		6010B	Total/NA
Molybdenum	4.5		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	65		4.7	0.48	mg/Kg	10		6010B	Total/NA
Selenium	12		9.3	1.4	mg/Kg	10		6010B	Total/NA
Silver	4.2		2.3	0.47	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AO10S-3.5-4 (Continued) — Lab Sample ID: 720-90791-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	1.5	J	4.7	1.4	mg/Kg	10		6010B	Total/NA
Vanadium	23		4.7	0.64	mg/Kg	10		6010B	Total/NA
Zinc	3300		14	5.9	mg/Kg	10		6010B	Total/NA
Mercury	1.1		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN10S-0.5-1 — Lab Sample ID: 720-90791-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	8.6		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	87		1.7	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	2.3		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	23		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	200		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	240	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	18		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Silver	0.18	J	0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	95		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	600		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN10S-3.5-4 — Lab Sample ID: 720-90791-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	34		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	18		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	1100		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.32	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	3.7		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	52		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	570		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	5100	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	2.7		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	44		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.4	0.52	mg/Kg	4		6010B	Total/NA
Silver	6.3		0.86	0.17	mg/Kg	4		6010B	Total/NA
Thallium	0.55	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	24		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	2400		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	1.9		0.058	0.0086	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AM10S-0.5-1 — Lab Sample ID: 720-90791-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.32	J	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	4.0		2.6	0.22	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM10S-0.5-1 (Continued) — Lab Sample ID: 720-90791-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	67		1.3	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.84		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	17		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	6.9		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	92		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	120	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	11		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	270		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.26		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM10S-3.5-4 — Lab Sample ID: 720-90791-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.49	J	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	30		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.080	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	16		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	190		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	30	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.70	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	4.7		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.40	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	83		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	140		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.064		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL10S-0.5-1 — Lab Sample ID: 720-90791-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.45	J	2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	30		1.0	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	11		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	120		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	6.4	B	1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.52	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	3.9		1.0	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.69	J	2.1	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	50		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.068		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL10S-3.5-4 — Lab Sample ID: 720-90791-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.3		3.3	0.28	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL10S-3.5-4 (Continued) — Lab Sample ID: 720-90791-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	41		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.30	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	20		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	5.4		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	21		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	30	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	15		1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	47		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.025		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK10S-0.5-1 — Lab Sample ID: 720-90791-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	4.7		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	58		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	39		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	130		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	300	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	13		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	490		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.88		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK10S-3.5-4 — Lab Sample ID: 720-90791-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.74	J	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	7.0		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	55		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.30	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	18		1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	5.1		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	25		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	120	B	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	17		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	78		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.029		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ10S-0.5-1 — Lab Sample ID: 720-90791-23

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ10S-0.5-1 (Continued)

Lab Sample ID: 720-90791-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.38	J	2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	26		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	26		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	86		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	41	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.61	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	340		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.71	J	2.3	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	53		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.041		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ10S-3.5-4

Lab Sample ID: 720-90791-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	78		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.23	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.31		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	43		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	74		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	40	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.48	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	53		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.37	J	2.3	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	88		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.055		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH10S-0.5-1

Lab Sample ID: 720-90791-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	7.8		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	130		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	1.9		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	25		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	240		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	270	B	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	1.8		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	24		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.46	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Silver	0.57	J	0.74	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	86		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	620		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-AH10S-3.5-4 — Lab Sample ID: 720-90791-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	5.5		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	83		1.0	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.69		0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	19		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	140		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	540	B	1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2		1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	9.0		1.0	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.79	J	2.1	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	490		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.064		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG10S-0.5-1 — Lab Sample ID: 720-90791-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	6.6		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	99		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	17		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	5.8		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	160		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	470	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	14		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	1200		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.27		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG10S-3.5-4 — Lab Sample ID: 720-90791-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	10		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	180		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	2.1		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	68		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	100		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	1000	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.66	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	48		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.60	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	650		3.6	1.5	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG10S-3.5-4 (Continued) — Lab Sample ID: 720-90791-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF10S-0.5-1 — Lab Sample ID: 720-90791-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.64	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	2.3	J	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	69		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.46	J	0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	13		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	130		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	130	B	2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.67	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	5.9		2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	89		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	170		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF10S-3.5-4 — Lab Sample ID: 720-90791-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.76	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	3.8		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	220		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	2.1		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	75		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	34		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	120	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.90	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	38		1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	940		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.082		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE10S-0.5-1 — Lab Sample ID: 720-90791-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.65	J	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	11		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.093	J	0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	14		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	99		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	1.7	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.68	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	6.5		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.67	J	3.4	0.51	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE10S-0.5-1 (Continued)

Lab Sample ID: 720-90791-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	110		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	59		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.072		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE10S-3.5-4

Lab Sample ID: 720-90791-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.89	J	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	19	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Chromium	8.3		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	6.3		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	76	F2 F1	5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	1.4	J B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	3.9		1.7	0.17	mg/Kg	4		6010B	Total/NA
Thallium	0.52	J	1.7	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	95	F1	5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD10S-0.5-1

Lab Sample ID: 720-90791-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.82	J B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	0.74	J	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	41	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	15		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	91		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	12	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.18	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	7.9		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	99		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	77		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.058		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD10S-3.5-4

Lab Sample ID: 720-90791-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	1.6	J	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	44	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	17		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	130		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	28	B	1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	8.9		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	85		1.9	0.26	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD10S-3.5-4 (Continued)

Lab Sample ID: 720-90791-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	130		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-51

Lab Sample ID: 720-90791-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	4.1		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	34	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.24	0.077	mg/Kg	4		6010B	Total/NA
Chromium	17		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	75		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	16	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	15		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	89		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	51		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-71

Lab Sample ID: 720-90791-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.54	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	0.41	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	36	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	10		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	100		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	3.3	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	3.6		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	31		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.060		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-70

Lab Sample ID: 720-90791-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.6	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	20		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	340	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	3.3		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	58		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	160		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	1500	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.72	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	39		1.3	0.13	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DUP-70 (Continued)

Lab Sample ID: 720-90791-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	1.6	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Silver	0.15	J	0.65	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	1500		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.23		0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-N8S-0.5-1

Date Collected: 01/15/19 07:45
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	11		1.0	0.17	mg/Kg		01/16/19 10:54	01/22/19 12:14	4
Arsenic	140	B	5.2	0.44	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Barium	1400	B	2.6	0.37	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Beryllium	1.4		0.52	0.17	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Cadmium	4.3		0.64	0.064	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Chromium	100		2.6	0.27	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Cobalt	27		1.0	0.10	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Copper	610		7.7	3.7	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Lead	1300		2.6	0.54	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Molybdenum	6.0		2.6	0.33	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Nickel	170		2.6	0.26	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Selenium	3.7	J	5.2	0.77	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Silver	0.77	J	1.3	0.26	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Thallium	0.36	J	1.0	0.30	mg/Kg		01/16/19 10:54	01/22/19 12:14	4
Vanadium	140		2.6	0.35	mg/Kg		01/16/19 10:54	01/21/19 19:57	10
Zinc	1700		7.7	3.3	mg/Kg		01/16/19 10:54	01/21/19 19:57	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.017	0.0025	mg/Kg		01/24/19 10:35	01/24/19 20:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-N8S-3.5-4

Date Collected: 01/15/19 07:45
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.2	0.20	mg/Kg		01/16/19 10:54	01/22/19 12:19	4
Arsenic	11	B	2.4	0.20	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Barium	100	B	1.2	0.17	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Beryllium	1.7		0.24	0.076	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Cadmium	0.23	J	0.29	0.029	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Chromium	43		1.2	0.12	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Cobalt	20		0.47	0.047	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Copper	110		3.5	1.7	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Lead	35		1.2	0.25	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Molybdenum	1.0	J	1.2	0.15	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Nickel	36		1.2	0.12	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Selenium	1.8	J	2.4	0.35	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Silver	ND		0.59	0.12	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Thallium	0.44	J	1.2	0.34	mg/Kg		01/16/19 10:54	01/22/19 12:19	4
Vanadium	95		1.2	0.16	mg/Kg		01/16/19 10:54	01/21/19 20:02	4
Zinc	72		3.5	1.5	mg/Kg		01/16/19 10:54	01/21/19 20:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.015	0.0021	mg/Kg		01/24/19 10:35	01/24/19 20:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-Q8S-0.5-1

Date Collected: 01/15/19 08:05
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12		3.4	0.56	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Arsenic	23	B	6.7	0.57	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Barium	160	B	1.3	0.19	mg/Kg		01/16/19 10:54	01/21/19 20:07	4
Beryllium	0.62		0.27	0.087	mg/Kg		01/16/19 10:54	01/21/19 20:07	4
Cadmium	3.3		0.84	0.083	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Chromium	97		3.4	0.36	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Cobalt	15		1.3	0.13	mg/Kg		01/16/19 10:54	01/23/19 10:58	10
Copper	1000		10	4.8	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Lead	780	^	3.4	0.70	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Molybdenum	9.5		1.3	0.17	mg/Kg		01/16/19 10:54	01/21/19 20:07	4
Nickel	85		3.4	0.34	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Selenium	7.0		6.7	1.0	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Silver	ND		1.7	0.34	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Thallium	1.7	J	3.4	0.97	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Vanadium	71		3.4	0.46	mg/Kg		01/16/19 10:54	01/22/19 12:24	10
Zinc	780		10	4.3	mg/Kg		01/16/19 10:54	01/22/19 12:24	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.017	0.0025	mg/Kg		01/24/19 10:35	01/24/19 20:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.05	%			01/16/19 11:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-Q8S-3.5-4

Date Collected: 01/15/19 08:05
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.2	0.20	mg/Kg		01/16/19 10:54	01/22/19 12:28	4
Arsenic	4.8	B	2.4	0.21	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Barium	67	B	1.2	0.17	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Beryllium	0.44		0.24	0.079	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Cadmium	0.27	J	0.30	0.030	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Chromium	20		1.2	0.13	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Cobalt	9.2		0.49	0.049	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Copper	97		3.7	1.7	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Lead	150		1.2	0.26	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Molybdenum	0.55	J	1.2	0.16	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Nickel	18		1.2	0.12	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Selenium	0.50	J	2.4	0.37	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Silver	ND		0.61	0.12	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Thallium	0.44	J	1.2	0.35	mg/Kg		01/16/19 10:54	01/22/19 12:28	4
Vanadium	66		1.2	0.17	mg/Kg		01/16/19 10:54	01/21/19 20:11	4
Zinc	140		3.7	1.5	mg/Kg		01/16/19 10:54	01/21/19 20:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.016	0.0024	mg/Kg		01/24/19 10:35	01/24/19 20:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.3		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-T8S-0.5-1

Date Collected: 01/15/19 08:30
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.19	mg/Kg		01/16/19 10:54	01/22/19 12:33	4
Arsenic	2.7	B	2.2	0.19	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Barium	98	B	1.1	0.16	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Beryllium	0.79		0.22	0.073	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Cadmium	5.3		0.28	0.028	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Chromium	21		1.1	0.12	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Cobalt	10		0.45	0.045	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Copper	500		3.4	1.6	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Lead	78		1.1	0.24	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Molybdenum	1.0	J	1.1	0.14	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Nickel	26		1.1	0.11	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Selenium	1.1	J	2.2	0.34	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Silver	ND		0.56	0.11	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Thallium	0.39	J	1.1	0.33	mg/Kg		01/16/19 10:54	01/22/19 12:33	4
Vanadium	85		1.1	0.15	mg/Kg		01/16/19 10:54	01/21/19 20:16	4
Zinc	1400		3.4	1.4	mg/Kg		01/16/19 10:54	01/21/19 20:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.017	0.0025	mg/Kg		01/24/19 10:35	01/24/19 20:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.4		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-T8S-3.5-4

Date Collected: 01/15/19 08:30
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	13		2.7	0.45	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Arsenic	28	B	5.5	0.46	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Barium	200	B	1.1	0.16	mg/Kg		01/16/19 10:54	01/21/19 20:21	4
Beryllium	0.82		0.22	0.071	mg/Kg		01/16/19 10:54	01/21/19 20:21	4
Cadmium	0.53	J	0.68	0.068	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Chromium	31		2.7	0.29	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Cobalt	17		1.1	0.11	mg/Kg		01/16/19 10:54	01/23/19 11:03	10
Copper	470		8.2	3.9	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Lead	990	^	2.7	0.57	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Molybdenum	2.3		1.1	0.14	mg/Kg		01/16/19 10:54	01/21/19 20:21	4
Nickel	69		2.7	0.28	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Selenium	4.1	J	5.5	0.82	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Silver	0.42	J	1.4	0.28	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Thallium	0.93	J	2.7	0.79	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Vanadium	94		2.7	0.37	mg/Kg		01/16/19 10:54	01/22/19 12:38	10
Zinc	670		8.2	3.5	mg/Kg		01/16/19 10:54	01/22/19 12:38	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.015	0.0022	mg/Kg		01/24/19 10:35	01/24/19 20:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.0		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-U8S-0.5-1

Date Collected: 01/15/19 08:45
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4		1.2	0.19	mg/Kg		01/16/19 10:54	01/22/19 12:53	4
Arsenic	1.7	J B	2.3	0.20	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Barium	53	B	1.2	0.17	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Beryllium	0.79		0.23	0.076	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Cadmium	0.29		0.29	0.029	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Chromium	12		1.2	0.12	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Cobalt	12		0.47	0.047	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Copper	120		3.5	1.7	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Lead	58		1.2	0.24	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Molybdenum	0.76	J	1.2	0.15	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Nickel	7.9		1.2	0.12	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Selenium	1.5	J	2.3	0.35	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Silver	ND		0.58	0.12	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Thallium	0.86	J	1.2	0.34	mg/Kg		01/16/19 10:54	01/22/19 12:53	4
Vanadium	99		1.2	0.16	mg/Kg		01/16/19 10:54	01/21/19 20:25	4
Zinc	110		3.5	1.5	mg/Kg		01/16/19 10:54	01/21/19 20:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.014	0.0021	mg/Kg		01/24/19 10:35	01/24/19 20:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.0		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-U8S-3.5-4

Date Collected: 01/15/19 08:45
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20		2.7	0.46	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Arsenic	27	B	5.5	0.47	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Barium	1500	B	1.1	0.16	mg/Kg		01/16/19 10:54	01/21/19 20:30	4
Beryllium	0.76		0.22	0.071	mg/Kg		01/16/19 10:54	01/21/19 20:30	4
Cadmium	5.3		0.69	0.068	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Chromium	78		2.7	0.29	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Cobalt	7.7		1.1	0.11	mg/Kg		01/16/19 10:54	01/23/19 11:08	10
Copper	1600		8.2	3.9	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Lead	5300	^	2.7	0.58	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Molybdenum	2.5		1.1	0.14	mg/Kg		01/16/19 10:54	01/21/19 20:30	4
Nickel	86		2.7	0.28	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Selenium	4.7	J	5.5	0.82	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Silver	8.6		1.4	0.28	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Thallium	ND		2.7	0.80	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Vanadium	32		2.7	0.37	mg/Kg		01/16/19 10:54	01/22/19 12:58	10
Zinc	4200		8.2	3.5	mg/Kg		01/16/19 10:54	01/22/19 12:58	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.017	0.0025	mg/Kg		01/24/19 10:35	01/24/19 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.2		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-V8S-0.5-1

Date Collected: 01/15/19 09:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	46		2.9	0.48	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Arsenic	31	B	5.7	0.49	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Barium	1600	B	2.9	0.41	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Beryllium	0.97		0.57	0.19	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Cadmium	2.9		0.72	0.071	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Chromium	42		2.9	0.30	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Cobalt	14		1.1	0.11	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Copper	510		8.6	4.1	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Lead	5500		2.9	0.60	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Molybdenum	4.1		2.9	0.37	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Nickel	42		2.9	0.29	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Selenium	6.0		5.7	0.86	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Silver	12		1.4	0.29	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Thallium	2.1	J	5.7	1.7	mg/Kg		01/16/19 10:54	01/22/19 13:03	20
Vanadium	29		2.9	0.39	mg/Kg		01/16/19 10:54	01/21/19 20:45	10
Zinc	1600		8.6	3.6	mg/Kg		01/16/19 10:54	01/21/19 20:45	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.77		0.015	0.0022	mg/Kg		01/24/19 10:35	01/24/19 20:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.9		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-V8S-3.5-4

Date Collected: 01/15/19 09:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.7		1.7	0.28	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Arsenic	12	B	3.3	0.28	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Barium	310	B	1.7	0.24	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Beryllium	0.99		0.33	0.11	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Cadmium	1.2		0.42	0.041	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Chromium	59		1.7	0.18	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Cobalt	9.9		0.67	0.067	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Copper	120		5.0	2.4	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Lead	770		1.7	0.35	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Molybdenum	1.5	J	1.7	0.21	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Nickel	40		1.7	0.17	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Selenium	2.4	J	3.3	0.50	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Silver	0.80	J	0.83	0.17	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Thallium	ND		1.7	0.48	mg/Kg		01/16/19 10:54	01/22/19 13:07	4
Vanadium	53		1.7	0.23	mg/Kg		01/16/19 10:54	01/21/19 20:49	4
Zinc	640		5.0	2.1	mg/Kg		01/16/19 10:54	01/21/19 20:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.015	0.0022	mg/Kg		01/24/19 10:35	01/24/19 20:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.2		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-AN8S-3.5-4

Date Collected: 01/15/19 11:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.9	0.32	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Arsenic	4.6	B	3.9	0.33	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Barium	61	B	1.9	0.28	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Beryllium	0.33	J	0.39	0.13	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Cadmium	0.21	J	0.49	0.048	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Chromium	20		1.9	0.21	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Cobalt	6.3		0.78	0.078	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Copper	18		5.8	2.8	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Lead	7.9		1.9	0.41	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Molybdenum	0.60	J	1.9	0.25	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Nickel	13		1.9	0.20	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Selenium	1.1	J	3.9	0.58	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Silver	ND		0.97	0.20	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Thallium	ND	L ^	1.9	0.56	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Vanadium	54		1.9	0.26	mg/Kg		01/16/19 10:54	01/21/19 20:54	4
Zinc	40		5.8	2.5	mg/Kg		01/16/19 10:54	01/21/19 20:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.015	0.0023	mg/Kg		01/24/19 10:35	01/24/19 20:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-AO10S-0.5-1

Date Collected: 01/15/19 11:25
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	F1	1.4	0.23	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Arsenic	4.7		2.8	0.23	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Barium	170	F2	1.4	0.20	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Beryllium	ND		0.28	0.090	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Cadmium	1.6		0.34	0.034	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Chromium	28	F1	1.4	0.15	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Cobalt	11		0.55	0.055	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Copper	180		4.1	2.0	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Lead	320	B F2	1.4	0.29	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Molybdenum	1.1	J	1.4	0.18	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Nickel	12		1.4	0.14	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Selenium	1.7	J	2.8	0.41	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Silver	0.24	J	0.69	0.14	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Thallium	ND		1.4	0.40	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Vanadium	81	F1	1.4	0.19	mg/Kg		01/16/19 11:20	01/21/19 19:14	4
Zinc	630		4.1	1.8	mg/Kg		01/16/19 11:20	01/21/19 19:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.016	0.0023	mg/Kg		01/24/19 09:31	01/24/19 18:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-AO10S-3.5-4

Date Collected: 01/15/19 11:25
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	45		4.7	0.78	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Arsenic	40		9.3	0.79	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Barium	1200		4.7	0.66	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Beryllium	ND		0.93	0.30	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Cadmium	4.2		1.2	0.12	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Chromium	59		4.7	0.50	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Cobalt	11		1.9	0.19	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Copper	1400		14	6.7	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Lead	4300	B	4.7	0.98	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Molybdenum	4.5		1.9	0.24	mg/Kg		01/16/19 11:20	01/18/19 15:46	4
Nickel	65		4.7	0.48	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Selenium	12		9.3	1.4	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Silver	4.2		2.3	0.47	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Thallium	1.5	J	4.7	1.4	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Vanadium	23		4.7	0.64	mg/Kg		01/16/19 11:20	01/21/19 19:19	10
Zinc	3300		14	5.9	mg/Kg		01/16/19 11:20	01/21/19 19:19	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.016	0.0023	mg/Kg		01/24/19 09:31	01/24/19 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.6		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-AN10S-0.5-1

Date Collected: 01/15/19 11:40
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.7	0.27	mg/Kg		01/16/19 11:20	01/21/19 19:24	4
Arsenic	8.6		3.3	0.28	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Barium	87		1.7	0.23	mg/Kg		01/16/19 11:20	01/21/19 19:24	4
Beryllium	ND		0.33	0.11	mg/Kg		01/16/19 11:20	01/21/19 19:24	4
Cadmium	2.3		0.41	0.041	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Chromium	23		1.7	0.18	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Cobalt	13		0.66	0.066	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Copper	200		5.0	2.4	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Lead	240	B	1.7	0.35	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Molybdenum	1.4	J	1.7	0.21	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Nickel	18		1.7	0.17	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Selenium	1.0	J	3.3	0.50	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Silver	0.18	J	0.83	0.17	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Thallium	ND		1.7	0.48	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Vanadium	95		1.7	0.22	mg/Kg		01/16/19 11:20	01/18/19 15:50	4
Zinc	600		5.0	2.1	mg/Kg		01/16/19 11:20	01/18/19 15:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.014	0.0021	mg/Kg		01/24/19 09:31	01/24/19 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.3		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-AN10S-3.5-4

Date Collected: 01/15/19 11:40
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	34		1.7	0.29	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Arsenic	18		3.4	0.29	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Barium	1100		1.7	0.24	mg/Kg		01/16/19 11:20	01/21/19 19:29	4
Beryllium	0.32	J	0.34	0.11	mg/Kg		01/16/19 11:20	01/21/19 19:29	4
Cadmium	3.7		0.43	0.043	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Chromium	52		1.7	0.18	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Cobalt	6.2		0.69	0.069	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Copper	570		5.2	2.5	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Lead	5100	B	1.7	0.36	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Molybdenum	2.7		1.7	0.22	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Nickel	44		1.7	0.18	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Selenium	1.4	J	3.4	0.52	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Silver	6.3		0.86	0.17	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Thallium	0.55	J	1.7	0.50	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Vanadium	24		1.7	0.23	mg/Kg		01/16/19 11:20	01/18/19 15:55	4
Zinc	2400		5.2	2.2	mg/Kg		01/16/19 11:20	01/18/19 15:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9		0.058	0.0086	mg/Kg		01/24/19 09:31	01/24/19 18:46	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	36.3		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-AM10S-0.5-1

Date Collected: 01/15/19 12:45
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.3	0.22	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Arsenic	4.0		2.6	0.22	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Barium	67		1.3	0.19	mg/Kg		01/16/19 11:20	01/21/19 19:38	4
Beryllium	ND		0.26	0.086	mg/Kg		01/16/19 11:20	01/21/19 19:38	4
Cadmium	0.84		0.33	0.033	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Chromium	17		1.3	0.14	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Cobalt	6.9		0.53	0.053	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Copper	92		3.9	1.9	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Lead	120	B	1.3	0.28	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Molybdenum	1.1	J	1.3	0.17	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Nickel	11		1.3	0.13	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Selenium	ND		2.6	0.39	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Silver	ND		0.66	0.13	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Thallium	ND		1.3	0.38	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Vanadium	48		1.3	0.18	mg/Kg		01/16/19 11:20	01/18/19 16:14	4
Zinc	270		3.9	1.7	mg/Kg		01/16/19 11:20	01/18/19 16:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 18:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-AM10S-3.5-4

Date Collected: 01/15/19 12:45
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.19	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Arsenic	**0.49**	**J**	2.2	0.19	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Barium	**30**		1.1	0.16	mg/Kg		01/16/19 11:20	01/21/19 19:43	4
Beryllium	ND		0.22	0.073	mg/Kg		01/16/19 11:20	01/21/19 19:43	4
Cadmium	**0.080**	**J**	0.28	0.028	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Chromium	**16**		1.1	0.12	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Cobalt	**9.6**		0.45	0.045	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Copper	**190**		3.4	1.6	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Lead	**30**	**B**	1.1	0.23	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Molybdenum	**0.70**	**J**	1.1	0.14	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Nickel	**4.7**		1.1	0.11	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Selenium	**0.40**	**J**	2.2	0.34	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Silver	ND		0.56	0.11	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Thallium	ND		1.1	0.32	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Vanadium	**83**		1.1	0.15	mg/Kg		01/16/19 11:20	01/18/19 16:19	4
Zinc	**140**		3.4	1.4	mg/Kg		01/16/19 11:20	01/18/19 16:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.064**		0.015	0.0023	mg/Kg		01/24/19 09:31	01/24/19 18:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.8**		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-AL10S-0.5-1

Date Collected: 01/15/19 13:20
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.17	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Arsenic	**0.45**	**J**	2.1	0.18	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Barium	**30**		1.0	0.15	mg/Kg		01/16/19 11:20	01/21/19 19:47	4
Beryllium	ND		0.21	0.067	mg/Kg		01/16/19 11:20	01/21/19 19:47	4
Cadmium	**0.14**	**J**	0.26	0.026	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Chromium	**11**		1.0	0.11	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Cobalt	**9.6**		0.41	0.041	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Copper	**120**		3.1	1.5	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Lead	**6.4**	**B**	1.0	0.22	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Molybdenum	**0.52**	**J**	1.0	0.13	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Nickel	**3.9**		1.0	0.11	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Selenium	**0.69**	**J**	2.1	0.31	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Silver	ND		0.52	0.10	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Thallium	ND		1.0	0.30	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Vanadium	**100**		1.0	0.14	mg/Kg		01/16/19 11:20	01/18/19 16:23	4
Zinc	**50**		3.1	1.3	mg/Kg		01/16/19 11:20	01/18/19 16:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.068**		0.016	0.0024	mg/Kg		01/24/19 09:31	01/24/19 19:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.6**		0.1	0.05	%			01/16/19 11:56	1

Client Sample ID: DG-AL10S-3.5-4

Date Collected: 01/15/19 13:20
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.27	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Arsenic	**6.3**		3.3	0.28	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Barium	**41**		1.6	0.23	mg/Kg		01/16/19 11:20	01/21/19 19:52	4
Beryllium	ND		0.33	0.11	mg/Kg		01/16/19 11:20	01/21/19 19:52	4
Cadmium	**0.30**	**J**	0.41	0.041	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Chromium	**20**		1.6	0.17	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Cobalt	**5.4**		0.66	0.066	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Copper	**21**		4.9	2.3	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Lead	**30**	**B**	1.6	0.34	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Molybdenum	**0.40**	**J**	1.6	0.21	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Nickel	**15**		1.6	0.17	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Selenium	ND		3.3	0.49	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Silver	ND		0.82	0.17	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Thallium	ND		1.6	0.48	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Vanadium	**33**		1.6	0.22	mg/Kg		01/16/19 11:20	01/18/19 16:28	4
Zinc	**47**		4.9	2.1	mg/Kg		01/16/19 11:20	01/18/19 16:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.014	0.0021	mg/Kg		01/24/19 09:31	01/24/19 19:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.9**		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AK10S-0.5-1

Lab Sample ID: 720-90791-21

Date Collected: 01/15/19 13:35

Matrix: Solid

Date Received: 01/15/19 19:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.9	0.31	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Arsenic	4.7		3.7	0.32	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Barium	58		1.9	0.27	mg/Kg		01/16/19 11:20	01/21/19 19:57	4
Beryllium	ND		0.37	0.12	mg/Kg		01/16/19 11:20	01/21/19 19:57	4
Cadmium	1.1		0.47	0.046	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Chromium	39		1.9	0.20	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Cobalt	9.4		0.75	0.075	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Copper	130		5.6	2.7	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Lead	300	B	1.9	0.39	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Molybdenum	1.5	J	1.9	0.24	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Nickel	13		1.9	0.19	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Selenium	1.1	J	3.7	0.56	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Silver	ND		0.93	0.19	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Thallium	ND		1.9	0.54	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Vanadium	81		1.9	0.25	mg/Kg		01/16/19 11:20	01/18/19 16:33	4
Zinc	490		5.6	2.4	mg/Kg		01/16/19 11:20	01/18/19 16:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.88		0.016	0.0024	mg/Kg		01/24/19 09:31	01/24/19 19:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.8		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AK10S-3.5-4

Date Collected: 01/15/19 13:35
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.74	J	1.5	0.24	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Arsenic	7.0		2.9	0.25	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Barium	55		1.5	0.21	mg/Kg		01/16/19 11:20	01/21/19 20:11	4
Beryllium	ND		0.29	0.095	mg/Kg		01/16/19 11:20	01/21/19 20:11	4
Cadmium	0.30	J	0.36	0.036	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Chromium	18		1.5	0.15	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Cobalt	5.1		0.58	0.058	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Copper	25		4.4	2.1	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Lead	120	B	1.5	0.31	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Molybdenum	1.0	J	1.5	0.19	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Nickel	17		1.5	0.15	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Selenium	ND		2.9	0.44	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Silver	ND		0.73	0.15	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Thallium	ND		1.5	0.42	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Vanadium	30		1.5	0.20	mg/Kg		01/16/19 11:20	01/18/19 16:37	4
Zinc	78		4.4	1.9	mg/Kg		01/16/19 11:20	01/18/19 16:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 19:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.3		0.1	0.05	%			01/16/19 14:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-AJ10S-0.5-1
Date Collected: 01/15/19 14:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-23
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.2	0.19	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Arsenic	**0.38**	**J**	2.3	0.20	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Barium	**26**		1.2	0.17	mg/Kg		01/16/19 11:20	01/21/19 20:16	4
Beryllium	ND		0.23	0.076	mg/Kg		01/16/19 11:20	01/21/19 20:16	4
Cadmium	**0.21**	**J**	0.29	0.029	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Chromium	**26**		1.2	0.12	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Cobalt	**11**		0.47	0.047	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Copper	**86**		3.5	1.7	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Lead	**41**	**B**	1.2	0.25	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Molybdenum	**0.61**	**J**	1.2	0.15	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Nickel	**340**		1.2	0.12	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Selenium	**0.71**	**J**	2.3	0.35	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Silver	ND		0.58	0.12	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Thallium	ND		1.2	0.34	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Vanadium	**84**		1.2	0.16	mg/Kg		01/16/19 11:20	01/18/19 16:42	4
Zinc	**53**		3.5	1.5	mg/Kg		01/16/19 11:20	01/18/19 16:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.015	0.0023	mg/Kg		01/24/19 09:31	01/24/19 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.05	%			01/16/19 14:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-AJ10S-3.5-4
Date Collected: 01/15/19 14:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-24
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.2	0.19	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Arsenic	**3.9**		2.3	0.20	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Barium	**78**		1.2	0.17	mg/Kg		01/16/19 11:20	01/21/19 20:21	4
Beryllium	**0.11**	**J**	0.23	0.076	mg/Kg		01/16/19 11:20	01/21/19 20:21	4
Cadmium	**0.31**		0.29	0.029	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Chromium	**43**		1.2	0.12	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Cobalt	**11**		0.47	0.047	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Copper	**74**		3.5	1.7	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Lead	**40**	**B**	1.2	0.25	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Molybdenum	**0.48**	**J**	1.2	0.15	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Nickel	**53**		1.2	0.12	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Selenium	**0.37**	**J**	2.3	0.35	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Silver	ND		0.58	0.12	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Thallium	ND		1.2	0.34	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Vanadium	**60**		1.2	0.16	mg/Kg		01/16/19 11:20	01/18/19 16:47	4
Zinc	**88**		3.5	1.5	mg/Kg		01/16/19 11:20	01/18/19 16:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.055**		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.5**		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AH10S-0.5-1

Date Collected: 01/15/19 14:15
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.5	0.24	mg/Kg		01/16/19 11:20	01/21/19 20:25	4
Arsenic	7.8		2.9	0.25	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Barium	130		1.5	0.21	mg/Kg		01/16/19 11:20	01/21/19 20:25	4
Beryllium	ND		0.29	0.096	mg/Kg		01/16/19 11:20	01/21/19 20:25	4
Cadmium	1.9		0.37	0.036	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Chromium	25		1.5	0.16	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Cobalt	9.8		0.59	0.059	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Copper	240		4.4	2.1	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Lead	270	B	1.5	0.31	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Molybdenum	1.8		1.5	0.19	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Nickel	24		1.5	0.15	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Selenium	0.46	J	2.9	0.44	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Silver	0.57	J	0.74	0.15	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Thallium	ND		1.5	0.43	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Vanadium	86		1.5	0.20	mg/Kg		01/16/19 11:20	01/18/19 16:51	4
Zinc	620		4.4	1.9	mg/Kg		01/16/19 11:20	01/18/19 16:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.014	0.0021	mg/Kg		01/24/19 09:31	01/24/19 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.0		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AH10S-3.5-4

Lab Sample ID: 720-90791-26

Date Collected: 01/15/19 14:50

Matrix: Solid

Date Received: 01/15/19 19:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.0	0.17	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Arsenic	5.5		2.1	0.18	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Barium	83		1.0	0.15	mg/Kg		01/16/19 11:20	01/21/19 20:30	4
Beryllium	ND		0.21	0.067	mg/Kg		01/16/19 11:20	01/21/19 20:30	4
Cadmium	0.69		0.26	0.026	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Chromium	19		1.0	0.11	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Cobalt	8.8		0.41	0.041	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Copper	140		3.1	1.5	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Lead	540	B	1.0	0.22	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Molybdenum	1.2		1.0	0.13	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Nickel	9.0		1.0	0.11	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Selenium	0.79	J	2.1	0.31	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Silver	ND		0.52	0.10	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Thallium	ND		1.0	0.30	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Vanadium	76		1.0	0.14	mg/Kg		01/16/19 11:20	01/18/19 17:06	4
Zinc	490		3.1	1.3	mg/Kg		01/16/19 11:20	01/18/19 17:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.016	0.0023	mg/Kg		01/24/19 09:31	01/24/19 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		0.1	0.05	%			01/16/19 14:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-AG10S-0.5-1
Date Collected: 01/15/19 14:50
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-27
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8		1.8	0.30	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Arsenic	6.6		3.6	0.30	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Barium	99		1.8	0.25	mg/Kg		01/16/19 11:20	01/21/19 20:35	4
Beryllium	ND		0.36	0.12	mg/Kg		01/16/19 11:20	01/21/19 20:35	4
Cadmium	1.6		0.45	0.044	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Chromium	17		1.8	0.19	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Cobalt	5.8		0.71	0.071	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Copper	160		5.4	2.5	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Lead	470	B	1.8	0.38	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Molybdenum	1.1	J	1.8	0.23	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Nickel	14		1.8	0.18	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Selenium	ND		3.6	0.54	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Silver	ND		0.89	0.18	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Thallium	ND		1.8	0.52	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Vanadium	52		1.8	0.24	mg/Kg		01/16/19 11:20	01/18/19 17:10	4
Zinc	1200		5.4	2.3	mg/Kg		01/16/19 11:20	01/18/19 17:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.016	0.0024	mg/Kg		01/24/19 09:31	01/24/19 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.2		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AG10S-3.5-4

Date Collected: 01/15/19 14:50
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.2	0.20	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Arsenic	10		2.4	0.20	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Barium	180		1.2	0.17	mg/Kg		01/16/19 11:20	01/21/19 20:40	4
Beryllium	0.21	J	0.24	0.078	mg/Kg		01/16/19 11:20	01/21/19 20:40	4
Cadmium	2.1		0.30	0.030	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Chromium	68		1.2	0.13	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Cobalt	11		0.48	0.048	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Copper	100		3.6	1.7	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Lead	1000	B	1.2	0.25	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Molybdenum	0.66	J	1.2	0.15	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Nickel	48		1.2	0.12	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Selenium	1.1	J	2.4	0.36	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Silver	0.13	J	0.60	0.12	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Thallium	ND		1.2	0.35	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Vanadium	58		1.2	0.16	mg/Kg		01/16/19 11:20	01/18/19 17:15	4
Zinc	650		3.6	1.5	mg/Kg		01/16/19 11:20	01/18/19 17:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		01/24/19 09:31	01/24/19 19:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.0		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AF10S-0.5-1

Date Collected: 01/15/19 15:10
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	2.0	0.33	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Arsenic	2.3	J	3.9	0.33	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Barium	69		2.0	0.28	mg/Kg		01/16/19 11:20	01/21/19 20:45	4
Beryllium	ND		0.39	0.13	mg/Kg		01/16/19 11:20	01/21/19 20:45	4
Cadmium	0.46	J	0.49	0.049	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Chromium	13		2.0	0.21	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Cobalt	9.4		0.78	0.078	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Copper	130		5.9	2.8	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Lead	130	B	2.0	0.41	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Molybdenum	0.67	J	2.0	0.25	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Nickel	5.9		2.0	0.20	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Selenium	ND		3.9	0.59	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Silver	ND		0.98	0.20	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Thallium	ND		2.0	0.57	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Vanadium	89		2.0	0.27	mg/Kg		01/16/19 11:20	01/18/19 17:19	4
Zinc	170		5.9	2.5	mg/Kg		01/16/19 11:20	01/18/19 17:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 19:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.2		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AF10S-3.5-4

Date Collected: 01/15/19 15:10
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.76	J	1.6	0.27	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Arsenic	3.8		3.3	0.28	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Barium	220		1.6	0.23	mg/Kg		01/16/19 11:20	01/21/19 20:49	4
Beryllium	0.16	J	0.33	0.11	mg/Kg		01/16/19 11:20	01/21/19 20:49	4
Cadmium	2.1		0.41	0.041	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Chromium	75		1.6	0.17	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Cobalt	12		0.66	0.066	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Copper	34		4.9	2.3	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Lead	120	B	1.6	0.34	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Molybdenum	0.90	J	1.6	0.21	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Nickel	38		1.6	0.17	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Selenium	ND		3.3	0.49	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Silver	ND		0.82	0.17	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Thallium	ND		1.6	0.48	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Vanadium	62		1.6	0.22	mg/Kg		01/16/19 11:20	01/18/19 17:24	4
Zinc	940		4.9	2.1	mg/Kg		01/16/19 11:20	01/18/19 17:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.082		0.015	0.0023	mg/Kg		01/24/19 09:31	01/24/19 19:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.5		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AE10S-0.5-1

Date Collected: 01/15/19 15:30
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.28	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Arsenic	**0.65**	**J**	3.4	0.29	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Barium	**11**		1.7	0.24	mg/Kg		01/16/19 11:20	01/21/19 20:54	4
Beryllium	ND		0.34	0.11	mg/Kg		01/16/19 11:20	01/21/19 20:54	4
Cadmium	**0.093**	**J**	0.42	0.042	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Chromium	**14**		1.7	0.18	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Cobalt	**21**		0.68	0.068	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Copper	**99**		5.1	2.4	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Lead	**1.7**	**B**	1.7	0.36	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Molybdenum	**0.68**	**J**	1.7	0.22	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Nickel	**6.5**		1.7	0.17	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Selenium	**0.67**	**J**	3.4	0.51	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Silver	ND		0.85	0.17	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Thallium	ND		1.7	0.49	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Vanadium	**110**		1.7	0.23	mg/Kg		01/16/19 11:20	01/18/19 17:29	4
Zinc	**59**		5.1	2.2	mg/Kg		01/16/19 11:20	01/18/19 17:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.072**		0.015	0.0021	mg/Kg		01/24/19 09:31	01/24/19 19:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.8**		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AE10S-3.5-4

Lab Sample ID: 720-90791-32

Date Collected: 01/15/19 15:30

Matrix: Solid

Date Received: 01/15/19 19:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	1.7	0.28	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Arsenic	**0.89**	**J**	3.4	0.29	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Barium	**19**	**B**	1.7	0.24	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Beryllium	ND		0.34	0.11	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Cadmium	ND		0.42	0.042	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Chromium	**8.3**		1.7	0.18	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Cobalt	**6.3**		0.68	0.068	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Copper	**76**	**F2 F1**	5.1	2.4	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Lead	**1.4**	**J B**	1.7	0.36	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Nickel	**3.9**		1.7	0.17	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Selenium	ND		3.4	0.51	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Silver	ND		0.85	0.17	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Thallium	**0.52**	**J**	1.7	0.49	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Vanadium	**54**		1.7	0.23	mg/Kg		01/23/19 16:28	01/24/19 14:43	4
Zinc	**95**	**F1**	5.1	2.2	mg/Kg		01/23/19 16:28	01/24/19 14:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 20:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.8**		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AD10S-0.5-1

Date Collected: 01/15/19 15:40
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.82	J B	1.4	0.23	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Arsenic	0.74	J	2.8	0.24	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Barium	41	B	1.4	0.20	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Beryllium	0.16	J	0.28	0.092	mg/Kg		01/23/19 16:28	01/24/19 14:48	4
Cadmium	0.15	J	0.35	0.035	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Chromium	15		1.4	0.15	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Cobalt	14		0.56	0.056	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Copper	91		4.2	2.0	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Lead	12	B	1.4	0.30	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Molybdenum	0.18	J	1.4	0.18	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Nickel	7.9		1.4	0.14	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Selenium	ND		2.8	0.42	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Silver	ND		0.70	0.14	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Thallium	ND		1.4	0.41	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Vanadium	99		1.4	0.19	mg/Kg		01/23/19 16:28	01/24/19 11:08	4
Zinc	77		4.2	1.8	mg/Kg		01/23/19 16:28	01/24/19 11:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.016	0.0023	mg/Kg		01/24/19 09:31	01/24/19 20:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DG-AD10S-3.5-4

Date Collected: 01/15/19 15:40
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J B	1.9	0.31	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Arsenic	1.6	J	3.8	0.32	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Barium	44	B	1.9	0.27	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Beryllium	ND		0.38	0.12	mg/Kg		01/23/19 16:28	01/24/19 14:52	4
Cadmium	0.20	J	0.47	0.047	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Chromium	17		1.9	0.20	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Cobalt	13		0.75	0.075	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Copper	130		5.7	2.7	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Lead	28	B	1.9	0.40	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Nickel	8.9		1.9	0.19	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Selenium	ND		3.8	0.57	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Silver	ND		0.94	0.19	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Thallium	ND		1.9	0.55	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Vanadium	85		1.9	0.26	mg/Kg		01/23/19 16:28	01/24/19 11:13	4
Zinc	130		5.7	2.4	mg/Kg		01/23/19 16:28	01/24/19 11:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 20:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DUP-51

Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	B	1.2	0.20	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Arsenic	4.1		2.4	0.20	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Barium	34	B	1.2	0.17	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Beryllium	0.11	J	0.24	0.077	mg/Kg		01/23/19 16:28	01/24/19 14:57	4
Cadmium	ND		0.30	0.029	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Chromium	17		1.2	0.13	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Cobalt	12		0.47	0.047	mg/Kg		01/23/19 16:28	01/24/19 14:57	4
Copper	75		3.6	1.7	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Lead	16	B	1.2	0.25	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Molybdenum	ND		1.2	0.15	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Nickel	15		1.2	0.12	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Selenium	0.54	J	2.4	0.36	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Silver	ND		0.59	0.12	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Thallium	ND		1.2	0.34	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Vanadium	89		1.2	0.16	mg/Kg		01/23/19 16:28	01/24/19 12:18	4
Zinc	51		3.6	1.5	mg/Kg		01/23/19 16:28	01/24/19 12:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.016	0.0024	mg/Kg		01/24/19 09:31	01/24/19 21:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DUP-71

Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J B	1.6	0.27	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Arsenic	0.41	J	3.2	0.27	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Barium	36	B	1.6	0.23	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Beryllium	ND		0.32	0.10	mg/Kg		01/23/19 16:28	01/24/19 15:11	4
Cadmium	0.12	J	0.40	0.040	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Chromium	10		1.6	0.17	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Cobalt	9.4		0.64	0.064	mg/Kg		01/23/19 16:28	01/24/19 15:11	4
Copper	100		4.8	2.3	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Lead	3.3	B	1.6	0.34	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Nickel	3.6		1.6	0.16	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Selenium	ND		3.2	0.48	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Silver	ND		0.80	0.16	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Thallium	ND		1.6	0.46	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Vanadium	100		1.6	0.22	mg/Kg		01/23/19 16:28	01/24/19 12:22	4
Zinc	31		4.8	2.0	mg/Kg		01/23/19 16:28	01/24/19 12:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.015	0.0021	mg/Kg		01/24/19 09:31	01/24/19 21:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		0.1	0.05	%			01/16/19 14:07	1

Client Sample ID: DUP-70

Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-38

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.6	B	1.3	0.21	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Arsenic	20		2.6	0.22	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Barium	340	B	1.3	0.18	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Beryllium	0.17	J	0.26	0.084	mg/Kg		01/23/19 16:28	01/24/19 15:16	4
Cadmium	3.3		0.32	0.032	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Chromium	58		1.3	0.14	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Cobalt	10		0.52	0.052	mg/Kg		01/23/19 16:28	01/24/19 15:16	4
Copper	160		3.9	1.8	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Lead	1500	B	1.3	0.27	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Molybdenum	0.72	J	1.3	0.17	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Nickel	39		1.3	0.13	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Selenium	1.6	J	2.6	0.39	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Silver	0.15	J	0.65	0.13	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Thallium	ND		1.3	0.37	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Vanadium	49		1.3	0.18	mg/Kg		01/23/19 16:28	01/24/19 12:27	4
Zinc	1500		3.9	1.6	mg/Kg		01/23/19 16:28	01/24/19 12:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.015	0.0023	mg/Kg		01/24/19 09:31	01/24/19 21:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.3		0.1	0.05	%			01/16/19 14:07	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258547/1-A
Matrix: Solid
Analysis Batch: 258961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Arsenic	0.0900	J	1.0	0.085	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Barium	0.0841	J	0.50	0.071	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Beryllium	ND		0.10	0.033	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Cadmium	ND		0.13	0.012	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Chromium	ND		0.50	0.053	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Cobalt	ND		0.20	0.020	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Copper	ND		1.5	0.71	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Lead	ND		0.50	0.11	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Nickel	ND		0.50	0.051	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Selenium	ND		1.0	0.15	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Silver	ND		0.25	0.051	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Thallium	ND		0.50	0.15	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Vanadium	ND		0.50	0.068	mg/Kg		01/15/19 11:15	01/22/19 10:58	1
Zinc	ND		1.5	0.64	mg/Kg		01/15/19 11:15	01/22/19 10:58	1

Lab Sample ID: LCS 720-258547/2-A
Matrix: Solid
Analysis Batch: 258926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.6		mg/Kg		103	80 - 120
Arsenic	50.0	51.0		mg/Kg		102	80 - 120
Barium	50.0	48.0		mg/Kg		96	80 - 120
Beryllium	50.0	47.3		mg/Kg		95	80 - 120
Cadmium	50.0	51.0		mg/Kg		102	80 - 120
Chromium	50.0	51.0		mg/Kg		102	80 - 120
Cobalt	50.0	51.8		mg/Kg		104	80 - 120
Copper	50.0	51.2		mg/Kg		102	80 - 120
Lead	50.0	52.5		mg/Kg		105	80 - 120
Molybdenum	50.0	52.5		mg/Kg		105	80 - 120
Nickel	50.0	51.7		mg/Kg		103	80 - 120
Selenium	50.0	50.3		mg/Kg		101	80 - 120
Silver	25.0	25.2		mg/Kg		101	80 - 120
Thallium	50.0	58.5		mg/Kg		117	80 - 120
Vanadium	50.0	50.9		mg/Kg		102	80 - 120
Zinc	50.0	51.4		mg/Kg		103	80 - 120

Lab Sample ID: 720-90759-A-47-A MS
Matrix: Solid
Analysis Batch: 258961

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.5	F1	33.3	12.6	F1	mg/Kg		24	75 - 125
Arsenic	13	B	33.3	42.3		mg/Kg		87	75 - 125
Barium	100	B F1	33.3	117	F1	mg/Kg		46	75 - 125
Beryllium	0.90		33.3	31.4		mg/Kg		92	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90759-A-47-A MS
Matrix: Solid
Analysis Batch: 258961

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.64		33.3	30.2		mg/Kg		89	75 - 125
Chromium	44		33.3	71.2		mg/Kg		81	75 - 125
Cobalt	15		33.3	40.9		mg/Kg		78	75 - 125
Copper	640	F2	33.3	967	4	mg/Kg		977	75 - 125
Lead	180		33.3	276	4	mg/Kg		290	75 - 125
Molybdenum	0.47	J	33.3	28.8		mg/Kg		85	75 - 125
Nickel	48	F1	33.3	72.3	F1	mg/Kg		74	75 - 125
Selenium	2.4	J	33.3	30.3		mg/Kg		84	75 - 125
Silver	ND		16.7	14.9		mg/Kg		90	75 - 125
Thallium	ND		33.3	28.6		mg/Kg		86	75 - 125
Vanadium	49	F1	33.3	69.6	F1	mg/Kg		61	75 - 125
Zinc	300		33.3	318	4	mg/Kg		65	75 - 125

Lab Sample ID: 720-90759-A-47-B MSD
Matrix: Solid
Analysis Batch: 258961

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.5	F1	33.1	14.0	F1	mg/Kg		29	75 - 125	11	20
Arsenic	13	B	33.1	44.5		mg/Kg		94	75 - 125	5	20
Barium	100	B F1	33.1	136		mg/Kg		102	75 - 125	15	20
Beryllium	0.90		33.1	35.9		mg/Kg		106	75 - 125	13	20
Cadmium	0.64		33.1	31.4		mg/Kg		93	75 - 125	4	20
Chromium	44		33.1	85.7		mg/Kg		125	75 - 125	18	20
Cobalt	15		33.1	44.7		mg/Kg		90	75 - 125	9	20
Copper	640	F2	33.1	1480	4 F2	mg/Kg		2541	75 - 125	42	20
Lead	180		33.1	290	4	mg/Kg		335	75 - 125	5	20
Molybdenum	0.47	J	33.1	30.9		mg/Kg		92	75 - 125	7	20
Nickel	48	F1	33.1	78.3		mg/Kg		93	75 - 125	8	20
Selenium	2.4	J	33.1	32.4		mg/Kg		91	75 - 125	7	20
Silver	ND		16.6	16.3		mg/Kg		98	75 - 125	9	20
Thallium	ND		33.1	30.1		mg/Kg		91	75 - 125	5	20
Vanadium	49	F1	33.1	80.0		mg/Kg		93	75 - 125	14	20
Zinc	300		33.1	337	4	mg/Kg		122	75 - 125	6	20

Lab Sample ID: MB 720-258625/1-A
Matrix: Solid
Analysis Batch: 258923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Arsenic	ND		1.0	0.085	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Barium	ND		0.50	0.071	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Beryllium	ND		0.10	0.033	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Cadmium	ND		0.13	0.012	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Chromium	ND		0.50	0.053	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Cobalt	ND		0.20	0.020	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Copper	ND		1.5	0.71	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Lead	0.180	J	0.50	0.11	mg/Kg		01/16/19 11:20	01/21/19 18:37	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-258625/1-A
Matrix: Solid
Analysis Batch: 258923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Nickel	ND		0.50	0.051	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Selenium	ND		1.0	0.15	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Silver	ND		0.25	0.051	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Thallium	ND		0.50	0.15	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Vanadium	ND		0.50	0.068	mg/Kg		01/16/19 11:20	01/21/19 18:37	1
Zinc	ND		1.5	0.64	mg/Kg		01/16/19 11:20	01/21/19 18:37	1

Lab Sample ID: LCS 720-258625/2-A
Matrix: Solid
Analysis Batch: 258923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.3		mg/Kg		101	80 - 120
Arsenic	50.0	50.4		mg/Kg		101	80 - 120
Barium	50.0	50.3		mg/Kg		101	80 - 120
Beryllium	50.0	48.2		mg/Kg		96	80 - 120
Cadmium	50.0	49.3		mg/Kg		99	80 - 120
Chromium	50.0	50.1		mg/Kg		100	80 - 120
Cobalt	50.0	51.1		mg/Kg		102	80 - 120
Copper	50.0	50.0		mg/Kg		100	80 - 120
Lead	50.0	51.0		mg/Kg		102	80 - 120
Molybdenum	50.0	51.3		mg/Kg		103	80 - 120
Nickel	50.0	50.6		mg/Kg		101	80 - 120
Selenium	50.0	49.1		mg/Kg		98	80 - 120
Silver	25.0	24.1		mg/Kg		96	80 - 120
Thallium	50.0	51.2		mg/Kg		102	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	49.4		mg/Kg		99	80 - 120

Lab Sample ID: 720-90791-12 MS
Matrix: Solid
Analysis Batch: 258923

Client Sample ID: DG-AO10S-0.5-1
Prep Type: Total/NA
Prep Batch: 258625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.9	F1	34.7	9.03	F1	mg/Kg		18	75 - 125
Arsenic	4.7		34.7	33.8		mg/Kg		84	75 - 125
Barium	170	F2	34.7	139	4	mg/Kg		-78	75 - 125
Beryllium	ND		34.7	30.6		mg/Kg		88	75 - 125
Cadmium	1.6		34.7	31.7		mg/Kg		87	75 - 125
Chromium	28	F1	34.7	50.6	F1	mg/Kg		65	75 - 125
Cobalt	11		34.7	39.8		mg/Kg		82	75 - 125
Copper	180		34.7	161	4	mg/Kg		-65	75 - 125
Lead	320	B F2	34.7	287	4	mg/Kg		-86	75 - 125
Molybdenum	1.1	J	34.7	31.9		mg/Kg		89	75 - 125
Nickel	12		34.7	43.3		mg/Kg		90	75 - 125
Selenium	1.7	J	34.7	31.9		mg/Kg		87	75 - 125
Silver	0.24	J	17.4	15.6		mg/Kg		88	75 - 125
Thallium	ND		34.7	30.6		mg/Kg		88	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90791-12 MS
Matrix: Solid
Analysis Batch: 258923

Client Sample ID: DG-AO10S-0.5-1
Prep Type: Total/NA
Prep Batch: 258625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	81	F1	34.7	91.9	F1	mg/Kg		32	75 - 125
Zinc	630		34.7	514	4	mg/Kg		-334	75 - 125

Lab Sample ID: 720-90791-12 MSD
Matrix: Solid
Analysis Batch: 258923

Client Sample ID: DG-AO10S-0.5-1
Prep Type: Total/NA
Prep Batch: 258625

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.9	F1	34.7	8.78	F1	mg/Kg		17	75 - 125	3	20
Arsenic	4.7		34.7	32.6		mg/Kg		80	75 - 125	4	20
Barium	170	F2	34.7	190	4 F2	mg/Kg		70	75 - 125	31	20
Beryllium	ND		34.7	27.6		mg/Kg		79	75 - 125	10	20
Cadmium	1.6		34.7	29.0		mg/Kg		79	75 - 125	9	20
Chromium	28	F1	34.7	50.9	F1	mg/Kg		66	75 - 125	1	20
Cobalt	11		34.7	37.8		mg/Kg		76	75 - 125	5	20
Copper	180		34.7	182	4	mg/Kg		-5	75 - 125	12	20
Lead	320	B F2	34.7	482	4 F2	mg/Kg		474	75 - 125	51	20
Molybdenum	1.1	J	34.7	28.1		mg/Kg		78	75 - 125	13	20
Nickel	12		34.7	42.3		mg/Kg		87	75 - 125	2	20
Selenium	1.7	J	34.7	29.8		mg/Kg		81	75 - 125	7	20
Silver	0.24	J	17.4	14.2		mg/Kg		81	75 - 125	9	20
Thallium	ND		34.7	28.3		mg/Kg		82	75 - 125	8	20
Vanadium	81	F1	34.7	92.7	F1	mg/Kg		34	75 - 125	1	20
Zinc	630		34.7	594	4	mg/Kg		-103	75 - 125	14	20

Lab Sample ID: MB 720-258633/1-A
Matrix: Solid
Analysis Batch: 259173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.114	J	0.50	0.083	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Arsenic	ND		1.0	0.085	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Barium	0.0970	J	0.50	0.071	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Beryllium	ND		0.10	0.033	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Cadmium	ND		0.13	0.012	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Chromium	ND		0.50	0.053	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Cobalt	ND		0.20	0.020	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Copper	ND		1.5	0.71	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Lead	0.114	J	0.50	0.11	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Nickel	ND		0.50	0.051	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Selenium	ND		1.0	0.15	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Silver	ND		0.25	0.051	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Thallium	ND		0.50	0.15	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Vanadium	ND		0.50	0.068	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Zinc	ND		1.5	0.64	mg/Kg		01/23/19 16:28	01/24/19 14:14	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-258633/2-A
Matrix: Solid
Analysis Batch: 259173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.1		mg/Kg		94	80 - 120
Arsenic	50.0	48.4		mg/Kg		97	80 - 120
Barium	50.0	47.9		mg/Kg		96	80 - 120
Beryllium	50.0	47.6		mg/Kg		95	80 - 120
Cadmium	50.0	45.8		mg/Kg		92	80 - 120
Chromium	50.0	48.9		mg/Kg		98	80 - 120
Cobalt	50.0	48.1		mg/Kg		96	80 - 120
Copper	50.0	50.1		mg/Kg		100	80 - 120
Lead	50.0	49.7		mg/Kg		99	80 - 120
Molybdenum	50.0	48.9		mg/Kg		98	80 - 120
Nickel	50.0	49.5		mg/Kg		99	80 - 120
Selenium	50.0	48.6		mg/Kg		97	80 - 120
Silver	25.0	24.9		mg/Kg		100	80 - 120
Thallium	50.0	50.8		mg/Kg		102	80 - 120
Vanadium	50.0	49.3		mg/Kg		99	80 - 120
Zinc	50.0	48.4		mg/Kg		97	80 - 120

Lab Sample ID: 720-90791-32 MS
Matrix: Solid
Analysis Batch: 259173

Client Sample ID: DG-AE10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	42.0	8.20	F1	mg/Kg		20	75 - 125
Arsenic	0.89	J	42.0	40.1		mg/Kg		93	75 - 125
Barium	19	B	42.0	59.2		mg/Kg		95	75 - 125
Beryllium	ND		42.0	39.4		mg/Kg		94	75 - 125
Cadmium	ND		42.0	36.9		mg/Kg		88	75 - 125
Chromium	8.3		42.0	47.8		mg/Kg		94	75 - 125
Cobalt	6.3		42.0	46.2		mg/Kg		95	75 - 125
Copper	76	F2 F1	42.0	111		mg/Kg		84	75 - 125
Lead	1.4	J B	42.0	42.7		mg/Kg		98	75 - 125
Molybdenum	ND		42.0	37.5		mg/Kg		89	75 - 125
Nickel	3.9		42.0	45.1		mg/Kg		98	75 - 125
Selenium	ND		42.0	39.9		mg/Kg		95	75 - 125
Silver	ND		21.0	19.6		mg/Kg		93	75 - 125
Thallium	0.52	J	42.0	40.4		mg/Kg		95	75 - 125
Vanadium	54		42.0	98.1		mg/Kg		105	75 - 125
Zinc	95	F1	42.0	157	F1	mg/Kg		149	75 - 125

Lab Sample ID: 720-90791-32 MSD
Matrix: Solid
Analysis Batch: 259173

Client Sample ID: DG-AE10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	41.3	9.88	F1	mg/Kg		24	75 - 125	19	20
Arsenic	0.89	J	41.3	41.1		mg/Kg		97	75 - 125	2	20
Barium	19	B	41.3	59.4		mg/Kg		97	75 - 125	0	20
Beryllium	ND		41.3	40.4		mg/Kg		98	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90791-32 MSD
Matrix: Solid
Analysis Batch: 259173

Client Sample ID: DG-AE10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	ND		41.3	39.0		mg/Kg		94	75 - 125	5	20
Chromium	8.3		41.3	49.0		mg/Kg		98	75 - 125	2	20
Cobalt	6.3		41.3	47.1		mg/Kg		99	75 - 125	2	20
Copper	76	F2 F1	41.3	142	F1 F2	mg/Kg		160	75 - 125	24	20
Lead	1.4	J B	41.3	42.7		mg/Kg		100	75 - 125	0	20
Molybdenum	ND		41.3	38.1		mg/Kg		92	75 - 125	2	20
Nickel	3.9		41.3	44.3		mg/Kg		98	75 - 125	2	20
Selenium	ND		41.3	40.5		mg/Kg		98	75 - 125	2	20
Silver	ND		20.7	20.1		mg/Kg		97	75 - 125	2	20
Thallium	0.52	J	41.3	40.2		mg/Kg		96	75 - 125	1	20
Vanadium	54		41.3	99.7		mg/Kg		110	75 - 125	2	20
Zinc	95	F1	41.3	147	F1	mg/Kg		126	75 - 125	7	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-258548/1-A
Matrix: Solid
Analysis Batch: 259219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/24/19 10:35	01/24/19 19:34	1

Lab Sample ID: LCS 720-258548/2-A
Matrix: Solid
Analysis Batch: 259219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.843		mg/Kg		101	80 - 120

Lab Sample ID: 720-90759-A-47-D MS
Matrix: Solid
Analysis Batch: 259219

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.19		0.806	0.989		mg/Kg		100	75 - 125

Lab Sample ID: 720-90759-A-47-E MSD
Matrix: Solid
Analysis Batch: 259219

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 258548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19		0.833	1.01		mg/Kg		99	75 - 125	2	20

Lab Sample ID: MB 720-258626/1-A
Matrix: Solid
Analysis Batch: 259218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/24/19 09:31	01/24/19 18:29	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-258626/2-A
Matrix: Solid
Analysis Batch: 259218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258626

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.810		mg/Kg		97	80 - 120		

Lab Sample ID: 720-90791-12 MS
Matrix: Solid
Analysis Batch: 259218

Client Sample ID: DG-AO10S-0.5-1
Prep Type: Total/NA
Prep Batch: 258626

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.19		0.746	0.950		mg/Kg		102	75 - 125		

Lab Sample ID: 720-90791-12 MSD
Matrix: Solid
Analysis Batch: 259218

Client Sample ID: DG-AO10S-0.5-1
Prep Type: Total/NA
Prep Batch: 258626

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19		0.725	0.896		mg/Kg		98	75 - 125	6	20

Lab Sample ID: MB 720-258634/1-A
Matrix: Solid
Analysis Batch: 259220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/24/19 09:31	01/24/19 20:40	1

Lab Sample ID: LCS 720-258634/2-A
Matrix: Solid
Analysis Batch: 259220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258634

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.842		mg/Kg		101	80 - 120		

Lab Sample ID: 720-90791-32 MS
Matrix: Solid
Analysis Batch: 259220

Client Sample ID: DG-AE10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.10		0.704	0.812		mg/Kg		101	75 - 125		

Lab Sample ID: 720-90791-32 MSD
Matrix: Solid
Analysis Batch: 259220

Client Sample ID: DG-AE10S-3.5-4
Prep Type: Total/NA
Prep Batch: 258634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.10		0.714	0.799		mg/Kg		97	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90791-1 DU
Matrix: Solid
Analysis Batch: 258631

Client Sample ID: DG-N8S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.5			6.6		%				13	20

Lab Sample ID: 720-90791-20 DU
Matrix: Solid
Analysis Batch: 258643

Client Sample ID: DG-AL10S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.9			13.7		%				6	20

Metals

Prep Batch: 258547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-1	DG-N8S-0.5-1	Total/NA	Solid	3050B	
720-90791-2	DG-N8S-3.5-4	Total/NA	Solid	3050B	
720-90791-3	DG-Q8S-0.5-1	Total/NA	Solid	3050B	
720-90791-4	DG-Q8S-3.5-4	Total/NA	Solid	3050B	
720-90791-5	DG-T8S-0.5-1	Total/NA	Solid	3050B	
720-90791-6	DG-T8S-3.5-4	Total/NA	Solid	3050B	
720-90791-7	DG-U8S-0.5-1	Total/NA	Solid	3050B	
720-90791-8	DG-U8S-3.5-4	Total/NA	Solid	3050B	
720-90791-9	DG-V8S-0.5-1	Total/NA	Solid	3050B	
720-90791-10	DG-V8S-3.5-4	Total/NA	Solid	3050B	
720-90791-11	DG-AN8S-3.5-4	Total/NA	Solid	3050B	
MB 720-258547/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258547/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90759-A-47-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-90759-A-47-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 258548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-1	DG-N8S-0.5-1	Total/NA	Solid	7471A	
720-90791-2	DG-N8S-3.5-4	Total/NA	Solid	7471A	
720-90791-3	DG-Q8S-0.5-1	Total/NA	Solid	7471A	
720-90791-4	DG-Q8S-3.5-4	Total/NA	Solid	7471A	
720-90791-5	DG-T8S-0.5-1	Total/NA	Solid	7471A	
720-90791-6	DG-T8S-3.5-4	Total/NA	Solid	7471A	
720-90791-7	DG-U8S-0.5-1	Total/NA	Solid	7471A	
720-90791-8	DG-U8S-3.5-4	Total/NA	Solid	7471A	
720-90791-9	DG-V8S-0.5-1	Total/NA	Solid	7471A	
720-90791-10	DG-V8S-3.5-4	Total/NA	Solid	7471A	
720-90791-11	DG-AN8S-3.5-4	Total/NA	Solid	7471A	
MB 720-258548/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258548/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90759-A-47-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-90759-A-47-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 258625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-12	DG-AO10S-0.5-1	Total/NA	Solid	3050B	
720-90791-13	DG-AO10S-3.5-4	Total/NA	Solid	3050B	
720-90791-14	DG-AN10S-0.5-1	Total/NA	Solid	3050B	
720-90791-15	DG-AN10S-3.5-4	Total/NA	Solid	3050B	
720-90791-17	DG-AM10S-0.5-1	Total/NA	Solid	3050B	
720-90791-18	DG-AM10S-3.5-4	Total/NA	Solid	3050B	
720-90791-19	DG-AL10S-0.5-1	Total/NA	Solid	3050B	
720-90791-20	DG-AL10S-3.5-4	Total/NA	Solid	3050B	
720-90791-21	DG-AK10S-0.5-1	Total/NA	Solid	3050B	
720-90791-22	DG-AK10S-3.5-4	Total/NA	Solid	3050B	
720-90791-23	DG-AJ10S-0.5-1	Total/NA	Solid	3050B	
720-90791-24	DG-AJ10S-3.5-4	Total/NA	Solid	3050B	
720-90791-25	DG-AH10S-0.5-1	Total/NA	Solid	3050B	
720-90791-26	DG-AH10S-3.5-4	Total/NA	Solid	3050B	
720-90791-27	DG-AG10S-0.5-1	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 258625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-28	DG-AG10S-3.5-4	Total/NA	Solid	3050B	
720-90791-29	DG-AF10S-0.5-1	Total/NA	Solid	3050B	
720-90791-30	DG-AF10S-3.5-4	Total/NA	Solid	3050B	
720-90791-31	DG-AE10S-0.5-1	Total/NA	Solid	3050B	
MB 720-258625/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258625/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90791-12 MS	DG-AO10S-0.5-1	Total/NA	Solid	3050B	
720-90791-12 MSD	DG-AO10S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 258626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-12	DG-AO10S-0.5-1	Total/NA	Solid	7471A	
720-90791-13	DG-AO10S-3.5-4	Total/NA	Solid	7471A	
720-90791-14	DG-AN10S-0.5-1	Total/NA	Solid	7471A	
720-90791-15	DG-AN10S-3.5-4	Total/NA	Solid	7471A	
720-90791-17	DG-AM10S-0.5-1	Total/NA	Solid	7471A	
720-90791-18	DG-AM10S-3.5-4	Total/NA	Solid	7471A	
720-90791-19	DG-AL10S-0.5-1	Total/NA	Solid	7471A	
720-90791-20	DG-AL10S-3.5-4	Total/NA	Solid	7471A	
720-90791-21	DG-AK10S-0.5-1	Total/NA	Solid	7471A	
720-90791-22	DG-AK10S-3.5-4	Total/NA	Solid	7471A	
720-90791-23	DG-AJ10S-0.5-1	Total/NA	Solid	7471A	
720-90791-24	DG-AJ10S-3.5-4	Total/NA	Solid	7471A	
720-90791-25	DG-AH10S-0.5-1	Total/NA	Solid	7471A	
720-90791-26	DG-AH10S-3.5-4	Total/NA	Solid	7471A	
720-90791-27	DG-AG10S-0.5-1	Total/NA	Solid	7471A	
720-90791-28	DG-AG10S-3.5-4	Total/NA	Solid	7471A	
720-90791-29	DG-AF10S-0.5-1	Total/NA	Solid	7471A	
720-90791-30	DG-AF10S-3.5-4	Total/NA	Solid	7471A	
720-90791-31	DG-AE10S-0.5-1	Total/NA	Solid	7471A	
MB 720-258626/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258626/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90791-12 MS	DG-AO10S-0.5-1	Total/NA	Solid	7471A	
720-90791-12 MSD	DG-AO10S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 258633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-32	DG-AE10S-3.5-4	Total/NA	Solid	3050B	
720-90791-33	DG-AD10S-0.5-1	Total/NA	Solid	3050B	
720-90791-34	DG-AD10S-3.5-4	Total/NA	Solid	3050B	
720-90791-36	DUP-51	Total/NA	Solid	3050B	
720-90791-37	DUP-71	Total/NA	Solid	3050B	
720-90791-38	DUP-70	Total/NA	Solid	3050B	
MB 720-258633/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258633/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90791-32 MS	DG-AE10S-3.5-4	Total/NA	Solid	3050B	
720-90791-32 MSD	DG-AE10S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 258634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-32	DG-AE10S-3.5-4	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 258634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-33	DG-AD10S-0.5-1	Total/NA	Solid	7471A	
720-90791-34	DG-AD10S-3.5-4	Total/NA	Solid	7471A	
720-90791-36	DUP-51	Total/NA	Solid	7471A	
720-90791-37	DUP-71	Total/NA	Solid	7471A	
720-90791-38	DUP-70	Total/NA	Solid	7471A	
MB 720-258634/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258634/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90791-32 MS	DG-AE10S-3.5-4	Total/NA	Solid	7471A	
720-90791-32 MSD	DG-AE10S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 258839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-13	DG-AO10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-14	DG-AN10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-15	DG-AN10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-17	DG-AM10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-18	DG-AM10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-19	DG-AL10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-20	DG-AL10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-21	DG-AK10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-22	DG-AK10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-23	DG-AJ10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-24	DG-AJ10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-25	DG-AH10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-26	DG-AH10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-27	DG-AG10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-28	DG-AG10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-29	DG-AF10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-30	DG-AF10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-31	DG-AE10S-0.5-1	Total/NA	Solid	6010B	258625

Analysis Batch: 258923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-12	DG-AO10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-13	DG-AO10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-14	DG-AN10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-15	DG-AN10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-17	DG-AM10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-18	DG-AM10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-19	DG-AL10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-20	DG-AL10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-21	DG-AK10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-22	DG-AK10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-23	DG-AJ10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-24	DG-AJ10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-25	DG-AH10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-26	DG-AH10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-27	DG-AG10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-28	DG-AG10S-3.5-4	Total/NA	Solid	6010B	258625
720-90791-29	DG-AF10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-30	DG-AF10S-3.5-4	Total/NA	Solid	6010B	258625

Metals (Continued)

Analysis Batch: 258923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-31	DG-AE10S-0.5-1	Total/NA	Solid	6010B	258625
MB 720-258625/1-A	Method Blank	Total/NA	Solid	6010B	258625
LCS 720-258625/2-A	Lab Control Sample	Total/NA	Solid	6010B	258625
720-90791-12 MS	DG-AO10S-0.5-1	Total/NA	Solid	6010B	258625
720-90791-12 MSD	DG-AO10S-0.5-1	Total/NA	Solid	6010B	258625

Analysis Batch: 258926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-1	DG-N8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-2	DG-N8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-3	DG-Q8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-4	DG-Q8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-5	DG-T8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-6	DG-T8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-7	DG-U8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-8	DG-U8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-9	DG-V8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-10	DG-V8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-11	DG-AN8S-3.5-4	Total/NA	Solid	6010B	258547
LCS 720-258547/2-A	Lab Control Sample	Total/NA	Solid	6010B	258547

Analysis Batch: 258961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-1	DG-N8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-2	DG-N8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-3	DG-Q8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-4	DG-Q8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-5	DG-T8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-6	DG-T8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-7	DG-U8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-8	DG-U8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-9	DG-V8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-10	DG-V8S-3.5-4	Total/NA	Solid	6010B	258547
MB 720-258547/1-A	Method Blank	Total/NA	Solid	6010B	258547
720-90759-A-47-A MS	Matrix Spike	Total/NA	Solid	6010B	258547
720-90759-A-47-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	258547

Analysis Batch: 259044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-3	DG-Q8S-0.5-1	Total/NA	Solid	6010B	258547
720-90791-6	DG-T8S-3.5-4	Total/NA	Solid	6010B	258547
720-90791-8	DG-U8S-3.5-4	Total/NA	Solid	6010B	258547

Analysis Batch: 259144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-33	DG-AD10S-0.5-1	Total/NA	Solid	6010B	258633
720-90791-34	DG-AD10S-3.5-4	Total/NA	Solid	6010B	258633
720-90791-36	DUP-51	Total/NA	Solid	6010B	258633
720-90791-37	DUP-71	Total/NA	Solid	6010B	258633
720-90791-38	DUP-70	Total/NA	Solid	6010B	258633

Metals (Continued)

Analysis Batch: 259173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-32	DG-AE10S-3.5-4	Total/NA	Solid	6010B	258633
720-90791-33	DG-AD10S-0.5-1	Total/NA	Solid	6010B	258633
720-90791-34	DG-AD10S-3.5-4	Total/NA	Solid	6010B	258633
720-90791-36	DUP-51	Total/NA	Solid	6010B	258633
720-90791-37	DUP-71	Total/NA	Solid	6010B	258633
720-90791-38	DUP-70	Total/NA	Solid	6010B	258633
MB 720-258633/1-A	Method Blank	Total/NA	Solid	6010B	258633
LCS 720-258633/2-A	Lab Control Sample	Total/NA	Solid	6010B	258633
720-90791-32 MS	DG-AE10S-3.5-4	Total/NA	Solid	6010B	258633
720-90791-32 MSD	DG-AE10S-3.5-4	Total/NA	Solid	6010B	258633

Analysis Batch: 259218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-12	DG-AO10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-13	DG-AO10S-3.5-4	Total/NA	Solid	7471A	258626
720-90791-14	DG-AN10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-15	DG-AN10S-3.5-4	Total/NA	Solid	7471A	258626
720-90791-17	DG-AM10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-18	DG-AM10S-3.5-4	Total/NA	Solid	7471A	258626
720-90791-19	DG-AL10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-20	DG-AL10S-3.5-4	Total/NA	Solid	7471A	258626
720-90791-21	DG-AK10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-22	DG-AK10S-3.5-4	Total/NA	Solid	7471A	258626
720-90791-23	DG-AJ10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-24	DG-AJ10S-3.5-4	Total/NA	Solid	7471A	258626
720-90791-25	DG-AH10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-26	DG-AH10S-3.5-4	Total/NA	Solid	7471A	258626
720-90791-27	DG-AG10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-28	DG-AG10S-3.5-4	Total/NA	Solid	7471A	258626
720-90791-29	DG-AF10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-30	DG-AF10S-3.5-4	Total/NA	Solid	7471A	258626
720-90791-31	DG-AE10S-0.5-1	Total/NA	Solid	7471A	258626
MB 720-258626/1-A	Method Blank	Total/NA	Solid	7471A	258626
LCS 720-258626/2-A	Lab Control Sample	Total/NA	Solid	7471A	258626
720-90791-12 MS	DG-AO10S-0.5-1	Total/NA	Solid	7471A	258626
720-90791-12 MSD	DG-AO10S-0.5-1	Total/NA	Solid	7471A	258626

Analysis Batch: 259219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-1	DG-N8S-0.5-1	Total/NA	Solid	7471A	258548
720-90791-2	DG-N8S-3.5-4	Total/NA	Solid	7471A	258548
720-90791-3	DG-Q8S-0.5-1	Total/NA	Solid	7471A	258548
720-90791-4	DG-Q8S-3.5-4	Total/NA	Solid	7471A	258548
720-90791-5	DG-T8S-0.5-1	Total/NA	Solid	7471A	258548
720-90791-6	DG-T8S-3.5-4	Total/NA	Solid	7471A	258548
720-90791-7	DG-U8S-0.5-1	Total/NA	Solid	7471A	258548
720-90791-8	DG-U8S-3.5-4	Total/NA	Solid	7471A	258548
720-90791-9	DG-V8S-0.5-1	Total/NA	Solid	7471A	258548
720-90791-10	DG-V8S-3.5-4	Total/NA	Solid	7471A	258548
720-90791-11	DG-AN8S-3.5-4	Total/NA	Solid	7471A	258548
MB 720-258548/1-A	Method Blank	Total/NA	Solid	7471A	258548

Metals (Continued)

Analysis Batch: 259219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-258548/2-A	Lab Control Sample	Total/NA	Solid	7471A	258548
720-90759-A-47-D MS	Matrix Spike	Total/NA	Solid	7471A	258548
720-90759-A-47-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	258548

Analysis Batch: 259220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-32	DG-AE10S-3.5-4	Total/NA	Solid	7471A	258634
720-90791-33	DG-AD10S-0.5-1	Total/NA	Solid	7471A	258634
720-90791-34	DG-AD10S-3.5-4	Total/NA	Solid	7471A	258634
720-90791-36	DUP-51	Total/NA	Solid	7471A	258634
720-90791-37	DUP-71	Total/NA	Solid	7471A	258634
720-90791-38	DUP-70	Total/NA	Solid	7471A	258634
MB 720-258634/1-A	Method Blank	Total/NA	Solid	7471A	258634
LCS 720-258634/2-A	Lab Control Sample	Total/NA	Solid	7471A	258634
720-90791-32 MS	DG-AE10S-3.5-4	Total/NA	Solid	7471A	258634
720-90791-32 MSD	DG-AE10S-3.5-4	Total/NA	Solid	7471A	258634

General Chemistry

Analysis Batch: 258631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-1	DG-N8S-0.5-1	Total/NA	Solid	Moisture	
720-90791-2	DG-N8S-3.5-4	Total/NA	Solid	Moisture	
720-90791-3	DG-Q8S-0.5-1	Total/NA	Solid	Moisture	
720-90791-4	DG-Q8S-3.5-4	Total/NA	Solid	Moisture	
720-90791-5	DG-T8S-0.5-1	Total/NA	Solid	Moisture	
720-90791-6	DG-T8S-3.5-4	Total/NA	Solid	Moisture	
720-90791-7	DG-U8S-0.5-1	Total/NA	Solid	Moisture	
720-90791-8	DG-U8S-3.5-4	Total/NA	Solid	Moisture	
720-90791-9	DG-V8S-0.5-1	Total/NA	Solid	Moisture	
720-90791-10	DG-V8S-3.5-4	Total/NA	Solid	Moisture	
720-90791-11	DG-AN8S-3.5-4	Total/NA	Solid	Moisture	
720-90791-12	DG-AO10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-13	DG-AO10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-14	DG-AN10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-15	DG-AN10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-17	DG-AM10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-18	DG-AM10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-19	DG-AL10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-1 DU	DG-N8S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 258643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-20	DG-AL10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-21	DG-AK10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-22	DG-AK10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-23	DG-AJ10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-24	DG-AJ10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-25	DG-AH10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-26	DG-AH10S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 258643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90791-27	DG-AG10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-28	DG-AG10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-29	DG-AF10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-30	DG-AF10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-31	DG-AE10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-32	DG-AE10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-33	DG-AD10S-0.5-1	Total/NA	Solid	Moisture	
720-90791-34	DG-AD10S-3.5-4	Total/NA	Solid	Moisture	
720-90791-36	DUP-51	Total/NA	Solid	Moisture	
720-90791-37	DUP-71	Total/NA	Solid	Moisture	
720-90791-38	DUP-70	Total/NA	Solid	Moisture	
720-90791-20 DU	DG-AL10S-3.5-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-N8S-0.5-1

Lab Sample ID: 720-90791-1

Date Collected: 01/15/19 07:45

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258926	01/21/19 19:57	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 12:14	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-N8S-3.5-4

Lab Sample ID: 720-90791-2

Date Collected: 01/15/19 07:45

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 20:02	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 12:19	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-Q8S-0.5-1

Lab Sample ID: 720-90791-3

Date Collected: 01/15/19 08:05

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 20:07	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258961	01/22/19 12:24	OBI	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259044	01/23/19 10:58	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-Q8S-3.5-4

Lab Sample ID: 720-90791-4

Date Collected: 01/15/19 08:05

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 20:11	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90791-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 12:28	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-T8S-0.5-1
Lab Sample ID: 720-90791-5
Date Collected: 01/15/19 08:30
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 20:16	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 12:33	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-T8S-3.5-4
Lab Sample ID: 720-90791-6
Date Collected: 01/15/19 08:30
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 20:21	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258961	01/22/19 12:38	OBI	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259044	01/23/19 11:03	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-U8S-0.5-1
Lab Sample ID: 720-90791-7
Date Collected: 01/15/19 08:45
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 20:25	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 12:53	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-U8S-3.5-4

Lab Sample ID: 720-90791-8

Date Collected: 01/15/19 08:45

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 20:30	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258961	01/22/19 12:58	OBI	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259044	01/23/19 11:08	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-V8S-0.5-1

Lab Sample ID: 720-90791-9

Date Collected: 01/15/19 09:00

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258926	01/21/19 20:45	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		20	258961	01/22/19 13:03	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-V8S-3.5-4

Lab Sample ID: 720-90791-10

Date Collected: 01/15/19 09:00

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 20:49	BKR	TAL PLS
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258961	01/22/19 13:07	OBI	TAL PLS
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-AN8S-3.5-4

Lab Sample ID: 720-90791-11

Date Collected: 01/15/19 11:00

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258547	01/16/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258926	01/21/19 20:54	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-AN8S-3.5-4

Lab Sample ID: 720-90791-11

Date Collected: 01/15/19 11:00
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			258548	01/24/19 10:35	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259219	01/24/19 20:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-AO10S-0.5-1

Lab Sample ID: 720-90791-12

Date Collected: 01/15/19 11:25
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 19:14	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 18:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-AO10S-3.5-4

Lab Sample ID: 720-90791-13

Date Collected: 01/15/19 11:25
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 15:46	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		10	258923	01/21/19 19:19	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 18:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-AN10S-0.5-1

Lab Sample ID: 720-90791-14

Date Collected: 01/15/19 11:40
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 15:50	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 19:24	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 18:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-AN10S-3.5-4

Lab Sample ID: 720-90791-15

Date Collected: 01/15/19 11:40
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 15:55	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 19:29	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		4	259218	01/24/19 18:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-AM10S-0.5-1

Lab Sample ID: 720-90791-17

Date Collected: 01/15/19 12:45
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 16:14	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 19:38	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 18:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-AM10S-3.5-4

Lab Sample ID: 720-90791-18

Date Collected: 01/15/19 12:45
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 16:19	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 19:43	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 18:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-AL10S-0.5-1

Lab Sample ID: 720-90791-19

Date Collected: 01/15/19 13:20
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 16:23	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 19:47	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-AL10S-0.5-1

Lab Sample ID: 720-90791-19

Date Collected: 01/15/19 13:20
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258631	01/16/19 11:56	TNL	TAL PLS

Client Sample ID: DG-AL10S-3.5-4

Lab Sample ID: 720-90791-20

Date Collected: 01/15/19 13:20
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 16:28	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 19:52	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AK10S-0.5-1

Lab Sample ID: 720-90791-21

Date Collected: 01/15/19 13:35
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 16:33	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 19:57	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AK10S-3.5-4

Lab Sample ID: 720-90791-22

Date Collected: 01/15/19 13:35
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 16:37	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:11	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-AJ10S-0.5-1

Lab Sample ID: 720-90791-23

Date Collected: 01/15/19 14:00
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 16:42	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:16	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AJ10S-3.5-4

Lab Sample ID: 720-90791-24

Date Collected: 01/15/19 14:00
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 16:47	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:21	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AH10S-0.5-1

Lab Sample ID: 720-90791-25

Date Collected: 01/15/19 14:15
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 16:51	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:25	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AH10S-3.5-4

Lab Sample ID: 720-90791-26

Date Collected: 01/15/19 14:50
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 17:06	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:30	OBI	TAL PLS

Client Sample ID: DG-AH10S-3.5-4

Lab Sample ID: 720-90791-26

Date Collected: 01/15/19 14:50

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AG10S-0.5-1

Lab Sample ID: 720-90791-27

Date Collected: 01/15/19 14:50

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 17:10	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:35	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AG10S-3.5-4

Lab Sample ID: 720-90791-28

Date Collected: 01/15/19 14:50

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 17:15	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:40	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AF10S-0.5-1

Lab Sample ID: 720-90791-29

Date Collected: 01/15/19 15:10

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 17:19	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:45	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AF10S-3.5-4

Lab Sample ID: 720-90791-30

Date Collected: 01/15/19 15:10

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 17:24	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:49	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AE10S-0.5-1

Lab Sample ID: 720-90791-31

Date Collected: 01/15/19 15:30

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258839	01/18/19 17:29	BKR	TAL PLS
Total/NA	Prep	3050B			258625	01/16/19 11:20	SUN	TAL PLS
Total/NA	Analysis	6010B		4	258923	01/21/19 20:54	OBI	TAL PLS
Total/NA	Prep	7471A			258626	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259218	01/24/19 19:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AE10S-3.5-4

Lab Sample ID: 720-90791-32

Date Collected: 01/15/19 15:30

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259173	01/24/19 14:43	BKR	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 20:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AD10S-0.5-1

Lab Sample ID: 720-90791-33

Date Collected: 01/15/19 15:40

Matrix: Solid

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259144	01/24/19 11:08	OBI	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259173	01/24/19 14:48	BKR	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 20:56	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DG-AD10S-0.5-1

Lab Sample ID: 720-90791-33

Date Collected: 01/15/19 15:40
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DG-AD10S-3.5-4

Lab Sample ID: 720-90791-34

Date Collected: 01/15/19 15:40
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259144	01/24/19 11:13	OBI	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259173	01/24/19 14:52	BKR	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 20:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DUP-51

Lab Sample ID: 720-90791-36

Date Collected: 01/15/19 00:00
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259144	01/24/19 12:18	OBI	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259173	01/24/19 14:57	BKR	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Client Sample ID: DUP-71

Lab Sample ID: 720-90791-37

Date Collected: 01/15/19 00:00
Matrix: Solid
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259144	01/24/19 12:22	OBI	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259173	01/24/19 15:11	BKR	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Client Sample ID: DUP-70

Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90791-38

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259144	01/24/19 12:27	OBI	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259173	01/24/19 15:16	BKR	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258643	01/16/19 14:07	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90791-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90791-1	DG-N8S-0.5-1	Solid	01/15/19 07:45	01/15/19 19:00
720-90791-2	DG-N8S-3.5-4	Solid	01/15/19 07:45	01/15/19 19:00
720-90791-3	DG-Q8S-0.5-1	Solid	01/15/19 08:05	01/15/19 19:00
720-90791-4	DG-Q8S-3.5-4	Solid	01/15/19 08:05	01/15/19 19:00
720-90791-5	DG-T8S-0.5-1	Solid	01/15/19 08:30	01/15/19 19:00
720-90791-6	DG-T8S-3.5-4	Solid	01/15/19 08:30	01/15/19 19:00
720-90791-7	DG-U8S-0.5-1	Solid	01/15/19 08:45	01/15/19 19:00
720-90791-8	DG-U8S-3.5-4	Solid	01/15/19 08:45	01/15/19 19:00
720-90791-9	DG-V8S-0.5-1	Solid	01/15/19 09:00	01/15/19 19:00
720-90791-10	DG-V8S-3.5-4	Solid	01/15/19 09:00	01/15/19 19:00
720-90791-11	DG-AN8S-3.5-4	Solid	01/15/19 11:00	01/15/19 19:00
720-90791-12	DG-AO10S-0.5-1	Solid	01/15/19 11:25	01/15/19 19:00
720-90791-13	DG-AO10S-3.5-4	Solid	01/15/19 11:25	01/15/19 19:00
720-90791-14	DG-AN10S-0.5-1	Solid	01/15/19 11:40	01/15/19 19:00
720-90791-15	DG-AN10S-3.5-4	Solid	01/15/19 11:40	01/15/19 19:00
720-90791-17	DG-AM10S-0.5-1	Solid	01/15/19 12:45	01/15/19 19:00
720-90791-18	DG-AM10S-3.5-4	Solid	01/15/19 12:45	01/15/19 19:00
720-90791-19	DG-AL10S-0.5-1	Solid	01/15/19 13:20	01/15/19 19:00
720-90791-20	DG-AL10S-3.5-4	Solid	01/15/19 13:20	01/15/19 19:00
720-90791-21	DG-AK10S-0.5-1	Solid	01/15/19 13:35	01/15/19 19:00
720-90791-22	DG-AK10S-3.5-4	Solid	01/15/19 13:35	01/15/19 19:00
720-90791-23	DG-AJ10S-0.5-1	Solid	01/15/19 14:00	01/15/19 19:00
720-90791-24	DG-AJ10S-3.5-4	Solid	01/15/19 14:00	01/15/19 19:00
720-90791-25	DG-AH10S-0.5-1	Solid	01/15/19 14:15	01/15/19 19:00
720-90791-26	DG-AH10S-3.5-4	Solid	01/15/19 14:50	01/15/19 19:00
720-90791-27	DG-AG10S-0.5-1	Solid	01/15/19 14:50	01/15/19 19:00
720-90791-28	DG-AG10S-3.5-4	Solid	01/15/19 14:50	01/15/19 19:00
720-90791-29	DG-AF10S-0.5-1	Solid	01/15/19 15:10	01/15/19 19:00
720-90791-30	DG-AF10S-3.5-4	Solid	01/15/19 15:10	01/15/19 19:00
720-90791-31	DG-AE10S-0.5-1	Solid	01/15/19 15:30	01/15/19 19:00
720-90791-32	DG-AE10S-3.5-4	Solid	01/15/19 15:30	01/15/19 19:00
720-90791-33	DG-AD10S-0.5-1	Solid	01/15/19 15:40	01/15/19 19:00
720-90791-34	DG-AD10S-3.5-4	Solid	01/15/19 15:40	01/15/19 19:00
720-90791-36	DUP-51	Solid	01/15/19 00:00	01/15/19 19:00
720-90791-37	DUP-71	Solid	01/15/19 00:00	01/15/19 19:00
720-90791-38	DUP-70	Solid	01/15/19 00:00	01/15/19 19:00

720-90791

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
187557
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/15/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Cary Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahntas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
DG-N8s-0.5-1	01/15/2019	0745	G	S	1	N		X	
DG-N8s-3.5-4		0745							
DG-Q8s-0.5-1		0805							
DG-Q8s-3.5-4		0805							
DG-T8s-0.5-1		0830							
DG-T8s-3.5-4		0830							
DG-U8s-0.5-1		0845							
DG-U8s-3.5-4		0845							
DG-V8s-0.5-1		0900							
DG-V8s-3.5-4		0900							
DG-AN8s-3.5-4		1100							
DG-A010s-0.5-1	↓	1125	↓	↓	↓			↓	

720-90791 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
4.6c, 4.2c 2.0c

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd: ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company Geosyntec	Date/Time 1-15-19 1600	Received by	Company TA PLS	Date/Time 1-15-19 1600
Relinquished by	Company TAS	Date/Time 1-15-19 1900	Received by	Company TAPLS	Date/Time 1/15/19 1900
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica

187851

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/15/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Casey Gorman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
DG-AO10s-3.5-4	01/15/2019	1125	G	S	1	N		X	
DG-AN10s-0.5-1		1140							
DG-AN10s-3.5-4		1140							
DG-AN10s-4.5-5		1140							
DG-AM10s-0.5-1		1245							
DG-AM10s-3.5-4		1245							
DG-AL10s-0.5-1		1320							
DG-AL10s-3.5-4		1320							
DG-AK10s-0.5-1		1335							
DG-AK10s-3.5-4		1335							
DG-AJ10s-0.5-1		1400							
DG-AJ10s-3.5-4		1400							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp (°C): Obs'd. ____ Corr'd ____ Therm ID No. ____		
Relinquished by:	Company: Geosyntec	Date/Time: 1-15-19 16:20	Received by	Company TA PLS	Date/Time: 1-15-19 16:20
Relinquished by	Company TA PLS	Date/Time: 1-15-19 19:00	Received by	Company TA PLS	Date/Time: 1/15/19 1900
Relinquished by	Company	Date/Time	Received in Laboratory by	Company:	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/30/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18785
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/15/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler Casey Grazen
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
DG-AH10s-0.5-1	01/15/2019	1415	G	S	1	N		X	
DG-AH10s-3.5-4		1450							
DG-AG10s-0.5-1		1450							
DG-AG10s-3.5-4		1450							
DG-AF10s-0.5-1		1510							
DG-AF10s-3.5-4		1510							
DG-AE10s-0.5-1		1530							
DG-AE10s-3.5-4		1530							
DG-AD10s-0.5-1		1540							
DG-AD10s-3.5-4	↓	1540	↓	↓	↓			↓	
DG-AK10s-4.5-5	↓	1335	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C). Obs'd ____ Corr'd: ____ Therm ID No.: ____			
Relinquished by	Company Geosyntec	Date/Time 1-15-19 16:20	Received by	Company TA PLS	Date/Time 1-15-19 16:20
Relinquished by	Company TA PLS	Date/Time 1-15-19 19:00	Received by	Company TA PLS	Date/Time 1/15/19 1900
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
~~#~~ 187557
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/15/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes.
DUP-51	01/15/2019	—	G	S	1	N		X	
DUP-71	↓	—	↓	↓	↓			↓	
DUP-70	↓	—	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____		
Relinquished by	Company: Geosyntec	Date/Time: 1-15-19 16:20	Received by	Company: TAPLS	Date/Time: 1-15-19 16:20
Relinquished by	Company: TAPLS	Date/Time: 1-15-19 19:00	Received by	Company: TAPLS	Date/Time: 1/15/19 19:00
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/30/2019

720-90791
GEOSYNTEC
TUES. TERRA CORES
(2 SETS)

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC04

FedEx Express Package(s) - Dropped Off
478645741628

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 15, 2019 5:08:19 PM

720-90791-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4784574 1628	COC No: 720-40818.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90791-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/24/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Sediment, Oil, Solid, Air, Tissue, etc.)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFT/MS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Hold	Special Instructions/Note:
DG-AN10S-4.5-5 (720-90791-16)	1/15/19	11:40 Pacific		Solid	X	X	X	
DG-AK10S-4.5-5 (720-90791-35)	1/15/19	13:35 Pacific		Solid	X	X	X	

720-90791 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 1/15/19 21:05	Company TA-PLS	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by: Olga Quelios	Date/Time: 1/16/19 930	Company TA REV.		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.9/2.9 IR-88				

Encores or Terracores Frozen
Date: 1/16/19 Time: 10:09 Initials: OQ

Ver: 09/20/2016

1/30/2019

720-90791

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/15/2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-286-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Cody Green
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes:
DG-NBs-0.5-1	01/15/2019	0745	G	S	1	N		X	
DG-NBs-3.5-4		0745							
DG-QBs-0.5-1		0805							
DG-QBs-3.5-4		0805							
DG-TBs-0.5-1		0830							
DG-TBs-3.5-4		0830							
DG-UBs-0.5-1		0845							
DG-UBs-3.5-4		0845							
DG-VBs-0.5-1		0900							
DG-VBs-3.5-4		0900							
DG-ANBs-3.5-4		1100							
DG-AO10s-0.5-1		1125							

720-90791 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
4.6°C, 4.2° 2.0°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1-15-19 16:28	Received by:	Company: TA PLS
Relinquished by:	Company: TA PLS	Date/Time: 1-15-19 17:00	Received by:	Company: TAPLS
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:

Date/Time: 1-15-19 16:28
Date/Time: 1/15/19 1900
Date/Time:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

tt 187851

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/15/2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Casey Gerald
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes:
DG-AD10s-3.5-4	01/15/2019	1125	G	S	1	N		X	
DG-AN10s-0.5-1		1140							
DG-AN10s-3.5-4		1140							
DG-AN10s-4.5-5		1140							
DG-AM10s-0.5-1		1245							
DG-AM10s-3.5-4		1245							
DG-AL10s-0.5-1		1320							
DG-AL10s-3.5-4		1320							
DG-AK10s-0.5-1		1335							
DG-AK10s-3.5-4		1335							
DG-AJ10s-0.5-1		1400							
DG AJ10s-3.5-4	↓	1400	↓	↓	↓				

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____
Relinquished by: Nicholas Fukuda	Company: Geosyntec	Date/Time: 1-15-19 16:20	Received by:	Company: TA PLS
Relinquished by:	Company: TA PLS	Date/Time: 1-15-19	Received by:	Company: TA PLS
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:

Date/Time: 1-15-19 16:20
Date/Time: 1/15/19 1600
Date/Time:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

40 18785

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/15/2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Casey Grundy
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahntas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013847	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
DG-AH10s-0.5-1	01/15/2019	1415	G	S	1	N		X	
DG-AH10s-3.5-4		1450							
DG-AG10s-0.5-1		1430							
DG-AG10s-3.5-4		1450							
DG-AF10s-0.5-1		1510							
DG-AF10s-3.5-4		1510							
DG-AE10s-0.5-1		1530							
DG-AE10s-3.5-4		1530							
DG-AD10s-0.5-1		1540							
DG-AD10s-3.5-4		1540							
DG-AK10s-4.5-5 *		1335							

Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by: Victoria Fukuyama	Geosyntec	1-15-19 16:20	Received by:	TA PLS	1-15-19 16:20
Relinquished by:	TA PLS	1-15-19 1900	Received by:	TAPLS	1/15/19 1900
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

#187857

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 01/15/2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 8th Floor	Analysis Turnaround Time			Sampler: Casey Griffin
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes:
34 DUP-51	01/13/2019	—	G	S	1	N		X	
35 DUP-71	↓	—	↓	↓	↓			↓	
36 DUP-70	↓	—	↓	↓	↓			↓	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ Therm ID No.: ____		
Relinquished by:	Company: Geosyntec	Date/Time: 1-15-19 16:20	Received by:	Company: TA PLS	Date/Time: 1-15-19 16:20
Relinquished by:	Company: TA PLS	Date/Time: 1-15-19 19:10	Received by:	Company: TA PLS	Date/Time: 1/15/19 1900
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90791-1

Login Number: 90791
List Number: 1
Creator: Perry, Janae R

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, January 17, 2019 10:28 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: TestAmerica sample confirmation files from 720-90791-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Please cancel samples 16 (DG-AN10S-4.5-5) and 35 (DG-AK10S-4.5-5).

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Wednesday, January 16, 2019 5:01 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: TestAmerica sample confirmation files from 720-90791-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90791-1; Brisbane OU-2 Data Gap Investigation

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [495557]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90792-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Karen Dahl

Authorized for release by:
1/29/2019 5:40:52 PM
Karen Dahl, Senior Project Manager
(916)374-4384
karen.dahl@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Job ID: 720-90792-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90792-1

Comments
No additional comments.

Receipt
The samples were received on 1/15/2019 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0º C, 4.2º C and 4.6º C.

Receipt Exceptions
One amber for the following sample was received empty: DUP-74 (720-90792-7).

The 1 liter ambers for the following samples were filled below the shoulder of the bottle:
All three ambers for samples DG-Q11W (720-90792-1), DG-S11W (720-90792-2), DG-V13W (720-90792-4), DG-Z9W (720-90792-6)
Four of six ambers for sample DG-U11W (720-90792-3)
Two of three ambers for sample DG-T13W (720-90792-5)

The containers for sample DG-U11W (720-90792-3) were labeled with an ID of DG-V11W. The ID listed on the COC was used in the report.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples were diluted due to the nature of their sample matrix: DG-S11W (720-90792-2) and DG-V13W (720-90792-4). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The perylene-d12 internal standard response was below acceptance limits for the following sample: DG-S11W (720-90792-2). The sample shows evidence of matrix interference. The affected compounds are marked with an asterisk (*). If the matrix effect is isolated to perylene-d12, then the results for the associated compounds are biased high.

Method 8270C SIM: The perylene-d12 and acenaphthene-d10 internal standard responses were below acceptance limits for the following sample: DG-V13W (720-90792-4). The sample shows evidence of matrix interference. The affected compounds are marked with an asterisk (*). If the matrix effect is isolated to perylene-d12 and acenaphthene-d10, then the results for the associated compounds are biased high.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-523430 and analytical batch 440-523975 were outside control limits for Phenanthrene. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The surrogate recovery for the following 8015-DRO laboratory control sample (LCS) was outside control limits due to a possible spiking error: (LCS 440-523314/2-A). The surrogate recovery for the method blank and samples were within the control limits; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 3005A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: DG-V13W (720-90792-4). The sample was preserved to the appropriate pH in the laboratory. 1 ml of Nitric was added to sample at 849 1/16/19. Reference batch is 258613

Job ID: 720-90792-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 7470A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 7: DG-V13W (720-90792-4). The sample was preserved to the appropriate pH in the laboratory. 1ml of HNO3 was added at 849 1/16/19. ref: 258613

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 8015B preparation/analysis: DG-Q11W (720-90792-1), DG-S11W (720-90792-2), DG-U11W (720-90792-3), DG-V13W (720-90792-4), DG-Z9W (720-90792-6) and DUP-74 (720-90792-7).

Method(s) 3520C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 8270C SIM preparation/analysis: DG-S11W (720-90792-2), DG-U11W (720-90792-3[MS]) and DG-T13W (720-90792-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: DG-Q11W — Lab Sample ID: 720-90792-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.56		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	340	J	570	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	410	J	570	110	ug/L	1		8015B	Total/NA
Antimony	4.6	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	12		10	2.9	ug/L	1		6010B	Dissolved
Barium	48	J	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.4	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	0.90	J	2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	4.8	J	10	2.9	ug/L	1		6010B	Dissolved
Thallium	8.1	J	10	3.5	ug/L	1		6010B	Dissolved

Client Sample ID: DG-S11W — Lab Sample ID: 720-90792-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.23	J	0.45	0.22	ug/L	2		8270C SIM	Total/NA
Phenanthrene	0.31	J	0.45	0.22	ug/L	2		8270C SIM	Total/NA
Chrysene	0.31	J	0.45	0.22	ug/L	2		8270C SIM	Total/NA
Benzo[a]pyrene	0.30	J *	0.45	0.22	ug/L	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.42	J *	0.45	0.22	ug/L	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.29	J *	0.45	0.22	ug/L	2		8270C SIM	Total/NA
Fluoranthene	0.42	J	0.45	0.22	ug/L	2		8270C SIM	Total/NA
Pyrene	0.55		0.45	0.22	ug/L	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	550	J	560	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	680		560	110	ug/L	1		8015B	Total/NA
Antimony	6.5	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	5.5	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	50		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.83	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	0.72	J	2.0	0.21	ug/L	1		6010B	Dissolved
Cobalt	3.0		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	9.0		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	12		10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.7	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.2	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-U11W — Lab Sample ID: 720-90792-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.26		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.77		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.38		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Fluorene	3.7		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Phenanthrene	9.8		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Anthracene	2.2		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.52		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Chrysene	0.51		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.20	J	0.22	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.27		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.14	J	0.22	0.11	ug/L	1		8270C SIM	Total/NA
Fluoranthene	3.2		0.22	0.11	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U11W (Continued) — Lab Sample ID: 720-90792-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	1.9		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	160	J	580	120	ug/L	1		8015B	Total/NA
Arsenic	31		10	2.9	ug/L	1		6010B	Dissolved
Barium	87		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.86	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	0.68	J	2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	3.4	J	10	2.9	ug/L	1		6010B	Dissolved
Thallium	6.4	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	1.3	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-V13W — Lab Sample ID: 720-90792-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.22	J	0.44	0.22	ug/L	2		8270C SIM	Total/NA
Pyrene	0.31	J	0.44	0.22	ug/L	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1000		560	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2000		560	110	ug/L	1		8015B	Total/NA
Arsenic	4.4	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	47	J	50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.88	J	10	0.70	ug/L	1		6010B	Dissolved
Copper	8.2	J	20	3.7	ug/L	1		6010B	Dissolved
Nickel	1.7	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.5	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	7.8	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-T13W — Lab Sample ID: 720-90792-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	160	J	520	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150	J	520	100	ug/L	1		8015B	Total/NA
Arsenic	8.4	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	92		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.0	J	10	0.70	ug/L	1		6010B	Dissolved
Molybdenum	17		10	2.9	ug/L	1		6010B	Dissolved
Thallium	4.4	J	10	3.5	ug/L	1		6010B	Dissolved

Client Sample ID: DG-Z9W — Lab Sample ID: 720-90792-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.13	J	0.22	0.11	ug/L	1		8270C SIM	Total/NA
Chrysene	0.17	J	0.22	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.16	J	0.22	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.24		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.42		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.25		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.37		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.41		0.22	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	140	J	620	120	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	240	J	620	120	ug/L	1		8015B	Total/NA
Arsenic	4.2	J	10	2.9	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z9W (Continued) — Lab Sample ID: 720-90792-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	390		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.47	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	2.1	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	5.9		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.9	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	5.5		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	13		10	2.9	ug/L	1		6010B	Dissolved
Nickel	7.5	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	19		10	3.5	ug/L	1		6010B	Dissolved
Zinc	170		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DUP-74 — Lab Sample ID: 720-90792-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.70		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	980		560	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1400		560	110	ug/L	1		8015B	Total/NA
Arsenic	12		10	2.9	ug/L	1		6010B	Dissolved
Barium	44	J	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.6	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	0.77	J	2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	4.9	J	10	2.9	ug/L	1		6010B	Dissolved
Thallium	5.8	J	10	3.5	ug/L	1		6010B	Dissolved
Vanadium	1.0	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: FB-1.15.19 — Lab Sample ID: 720-90792-8

No Detections.

Client Sample ID: TB-1.15.19 — Lab Sample ID: 720-90792-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Q11W
Date Collected: 01/15/19 11:45
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*01/25/19 22:44*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*01/25/19 22:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/25/19 22:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Acetone	ND		20	10	ug/L			01/25/19 22:44	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 22:44	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 22:44	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 22:44	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 22:44	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 22:44	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 22:44	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 22:44	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
cis-1,2-Dichloroethene	**0.56**		0.50	0.25	ug/L			01/25/19 22:44	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 22:44	1

Client Sample ID: DG-Q11W
Date Collected: 01/15/19 11:45
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 22:44	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 22:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 22:44	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 22:44	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 22:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 22:44	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 22:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 22:44	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 22:44	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 22:44	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 22:44	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/25/19 22:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/25/19 22:44*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Acenaphthene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Fluorene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Phenanthrene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Anthracene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Chrysene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Fluoranthene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Pyrene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:49	1

Client Sample ID: DG-Q11W

Date Collected: 01/15/19 11:45
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*38 - 120*	*01/18/19 11:28*	*01/22/19 12:49*	*1*
Nitrobenzene-d5	*72*		*10 - 120*	*01/18/19 11:28*	*01/22/19 12:49*	*1*
Terphenyl-d14	*69*		*21 - 120*	*01/18/19 11:28*	*01/22/19 12:49*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**340**	**J**	570	110	ug/L		01/18/19 06:09	01/18/19 18:00	1
Motor Oil Range Organics [C24-C36]	**410**	**J**	570	110	ug/L		01/18/19 06:09	01/18/19 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*74*		*45 - 120*	*01/18/19 06:09*	*01/18/19 18:00*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.6**	**J**	10	4.1	ug/L		01/17/19 16:30	01/18/19 18:16	1
Arsenic	**12**		10	2.9	ug/L		01/17/19 16:30	01/18/19 18:16	1
Barium	**48**	**J**	50	1.6	ug/L		01/17/19 16:30	01/18/19 18:16	1
Beryllium	ND		2.0	0.59	ug/L		01/17/19 16:30	01/21/19 17:53	1
Cadmium	ND		2.0	0.21	ug/L		01/17/19 16:30	01/18/19 18:16	1
Chromium	**1.4**	**J**	10	0.70	ug/L		01/17/19 16:30	01/18/19 18:16	1
Cobalt	**0.90**	**J**	2.0	0.68	ug/L		01/17/19 16:30	01/18/19 18:16	1
Copper	ND		20	3.7	ug/L		01/17/19 16:30	01/18/19 18:16	1
Lead	ND		5.0	2.2	ug/L		01/17/19 16:30	01/18/19 18:16	1
Molybdenum	**4.8**	**J**	10	2.9	ug/L		01/17/19 16:30	01/18/19 18:16	1
Nickel	ND		10	1.0	ug/L		01/17/19 16:30	01/18/19 18:16	1
Selenium	ND		20	4.6	ug/L		01/17/19 16:30	01/18/19 18:16	1
Silver	ND		5.0	2.0	ug/L		01/17/19 16:30	01/18/19 18:16	1
Thallium	**8.1**	**J**	10	3.5	ug/L		01/17/19 16:30	01/18/19 18:16	1
Vanadium	ND		10	0.87	ug/L		01/17/19 16:30	01/18/19 18:16	1
Zinc	ND		20	7.4	ug/L		01/17/19 16:30	01/18/19 18:16	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/15/19 22:10	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: DG-S11W
Date Collected: 01/15/19 12:20
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*01/25/19 21:24*	*1*
4-Bromofluorobenzene (Surr)	*82*		*80 - 120*		*01/25/19 21:24*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/25/19 21:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Acetone	ND		20	10	ug/L			01/25/19 21:24	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 21:24	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 21:24	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 21:24	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 21:24	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 21:24	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 21:24	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 21:24	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 21:24	1

Client Sample ID: DG-S11W
Date Collected: 01/15/19 12:20
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 21:24	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 21:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 21:24	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 21:24	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 21:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 21:24	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 21:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 21:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 21:24	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 21:24	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 21:24	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/25/19 21:24*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/25/19 21:24*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.23**	**J**	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Acenaphthene	ND		0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Acenaphthylene	ND		0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Fluorene	ND		0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Phenanthrene	**0.31**	**J**	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Anthracene	ND		0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Benzo[a]anthracene	ND		0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Chrysene	**0.31**	**J**	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Benzo[a]pyrene	**0.30**	**J ***	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Benzo[b]fluoranthene	**0.42**	**J ***	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Benzo[k]fluoranthene	ND	*	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Benzo[g,h,i]perylene	**0.29**	**J ***	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Indeno[1,2,3-cd]pyrene	ND	*	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Fluoranthene	**0.42**	**J**	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Pyrene	**0.55**		0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2
Dibenz(a,h)anthracene	ND	*	0.45	0.22	ug/L		01/18/19 11:28	01/22/19 14:39	2

Client Sample ID: DG-S11W

Date Collected: 01/15/19 12:20
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		38 - 120	01/18/19 11:28	01/22/19 14:39	2
Nitrobenzene-d5	82		10 - 120	01/18/19 11:28	01/22/19 14:39	2
Terphenyl-d14	55		21 - 120	01/18/19 11:28	01/22/19 14:39	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	550	J	560	110	ug/L		01/18/19 06:09	01/18/19 18:22	1
Motor Oil Range Organics [C24-C36]	680		560	110	ug/L		01/18/19 06:09	01/18/19 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	78		45 - 120	01/18/19 06:09	01/18/19 18:22	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.5	J	10	4.1	ug/L		01/17/19 16:30	01/21/19 17:48	1
Arsenic	5.5	J	10	2.9	ug/L		01/17/19 16:30	01/21/19 17:48	1
Barium	50		50	1.6	ug/L		01/17/19 16:30	01/21/19 17:48	1
Beryllium	0.83	J	2.0	0.59	ug/L		01/17/19 16:30	01/21/19 17:48	1
Cadmium	0.72	J	2.0	0.21	ug/L		01/17/19 16:30	01/21/19 17:48	1
Chromium	ND		10	0.70	ug/L		01/17/19 16:30	01/21/19 17:48	1
Cobalt	3.0		2.0	0.68	ug/L		01/17/19 16:30	01/21/19 17:48	1
Copper	ND		20	3.7	ug/L		01/17/19 16:30	01/21/19 17:48	1
Lead	9.0		5.0	2.2	ug/L		01/17/19 16:30	01/21/19 17:48	1
Molybdenum	12		10	2.9	ug/L		01/17/19 16:30	01/21/19 17:48	1
Nickel	2.7	J	10	1.0	ug/L		01/17/19 16:30	01/21/19 17:48	1
Selenium	ND		20	4.6	ug/L		01/17/19 16:30	01/21/19 17:48	1
Silver	ND		5.0	2.0	ug/L		01/17/19 16:30	01/21/19 17:48	1
Thallium	ND		10	3.5	ug/L		01/17/19 16:30	01/21/19 17:48	1
Vanadium	2.2	J	10	0.87	ug/L		01/17/19 16:30	01/21/19 17:48	1
Zinc	ND		20	7.4	ug/L		01/17/19 16:30	01/21/19 17:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/15/19 22:10	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: DG-U11W
Date Collected: 01/15/19 13:05
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*01/25/19 23:10*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*01/25/19 23:10*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/25/19 23:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Acetone	ND		20	10	ug/L			01/25/19 23:10	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 23:10	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 23:10	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 23:10	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 23:10	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 23:10	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 23:10	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 23:10	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 23:10	1

Client Sample ID: DG-U11W

Date Collected: 01/15/19 13:05
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 23:10	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 23:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 23:10	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 23:10	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 23:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 23:10	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 23:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 23:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 23:10	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 23:10	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 23:10	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*01/25/19 23:10*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/25/19 23:10*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.26**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Acenaphthene	**0.77**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Acenaphthylene	**0.38**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Fluorene	**3.7**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Phenanthrene	**9.8**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Anthracene	**2.2**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Benzo[a]anthracene	**0.52**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Chrysene	**0.51**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Benzo[a]pyrene	**0.20**	**J**	0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Benzo[b]fluoranthene	**0.27**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Benzo[k]fluoranthene	**0.14**	**J**	0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Fluoranthene	**3.2**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Pyrene	**1.9**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 09:58	1

Client Sample ID: DG-U11W

Date Collected: 01/15/19 13:05
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*100*		*38 - 120*	*01/18/19 11:28*	*01/22/19 09:58*	*1*
Nitrobenzene-d5	*88*		*10 - 120*	*01/18/19 11:28*	*01/22/19 09:58*	*1*
Terphenyl-d14	*66*		*21 - 120*	*01/18/19 11:28*	*01/22/19 09:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**	**J**	580	120	ug/L		01/18/19 06:09	01/18/19 16:56	1
Motor Oil Range Organics [C24-C36]	ND		580	120	ug/L		01/18/19 06:09	01/18/19 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*56*		*45 - 120*	*01/18/19 06:09*	*01/18/19 16:56*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/17/19 16:30	01/18/19 18:21	1
Arsenic	**31**		10	2.9	ug/L		01/17/19 16:30	01/18/19 18:21	1
Barium	**87**		50	1.6	ug/L		01/17/19 16:30	01/18/19 18:21	1
Beryllium	ND		2.0	0.59	ug/L		01/17/19 16:30	01/21/19 17:58	1
Cadmium	ND		2.0	0.21	ug/L		01/17/19 16:30	01/18/19 18:21	1
Chromium	**0.86**	**J**	10	0.70	ug/L		01/17/19 16:30	01/18/19 18:21	1
Cobalt	**0.68**	**J**	2.0	0.68	ug/L		01/17/19 16:30	01/18/19 18:21	1
Copper	ND		20	3.7	ug/L		01/17/19 16:30	01/18/19 18:21	1
Lead	ND		5.0	2.2	ug/L		01/17/19 16:30	01/18/19 18:21	1
Molybdenum	**3.4**	**J**	10	2.9	ug/L		01/17/19 16:30	01/18/19 18:21	1
Nickel	ND		10	1.0	ug/L		01/17/19 16:30	01/18/19 18:21	1
Selenium	ND		20	4.6	ug/L		01/17/19 16:30	01/18/19 18:21	1
Silver	ND		5.0	2.0	ug/L		01/17/19 16:30	01/18/19 18:21	1
Thallium	**6.4**	**J**	10	3.5	ug/L		01/17/19 16:30	01/18/19 18:21	1
Vanadium	**1.3**	**J**	10	0.87	ug/L		01/17/19 16:30	01/18/19 18:21	1
Zinc	ND		20	7.4	ug/L		01/17/19 16:30	01/18/19 18:21	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:21	1

General Chemistry - IN2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/15/19 22:10	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: DG-V13W
Date Collected: 01/15/19 13:30
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*01/25/19 23:37*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*01/25/19 23:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/25/19 23:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Acetone	ND		20	10	ug/L			01/25/19 23:37	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 23:37	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 23:37	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 23:37	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 23:37	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 23:37	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 23:37	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 23:37	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 23:37	1

Client Sample ID: DG-V13W
Date Collected: 01/15/19 13:30
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 23:37	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 23:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 23:37	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 23:37	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 23:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 23:37	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 23:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 23:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 23:37	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 23:37	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 23:37	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*01/25/19 23:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/25/19 23:37*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Acenaphthene	ND	*	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Acenaphthylene	ND	*	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Fluorene	ND	*	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Phenanthrene	ND		0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Anthracene	ND		0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Benzo[a]anthracene	ND		0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Chrysene	ND		0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Benzo[a]pyrene	ND	*	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Benzo[b]fluoranthene	ND	*	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Benzo[k]fluoranthene	ND	*	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Benzo[g,h,i]perylene	ND	*	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Indeno[1,2,3-cd]pyrene	ND	*	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Fluoranthene	**0.22**	**J**	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Pyrene	**0.31**	**J**	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2
Dibenz(a,h)anthracene	ND	*	0.44	0.22	ug/L		01/18/19 11:28	01/22/19 15:03	2

Client Sample ID: DG-V13W

Date Collected: 01/15/19 13:30
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*	*	*38 - 120*	*01/18/19 11:28*	*01/22/19 15:03*	*2*
Nitrobenzene-d5	*71*		*10 - 120*	*01/18/19 11:28*	*01/22/19 15:03*	*2*
Terphenyl-d14	*43*		*21 - 120*	*01/18/19 11:28*	*01/22/19 15:03*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1000**		560	110	ug/L		01/18/19 06:09	01/18/19 18:44	1
Motor Oil Range Organics [C24-C36]	**2000**		560	110	ug/L		01/18/19 06:09	01/18/19 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*88*		*45 - 120*	*01/18/19 06:09*	*01/18/19 18:44*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/17/19 16:30	01/18/19 18:26	1
Arsenic	**4.4**	**J**	10	2.9	ug/L		01/17/19 16:30	01/18/19 18:26	1
Barium	**47**	**J**	50	1.6	ug/L		01/17/19 16:30	01/18/19 18:26	1
Beryllium	ND		2.0	0.59	ug/L		01/17/19 16:30	01/21/19 18:03	1
Cadmium	ND		2.0	0.21	ug/L		01/17/19 16:30	01/18/19 18:26	1
Chromium	**0.88**	**J**	10	0.70	ug/L		01/17/19 16:30	01/18/19 18:26	1
Cobalt	ND		2.0	0.68	ug/L		01/17/19 16:30	01/18/19 18:26	1
Copper	**8.2**	**J**	20	3.7	ug/L		01/17/19 16:30	01/18/19 18:26	1
Lead	ND		5.0	2.2	ug/L		01/17/19 16:30	01/18/19 18:26	1
Molybdenum	ND		10	2.9	ug/L		01/17/19 16:30	01/18/19 18:26	1
Nickel	**1.7**	**J**	10	1.0	ug/L		01/17/19 16:30	01/18/19 18:26	1
Selenium	ND		20	4.6	ug/L		01/17/19 16:30	01/18/19 18:26	1
Silver	ND		5.0	2.0	ug/L		01/17/19 16:30	01/18/19 18:26	1
Thallium	ND		10	3.5	ug/L		01/17/19 16:30	01/18/19 18:26	1
Vanadium	**1.5**	**J**	10	0.87	ug/L		01/17/19 16:30	01/18/19 18:26	1
Zinc	**7.8**	**J**	20	7.4	ug/L		01/17/19 16:30	01/18/19 18:26	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/15/19 22:12	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: DG-T13W
Date Collected: 01/15/19 13:55
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/26/19 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*76 - 132*		*01/26/19 00:03*	*1*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*01/26/19 00:03*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/26/19 00:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Acetone	ND		20	10	ug/L			01/26/19 00:03	1
Benzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Bromobenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Bromoform	ND		1.0	0.40	ug/L			01/26/19 00:03	1
Bromomethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/26/19 00:03	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/26/19 00:03	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/26/19 00:03	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Chloroethane	ND		1.0	0.40	ug/L			01/26/19 00:03	1
Chloroform	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Chloromethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/26/19 00:03	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Dibromomethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/26/19 00:03	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/26/19 00:03	1

Client Sample ID: DG-T13W
Date Collected: 01/15/19 13:55
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/26/19 00:03	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/26/19 00:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/26/19 00:03	1
Naphthalene	ND		1.0	0.40	ug/L			01/26/19 00:03	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Styrene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Toluene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 00:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 00:03	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Trichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/26/19 00:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/26/19 00:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/26/19 00:03	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/26/19 00:03	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/26/19 00:03	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/26/19 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/26/19 00:03*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/26/19 00:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Acenaphthene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Acenaphthylene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Fluorene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Phenanthrene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Anthracene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Benzo[a]anthracene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Chrysene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Benzo[a]pyrene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Benzo[b]fluoranthene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Benzo[k]fluoranthene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Benzo[g,h,i]perylene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Indeno[1,2,3-cd]pyrene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Fluoranthene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Pyrene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1
Dibenz(a,h)anthracene	ND		0.27	0.13	ug/L		01/18/19 11:28	01/22/19 11:36	1

Client Sample ID: DG-T13W

Date Collected: 01/15/19 13:55
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*96*		*38 - 120*	*01/18/19 11:28*	*01/22/19 11:36*	*1*
Nitrobenzene-d5	*66*		*10 - 120*	*01/18/19 11:28*	*01/22/19 11:36*	*1*
Terphenyl-d14	*71*		*21 - 120*	*01/18/19 11:28*	*01/22/19 11:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**	**J**	520	100	ug/L		01/18/19 06:09	01/18/19 20:10	1
Motor Oil Range Organics [C24-C36]	**150**	**J**	520	100	ug/L		01/18/19 06:09	01/18/19 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*72*		*45 - 120*	*01/18/19 06:09*	*01/18/19 20:10*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/17/19 16:30	01/18/19 18:31	1
Arsenic	**8.4**	**J**	10	2.9	ug/L		01/17/19 16:30	01/18/19 18:31	1
Barium	**92**		50	1.6	ug/L		01/17/19 16:30	01/18/19 18:31	1
Beryllium	ND		2.0	0.59	ug/L		01/17/19 16:30	01/21/19 18:17	1
Cadmium	ND		2.0	0.21	ug/L		01/17/19 16:30	01/18/19 18:31	1
Chromium	**1.0**	**J**	10	0.70	ug/L		01/17/19 16:30	01/18/19 18:31	1
Cobalt	ND		2.0	0.68	ug/L		01/17/19 16:30	01/18/19 18:31	1
Copper	ND		20	3.7	ug/L		01/17/19 16:30	01/18/19 18:31	1
Lead	ND		5.0	2.2	ug/L		01/17/19 16:30	01/18/19 18:31	1
Molybdenum	**17**		10	2.9	ug/L		01/17/19 16:30	01/18/19 18:31	1
Nickel	ND		10	1.0	ug/L		01/17/19 16:30	01/18/19 18:31	1
Selenium	ND		20	4.6	ug/L		01/17/19 16:30	01/18/19 18:31	1
Silver	ND		5.0	2.0	ug/L		01/17/19 16:30	01/18/19 18:31	1
Thallium	**4.4**	**J**	10	3.5	ug/L		01/17/19 16:30	01/18/19 18:31	1
Vanadium	ND		10	0.87	ug/L		01/17/19 16:30	01/18/19 18:31	1
Zinc	ND		20	7.4	ug/L		01/17/19 16:30	01/18/19 18:31	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/15/19 22:12	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: DG-Z9W
Date Collected: 01/15/19 14:30
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/26/19 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*76 - 132*		*01/26/19 00:30*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*01/26/19 00:30*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/26/19 00:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Acetone	ND		20	10	ug/L			01/26/19 00:30	1
Benzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Bromobenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Bromoform	ND		1.0	0.40	ug/L			01/26/19 00:30	1
Bromomethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/26/19 00:30	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/26/19 00:30	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/26/19 00:30	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Chloroethane	ND		1.0	0.40	ug/L			01/26/19 00:30	1
Chloroform	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Chloromethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/26/19 00:30	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Dibromomethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/26/19 00:30	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/26/19 00:30	1

Client Sample ID: DG-Z9W

Date Collected: 01/15/19 14:30
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/26/19 00:30	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/26/19 00:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/26/19 00:30	1
Naphthalene	ND		1.0	0.40	ug/L			01/26/19 00:30	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Styrene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Toluene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 00:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 00:30	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Trichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/26/19 00:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/26/19 00:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/26/19 00:30	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/26/19 00:30	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/26/19 00:30	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/26/19 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/26/19 00:30*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/26/19 00:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Acenaphthene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Fluorene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Phenanthrene	**0.13**	**J**	0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Anthracene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Chrysene	**0.17**	**J**	0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Benzo[a]pyrene	**0.16**	**J**	0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Benzo[b]fluoranthene	**0.24**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Benzo[g,h,i]perylene	**0.42**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Indeno[1,2,3-cd]pyrene	**0.25**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Fluoranthene	**0.37**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Pyrene	**0.41**		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/18/19 11:28	01/22/19 12:00	1

Client Sample ID: DG-Z9W

Date Collected: 01/15/19 14:30
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*104*		*38 - 120*	*01/18/19 11:28*	*01/22/19 12:00*	*1*
Nitrobenzene-d5	*71*		*10 - 120*	*01/18/19 11:28*	*01/22/19 12:00*	*1*
Terphenyl-d14	*61*		*21 - 120*	*01/18/19 11:28*	*01/22/19 12:00*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**	**J**	620	120	ug/L		01/18/19 06:09	01/18/19 20:32	1
Motor Oil Range Organics [C24-C36]	**240**	**J**	620	120	ug/L		01/18/19 06:09	01/18/19 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*61*		*45 - 120*	*01/18/19 06:09*	*01/18/19 20:32*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/17/19 16:30	01/18/19 18:36	1
Arsenic	**4.2**	**J**	10	2.9	ug/L		01/17/19 16:30	01/18/19 18:36	1
Barium	**390**		50	1.6	ug/L		01/17/19 16:30	01/18/19 18:36	1
Beryllium	ND		2.0	0.59	ug/L		01/17/19 16:30	01/21/19 18:22	1
Cadmium	**0.47**	**J**	2.0	0.21	ug/L		01/17/19 16:30	01/18/19 18:36	1
Chromium	**2.1**	**J**	10	0.70	ug/L		01/17/19 16:30	01/18/19 18:36	1
Cobalt	**5.9**		2.0	0.68	ug/L		01/17/19 16:30	01/18/19 18:36	1
Copper	**4.9**	**J**	20	3.7	ug/L		01/17/19 16:30	01/18/19 18:36	1
Lead	**5.5**		5.0	2.2	ug/L		01/17/19 16:30	01/18/19 18:36	1
Molybdenum	**13**		10	2.9	ug/L		01/17/19 16:30	01/18/19 18:36	1
Nickel	**7.5**	**J**	10	1.0	ug/L		01/17/19 16:30	01/18/19 18:36	1
Selenium	ND		20	4.6	ug/L		01/17/19 16:30	01/18/19 18:36	1
Silver	ND		5.0	2.0	ug/L		01/17/19 16:30	01/18/19 18:36	1
Thallium	**19**		10	3.5	ug/L		01/17/19 16:30	01/18/19 18:36	1
Vanadium	ND		10	0.87	ug/L		01/17/19 16:30	01/18/19 18:36	1
Zinc	**170**		20	7.4	ug/L		01/17/19 16:30	01/18/19 18:36	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/15/19 22:12	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: DUP-74
Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/26/19 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*76 - 132*		*01/26/19 00:56*	*1*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*01/26/19 00:56*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/26/19 00:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Acetone	ND		20	10	ug/L			01/26/19 00:56	1
Benzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Bromobenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Bromoform	ND		1.0	0.40	ug/L			01/26/19 00:56	1
Bromomethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/26/19 00:56	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/26/19 00:56	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/26/19 00:56	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Chloroethane	ND		1.0	0.40	ug/L			01/26/19 00:56	1
Chloroform	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Chloromethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/26/19 00:56	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Dibromomethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/26/19 00:56	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
cis-1,2-Dichloroethene	**0.70**		0.50	0.25	ug/L			01/26/19 00:56	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/26/19 00:56	1

Client Sample ID: DUP-74
Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/26/19 00:56	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/26/19 00:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/26/19 00:56	1
Naphthalene	ND		1.0	0.40	ug/L			01/26/19 00:56	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Styrene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Toluene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 00:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 00:56	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Trichloroethene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/26/19 00:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/26/19 00:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/26/19 00:56	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/26/19 00:56	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/26/19 00:56	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/26/19 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/26/19 00:56*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/26/19 00:56*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Acenaphthene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Fluorene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Phenanthrene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Anthracene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Chrysene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Fluoranthene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Pyrene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/18/19 11:28	01/22/19 12:24	1

Client Sample ID: DUP-74

Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*102*		*38 - 120*	*01/18/19 11:28*	*01/22/19 12:24*	*1*
Nitrobenzene-d5	*100*		*10 - 120*	*01/18/19 11:28*	*01/22/19 12:24*	*1*
Terphenyl-d14	*82*		*21 - 120*	*01/18/19 11:28*	*01/22/19 12:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**980**		560	110	ug/L		01/18/19 06:09	01/18/19 19:06	1
Motor Oil Range Organics [C24-C36]	**1400**		560	110	ug/L		01/18/19 06:09	01/18/19 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*85*		*45 - 120*	*01/18/19 06:09*	*01/18/19 19:06*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/17/19 16:30	01/18/19 18:41	1
Arsenic	**12**		10	2.9	ug/L		01/17/19 16:30	01/18/19 18:41	1
Barium	**44**	**J**	50	1.6	ug/L		01/17/19 16:30	01/18/19 18:41	1
Beryllium	ND		2.0	0.59	ug/L		01/17/19 16:30	01/21/19 18:27	1
Cadmium	ND		2.0	0.21	ug/L		01/17/19 16:30	01/18/19 18:41	1
Chromium	**1.6**	**J**	10	0.70	ug/L		01/17/19 16:30	01/18/19 18:41	1
Cobalt	**0.77**	**J**	2.0	0.68	ug/L		01/17/19 16:30	01/18/19 18:41	1
Copper	ND		20	3.7	ug/L		01/17/19 16:30	01/18/19 18:41	1
Lead	ND		5.0	2.2	ug/L		01/17/19 16:30	01/18/19 18:41	1
Molybdenum	**4.9**	**J**	10	2.9	ug/L		01/17/19 16:30	01/18/19 18:41	1
Nickel	ND		10	1.0	ug/L		01/17/19 16:30	01/18/19 18:41	1
Selenium	ND		20	4.6	ug/L		01/17/19 16:30	01/18/19 18:41	1
Silver	ND		5.0	2.0	ug/L		01/17/19 16:30	01/18/19 18:41	1
Thallium	**5.8**	**J**	10	3.5	ug/L		01/17/19 16:30	01/18/19 18:41	1
Vanadium	**1.0**	**J**	10	0.87	ug/L		01/17/19 16:30	01/18/19 18:41	1
Zinc	ND		20	7.4	ug/L		01/17/19 16:30	01/18/19 18:41	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/15/19 22:12	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: FB-1.15.19
Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-8
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/26/19 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*01/26/19 01:23*	*1*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*01/26/19 01:23*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*01/26/19 01:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Acetone	ND		20	10	ug/L			01/26/19 01:23	1
Benzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Bromobenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Bromoform	ND		1.0	0.40	ug/L			01/26/19 01:23	1
Bromomethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/26/19 01:23	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/26/19 01:23	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/26/19 01:23	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Chloroethane	ND		1.0	0.40	ug/L			01/26/19 01:23	1
Chloroform	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Chloromethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/26/19 01:23	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Dibromomethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/26/19 01:23	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/26/19 01:23	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: FB-1.15.19
Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/26/19 01:23	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/26/19 01:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/26/19 01:23	1
Naphthalene	ND		1.0	0.40	ug/L			01/26/19 01:23	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Styrene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Toluene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 01:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 01:23	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Trichloroethene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/26/19 01:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/26/19 01:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/26/19 01:23	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/26/19 01:23	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/26/19 01:23	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/26/19 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/26/19 01:23*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*01/26/19 01:23*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: TB-1.15.19
Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-9
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/26/19 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*01/26/19 01:49*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*01/26/19 01:49*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/26/19 01:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Acetone	ND		20	10	ug/L			01/26/19 01:49	1
Benzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Bromobenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Bromoform	ND		1.0	0.40	ug/L			01/26/19 01:49	1
Bromomethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/26/19 01:49	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/26/19 01:49	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/26/19 01:49	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Chloroethane	ND		1.0	0.40	ug/L			01/26/19 01:49	1
Chloroform	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Chloromethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/26/19 01:49	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Dibromomethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/26/19 01:49	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/26/19 01:49	1

Client Sample ID: TB-1.15.19
Date Collected: 01/15/19 00:00
Date Received: 01/15/19 19:00

Lab Sample ID: 720-90792-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/26/19 01:49	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/26/19 01:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/26/19 01:49	1
Naphthalene	ND		1.0	0.40	ug/L			01/26/19 01:49	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Styrene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Toluene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 01:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/26/19 01:49	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Trichloroethene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/26/19 01:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/26/19 01:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/26/19 01:49	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/26/19 01:49	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/26/19 01:49	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/26/19 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*01/26/19 01:49*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/26/19 01:49*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	
Lab Sample ID	Client Sample ID	(70-130)	(80-128)	
720-90792-1	DG-Q11W	104	98	
720-90792-2	DG-S11W	104	98	
720-90792-2 MS	DG-S11W	105	91	
720-90792-2 MSD	DG-S11W	100	91	
720-90792-3	DG-U11W	102	97	
720-90792-4	DG-V13W	107	96	
720-90792-5	DG-T13W	104	97	
720-90792-6	DG-Z9W	106	98	
720-90792-7	DUP-74	104	97	
720-90792-8	FB-1.15.19	106	95	
720-90792-9	TB-1.15.19	105	96	
LCS 440-525066/5	Lab Control Sample	100	93	
MB 440-525066/4	Method Blank	103	97	

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
720-90792-1	DG-Q11W	116	84	98
720-90792-2	DG-S11W	115	82	98
720-90792-2 MS	DG-S11W	119	83	91
720-90792-2 MSD	DG-S11W	117	83	91
720-90792-3	DG-U11W	116	85	97
720-90792-4	DG-V13W	119	85	96
720-90792-5	DG-T13W	118	86	97
720-90792-6	DG-Z9W	120	85	98
720-90792-7	DUP-74	118	86	97
720-90792-8	FB-1.15.19	117	86	95
720-90792-9	TB-1.15.19	119	83	96
LCS 440-525067/6	Lab Control Sample	117	86	96
MB 440-525067/4	Method Blank	116	83	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-90792-1	DG-Q11W	90	72	69

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-90792-2	DG-S11W	70	82	55
720-90792-3	DG-U11W	100	88	66
720-90792-3 MS	DG-U11W	89	77	77
720-90792-3 MSD	DG-U11W	102	90	87
720-90792-4	DG-V13W	83 *	71	43
720-90792-5	DG-T13W	96	66	71
720-90792-6	DG-Z9W	104	71	61
720-90792-7	DUP-74	102	100	82
LCS 440-523430/2-A	Lab Control Sample	104	76	105
MB 440-523430/1-A	Method Blank	86	83	106

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-90792-1	DG-Q11W	74
720-90792-2	DG-S11W	78
720-90792-3	DG-U11W	56
720-90792-3 MS	DG-U11W	81
720-90792-3 MSD	DG-U11W	84
720-90792-4	DG-V13W	88
720-90792-5	DG-T13W	72
720-90792-6	DG-Z9W	61
720-90792-7	DUP-74	85
LCS 440-523314/2-A	Lab Control Sample	138 X
MB 440-523314/1-A	Method Blank	73

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-525066/4
Matrix: Water
Analysis Batch: 525066

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Acetone	ND		20	10	ug/L			01/25/19 20:05	1
Benzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Bromobenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Bromoform	ND		1.0	0.40	ug/L			01/25/19 20:05	1
Bromomethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/25/19 20:05	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/25/19 20:05	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/25/19 20:05	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Chloroethane	ND		1.0	0.40	ug/L			01/25/19 20:05	1
Chloroform	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Chloromethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/25/19 20:05	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Dibromomethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/25/19 20:05	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
2-Hexanone	ND		5.0	2.5	ug/L			01/25/19 20:05	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/25/19 20:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/25/19 20:05	1
Naphthalene	ND		1.0	0.40	ug/L			01/25/19 20:05	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Styrene	ND		0.50	0.25	ug/L			01/25/19 20:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525066/4
Matrix: Water
Analysis Batch: 525066

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Toluene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 20:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/25/19 20:05	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Trichloroethene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/25/19 20:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/25/19 20:05	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/25/19 20:05	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/25/19 20:05	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/25/19 20:05	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/25/19 20:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/25/19 20:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/25/19 20:05*	*1*

Lab Sample ID: LCS 440-525066/5
Matrix: Water
Analysis Batch: 525066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.6		ug/L		106	63 - 131
Acetone	25.0	20.3		ug/L		81	10 - 150
Benzene	25.0	23.8		ug/L		95	68 - 130
Dichlorobromomethane	25.0	26.3		ug/L		105	70 - 132
Bromobenzene	25.0	26.0		ug/L		104	70 - 130
Chlorobromomethane	25.0	30.8		ug/L		123	70 - 130
Bromoform	25.0	28.6		ug/L		114	60 - 148
Bromomethane	25.0	26.1		ug/L		104	64 - 139
2-Butanone (MEK)	25.0	21.7		ug/L		87	44 - 150
n-Butylbenzene	25.0	20.7		ug/L		83	65 - 150
sec-Butylbenzene	25.0	20.5		ug/L		82	70 - 138
tert-Butylbenzene	25.0	22.7		ug/L		91	70 - 130
Carbon disulfide	25.0	24.6		ug/L		98	52 - 136
Carbon tetrachloride	25.0	30.8		ug/L		123	60 - 150
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	22.0		ug/L		88	64 - 135
Chloroform	25.0	26.5		ug/L		106	70 - 130
Chloromethane	25.0	22.3		ug/L		89	47 - 140
2-Chlorotoluene	25.0	20.7		ug/L		83	70 - 130
4-Chlorotoluene	25.0	21.1		ug/L		85	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525066/5
Matrix: Water
Analysis Batch: 525066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	27.2		ug/L		109	69 - 145
1,2-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	21.5		ug/L		86	70 - 130
1,1-Dichloropropene	25.0	26.1		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.9		ug/L		80	52 - 140
Ethylene Dibromide	25.0	23.2		ug/L		93	70 - 130
Dibromomethane	25.0	27.4		ug/L		110	70 - 130
Dichlorodifluoromethane	25.0	24.5		ug/L		98	29 - 150
1,1-Dichloroethane	25.0	24.8		ug/L		99	64 - 130
1,2-Dichloroethane	25.0	26.3		ug/L		105	57 - 138
1,1-Dichloroethene	25.0	28.0		ug/L		112	70 - 130
cis-1,2-Dichloroethene	25.0	28.4		ug/L		114	70 - 133
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	70 - 130
1,2-Dichloropropane	25.0	24.0		ug/L		96	67 - 130
cis-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 133
trans-1,3-Dichloropropene	25.0	22.8		ug/L		91	70 - 132
Ethylbenzene	25.0	23.3		ug/L		93	70 - 130
Hexachlorobutadiene	25.0	27.1		ug/L		108	10 - 150
2-Hexanone	25.0	18.3		ug/L		73	10 - 150
Isopropylbenzene	25.0	23.8		ug/L		95	70 - 136
4-Isopropyltoluene	25.0	23.4		ug/L		93	70 - 132
Methylene Chloride	25.0	24.0		ug/L		96	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	18.9		ug/L		76	59 - 149
Naphthalene	25.0	23.7		ug/L		95	60 - 140
N-Propylbenzene	25.0	20.4		ug/L		82	67 - 139
Styrene	25.0	21.0		ug/L		84	70 - 134
1,1,1,2-Tetrachloroethane	25.0	27.5		ug/L		110	60 - 141
1,1,2,2-Tetrachloroethane	25.0	18.1		ug/L		72	63 - 130
Tetrachloroethene	25.0	29.6		ug/L		118	70 - 130
Toluene	25.0	23.2		ug/L		93	70 - 130
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	25.0	27.7		ug/L		111	60 - 140
1,1,1-Trichloroethane	25.0	29.1		ug/L		116	70 - 130
1,1,2-Trichloroethane	25.0	21.5		ug/L		86	70 - 130
Trichloroethene	25.0	30.3		ug/L		121	70 - 130
Trichlorofluoromethane	25.0	27.6		ug/L		110	60 - 150
1,2,3-Trichloropropane	25.0	22.1		ug/L		89	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.2		ug/L		113	60 - 140
1,2,4-Trimethylbenzene	25.0	21.1		ug/L		84	70 - 135
1,3,5-Trimethylbenzene	25.0	21.3		ug/L		85	70 - 136
Vinyl acetate	25.0	24.0		ug/L		96	48 - 140
Vinyl chloride	25.0	21.7		ug/L		87	59 - 133
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 130
o-Xylene	25.0	23.6		ug/L		94	70 - 130
2,2-Dichloropropane	25.0	26.9		ug/L		108	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525066/5
Matrix: Water
Analysis Batch: 525066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*93*		*80 - 128*

Lab Sample ID: 720-90792-2 MS
Matrix: Water
Analysis Batch: 525066

Client Sample ID: DG-S11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	27.1		ug/L		109	70 - 130
Acetone	ND		25.0	24.1		ug/L		96	10 - 150
Benzene	ND		25.0	24.2		ug/L		97	66 - 130
Dichlorobromomethane	ND		25.0	26.4		ug/L		106	70 - 138
Bromobenzene	ND		25.0	25.6		ug/L		103	70 - 130
Chlorobromomethane	ND		25.0	31.6		ug/L		127	70 - 130
Bromoform	ND		25.0	28.2		ug/L		113	59 - 150
Bromomethane	ND		25.0	25.8		ug/L		103	62 - 131
2-Butanone (MEK)	ND		25.0	22.4		ug/L		90	48 - 140
n-Butylbenzene	ND		25.0	20.4		ug/L		82	61 - 149
sec-Butylbenzene	ND		25.0	20.4		ug/L		82	67 - 134
tert-Butylbenzene	ND		25.0	22.6		ug/L		91	70 - 130
Carbon disulfide	ND		25.0	24.2		ug/L		97	49 - 140
Carbon tetrachloride	ND		25.0	30.9		ug/L		124	60 - 150
Chlorobenzene	ND		25.0	25.1		ug/L		100	70 - 130
Chloroethane	ND		25.0	22.5		ug/L		90	68 - 130
Chloroform	ND		25.0	26.8		ug/L		107	70 - 130
Chloromethane	ND		25.0	21.7		ug/L		87	39 - 144
2-Chlorotoluene	ND		25.0	20.6		ug/L		82	70 - 130
4-Chlorotoluene	ND		25.0	20.8		ug/L		83	70 - 130
Chlorodibromomethane	ND		25.0	27.3		ug/L		109	70 - 148
1,2-Dichlorobenzene	ND		25.0	26.1		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		104	70 - 130
1,3-Dichloropropane	ND		25.0	21.6		ug/L		86	70 - 130
1,1-Dichloropropene	ND		25.0	26.0		ug/L		104	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	20.4		ug/L		82	48 - 140
Ethylene Dibromide	ND		25.0	22.9		ug/L		92	70 - 131
Dibromomethane	ND		25.0	27.0		ug/L		108	70 - 130
Dichlorodifluoromethane	ND		25.0	24.7		ug/L		99	25 - 142
1,1-Dichloroethane	ND		25.0	24.8		ug/L		99	65 - 130
1,2-Dichloroethane	ND		25.0	26.8		ug/L		107	56 - 146
1,1-Dichloroethene	ND		25.0	27.0		ug/L		108	70 - 130
cis-1,2-Dichloroethene	ND		25.0	28.9		ug/L		116	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.2		ug/L		109	70 - 130
1,2-Dichloropropane	ND		25.0	24.1		ug/L		96	69 - 130
cis-1,3-Dichloropropene	ND		25.0	23.3		ug/L		93	70 - 133
trans-1,3-Dichloropropene	ND		25.0	22.7		ug/L		91	70 - 138
Ethylbenzene	ND		25.0	22.8		ug/L		91	70 - 130
Hexachlorobutadiene	ND		25.0	27.1		ug/L		108	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90792-2 MS
Matrix: Water
Analysis Batch: 525066

Client Sample ID: DG-S11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	18.6		ug/L		74	10 - 150
Isopropylbenzene	ND		25.0	23.2		ug/L		93	70 - 132
4-Isopropyltoluene	ND		25.0	22.9		ug/L		92	70 - 130
Methylene Chloride	ND		25.0	24.9		ug/L		100	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	19.4		ug/L		78	52 - 150
Naphthalene	ND		25.0	24.4		ug/L		97	60 - 140
N-Propylbenzene	ND		25.0	20.1		ug/L		80	66 - 135
Styrene	ND		25.0	20.5		ug/L		82	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	27.0		ug/L		108	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	18.4		ug/L		74	63 - 130
Tetrachloroethene	ND		25.0	29.3		ug/L		117	70 - 137
Toluene	ND		25.0	22.6		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.6		ug/L		107	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	27.4		ug/L		110	60 - 140
1,1,1-Trichloroethane	ND		25.0	29.9		ug/L		120	70 - 130
1,1,2-Trichloroethane	ND		25.0	21.3		ug/L		85	70 - 130
Trichloroethene	ND		25.0	30.3		ug/L		121	70 - 130
Trichlorofluoromethane	ND		25.0	28.0		ug/L		112	60 - 150
1,2,3-Trichloropropane	ND		25.0	22.1		ug/L		88	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.7		ug/L		111	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	20.7		ug/L		83	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	20.8		ug/L		83	70 - 130
Vinyl acetate	ND		25.0	24.0		ug/L		96	23 - 150
Vinyl chloride	ND		25.0	21.4		ug/L		86	50 - 137
m-Xylene & p-Xylene	ND		25.0	22.9		ug/L		91	70 - 133
o-Xylene	ND		25.0	23.7		ug/L		95	70 - 133
2,2-Dichloropropane	ND		25.0	26.9		ug/L		107	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*91*		*80 - 128*

Lab Sample ID: 720-90792-2 MSD
Matrix: Water
Analysis Batch: 525066

Client Sample ID: DG-S11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	26.5		ug/L		106	70 - 130	2	25
Acetone	ND		25.0	24.7		ug/L		99	10 - 150	3	35
Benzene	ND		25.0	24.0		ug/L		96	66 - 130	1	20
Dichlorobromomethane	ND		25.0	26.1		ug/L		104	70 - 138	1	20
Bromobenzene	ND		25.0	25.8		ug/L		103	70 - 130	0	20
Chlorobromomethane	ND		25.0	30.4		ug/L		121	70 - 130	4	25
Bromoform	ND		25.0	26.8		ug/L		107	59 - 150	5	25
Bromomethane	ND		25.0	25.8		ug/L		103	62 - 131	0	25
2-Butanone (MEK)	ND		25.0	21.9		ug/L		88	48 - 140	2	40
n-Butylbenzene	ND		25.0	20.4		ug/L		82	61 - 149	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90792-2 MSD
Matrix: Water
Analysis Batch: 525066

Client Sample ID: DG-S11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	20.4		ug/L		81	67 - 134	0	20
tert-Butylbenzene	ND		25.0	22.7		ug/L		91	70 - 130	0	20
Carbon disulfide	ND		25.0	24.6		ug/L		98	49 - 140	2	20
Carbon tetrachloride	ND		25.0	30.9		ug/L		123	60 - 150	0	25
Chlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	0	20
Chloroethane	ND		25.0	22.1		ug/L		89	68 - 130	2	25
Chloroform	ND		25.0	26.4		ug/L		106	70 - 130	2	20
Chloromethane	ND		25.0	21.4		ug/L		86	39 - 144	1	25
2-Chlorotoluene	ND		25.0	20.5		ug/L		82	70 - 130	0	20
4-Chlorotoluene	ND		25.0	20.7		ug/L		83	70 - 130	0	20
Chlorodibromomethane	ND		25.0	27.0		ug/L		108	70 - 148	1	25
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	3	20
1,3-Dichloropropane	ND		25.0	21.3		ug/L		85	70 - 130	1	25
1,1-Dichloropropene	ND		25.0	25.3		ug/L		101	64 - 130	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	19.2		ug/L		77	48 - 140	6	30
Ethylene Dibromide	ND		25.0	22.4		ug/L		90	70 - 131	2	25
Dibromomethane	ND		25.0	27.0		ug/L		108	70 - 130	0	25
Dichlorodifluoromethane	ND		25.0	24.8		ug/L		99	25 - 142	1	30
1,1-Dichloroethane	ND		25.0	24.3		ug/L		97	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	26.4		ug/L		106	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	27.5		ug/L		110	70 - 130	2	20
cis-1,2-Dichloroethene	ND		25.0	28.5		ug/L		114	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	26.9		ug/L		107	70 - 130	1	20
1,2-Dichloropropane	ND		25.0	23.7		ug/L		95	69 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	23.1		ug/L		92	70 - 133	1	20
trans-1,3-Dichloropropene	ND		25.0	22.6		ug/L		90	70 - 138	0	25
Ethylbenzene	ND		25.0	22.7		ug/L		91	70 - 130	0	20
Hexachlorobutadiene	ND		25.0	25.5		ug/L		102	10 - 150	6	20
2-Hexanone	ND		25.0	17.8		ug/L		71	10 - 150	4	35
Isopropylbenzene	ND		25.0	23.2		ug/L		93	70 - 132	0	20
4-Isopropyltoluene	ND		25.0	22.9		ug/L		92	70 - 130	0	20
Methylene Chloride	ND		25.0	24.9		ug/L		100	52 - 130	0	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	18.1		ug/L		72	52 - 150	7	35
Naphthalene	ND		25.0	23.3		ug/L		93	60 - 140	4	30
N-Propylbenzene	ND		25.0	20.3		ug/L		81	66 - 135	1	20
Styrene	ND		25.0	20.4		ug/L		82	29 - 150	0	35
1,1,1,2-Tetrachloroethane	ND		25.0	26.8		ug/L		107	60 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	17.7		ug/L		71	63 - 130	4	30
Tetrachloroethene	ND		25.0	29.6		ug/L		118	70 - 137	1	20
Toluene	ND		25.0	22.5		ug/L		90	70 - 130	1	20
1,2,3-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	26.8		ug/L		107	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	29.6		ug/L		118	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	21.1		ug/L		84	70 - 130	1	25
Trichloroethene	ND		25.0	29.8		ug/L		119	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	27.6		ug/L		110	60 - 150	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90792-2 MSD
Matrix: Water
Analysis Batch: 525066

Client Sample ID: DG-S11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	21.2		ug/L		85	60 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.3		ug/L		113	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		25.0	20.8		ug/L		83	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		25.0	21.1		ug/L		84	70 - 130	2	20
Vinyl acetate	ND		25.0	22.9		ug/L		92	23 - 150	4	30
Vinyl chloride	ND		25.0	21.0		ug/L		84	50 - 137	2	30
m-Xylene & p-Xylene	ND		25.0	22.7		ug/L		91	70 - 133	1	25
o-Xylene	ND		25.0	23.3		ug/L		93	70 - 133	2	20
2,2-Dichloropropane	ND		25.0	26.0		ug/L		104	69 - 138	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*91*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-525067/4
Matrix: Water
Analysis Batch: 525067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/25/19 20:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*01/25/19 20:05*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*01/25/19 20:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/25/19 20:05*	*1*

Lab Sample ID: LCS 440-525067/6
Matrix: Water
Analysis Batch: 525067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	484		ug/L		97	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*117*		*76 - 132*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90792-2 MS
Matrix: Water
Analysis Batch: 525067

Client Sample ID: DG-S11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1700		ug/L		98	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*119*		*76 - 132*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*
Toluene-d8 (Surr)	*91*		*80 - 128*

Lab Sample ID: 720-90792-2 MSD
Matrix: Water
Analysis Batch: 525067

Client Sample ID: DG-S11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1660		ug/L		96	50 - 145	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*117*		*76 - 132*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*
Toluene-d8 (Surr)	*91*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-523430/1-A
Matrix: Water
Analysis Batch: 523975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Acenaphthene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Fluorene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Phenanthrene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Anthracene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Chrysene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Fluoranthene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Pyrene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/18/19 11:28	01/22/19 09:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*38 - 120*	*01/18/19 11:28*	*01/22/19 09:10*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-523430/1-A
Matrix: Water
Analysis Batch: 523975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523430

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83		10 - 120	01/18/19 11:28	01/22/19 09:10	1
Terphenyl-d14	106		21 - 120	01/18/19 11:28	01/22/19 09:10	1

Lab Sample ID: LCS 440-523430/2-A
Matrix: Water
Analysis Batch: 523975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.838		ug/L		84	50 - 120
Acenaphthene	1.00	0.953		ug/L		95	55 - 120
Acenaphthylene	1.00	0.994		ug/L		99	53 - 120
Fluorene	1.00	1.05		ug/L		105	56 - 120
Phenanthrene	1.00	0.935		ug/L		94	56 - 120
Anthracene	1.00	0.928		ug/L		93	54 - 120
Benzo[a]anthracene	1.00	0.851		ug/L		85	53 - 120
Chrysene	1.00	0.842		ug/L		84	56 - 120
Benzo[a]pyrene	1.00	0.869		ug/L		87	44 - 120
Benzo[b]fluoranthene	1.00	0.836		ug/L		84	48 - 120
Benzo[k]fluoranthene	1.00	0.911		ug/L		91	47 - 121
Benzo[g,h,i]perylene	1.00	0.878		ug/L		88	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.800		ug/L		80	38 - 120
Fluoranthene	1.00	1.05		ug/L		105	59 - 120
Pyrene	1.00	1.02		ug/L		102	59 - 120
Dibenz(a,h)anthracene	1.00	0.854		ug/L		85	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	104		38 - 120
Nitrobenzene-d5	76		10 - 120
Terphenyl-d14	105		21 - 120

Lab Sample ID: 720-90792-3 MS
Matrix: Water
Analysis Batch: 523975

Client Sample ID: DG-U11W
Prep Type: Total/NA
Prep Batch: 523430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	0.26		1.14	1.09		ug/L		73	10 - 150
Acenaphthene	0.77		1.14	1.61		ug/L		74	10 - 150
Acenaphthylene	0.38		1.14	1.29		ug/L		80	23 - 132
Fluorene	3.7		1.14	4.16		ug/L		38	10 - 150
Phenanthrene	9.8		1.14	9.76	4	ug/L		-1	10 - 150
Anthracene	2.2		1.14	2.51		ug/L		31	13 - 136
Benzo[a]anthracene	0.52		1.14	1.35		ug/L		73	10 - 123
Chrysene	0.51		1.14	1.35		ug/L		73	10 - 131
Benzo[a]pyrene	0.20	J	1.14	0.864		ug/L		58	10 - 122
Benzo[b]fluoranthene	0.27		1.14	1.02		ug/L		66	10 - 129
Benzo[k]fluoranthene	0.14	J	1.14	0.805		ug/L		58	10 - 132
Benzo[g,h,i]perylene	ND		1.14	0.785		ug/L		69	10 - 126
Indeno[1,2,3-cd]pyrene	ND		1.14	0.698		ug/L		61	10 - 121

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90792-3 MS
Matrix: Water
Analysis Batch: 523975

Client Sample ID: DG-U11W
Prep Type: Total/NA
Prep Batch: 523430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	3.2		1.14	3.94		ug/L		68	11 - 148
Pyrene	1.9		1.14	2.81		ug/L		78	13 - 144
Dibenz(a,h)anthracene	ND		1.14	0.727		ug/L		64	10 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*89*		*38 - 120*
Nitrobenzene-d5	*77*		*10 - 120*
Terphenyl-d14	*77*		*21 - 120*

Lab Sample ID: 720-90792-3 MSD
Matrix: Water
Analysis Batch: 523975

Client Sample ID: DG-U11W
Prep Type: Total/NA
Prep Batch: 523430

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	0.26		1.06	1.18		ug/L		87	10 - 150	8	35
Acenaphthene	0.77		1.06	1.61		ug/L		79	10 - 150	0	35
Acenaphthylene	0.38		1.06	1.29		ug/L		86	23 - 132	0	35
Fluorene	3.7		1.06	4.25		ug/L		50	10 - 150	2	35
Phenanthrene	9.8		1.06	9.38	4	ug/L		-37	10 - 150	4	35
Anthracene	2.2		1.06	2.31		ug/L		15	13 - 136	8	35
Benzo[a]anthracene	0.52		1.06	1.21		ug/L		66	10 - 123	11	35
Chrysene	0.51		1.06	1.14		ug/L		59	10 - 131	17	35
Benzo[a]pyrene	0.20	J	1.06	0.819		ug/L		59	10 - 122	5	35
Benzo[b]fluoranthene	0.27		1.06	0.934		ug/L		63	10 - 129	9	35
Benzo[k]fluoranthene	0.14	J	1.06	0.730		ug/L		55	10 - 132	10	35
Benzo[g,h,i]perylene	ND		1.06	0.803		ug/L		76	10 - 126	2	35
Indeno[1,2,3-cd]pyrene	ND		1.06	0.696		ug/L		66	10 - 121	0	35
Fluoranthene	3.2		1.06	3.44		ug/L		27	11 - 148	13	35
Pyrene	1.9		1.06	2.47		ug/L		52	13 - 144	13	35
Dibenz(a,h)anthracene	ND		1.06	0.732		ug/L		69	10 - 119	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*102*		*38 - 120*
Nitrobenzene-d5	*90*		*10 - 120*
Terphenyl-d14	*87*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-523314/1-A
Matrix: Water
Analysis Batch: 523351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523314

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/18/19 06:09	01/18/19 16:34	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/18/19 06:09	01/18/19 16:34	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-523314/1-A
Matrix: Water
Analysis Batch: 523351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523314

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	73		45 - 120	01/18/19 06:09	01/18/19 16:34	1

Lab Sample ID: LCS 440-523314/2-A
Matrix: Water
Analysis Batch: 523351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523314

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	607		ug/L		61	40 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	138	X	45 - 120

Lab Sample ID: 720-90792-3 MS
Matrix: Water
Analysis Batch: 523351

Client Sample ID: DG-U11W
Prep Type: Total/NA
Prep Batch: 523314

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	160	J	1110	1270		ug/L		100	40 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	81		45 - 120

Lab Sample ID: 720-90792-3 MSD
Matrix: Water
Analysis Batch: 523351

Client Sample ID: DG-U11W
Prep Type: Total/NA
Prep Batch: 523314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	160	J	1020	948		ug/L		78	40 - 120	29	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	84		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258710/1-A
Matrix: Water
Analysis Batch: 258922

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/17/19 16:30	01/21/19 17:20	1
Arsenic	ND		10	2.9	ug/L		01/17/19 16:30	01/21/19 17:20	1
Barium	ND		50	1.6	ug/L		01/17/19 16:30	01/21/19 17:20	1
Beryllium	ND		2.0	0.59	ug/L		01/17/19 16:30	01/21/19 17:20	1
Cadmium	ND		2.0	0.21	ug/L		01/17/19 16:30	01/21/19 17:20	1
Chromium	ND		10	0.70	ug/L		01/17/19 16:30	01/21/19 17:20	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-258710/1-A
Matrix: Water
Analysis Batch: 258922

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		2.0	0.68	ug/L		01/17/19 16:30	01/21/19 17:20	1
Copper	ND		20	3.7	ug/L		01/17/19 16:30	01/21/19 17:20	1
Lead	ND		5.0	2.2	ug/L		01/17/19 16:30	01/21/19 17:20	1
Molybdenum	ND		10	2.9	ug/L		01/17/19 16:30	01/21/19 17:20	1
Nickel	ND		10	1.0	ug/L		01/17/19 16:30	01/21/19 17:20	1
Selenium	ND		20	4.6	ug/L		01/17/19 16:30	01/21/19 17:20	1
Silver	ND		5.0	2.0	ug/L		01/17/19 16:30	01/21/19 17:20	1
Thallium	ND		10	3.5	ug/L		01/17/19 16:30	01/21/19 17:20	1
Vanadium	ND		10	0.87	ug/L		01/17/19 16:30	01/21/19 17:20	1
Zinc	ND		20	7.4	ug/L		01/17/19 16:30	01/21/19 17:20	1

Lab Sample ID: LCS 720-258710/2-A
Matrix: Water
Analysis Batch: 258922

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	971		ug/L		97	80 - 120
Arsenic	1000	973		ug/L		97	80 - 120
Barium	1000	969		ug/L		97	80 - 120
Beryllium	1000	932		ug/L		93	80 - 120
Cadmium	1000	942		ug/L		94	80 - 120
Chromium	1000	961		ug/L		96	80 - 120
Cobalt	1000	993		ug/L		99	80 - 120
Copper	1000	955		ug/L		95	80 - 120
Lead	1000	982		ug/L		98	80 - 120
Molybdenum	1000	986		ug/L		99	80 - 120
Nickel	1000	976		ug/L		98	80 - 120
Selenium	1000	970		ug/L		97	80 - 120
Silver	500	463		ug/L		93	80 - 120
Thallium	1000	993		ug/L		99	80 - 120
Vanadium	1000	969		ug/L		97	80 - 120
Zinc	1000	937		ug/L		94	80 - 120

Lab Sample ID: 720-90792-2 MS
Matrix: Water
Analysis Batch: 258922

Client Sample ID: DG-S11W
Prep Type: Dissolved
Prep Batch: 258710

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	6.5	J	1000	937		ug/L		93	75 - 125
Arsenic	5.5	J	1000	965		ug/L		96	75 - 125
Barium	50		1000	1020		ug/L		97	75 - 125
Beryllium	0.83	J	1000	920		ug/L		92	75 - 125
Cadmium	0.72	J	1000	924		ug/L		92	75 - 125
Chromium	ND		1000	900		ug/L		90	75 - 125
Cobalt	3.0		1000	974		ug/L		97	75 - 125
Copper	ND		1000	897		ug/L		90	75 - 125
Lead	9.0		1000	951		ug/L		94	75 - 125
Molybdenum	12		1000	960		ug/L		95	75 - 125
Nickel	2.7	J	1000	951		ug/L		95	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90792-2 MS
Matrix: Water
Analysis Batch: 258922

Client Sample ID: DG-S11W
Prep Type: Dissolved
Prep Batch: 258710

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		1000	983		ug/L		98	75 - 125
Silver	ND		500	437		ug/L		87	75 - 125
Thallium	ND		1000	926		ug/L		93	75 - 125
Vanadium	2.2	J	1000	947		ug/L		94	75 - 125
Zinc	ND		1000	918		ug/L		92	75 - 125

Lab Sample ID: 720-90792-2 MSD
Matrix: Water
Analysis Batch: 258922

Client Sample ID: DG-S11W
Prep Type: Dissolved
Prep Batch: 258710

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	6.5	J	1000	959		ug/L		95	75 - 125	2	20
Arsenic	5.5	J	1000	984		ug/L		98	75 - 125	2	20
Barium	50		1000	1010		ug/L		96	75 - 125	1	20
Beryllium	0.83	J	1000	933		ug/L		93	75 - 125	1	20
Cadmium	0.72	J	1000	941		ug/L		94	75 - 125	2	20
Chromium	ND		1000	917		ug/L		92	75 - 125	2	20
Cobalt	3.0		1000	962		ug/L		96	75 - 125	1	20
Copper	ND		1000	908		ug/L		91	75 - 125	1	20
Lead	9.0		1000	955		ug/L		95	75 - 125	0	20
Molybdenum	12		1000	972		ug/L		96	75 - 125	1	20
Nickel	2.7	J	1000	950		ug/L		95	75 - 125	0	20
Selenium	ND		1000	990		ug/L		99	75 - 125	1	20
Silver	ND		500	446		ug/L		89	75 - 125	2	20
Thallium	ND		1000	927		ug/L		93	75 - 125	0	20
Vanadium	2.2	J	1000	952		ug/L		95	75 - 125	1	20
Zinc	ND		1000	945		ug/L		95	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259321/1-A
Matrix: Water
Analysis Batch: 259349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 11:16	01/28/19 14:07	1

Lab Sample ID: LCS 720-259321/2-A
Matrix: Water
Analysis Batch: 259349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.92		ug/L		99	85 - 115

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90792-2 MS
Matrix: Water
Analysis Batch: 259349

Client Sample ID: DG-S11W
Prep Type: Dissolved
Prep Batch: 259321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.68		ug/L		97	75 - 125

Lab Sample ID: 720-90792-2 MSD
Matrix: Water
Analysis Batch: 259349

Client Sample ID: DG-S11W
Prep Type: Dissolved
Prep Batch: 259321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.88		ug/L		99	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-258593/9
Matrix: Water
Analysis Batch: 258593

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/15/19 22:10	1

Lab Sample ID: LCS 720-258593/10
Matrix: Water
Analysis Batch: 258593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	250	258		ug/L		103	90 - 110

Lab Sample ID: LCSD 720-258593/11
Matrix: Water
Analysis Batch: 258593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	250	257		ug/L		103	90 - 110	0	20

Lab Sample ID: 720-90792-2 MS
Matrix: Water
Analysis Batch: 258593

Client Sample ID: DG-S11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		250	257		ug/L		103	85 - 115

Lab Sample ID: 720-90792-2 MSD
Matrix: Water
Analysis Batch: 258593

Client Sample ID: DG-S11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	258		ug/L		103	85 - 115	0	20

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 720-90792-3 MS
Matrix: Water
Analysis Batch: 258593

Client Sample ID: DG-U11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		250	251		ug/L		100	85 - 115

Lab Sample ID: 720-90792-3 MSD
Matrix: Water
Analysis Batch: 258593

Client Sample ID: DG-U11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	252		ug/L		101	85 - 115	0	20

GC/MS VOA

Analysis Batch: 525066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Total/NA	Water	8260B	
720-90792-2	DG-S11W	Total/NA	Water	8260B	
720-90792-3	DG-U11W	Total/NA	Water	8260B	
720-90792-4	DG-V13W	Total/NA	Water	8260B	
720-90792-5	DG-T13W	Total/NA	Water	8260B	
720-90792-6	DG-Z9W	Total/NA	Water	8260B	
720-90792-7	DUP-74	Total/NA	Water	8260B	
720-90792-8	FB-1.15.19	Total/NA	Water	8260B	
720-90792-9	TB-1.15.19	Total/NA	Water	8260B	
MB 440-525066/4	Method Blank	Total/NA	Water	8260B	
LCS 440-525066/5	Lab Control Sample	Total/NA	Water	8260B	
720-90792-2 MS	DG-S11W	Total/NA	Water	8260B	
720-90792-2 MSD	DG-S11W	Total/NA	Water	8260B	

Analysis Batch: 525067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-2	DG-S11W	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-3	DG-U11W	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-4	DG-V13W	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-5	DG-T13W	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-6	DG-Z9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-7	DUP-74	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-8	FB-1.15.19	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-9	TB-1.15.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-525067/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-525067/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-2 MS	DG-S11W	Total/NA	Water	8260B/CA_LUFT MS	
720-90792-2 MSD	DG-S11W	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 523430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Total/NA	Water	3520C	
720-90792-2	DG-S11W	Total/NA	Water	3520C	
720-90792-3	DG-U11W	Total/NA	Water	3520C	
720-90792-4	DG-V13W	Total/NA	Water	3520C	
720-90792-5	DG-T13W	Total/NA	Water	3520C	
720-90792-6	DG-Z9W	Total/NA	Water	3520C	
720-90792-7	DUP-74	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 523430 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-523430/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-523430/2-A	Lab Control Sample	Total/NA	Water	3520C	
720-90792-3 MS	DG-U11W	Total/NA	Water	3520C	
720-90792-3 MSD	DG-U11W	Total/NA	Water	3520C	

Analysis Batch: 523975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Total/NA	Water	8270C SIM	523430
720-90792-2	DG-S11W	Total/NA	Water	8270C SIM	523430
720-90792-3	DG-U11W	Total/NA	Water	8270C SIM	523430
720-90792-4	DG-V13W	Total/NA	Water	8270C SIM	523430
720-90792-5	DG-T13W	Total/NA	Water	8270C SIM	523430
720-90792-6	DG-Z9W	Total/NA	Water	8270C SIM	523430
720-90792-7	DUP-74	Total/NA	Water	8270C SIM	523430
MB 440-523430/1-A	Method Blank	Total/NA	Water	8270C SIM	523430
LCS 440-523430/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	523430
720-90792-3 MS	DG-U11W	Total/NA	Water	8270C SIM	523430
720-90792-3 MSD	DG-U11W	Total/NA	Water	8270C SIM	523430

GC Semi VOA

Prep Batch: 523314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Total/NA	Water	3510C	
720-90792-2	DG-S11W	Total/NA	Water	3510C	
720-90792-3	DG-U11W	Total/NA	Water	3510C	
720-90792-4	DG-V13W	Total/NA	Water	3510C	
720-90792-5	DG-T13W	Total/NA	Water	3510C	
720-90792-6	DG-Z9W	Total/NA	Water	3510C	
720-90792-7	DUP-74	Total/NA	Water	3510C	
MB 440-523314/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-523314/2-A	Lab Control Sample	Total/NA	Water	3510C	
720-90792-3 MS	DG-U11W	Total/NA	Water	3510C	
720-90792-3 MSD	DG-U11W	Total/NA	Water	3510C	

Analysis Batch: 523351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Total/NA	Water	8015B	523314
720-90792-2	DG-S11W	Total/NA	Water	8015B	523314
720-90792-3	DG-U11W	Total/NA	Water	8015B	523314
720-90792-4	DG-V13W	Total/NA	Water	8015B	523314
720-90792-5	DG-T13W	Total/NA	Water	8015B	523314
720-90792-6	DG-Z9W	Total/NA	Water	8015B	523314
720-90792-7	DUP-74	Total/NA	Water	8015B	523314
MB 440-523314/1-A	Method Blank	Total/NA	Water	8015B	523314
LCS 440-523314/2-A	Lab Control Sample	Total/NA	Water	8015B	523314
720-90792-3 MS	DG-U11W	Total/NA	Water	8015B	523314
720-90792-3 MSD	DG-U11W	Total/NA	Water	8015B	523314

Metals

Prep Batch: 258710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Dissolved	Water	3005A	
720-90792-2	DG-S11W	Dissolved	Water	3005A	
720-90792-3	DG-U11W	Dissolved	Water	3005A	
720-90792-4	DG-V13W	Dissolved	Water	3005A	
720-90792-5	DG-T13W	Dissolved	Water	3005A	
720-90792-6	DG-Z9W	Dissolved	Water	3005A	
720-90792-7	DUP-74	Dissolved	Water	3005A	
MB 720-258710/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-258710/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90792-2 MS	DG-S11W	Dissolved	Water	3005A	
720-90792-2 MSD	DG-S11W	Dissolved	Water	3005A	

Analysis Batch: 258840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Dissolved	Water	6010B	258710
720-90792-3	DG-U11W	Dissolved	Water	6010B	258710
720-90792-4	DG-V13W	Dissolved	Water	6010B	258710
720-90792-5	DG-T13W	Dissolved	Water	6010B	258710
720-90792-6	DG-Z9W	Dissolved	Water	6010B	258710
720-90792-7	DUP-74	Dissolved	Water	6010B	258710

Analysis Batch: 258922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Dissolved	Water	6010B	258710
720-90792-2	DG-S11W	Dissolved	Water	6010B	258710
720-90792-3	DG-U11W	Dissolved	Water	6010B	258710
720-90792-4	DG-V13W	Dissolved	Water	6010B	258710
720-90792-5	DG-T13W	Dissolved	Water	6010B	258710
720-90792-6	DG-Z9W	Dissolved	Water	6010B	258710
720-90792-7	DUP-74	Dissolved	Water	6010B	258710
MB 720-258710/1-A	Method Blank	Total Recoverable	Water	6010B	258710
LCS 720-258710/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258710
720-90792-2 MS	DG-S11W	Dissolved	Water	6010B	258710
720-90792-2 MSD	DG-S11W	Dissolved	Water	6010B	258710

Prep Batch: 259321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Dissolved	Water	7470A	
720-90792-2	DG-S11W	Dissolved	Water	7470A	
720-90792-3	DG-U11W	Dissolved	Water	7470A	
720-90792-4	DG-V13W	Dissolved	Water	7470A	
720-90792-5	DG-T13W	Dissolved	Water	7470A	
720-90792-6	DG-Z9W	Dissolved	Water	7470A	
720-90792-7	DUP-74	Dissolved	Water	7470A	
MB 720-259321/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259321/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90792-2 MS	DG-S11W	Dissolved	Water	7470A	
720-90792-2 MSD	DG-S11W	Dissolved	Water	7470A	

Metals (Continued)

Analysis Batch: 259349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Dissolved	Water	7470A	259321
720-90792-2	DG-S11W	Dissolved	Water	7470A	259321
720-90792-3	DG-U11W	Dissolved	Water	7470A	259321
720-90792-4	DG-V13W	Dissolved	Water	7470A	259321
720-90792-5	DG-T13W	Dissolved	Water	7470A	259321
720-90792-6	DG-Z9W	Dissolved	Water	7470A	259321
720-90792-7	DUP-74	Dissolved	Water	7470A	259321
MB 720-259321/1-A	Method Blank	Total/NA	Water	7470A	259321
LCS 720-259321/2-A	Lab Control Sample	Total/NA	Water	7470A	259321
720-90792-2 MS	DG-S11W	Dissolved	Water	7470A	259321
720-90792-2 MSD	DG-S11W	Dissolved	Water	7470A	259321

General Chemistry

Analysis Batch: 258593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90792-1	DG-Q11W	Total/NA	Water	7196A	
720-90792-2	DG-S11W	Total/NA	Water	7196A	
720-90792-3 - IN2	DG-U11W	Total/NA	Water	7196A	
720-90792-4	DG-V13W	Total/NA	Water	7196A	
720-90792-5	DG-T13W	Total/NA	Water	7196A	
720-90792-6	DG-Z9W	Total/NA	Water	7196A	
720-90792-7	DUP-74	Total/NA	Water	7196A	
MB 720-258593/9	Method Blank	Total/NA	Water	7196A	
LCS 720-258593/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-258593/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90792-2 MS	DG-S11W	Total/NA	Water	7196A	
720-90792-2 MSD	DG-S11W	Total/NA	Water	7196A	
720-90792-3 MS	DG-U11W	Total/NA	Water	7196A	
720-90792-3 MSD	DG-U11W	Total/NA	Water	7196A	

Client Sample ID: DG-Q11W

Lab Sample ID: 720-90792-1

Date Collected: 01/15/19 11:45

Matrix: Water

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525066	01/25/19 22:44	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525067	01/25/19 22:44	AYL	TAL IRV
Total/NA	Prep	3520C			523430	01/18/19 11:28	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523975	01/22/19 12:49	HN	TAL IRV
Total/NA	Prep	3510C			523314	01/18/19 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523351	01/18/19 18:00	MPD	TAL IRV
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258840	01/18/19 18:16	BKR	TAL PLS
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258922	01/21/19 17:53	OBI	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:19	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258593	01/15/19 22:10	ECB	TAL PLS

Client Sample ID: DG-S11W

Lab Sample ID: 720-90792-2

Date Collected: 01/15/19 12:20

Matrix: Water

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525066	01/25/19 21:24	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525067	01/25/19 21:24	AYL	TAL IRV
Total/NA	Prep	3520C			523430	01/18/19 11:28	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		2	523975	01/22/19 14:39	HN	TAL IRV
Total/NA	Prep	3510C			523314	01/18/19 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523351	01/18/19 18:22	MPD	TAL IRV
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258922	01/21/19 17:48	OBI	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:16	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258593	01/15/19 22:10	ECB	TAL PLS

Client Sample ID: DG-U11W

Lab Sample ID: 720-90792-3

Date Collected: 01/15/19 13:05

Matrix: Water

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525066	01/25/19 23:10	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525067	01/25/19 23:10	AYL	TAL IRV
Total/NA	Prep	3520C			523430	01/18/19 11:28	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523975	01/22/19 09:58	HN	TAL IRV
Total/NA	Prep	3510C			523314	01/18/19 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523351	01/18/19 16:56	MPD	TAL IRV

Client Sample ID: DG-U11W

Lab Sample ID: 720-90792-3

Date Collected: 01/15/19 13:05

Matrix: Water

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258840	01/18/19 18:21	BKR	TAL PLS
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258922	01/21/19 17:58	OBI	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:21	MAG	TAL PLS
Total/NA	Analysis	7196A	IN2	1	258593	01/15/19 22:10	ECB	TAL PLS

Client Sample ID: DG-V13W

Lab Sample ID: 720-90792-4

Date Collected: 01/15/19 13:30

Matrix: Water

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525066	01/25/19 23:37	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525067	01/25/19 23:37	AYL	TAL IRV
Total/NA	Prep	3520C			523430	01/18/19 11:28	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		2	523975	01/22/19 15:03	HN	TAL IRV
Total/NA	Prep	3510C			523314	01/18/19 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523351	01/18/19 18:44	MPD	TAL IRV
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258840	01/18/19 18:26	BKR	TAL PLS
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258922	01/21/19 18:03	OBI	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:23	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258593	01/15/19 22:12	ECB	TAL PLS

Client Sample ID: DG-T13W

Lab Sample ID: 720-90792-5

Date Collected: 01/15/19 13:55

Matrix: Water

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525066	01/26/19 00:03	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525067	01/26/19 00:03	AYL	TAL IRV
Total/NA	Prep	3520C			523430	01/18/19 11:28	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523975	01/22/19 11:36	HN	TAL IRV
Total/NA	Prep	3510C			523314	01/18/19 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523351	01/18/19 20:10	MPD	TAL IRV
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258840	01/18/19 18:31	BKR	TAL PLS
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258922	01/21/19 18:17	OBI	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS

Client Sample ID: DG-T13W

Lab Sample ID: 720-90792-5

Date Collected: 01/15/19 13:55

Matrix: Water

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	7470A		1	259349	01/28/19 14:26	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258593	01/15/19 22:12	ECB	TAL PLS

Client Sample ID: DG-Z9W

Lab Sample ID: 720-90792-6

Date Collected: 01/15/19 14:30

Matrix: Water

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525066	01/26/19 00:30	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525067	01/26/19 00:30	AYL	TAL IRV
Total/NA	Prep	3520C			523430	01/18/19 11:28	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523975	01/22/19 12:00	HN	TAL IRV
Total/NA	Prep	3510C			523314	01/18/19 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523351	01/18/19 20:32	MPD	TAL IRV
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258840	01/18/19 18:36	BKR	TAL PLS
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258922	01/21/19 18:22	OBI	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:28	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258593	01/15/19 22:12	ECB	TAL PLS

Client Sample ID: DUP-74

Lab Sample ID: 720-90792-7

Date Collected: 01/15/19 00:00

Matrix: Water

Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525066	01/26/19 00:56	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525067	01/26/19 00:56	AYL	TAL IRV
Total/NA	Prep	3520C			523430	01/18/19 11:28	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	523975	01/22/19 12:24	HN	TAL IRV
Total/NA	Prep	3510C			523314	01/18/19 06:09	L1H	TAL IRV
Total/NA	Analysis	8015B		1	523351	01/18/19 19:06	MPD	TAL IRV
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258840	01/18/19 18:41	BKR	TAL PLS
Dissolved	Prep	3005A			258710	01/17/19 16:30	GLL	TAL PLS
Dissolved	Analysis	6010B		1	258922	01/21/19 18:27	OBI	TAL PLS
Dissolved	Prep	7470A			259321	01/28/19 11:16	SUN	TAL PLS
Dissolved	Analysis	7470A		1	259349	01/28/19 14:35	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258593	01/15/19 22:12	ECB	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Client Sample ID: FB-1.15.19

Lab Sample ID: 720-90792-8

Date Collected: 01/15/19 00:00
Matrix: Water
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525066	01/26/19 01:23	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525067	01/26/19 01:23	AYL	TAL IRV

Client Sample ID: TB-1.15.19

Lab Sample ID: 720-90792-9

Date Collected: 01/15/19 00:00
Matrix: Water
Date Received: 01/15/19 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525066	01/26/19 01:49	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525067	01/26/19 01:49	AYL	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90792-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90792-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90792-1	DG-Q11W	Water	01/15/19 11:45	01/15/19 19:00
720-90792-2	DG-S11W	Water	01/15/19 12:20	01/15/19 19:00
720-90792-3	DG-U11W	Water	01/15/19 13:05	01/15/19 19:00
720-90792-4	DG-V13W	Water	01/15/19 13:30	01/15/19 19:00
720-90792-5	DG-T13W	Water	01/15/19 13:55	01/15/19 19:00
720-90792-6	DG-Z9W	Water	01/15/19 14:30	01/15/19 19:00
720-90792-7	DUP-74	Water	01/15/19 00:00	01/15/19 19:00
720-90792-8	FB-1.15.19	Water	01/15/19 00:00	01/15/19 19:00
720-90792-9	TB-1.15.19	Water	01/15/19 00:00	01/15/19 19:00

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90792

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
157850
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/15/19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90792 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium Gr VI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG - Q11W	1/15/19	1145	G	GW	8	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG - S11W		1220				N	Y						MS/MSD for VOCs + metals
3	DG - U11W		1305					Y						MS/MSD for SVOCs + TPH
4	DG - V13W		1330											
5	DG - T13W		1355											
6	DG - Z9W		1430			↓								
7	DUP - 74		—			↓				↓	↓	↓	↓	
8	FB - 1.15.19		—			2								
9	TB - 1.15.19	↓	—	↓	↓	2			↓					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

2.0°C, 1.2°C, 1.6°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C). Obs'd. ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company: Geosyntec	Date/Time: 1-15-19 16:20	Received by	Company: TA PLS	Date/Time: 1-15-19 16:20
Relinquished by	Company: TA PLS	Date/Time: 1-15-19 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1-15-19 1900

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s).	COC No 720-40825.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90792-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EOTA	W - pH 4-5
L - EOA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-Q11W (720-90792-1)	1/15/19	11:45 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-S11W (720-90792-2)	1/15/19	12:20 Pacific		Water			X	X	X	X	5	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-S11W (720-90792-2MS)	1/15/19	12:20 Pacific	MS	Water			X	X			2	check for 2 phases
DG-S11W (720-90792-2MSD)	1/15/19	12:20 Pacific	MSD	Water			X	X			1	check for 2 phases
DG-V11W (720-90792-3)	1/15/19	13:05 Pacific		Water			X	X	X	X	5	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-V11W (720-90792-3MS)	1/15/19	13:05 Pacific	MS	Water					X	X	2	check for 2 phases-Use Gravity Separation Protocal- client specific
DG-V11W (720-90792-3MSD)	1/15/19	13:05 Pacific	MSD	Water					X	X	2	check for 2 phases-Use Gravity Separation Protocal- client specific
DG-V13W (720-90792-4)	1/15/19	13:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-T13W (720-90792-5)	1/15/19	13:55 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
	1/16/19 1340	TAPS			
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1/17/19 1030	Company: TA [illegible]

Custody Seals Intact: Δ Yes Δ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks: 3-3/2.3 IR-66 / 2.7/2.2 IR-94 / 1243 2-6/3.0

Ver 09/20/2016

1/29/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40825.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90792-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-Z9W (720-90792-6)	1/15/19	14:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-74 (720-90792-7)	1/15/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-1.15 19 (720-90792-8)	1/15/19	Pacific		Water			X	X			2	check for 2 phases
TB-1.15 19 (720-90792-9)	1/15/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/16/19 1340	Company: TAPLS	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/17/19 1030	Company: TA IRV

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: IR431 2.6/HOR 5.0

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90792-1

Login Number: 90792
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90792-1

Login Number: 90792
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/17/19 01:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90792-1

Login Number: 90792
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/17/19 02:45 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90946-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Karen Dahl

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90946-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90946-1

Comments
No additional comments.

Receipt
The samples were received on 1/21/2019 5:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.3º C, 0.8º C, 1.7º C and 2.3º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DG-AW10S-0.5-1 (720-90946-7). The container labels list an ID of DG-AW10S-0.5-1, while the COC lists an ID of DG-AW10S-0.5-4. Logged in using container sample label ID.

Metals
Method 6010B: The method blank for preparation batch 720-258633 and analytical batch 720-259173 contained Barium, Lead, & Antimony above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258633 and analytical batch 720-259173 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259173 was outside control limits for Barium-15%, Cobalt-22%,Vanadium-13%: (720-90791-32-SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AY9S-0.5-1 (720-90946-1), DG-AY9S-3.5-4 (720-90946-2), DG-AZ10S-0.5-1 (720-90946-3), DG-AZ10S-3.5-4 (720-90946-4), DG-AX10S-0.5-1 (720-90946-5), DG-AX10S-3.5-4 (720-90946-6), DG-AW10S-0.5-1 (720-90946-7), DG-AW10S-3.5-4 (720-90946-8), DG-AV10S-0.5-1 (720-90946-9), DG-AV10S-3.5-4 (720-90946-10), DG-AT11S-3.5-4 (720-90946-12), DG-AX11S-0.5-1 (720-90946-13), DG-AX11S-0.5-1 (720-90946-13[MS]), DG-AX11S-0.5-1 (720-90946-13[MSD]), DG-AX11S-3.5-4 (720-90946-14), DG-AS12S-0.5-1 (720-90946-15), DG-AS12S-3.5-4 (720-90946-16), DG-AR12S-0.5-1 (720-90946-17), DG-AR12S-3.5-4 (720-90946-18), DG-AQ12S-0.5-1 (720-90946-19), DG-AQ12S-3.5-4 (720-90946-20), DG-AQ13S-0.5-1 (720-90946-21), DG-AQ13S-3.5-4 (720-90946-22), DG-AQ13S-11.5-12 (720-90946-23), DG-AO14S-0.5-1 (720-90946-24), DUP-79 (720-90946-25), & DG-AN14S-0.5-1 (720-90946-26). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes & to bring the concentration of target analytes within the calibration range: DG-AV10S-14.5-15 (720-90946-11). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259206 recovered above the upper control limit for Thallium. The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AY9S-0.5-1 (720-90946-1), DG-AY9S-3.5-4 (720-90946-2), DG-AZ10S-0.5-1 (720-90946-3), DG-AZ10S-3.5-4 (720-90946-4), DG-AX10S-0.5-1 (720-90946-5), DG-AX10S-3.5-4 (720-90946-6), DG-AW10S-0.5-1 (720-90946-7), DG-AW10S-3.5-4 (720-90946-8), DG-AV10S-0.5-1 (720-90946-9), DG-AV10S-3.5-4 (720-90946-10), and DG-AX11S-0.5-1 (720-90946-13). Affected results are qualified with a ^ symbol.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259206 contained Thallium above the reporting limit (RL). All reported samples associated with this CCB were ND for this analyte therefore, re-analysis of samples was not performed. Affected results are qualified with a ^ symbol.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259312 contained Zinc above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected results are qualified with a ^ symbol.

Job ID: 720-90946-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The method blank for preparation batch 720-259050 and analytical batch 720-259443 contained Barium, Chromium, & Lead above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259050 and analytical batch 720-259443 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259443 was outside control limits for Cobalt-12%: (720-90948-7-SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259443 contained Lead above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected results are qualified with a ^ symbol.

Method 7471A: The method blank for preparation batch 720-259049 and analytical batch 720-259475 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7471A: The following samples were diluted to bring the concentration of target analytes within the calibration range: DG-AV10S-14.5-15 (720-90946-11), DG-AS12S-3.5-4 (720-90946-16), DG-AR12S-3.5-4 (720-90946-18) and DG-AQ13S-11.5-12 (720-90946-23). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AY9S-0.5-1 — Lab Sample ID: 720-90946-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.67	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	8.9		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.51		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.81		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	55		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	48		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	63	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	34		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	140		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AY9S-3.5-4 — Lab Sample ID: 720-90946-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.47	J B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	6.5		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.62		0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	58		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	19		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	10	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	30		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.73	J	2.2	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	42	^	3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.040		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AZ10S-0.5-1 — Lab Sample ID: 720-90946-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.32	J B	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	5.8		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	140	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.60		0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	38		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	16		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	6.4	B	1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	29		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.48	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	46		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	35	^	4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.019		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AZ10S-3.5-4 — Lab Sample ID: 720-90946-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	7.8		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	99	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.51		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.28	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	44		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.3		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	21		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	8.1	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	27		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	42	^	5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.025		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX10S-0.5-1 — Lab Sample ID: 720-90946-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.46	J B	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	5.2		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.40		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	53		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	32		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	11	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.32	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	47		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	60	^	3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX10S-3.5-4 — Lab Sample ID: 720-90946-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.83	J B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	10		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	72	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.75		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.35	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	48		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	58		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	17	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	35		1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	64	^	5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.057		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AW10S-0.5-1 — Lab Sample ID: 720-90946-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.46	J B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	6.8		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	59	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.80		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	67		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	27		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	18	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	61		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	61		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	77	^	5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.068		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW10S-3.5-4 — Lab Sample ID: 720-90946-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.4	J	3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	27	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	38		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	3.7		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	17		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	9.6	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	19		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.77	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	33	^	4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.023		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV10S-0.5-1 — Lab Sample ID: 720-90946-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6	B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	9.0		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	150	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.98		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	250		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	110		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	140	B	1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.32	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	52		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.4	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	400	^	3.7	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.38		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AV10S-3.5-4 — Lab Sample ID: 720-90946-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.96	J B	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	6.1		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	55	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.48		0.23	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.47		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	37		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	52		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	41	B	1.2	0.24	mg/Kg	4		6010B	Total/NA
Nickel	33		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.71	J	2.3	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	190	^	3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.23		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV10S-14.5-15 — Lab Sample ID: 720-90946-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	48	B	2.9	0.49	mg/Kg	10		6010B	Total/NA
Arsenic	20		5.9	0.50	mg/Kg	10		6010B	Total/NA
Barium	1600	B	2.9	0.42	mg/Kg	10		6010B	Total/NA
Beryllium	0.81		0.59	0.19	mg/Kg	10		6010B	Total/NA
Cadmium	66		0.74	0.073	mg/Kg	10		6010B	Total/NA
Chromium	970		2.9	0.31	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	5100		8.8	4.2	mg/Kg	10		6010B	Total/NA
Lead	7200	B	2.9	0.62	mg/Kg	10		6010B	Total/NA
Molybdenum	1.9	J	2.9	0.38	mg/Kg	10		6010B	Total/NA
Nickel	3400		2.9	0.30	mg/Kg	10		6010B	Total/NA
Selenium	2.4	J	5.9	0.88	mg/Kg	10		6010B	Total/NA
Silver	11		1.5	0.30	mg/Kg	10		6010B	Total/NA
Vanadium	31		2.9	0.40	mg/Kg	10		6010B	Total/NA
Zinc	7300		18	7.5	mg/Kg	20		6010B	Total/NA
Mercury	13		0.31	0.045	mg/Kg	20		7471A	Total/NA

Client Sample ID: DG-AT11S-3.5-4 — Lab Sample ID: 720-90946-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.0	B	3.8	0.63	mg/Kg	10		6010B	Total/NA
Arsenic	8.7		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	230	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	33		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	5.8		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	240		11	5.4	mg/Kg	10		6010B	Total/NA
Lead	210	B	3.8	0.80	mg/Kg	10		6010B	Total/NA
Molybdenum	0.79	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	58		3.8	0.39	mg/Kg	10		6010B	Total/NA
Silver	0.40	J	0.76	0.15	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT11S-3.5-4 (Continued) — Lab Sample ID: 720-90946-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	3.9		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	970		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX11S-0.5-1 — Lab Sample ID: 720-90946-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.9	B F1	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	5.1		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	100	B F1	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.54		0.29	0.095	mg/Kg	4		6010B	Total/NA
Cadmium	0.49		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	440		1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	54		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	88	B F1 F2	1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	35		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.93	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	230		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.41		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX11S-3.5-4 — Lab Sample ID: 720-90946-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	6.7		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	78	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.92		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	30	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	20		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	13	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.31	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	24		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	46		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.042	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS12S-0.5-1 — Lab Sample ID: 720-90946-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.3		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	6.6		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	210	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.30	0.097	mg/Kg	4		6010B	Total/NA
Cadmium	0.87		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	200	B	1.5	0.16	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AS12S-0.5-1 (Continued) — Lab Sample ID: 720-90946-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	10		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	170		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	470	B	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.24	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	36		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	1.1		0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	46		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	590		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.69	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS12S-3.5-4 — Lab Sample ID: 720-90946-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.3		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	8.0		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	140	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.65		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	240	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	100		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	360	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	35		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.69	J	3.4	0.52	mg/Kg	4		6010B	Total/NA
Silver	0.54	J	0.86	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	410		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	1.8	B	0.059	0.0087	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AR12S-0.5-1 — Lab Sample ID: 720-90946-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.89	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	6.1		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.60		0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	63	B	1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	26		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	23	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	26		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.65	J	2.2	0.32	mg/Kg	4		6010B	Total/NA
Silver	0.19	J	0.54	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	50		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.088	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AR12S-3.5-4 — Lab Sample ID: 720-90946-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	40		4.0	0.67	mg/Kg	10		6010B	Total/NA
Arsenic	20		8.1	0.69	mg/Kg	10		6010B	Total/NA
Barium	920	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	26		1.0	0.10	mg/Kg	10		6010B	Total/NA
Chromium	2000	B	4.0	0.43	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	1600		12	5.7	mg/Kg	10		6010B	Total/NA
Lead	5200	B	4.0	0.85	mg/Kg	10		6010B	Total/NA
Molybdenum	0.94	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	58		4.0	0.41	mg/Kg	10		6010B	Total/NA
Selenium	8.1		8.1	1.2	mg/Kg	10		6010B	Total/NA
Silver	9.8		2.0	0.41	mg/Kg	10		6010B	Total/NA
Vanadium	36		4.0	0.55	mg/Kg	10		6010B	Total/NA
Zinc	3800		12	5.1	mg/Kg	10		6010B	Total/NA
Mercury	22	B	0.66	0.097	mg/Kg	40		7471A	Total/NA

Client Sample ID: DG-AQ12S-0.5-1 — Lab Sample ID: 720-90946-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	2.3		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	350	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.63		0.22	0.072	mg/Kg	4		6010B	Total/NA
Cadmium	0.28		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	44	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	75		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	6.7	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.99	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	46		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.89	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Silver	0.26	J	0.56	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	75		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.54	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ12S-3.5-4 — Lab Sample ID: 720-90946-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	8.3		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	130	B	1.4	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.48		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	56	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	45		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	21	B ^	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.23	J	1.4	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ12S-3.5-4 (Continued) — Lab Sample ID: 720-90946-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	34		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	47		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.052	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ13S-0.5-1 — Lab Sample ID: 720-90946-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	4.1		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	520	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.75		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.37		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	43	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	29		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	91		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	9.6	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.8		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	63		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Silver	0.64	J	0.72	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	89		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.49	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ13S-3.5-4 — Lab Sample ID: 720-90946-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.99	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	4.2		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	96	B	1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.34	J	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.10	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	42	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	20		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	12	B	1.7	0.37	mg/Kg	4		6010B	Total/NA
Nickel	29		1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	43		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.85	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ13S-11.5-12 — Lab Sample ID: 720-90946-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	59		6.4	1.1	mg/Kg	20		6010B	Total/NA
Arsenic	24		13	1.1	mg/Kg	20		6010B	Total/NA
Barium	1500	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.56	J	1.3	0.42	mg/Kg	20		6010B	Total/NA
Cadmium	6.1		1.6	0.16	mg/Kg	20		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ13S-11.5-12 (Continued) — Lab Sample ID: 720-90946-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	81	B	6.4	0.68	mg/Kg	20		6010B	Total/NA
Cobalt	24		2.6	0.26	mg/Kg	20		6010B	Total/NA
Copper	1400		19	9.1	mg/Kg	20		6010B	Total/NA
Lead	9200	B	6.4	1.3	mg/Kg	20		6010B	Total/NA
Molybdenum	0.27	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	82		6.4	0.65	mg/Kg	20		6010B	Total/NA
Selenium	3.1	J	13	1.9	mg/Kg	20		6010B	Total/NA
Silver	7.0		3.2	0.65	mg/Kg	20		6010B	Total/NA
Vanadium	36		6.4	0.87	mg/Kg	20		6010B	Total/NA
Zinc	4900		19	8.1	mg/Kg	20		6010B	Total/NA
Mercury	1.8	B	0.063	0.0092	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AO14S-0.5-1 — Lab Sample ID: 720-90946-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	7.2		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	87	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.69		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	29	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	34		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	40	B ^	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.21	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	27		1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	62		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.035	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-79 — Lab Sample ID: 720-90946-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.7		4.1	0.67	mg/Kg	10		6010B	Total/NA
Arsenic	2.8	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	190	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.74		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	12	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	3.4		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	980		12	5.8	mg/Kg	10		6010B	Total/NA
Lead	160	B	4.1	0.85	mg/Kg	10		6010B	Total/NA
Molybdenum	0.86	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	49		4.1	0.41	mg/Kg	10		6010B	Total/NA
Vanadium	3.9		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	1200		24	10	mg/Kg	20		6010B	Total/NA
Mercury	0.057	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN14S-0.5-1 — Lab Sample ID: 720-90946-26

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AN14S-0.5-1 (Continued)

Lab Sample ID: 720-90946-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.94	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	1.7	J	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	140	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	29	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	5.3		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	24		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	49	B ^	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.41	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	24		1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	86		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.034	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AY9S-0.5-1

Date Collected: 01/21/19 09:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J B	1.6	0.27	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Arsenic	8.9		3.3	0.28	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Barium	120	B	1.6	0.23	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Beryllium	0.51		0.33	0.11	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Cadmium	0.81		0.41	0.040	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Chromium	55		1.6	0.17	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Cobalt	15		0.65	0.065	mg/Kg		01/23/19 16:28	01/25/19 21:39	4
Copper	48		4.9	2.3	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Lead	63	B	1.6	0.34	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Molybdenum	ND		1.6	0.21	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Nickel	34		1.6	0.17	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Selenium	1.6	J	3.3	0.49	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Silver	ND		0.81	0.16	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Thallium	ND	^	1.6	0.47	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Vanadium	53		1.6	0.22	mg/Kg		01/23/19 16:28	01/24/19 23:05	4
Zinc	140		4.9	2.1	mg/Kg		01/23/19 16:28	01/24/19 23:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 21:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.2		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AY9S-3.5-4

Date Collected: 01/21/19 09:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J B	1.1	0.18	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Arsenic	6.5		2.2	0.18	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Barium	110	B	1.1	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Beryllium	0.62		0.22	0.070	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Cadmium	0.26	J	0.27	0.027	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Chromium	58		1.1	0.11	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Cobalt	12		0.43	0.043	mg/Kg		01/23/19 16:28	01/25/19 21:54	4
Copper	19		3.2	1.5	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Lead	10	B	1.1	0.23	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Nickel	30		1.1	0.11	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Selenium	0.73	J	2.2	0.32	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Silver	ND		0.54	0.11	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Thallium	ND	^	1.1	0.31	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Vanadium	53		1.1	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:19	4
Zinc	42	^	3.2	1.4	mg/Kg		01/23/19 16:28	01/25/19 21:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.016	0.0024	mg/Kg		01/24/19 09:31	01/24/19 21:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AZ10S-0.5-1

Date Collected: 01/21/19 09:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J B	1.5	0.24	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Arsenic	5.8		2.9	0.25	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Barium	140	B	1.5	0.21	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Beryllium	0.60		0.29	0.096	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Cadmium	0.27	J	0.37	0.036	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Chromium	38		1.5	0.16	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Cobalt	12		0.59	0.059	mg/Kg		01/23/19 16:28	01/25/19 21:58	4
Copper	16		4.4	2.1	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Lead	6.4	B	1.5	0.31	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Molybdenum	ND		1.5	0.19	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Nickel	29		1.5	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Selenium	0.48	J	2.9	0.44	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Silver	ND		0.74	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Thallium	ND	^	1.5	0.43	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Vanadium	46		1.5	0.20	mg/Kg		01/23/19 16:28	01/24/19 23:24	4
Zinc	35	^	4.4	1.9	mg/Kg		01/23/19 16:28	01/25/19 21:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.016	0.0024	mg/Kg		01/24/19 09:31	01/24/19 21:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.1		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AZ10S-3.5-4

Date Collected: 01/21/19 09:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J B	1.8	0.30	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Arsenic	7.8		3.6	0.30	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Barium	99	B	1.8	0.25	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Beryllium	0.51		0.36	0.12	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Cadmium	0.28	J	0.45	0.044	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Chromium	44		1.8	0.19	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Cobalt	7.3		0.71	0.071	mg/Kg		01/23/19 16:28	01/25/19 22:03	4
Copper	21		5.4	2.5	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Lead	8.1	B	1.8	0.38	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Nickel	27		1.8	0.18	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Selenium	1.6	J	3.6	0.54	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Silver	ND		0.89	0.18	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Thallium	ND	^	1.8	0.52	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Vanadium	51		1.8	0.24	mg/Kg		01/23/19 16:28	01/24/19 23:29	4
Zinc	42	^	5.4	2.3	mg/Kg		01/23/19 16:28	01/25/19 22:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.016	0.0023	mg/Kg		01/24/19 09:31	01/24/19 21:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AX10S-0.5-1

Date Collected: 01/21/19 09:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J B	1.1	0.18	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Arsenic	5.2		2.2	0.18	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Barium	110	B	1.1	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Beryllium	0.49		0.22	0.070	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Cadmium	0.40		0.27	0.027	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Chromium	53		1.1	0.11	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Cobalt	12		0.43	0.043	mg/Kg		01/23/19 16:28	01/25/19 22:08	4
Copper	32		3.2	1.5	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Lead	11	B	1.1	0.23	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Molybdenum	0.32	J	1.1	0.14	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Nickel	47		1.1	0.11	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Selenium	ND		2.2	0.32	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Silver	ND		0.54	0.11	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Thallium	ND	^	1.1	0.31	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Vanadium	59		1.1	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:34	4
Zinc	60	^	3.2	1.4	mg/Kg		01/23/19 16:28	01/25/19 22:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 21:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.5		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AX10S-3.5-4

Date Collected: 01/21/19 09:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.83	J B	1.7	0.29	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Arsenic	10		3.4	0.29	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Barium	72	B	1.7	0.24	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Beryllium	0.75		0.34	0.11	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Cadmium	0.35	J	0.43	0.043	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Chromium	48		1.7	0.18	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Cobalt	7.2		0.69	0.069	mg/Kg		01/23/19 16:28	01/25/19 22:13	4
Copper	58		5.2	2.5	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Lead	17	B	1.7	0.36	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Nickel	35		1.7	0.18	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Selenium	ND		3.4	0.52	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Silver	ND		0.86	0.17	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Thallium	ND	^	1.7	0.50	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Vanadium	56		1.7	0.23	mg/Kg		01/23/19 16:28	01/24/19 23:39	4
Zinc	64	^	5.2	2.2	mg/Kg		01/23/19 16:28	01/25/19 22:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 21:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.1		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AW10S-0.5-1

Date Collected: 01/21/19 10:05
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J B	1.7	0.28	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Arsenic	6.8		3.4	0.29	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Barium	59	B	1.7	0.24	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Beryllium	0.80		0.34	0.11	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Cadmium	0.46		0.42	0.042	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Chromium	67		1.7	0.18	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Cobalt	15		0.67	0.067	mg/Kg		01/23/19 16:28	01/25/19 22:17	4
Copper	27		5.0	2.4	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Lead	18	B	1.7	0.35	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Nickel	61		1.7	0.17	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Selenium	1.1	J	3.4	0.50	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Silver	ND		0.84	0.17	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Thallium	ND	^	1.7	0.49	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Vanadium	61		1.7	0.23	mg/Kg		01/23/19 16:28	01/24/19 23:43	4
Zinc	77	^	5.0	2.1	mg/Kg		01/23/19 16:28	01/25/19 22:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068		0.016	0.0024	mg/Kg		01/24/19 09:31	01/24/19 21:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.6		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AW10S-3.5-4

Date Collected: 01/21/19 10:05
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Arsenic	**2.4**	**J**	3.1	0.27	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Barium	**27**	**B**	1.6	0.22	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Beryllium	ND		0.31	0.10	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Cadmium	**0.13**	**J**	0.39	0.039	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Chromium	**38**		1.6	0.17	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Cobalt	**3.7**		0.63	0.063	mg/Kg		01/23/19 16:28	01/25/19 22:22	4
Copper	**17**		4.7	2.2	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Lead	**9.6**	**B**	1.6	0.33	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Nickel	**19**		1.6	0.16	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Selenium	**0.77**	**J**	3.1	0.47	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Silver	ND		0.79	0.16	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Thallium	ND	^	1.6	0.46	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Vanadium	**22**		1.6	0.21	mg/Kg		01/23/19 16:28	01/24/19 23:48	4
Zinc	**33**	**^**	4.7	2.0	mg/Kg		01/23/19 16:28	01/25/19 22:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.015	0.0023	mg/Kg		01/24/19 09:31	01/24/19 21:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.0**		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AV10S-0.5-1

Date Collected: 01/21/19 10:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6	B	1.2	0.20	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Arsenic	9.0		2.4	0.21	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Barium	150	B	1.2	0.17	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Beryllium	0.46		0.24	0.079	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Cadmium	0.98		0.30	0.030	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Chromium	250		1.2	0.13	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Cobalt	11		0.49	0.049	mg/Kg		01/23/19 16:28	01/25/19 22:27	4
Copper	110		3.7	1.7	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Lead	140	B	1.2	0.26	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Molybdenum	0.32	J	1.2	0.16	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Nickel	52		1.2	0.12	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Selenium	1.4	J	2.4	0.37	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Silver	ND		0.61	0.12	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Thallium	ND	^	1.2	0.35	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Vanadium	47		1.2	0.17	mg/Kg		01/23/19 16:28	01/24/19 23:53	4
Zinc	400	^	3.7	1.5	mg/Kg		01/23/19 16:28	01/25/19 22:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AV10S-3.5-4

Date Collected: 01/21/19 10:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.96	J B	1.2	0.19	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Arsenic	6.1		2.3	0.20	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Barium	55	B	1.2	0.17	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Beryllium	0.48		0.23	0.076	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Cadmium	0.47		0.29	0.029	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Chromium	37		1.2	0.12	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Cobalt	12		0.47	0.047	mg/Kg		01/23/19 16:28	01/25/19 22:32	4
Copper	52		3.5	1.7	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Lead	41	B	1.2	0.24	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Molybdenum	ND		1.2	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Nickel	33		1.2	0.12	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Selenium	0.71	J	2.3	0.35	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Silver	ND		0.58	0.12	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Thallium	ND	^	1.2	0.34	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Vanadium	34		1.2	0.16	mg/Kg		01/23/19 16:28	01/24/19 23:58	4
Zinc	190	^	3.5	1.5	mg/Kg		01/23/19 16:28	01/25/19 22:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.014	0.0021	mg/Kg		01/24/19 09:31	01/24/19 21:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.9		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AV10S-14.5-15

Date Collected: 01/21/19 10:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	48	B	2.9	0.49	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Arsenic	20		5.9	0.50	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Barium	1600	B	2.9	0.42	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Beryllium	0.81		0.59	0.19	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Cadmium	66		0.74	0.073	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Chromium	970		2.9	0.31	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Cobalt	13		1.2	0.12	mg/Kg		01/23/19 16:28	01/25/19 22:37	10
Copper	5100		8.8	4.2	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Lead	7200	B	2.9	0.62	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Molybdenum	1.9	J	2.9	0.38	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Nickel	3400		2.9	0.30	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Selenium	2.4	J	5.9	0.88	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Silver	11		1.5	0.30	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Thallium	ND		2.9	0.85	mg/Kg		01/23/19 16:28	01/25/19 22:37	10
Vanadium	31		2.9	0.40	mg/Kg		01/23/19 16:28	01/25/19 00:03	10
Zinc	7300		18	7.5	mg/Kg		01/23/19 16:28	01/28/19 15:18	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13		0.31	0.045	mg/Kg		01/24/19 09:31	01/25/19 09:40	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.6		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AT11S-3.5-4

Date Collected: 01/21/19 11:45
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.0	B	3.8	0.63	mg/Kg		01/23/19 16:28	01/25/19 21:19	10
Arsenic	8.7		3.0	0.26	mg/Kg		01/23/19 16:28	01/24/19 22:46	4
Barium	230	B	1.5	0.22	mg/Kg		01/23/19 16:28	01/24/19 22:46	4
Beryllium	0.16	J	0.30	0.098	mg/Kg		01/23/19 16:28	01/24/19 22:46	4
Cadmium	1.6		0.38	0.038	mg/Kg		01/23/19 16:28	01/24/19 22:46	4
Chromium	33		1.5	0.16	mg/Kg		01/23/19 16:28	01/24/19 22:46	4
Cobalt	5.8		1.5	0.15	mg/Kg		01/23/19 16:28	01/25/19 21:19	10
Copper	240		11	5.4	mg/Kg		01/23/19 16:28	01/25/19 21:19	10
Lead	210	B	3.8	0.80	mg/Kg		01/23/19 16:28	01/25/19 21:19	10
Molybdenum	0.79	J	1.5	0.19	mg/Kg		01/23/19 16:28	01/24/19 22:46	4
Nickel	58		3.8	0.39	mg/Kg		01/23/19 16:28	01/25/19 21:19	10
Selenium	ND		7.6	1.1	mg/Kg		01/23/19 16:28	01/25/19 21:19	10
Silver	0.40	J	0.76	0.15	mg/Kg		01/23/19 16:28	01/24/19 22:46	4
Thallium	ND		3.8	1.1	mg/Kg		01/23/19 16:28	01/25/19 21:19	10
Vanadium	3.9		1.5	0.21	mg/Kg		01/23/19 16:28	01/24/19 22:46	4
Zinc	970		4.5	1.9	mg/Kg		01/23/19 16:28	01/24/19 22:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 21:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.6		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AX11S-0.5-1

Date Collected: 01/21/19 12:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.9	B F1	1.5	0.24	mg/Kg		01/23/19 16:28	01/25/19 21:34	4
Arsenic	5.1		2.9	0.25	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Barium	100	B F1	1.5	0.21	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Beryllium	0.54		0.29	0.095	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Cadmium	0.49		0.36	0.036	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Chromium	440		1.5	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Cobalt	13		0.58	0.058	mg/Kg		01/23/19 16:28	01/25/19 21:34	4
Copper	54		4.4	2.1	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Lead	88	B F1 F2	1.5	0.31	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Molybdenum	ND		1.5	0.19	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Nickel	35		1.5	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Selenium	0.93	J	2.9	0.44	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Silver	ND		0.73	0.15	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Thallium	ND	^	1.5	0.42	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Vanadium	49		1.5	0.20	mg/Kg		01/23/19 16:28	01/24/19 23:00	4
Zinc	230		4.4	1.9	mg/Kg		01/23/19 16:28	01/24/19 23:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.015	0.0022	mg/Kg		01/24/19 09:31	01/24/19 21:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.8		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AX11S-3.5-4

Date Collected: 01/21/19 12:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	1.8	0.30	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Arsenic	6.7		3.6	0.31	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Barium	78	B	1.8	0.26	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Beryllium	0.92		0.36	0.12	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Cadmium	0.27	J	0.45	0.045	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Chromium	30	B	1.8	0.19	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Cobalt	11		0.72	0.072	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Copper	20		5.4	2.6	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Lead	13	B	1.8	0.38	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Molybdenum	0.31	J	1.8	0.23	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Nickel	24		1.8	0.18	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Selenium	2.3	J	3.6	0.54	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Silver	ND		0.90	0.18	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Thallium	ND		1.8	0.52	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Vanadium	41		1.8	0.25	mg/Kg		01/24/19 09:37	01/29/19 18:41	4
Zinc	46		5.4	2.3	mg/Kg		01/24/19 09:37	01/29/19 18:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042	B	0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.6		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AS12S-0.5-1

Date Collected: 01/21/19 13:45
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.3		1.5	0.25	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Arsenic	6.6		3.0	0.25	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Barium	210	B	1.5	0.21	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Beryllium	0.49		0.30	0.097	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Cadmium	0.87		0.37	0.037	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Chromium	200	B	1.5	0.16	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Cobalt	10		0.60	0.060	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Copper	170		4.5	2.1	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Lead	470	B	1.5	0.31	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Molybdenum	0.24	J	1.5	0.19	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Nickel	36		1.5	0.15	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Selenium	1.2	J	3.0	0.45	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Silver	1.1		0.75	0.15	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Thallium	ND		1.5	0.43	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Vanadium	46		1.5	0.20	mg/Kg		01/24/19 09:37	01/29/19 18:46	4
Zinc	590		4.5	1.9	mg/Kg		01/24/19 09:37	01/29/19 18:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.69	B	0.016	0.0023	mg/Kg		01/29/19 12:33	01/29/19 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.05	%			01/22/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AS12S-3.5-4
Date Collected: 01/21/19 13:45
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-16
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.3		1.7	0.29	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Arsenic	8.0		3.4	0.29	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Barium	140	B	1.7	0.24	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Beryllium	0.46		0.34	0.11	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Cadmium	0.65		0.43	0.043	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Chromium	240	B	1.7	0.18	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Cobalt	12		0.69	0.069	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Copper	100		5.2	2.5	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Lead	360	B	1.7	0.36	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Nickel	35		1.7	0.18	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Selenium	0.69	J	3.4	0.52	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Silver	0.54	J	0.86	0.17	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Thallium	ND		1.7	0.50	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Vanadium	38		1.7	0.23	mg/Kg		01/24/19 09:37	01/29/19 18:50	4
Zinc	410		5.2	2.2	mg/Kg		01/24/19 09:37	01/29/19 18:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8	B	0.059	0.0087	mg/Kg		01/29/19 12:33	01/29/19 18:10	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.7		0.1	0.05	%			01/22/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AR12S-0.5-1
Date Collected: 01/21/19 14:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-17
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.89	J	1.1	0.18	mg/Kg		01/24/19 09:37	01/31/19 11:44	4
Arsenic	6.1		2.2	0.18	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Barium	110	B	1.1	0.15	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Beryllium	0.60		0.22	0.070	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Cadmium	0.14	J	0.27	0.027	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Chromium	63	B	1.1	0.11	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Cobalt	11		0.43	0.043	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Copper	26		3.2	1.5	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Lead	23	B	1.1	0.23	mg/Kg		01/24/19 09:37	01/31/19 11:44	4
Molybdenum	0.19	J	1.1	0.14	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Nickel	26		1.1	0.11	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Selenium	0.65	J	2.2	0.32	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Silver	0.19	J	0.54	0.11	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Thallium	ND		1.1	0.31	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Vanadium	51		1.1	0.15	mg/Kg		01/24/19 09:37	01/29/19 19:05	4
Zinc	50		3.2	1.4	mg/Kg		01/24/19 09:37	01/29/19 19:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088	B	0.016	0.0023	mg/Kg		01/29/19 12:33	01/29/19 17:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AR12S-3.5-4

Date Collected: 01/21/19 14:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	40		4.0	0.67	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Arsenic	20		8.1	0.69	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Barium	920	B	1.6	0.23	mg/Kg		01/24/19 09:37	01/29/19 19:10	4
Beryllium	0.20	J	0.32	0.10	mg/Kg		01/24/19 09:37	01/29/19 19:10	4
Cadmium	26		1.0	0.10	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Chromium	2000	B	4.0	0.43	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Cobalt	11		1.6	0.16	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Copper	1600		12	5.7	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Lead	5200	B	4.0	0.85	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Molybdenum	0.94	J	1.6	0.21	mg/Kg		01/24/19 09:37	01/29/19 19:10	4
Nickel	58		4.0	0.41	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Selenium	8.1		8.1	1.2	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Silver	9.8		2.0	0.41	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Thallium	ND		4.0	1.2	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Vanadium	36		4.0	0.55	mg/Kg		01/24/19 09:37	01/31/19 11:48	10
Zinc	3800		12	5.1	mg/Kg		01/24/19 09:37	01/31/19 11:48	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	22	B	0.66	0.097	mg/Kg		01/29/19 12:33	01/29/19 18:35	40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.7		0.1	0.05	%			01/22/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AQ12S-0.5-1
Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-19
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3		1.1	0.18	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Arsenic	2.3		2.2	0.19	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Barium	350	B	1.1	0.16	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Beryllium	0.63		0.22	0.072	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Cadmium	0.28		0.28	0.028	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Chromium	44	B	1.1	0.12	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Cobalt	19		0.44	0.044	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Copper	75		3.3	1.6	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Lead	6.7	B	1.1	0.23	mg/Kg		01/24/19 09:37	01/31/19 11:53	4
Molybdenum	0.99	J	1.1	0.14	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Nickel	46		1.1	0.11	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Selenium	0.89	J	2.2	0.33	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Silver	0.26	J	0.56	0.11	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Thallium	ND		1.1	0.32	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Vanadium	100		1.1	0.15	mg/Kg		01/24/19 09:37	01/29/19 19:14	4
Zinc	75		3.3	1.4	mg/Kg		01/24/19 09:37	01/29/19 19:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.54	B	0.015	0.0023	mg/Kg		01/29/19 12:33	01/29/19 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.05	%			01/22/19 13:53	1

Client Sample ID: DG-AQ12S-3.5-4

Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.4	0.24	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Arsenic	8.3		2.9	0.25	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Barium	130	B	1.4	0.21	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Beryllium	0.48		0.29	0.094	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Cadmium	0.13	J	0.36	0.036	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Chromium	56	B	1.4	0.15	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Cobalt	19		0.58	0.058	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Copper	45		4.3	2.1	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Lead	21	B ^	1.4	0.30	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Molybdenum	0.23	J	1.4	0.19	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Nickel	34		1.4	0.15	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Selenium	ND		2.9	0.43	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Silver	ND		0.72	0.15	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Thallium	ND		1.4	0.42	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Vanadium	56		1.4	0.20	mg/Kg		01/24/19 09:37	01/29/19 19:19	4
Zinc	47		4.3	1.8	mg/Kg		01/24/19 09:37	01/29/19 19:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052	B	0.015	0.0022	mg/Kg		01/29/19 12:33	01/29/19 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.5		0.1	0.05	%			01/22/19 14:34	1

Client Sample ID: DG-AQ13S-0.5-1

Date Collected: 01/21/19 14:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.4	0.24	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Arsenic	4.1		2.9	0.24	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Barium	520	B	1.4	0.20	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Beryllium	0.75		0.29	0.094	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Cadmium	0.37		0.36	0.036	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Chromium	43	B	1.4	0.15	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Cobalt	29		0.58	0.058	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Copper	91		4.3	2.0	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Lead	9.6	B	1.4	0.30	mg/Kg		01/24/19 09:37	01/31/19 11:58	4
Molybdenum	1.8		1.4	0.18	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Nickel	63		1.4	0.15	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Selenium	1.6	J	2.9	0.43	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Silver	0.64	J	0.72	0.15	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Thallium	ND		1.4	0.42	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Vanadium	110		1.4	0.20	mg/Kg		01/24/19 09:37	01/29/19 19:24	4
Zinc	89		4.3	1.8	mg/Kg		01/24/19 09:37	01/29/19 19:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49	B	0.015	0.0022	mg/Kg		01/29/19 12:33	01/29/19 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.0		0.1	0.05	%			01/22/19 14:34	1

Client Sample ID: DG-AQ13S-3.5-4

Date Collected: 01/21/19 14:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.99	J	1.7	0.29	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Arsenic	4.2		3.5	0.30	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Barium	96	B	1.7	0.25	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Beryllium	0.34	J	0.35	0.11	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Cadmium	0.10	J	0.43	0.043	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Chromium	42	B	1.7	0.18	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Cobalt	9.8		0.70	0.070	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Copper	20		5.2	2.5	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Lead	12	B	1.7	0.37	mg/Kg		01/24/19 09:37	02/04/19 11:35	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Nickel	29		1.7	0.18	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Selenium	ND		3.5	0.52	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Silver	ND		0.87	0.18	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Thallium	ND		1.7	0.50	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Vanadium	45		1.7	0.24	mg/Kg		01/24/19 09:37	01/29/19 19:29	4
Zinc	43		5.2	2.2	mg/Kg		01/24/19 09:37	01/29/19 19:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.85	B	0.014	0.0021	mg/Kg		01/29/19 12:33	01/29/19 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		0.1	0.05	%			01/22/19 14:34	1

Client Sample ID: DG-AQ13S-11.5-12

Date Collected: 01/21/19 14:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	59		6.4	1.1	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Arsenic	24		13	1.1	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Barium	1500	B	1.3	0.18	mg/Kg		01/24/19 09:37	01/29/19 19:33	4
Beryllium	0.56	J	1.3	0.42	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Cadmium	6.1		1.6	0.16	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Chromium	81	B	6.4	0.68	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Cobalt	24		2.6	0.26	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Copper	1400		19	9.1	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Lead	9200	B	6.4	1.3	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Molybdenum	0.27	J	1.3	0.16	mg/Kg		01/24/19 09:37	01/29/19 19:33	4
Nickel	82		6.4	0.65	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Selenium	3.1	J	13	1.9	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Silver	7.0		3.2	0.65	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Thallium	ND		6.4	1.9	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Vanadium	36		6.4	0.87	mg/Kg		01/24/19 09:37	01/31/19 12:02	20
Zinc	4900		19	8.1	mg/Kg		01/24/19 09:37	01/31/19 12:02	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8	B	0.063	0.0092	mg/Kg		01/29/19 12:33	01/29/19 18:17	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.0		0.1	0.05	%			01/22/19 14:34	1

Client Sample ID: DG-AO14S-0.5-1

Date Collected: 01/21/19 15:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.6	0.27	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Arsenic	7.2		3.3	0.28	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Barium	87	B	1.6	0.23	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Beryllium	0.69		0.33	0.11	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Cadmium	0.19	J	0.41	0.041	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Chromium	29	B	1.6	0.17	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Cobalt	11		0.66	0.066	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Copper	34		4.9	2.3	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Lead	40	B ^	1.6	0.34	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Molybdenum	0.21	J	1.6	0.21	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Nickel	27		1.6	0.17	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Selenium	ND		3.3	0.49	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Silver	ND		0.82	0.17	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Thallium	ND		1.6	0.48	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Vanadium	38		1.6	0.22	mg/Kg		01/24/19 09:37	01/29/19 19:38	4
Zinc	62		4.9	2.1	mg/Kg		01/24/19 09:37	01/29/19 19:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	B	0.016	0.0024	mg/Kg		01/29/19 12:33	01/29/19 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.05	%			01/22/19 14:34	1

Client Sample ID: DUP-79

Date Collected: 01/21/19 00:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.7		4.1	0.67	mg/Kg		01/24/19 09:37	01/31/19 12:07	10
Arsenic	2.8	J	3.3	0.28	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Barium	190	B	1.6	0.23	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Beryllium	ND		0.33	0.11	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Cadmium	0.74		0.41	0.040	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Chromium	12	B	1.6	0.17	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Cobalt	3.4		0.65	0.065	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Copper	980		12	5.8	mg/Kg		01/24/19 09:37	01/31/19 12:07	10
Lead	160	B	4.1	0.85	mg/Kg		01/24/19 09:37	01/31/19 12:07	10
Molybdenum	0.86	J	1.6	0.21	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Nickel	49		4.1	0.41	mg/Kg		01/24/19 09:37	01/31/19 12:07	10
Selenium	ND		8.1	1.2	mg/Kg		01/24/19 09:37	01/31/19 12:07	10
Silver	ND		0.81	0.16	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Thallium	ND		1.6	0.47	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Vanadium	3.9		1.6	0.22	mg/Kg		01/24/19 09:37	01/29/19 19:43	4
Zinc	1200		24	10	mg/Kg		01/24/19 09:37	01/31/19 14:56	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057	B	0.016	0.0024	mg/Kg		01/29/19 12:33	01/29/19 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.9		0.1	0.05	%			01/22/19 14:34	1

Client Sample ID: DG-AN14S-0.5-1

Date Collected: 01/21/19 15:45
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.94	J	1.8	0.30	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Arsenic	1.7	J	3.6	0.31	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Barium	140	B	1.8	0.26	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Beryllium	ND		0.36	0.12	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Cadmium	0.14	J	0.45	0.045	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Chromium	29	B	1.8	0.19	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Cobalt	5.3		0.73	0.073	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Copper	24		5.5	2.6	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Lead	49	B ^	1.8	0.38	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Molybdenum	0.41	J	1.8	0.23	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Nickel	24		1.8	0.19	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Selenium	ND		3.6	0.55	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Silver	ND		0.91	0.18	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Thallium	ND		1.8	0.53	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Vanadium	29		1.8	0.25	mg/Kg		01/24/19 09:37	01/29/19 19:48	4
Zinc	86		5.5	2.3	mg/Kg		01/24/19 09:37	01/29/19 19:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034	B	0.015	0.0022	mg/Kg		01/29/19 12:33	01/29/19 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.1	0.05	%			01/22/19 14:34	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-258633/1-A
Matrix: Solid
Analysis Batch: 259173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.114	J	0.50	0.083	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Arsenic	ND		1.0	0.085	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Barium	0.0970	J	0.50	0.071	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Beryllium	ND		0.10	0.033	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Cadmium	ND		0.13	0.012	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Chromium	ND		0.50	0.053	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Cobalt	ND		0.20	0.020	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Copper	ND		1.5	0.71	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Lead	0.114	J	0.50	0.11	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Nickel	ND		0.50	0.051	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Selenium	ND		1.0	0.15	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Silver	ND		0.25	0.051	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Thallium	ND		0.50	0.15	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Vanadium	ND		0.50	0.068	mg/Kg		01/23/19 16:28	01/24/19 14:14	1
Zinc	ND		1.5	0.64	mg/Kg		01/23/19 16:28	01/24/19 14:14	1

Lab Sample ID: LCS 720-258633/2-A
Matrix: Solid
Analysis Batch: 259173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.1		mg/Kg		94	80 - 120
Arsenic	50.0	48.4		mg/Kg		97	80 - 120
Barium	50.0	47.9		mg/Kg		96	80 - 120
Beryllium	50.0	47.6		mg/Kg		95	80 - 120
Cadmium	50.0	45.8		mg/Kg		92	80 - 120
Chromium	50.0	48.9		mg/Kg		98	80 - 120
Cobalt	50.0	48.1		mg/Kg		96	80 - 120
Copper	50.0	50.1		mg/Kg		100	80 - 120
Lead	50.0	49.7		mg/Kg		99	80 - 120
Molybdenum	50.0	48.9		mg/Kg		98	80 - 120
Nickel	50.0	49.5		mg/Kg		99	80 - 120
Selenium	50.0	48.6		mg/Kg		97	80 - 120
Silver	25.0	24.9		mg/Kg		100	80 - 120
Thallium	50.0	50.8		mg/Kg		102	80 - 120
Vanadium	50.0	49.3		mg/Kg		99	80 - 120
Zinc	50.0	48.4		mg/Kg		97	80 - 120

Lab Sample ID: 720-90946-13 MS
Matrix: Solid
Analysis Batch: 259206

Client Sample ID: DG-AX11S-0.5-1
Prep Type: Total/NA
Prep Batch: 258633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.6	B F1	36.0	14.5	F1	mg/Kg		36	75 - 125
Arsenic	5.1		36.0	44.5		mg/Kg		110	75 - 125
Barium	100	B F1	36.0	137		mg/Kg		103	75 - 125
Beryllium	0.54		36.0	35.4		mg/Kg		97	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90946-13 MS
Matrix: Solid
Analysis Batch: 259206

Client Sample ID: DG-AX11S-0.5-1
Prep Type: Total/NA
Prep Batch: 258633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.49		36.0	37.1		mg/Kg		102	75 - 125
Chromium	440		36.0	434	4	mg/Kg		-5	75 - 125
Copper	54		36.0	96.4		mg/Kg		118	75 - 125
Lead	88	B F1 F2	36.0	121		mg/Kg		90	75 - 125
Molybdenum	ND		36.0	35.1		mg/Kg		98	75 - 125
Nickel	35		36.0	70.9		mg/Kg		100	75 - 125
Selenium	0.93	J	36.0	36.9		mg/Kg		100	75 - 125
Silver	ND		18.0	18.4		mg/Kg		102	75 - 125
Vanadium	49		36.0	87.0		mg/Kg		107	75 - 125
Zinc	230		36.0	249	4	mg/Kg		53	75 - 125

Lab Sample ID: 720-90946-13 MS
Matrix: Solid
Analysis Batch: 259312

Client Sample ID: DG-AX11S-0.5-1
Prep Type: Total/NA
Prep Batch: 258633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	13		36.0	47.1		mg/Kg		96	75 - 125
Thallium	0.59	J	36.0	30.3		mg/Kg		83	75 - 125

Lab Sample ID: 720-90946-13 MSD
Matrix: Solid
Analysis Batch: 259206

Client Sample ID: DG-AX11S-0.5-1
Prep Type: Total/NA
Prep Batch: 258633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.6	B F1	36.0	14.6	F1	mg/Kg		36	75 - 125	1	20
Arsenic	5.1		36.0	45.0		mg/Kg		111	75 - 125	1	20
Barium	100	B F1	36.0	151	F1	mg/Kg		140	75 - 125	9	20
Beryllium	0.54		36.0	37.4		mg/Kg		102	75 - 125	5	20
Cadmium	0.49		36.0	40.0		mg/Kg		110	75 - 125	8	20
Chromium	440		36.0	526	4	mg/Kg		250	75 - 125	19	20
Cobalt	14	^	36.0	55.6	^	mg/Kg		115	75 - 125	9	20
Copper	54		36.0	97.1		mg/Kg		120	75 - 125	1	20
Lead	88	B F1 F2	36.0	153	F1 F2	mg/Kg		179	75 - 125	23	20
Molybdenum	ND		36.0	38.2		mg/Kg		106	75 - 125	8	20
Nickel	35		36.0	76.7		mg/Kg		116	75 - 125	8	20
Selenium	0.93	J	36.0	37.8		mg/Kg		102	75 - 125	2	20
Silver	ND		18.0	19.5		mg/Kg		108	75 - 125	6	20
Thallium	ND	^	36.0	35.7	^	mg/Kg		99	75 - 125	9	20
Vanadium	49		36.0	91.2		mg/Kg		119	75 - 125	5	20
Zinc	230		36.0	291	4	mg/Kg		168	75 - 125	15	20

Lab Sample ID: MB 720-259050/1-A
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Arsenic	ND		1.0	0.085	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Barium	0.154	J	0.50	0.071	mg/Kg		01/24/19 09:37	01/29/19 18:08	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259050/1-A
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.10	0.033	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Cadmium	ND		0.13	0.012	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Chromium	0.115	J	0.50	0.053	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Cobalt	ND		0.20	0.020	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Copper	ND		1.5	0.71	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Lead	0.298	J	0.50	0.11	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Nickel	ND		0.50	0.051	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Selenium	ND		1.0	0.15	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Silver	ND		0.25	0.051	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Thallium	ND		0.50	0.15	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Vanadium	ND		0.50	0.068	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Zinc	ND		1.5	0.64	mg/Kg		01/24/19 09:37	01/29/19 18:08	1

Lab Sample ID: LCS 720-259050/2-A
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.5		mg/Kg		97	80 - 120
Arsenic	50.0	48.5		mg/Kg		97	80 - 120
Barium	50.0	48.4		mg/Kg		97	80 - 120
Beryllium	50.0	48.4		mg/Kg		97	80 - 120
Cadmium	50.0	49.2		mg/Kg		98	80 - 120
Chromium	50.0	49.5		mg/Kg		99	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	50.0	49.7		mg/Kg		99	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Molybdenum	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	49.6		mg/Kg		99	80 - 120
Selenium	50.0	48.1		mg/Kg		96	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	49.3		mg/Kg		99	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: 720-90948-D-7-C MSD
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.2	F1 F2	45.0	11.1	F1 F2	mg/Kg		18	75 - 125	57	20
Arsenic	15	F1	45.0	59.0		mg/Kg		99	75 - 125	19	20
Barium	250	B F2	45.0	305	4 F2	mg/Kg		131	75 - 125	22	20
Beryllium	0.19	J	45.0	43.7		mg/Kg		97	75 - 125	2	20
Cadmium	0.80		45.0	44.0		mg/Kg		96	75 - 125	2	20
Chromium	18	B	45.0	60.5		mg/Kg		94	75 - 125	7	20
Cobalt	7.1		45.0	51.2		mg/Kg		98	75 - 125	1	20
Copper	160	F1	45.0	228	F1	mg/Kg		156	75 - 125	19	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90948-D-7-C MSD
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	540	B	45.0	899	4	mg/Kg		798	75 - 125	17	20
Molybdenum	0.64	J	45.0	41.8		mg/Kg		91	75 - 125	1	20
Nickel	20		45.0	65.3		mg/Kg		101	75 - 125	6	20
Selenium	1.1	J	45.0	43.3		mg/Kg		94	75 - 125	2	20
Silver	1.1		22.5	23.4		mg/Kg		99	75 - 125	0	20
Thallium	ND		45.0	40.3		mg/Kg		89	75 - 125	4	20
Vanadium	60	F1	45.0	117	F1	mg/Kg		127	75 - 125	14	20
Zinc	400		45.0	481	4	mg/Kg		184	75 - 125	1	20

Lab Sample ID: 720-90948-E-7-E MS
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.2	F1 F2	44.2	20.0	F1	mg/Kg		38	75 - 125
Arsenic	15	F1	44.2	71.1	F1	mg/Kg		128	75 - 125
Barium	250	B F2	44.2	245	4	mg/Kg		-2	75 - 125
Beryllium	0.19	J	44.2	43.1		mg/Kg		97	75 - 125
Cadmium	0.80		44.2	43.3		mg/Kg		96	75 - 125
Chromium	18	B	44.2	65.1		mg/Kg		106	75 - 125
Cobalt	7.1		44.2	52.0		mg/Kg		101	75 - 125
Copper	160	F1	44.2	275	F1	mg/Kg		264	75 - 125
Lead	540	B	44.2	755	4	mg/Kg		487	75 - 125
Molybdenum	0.64	J	44.2	41.4		mg/Kg		92	75 - 125
Nickel	20		44.2	69.2		mg/Kg		112	75 - 125
Selenium	1.1	J	44.2	42.5		mg/Kg		93	75 - 125
Silver	1.1		22.1	23.2		mg/Kg		100	75 - 125
Thallium	ND		44.2	38.6		mg/Kg		87	75 - 125
Vanadium	60	F1	44.2	101		mg/Kg		94	75 - 125
Zinc	400		44.2	486	4	mg/Kg		198	75 - 125

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-258634/1-A
Matrix: Solid
Analysis Batch: 259220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/24/19 09:31	01/24/19 20:40	1

Lab Sample ID: LCS 720-258634/2-A
Matrix: Solid
Analysis Batch: 259220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.842		mg/Kg		101	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90946-13 MS
Matrix: Solid
Analysis Batch: 259220

Client Sample ID: DG-AX11S-0.5-1
Prep Type: Total/NA
Prep Batch: 258634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.41		0.758	1.09		mg/Kg		90	75 - 125		

Lab Sample ID: 720-90946-13 MSD
Matrix: Solid
Analysis Batch: 259220

Client Sample ID: DG-AX11S-0.5-1
Prep Type: Total/NA
Prep Batch: 258634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.41		0.781	1.14		mg/Kg		93	75 - 125	4	20

Lab Sample ID: MB 720-259049/1-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0120	J	0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 16:53	1

Lab Sample ID: LCS 720-259049/2-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259049

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.815		mg/Kg		98	80 - 120		

Lab Sample ID: 720-90948-D-7-B MSD
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259049

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.31	B	0.833	1.15		mg/Kg		101	75 - 125	5	20

Lab Sample ID: 720-90948-E-7-C MS
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.31	B	0.820	1.09		mg/Kg		96	75 - 125		

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90946-1 DU
Matrix: Solid
Analysis Batch: 258962

Client Sample ID: DG-AY9S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.2			13.7		%				4	20

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 720-90946-20 DU
Matrix: Solid
Analysis Batch: 258969

Client Sample ID: DG-AQ12S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.5			13.4		%				8	20

Metals

Prep Batch: 258633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-1	DG-AY9S-0.5-1	Total/NA	Solid	3050B	
720-90946-2	DG-AY9S-3.5-4	Total/NA	Solid	3050B	
720-90946-3	DG-AZ10S-0.5-1	Total/NA	Solid	3050B	
720-90946-4	DG-AZ10S-3.5-4	Total/NA	Solid	3050B	
720-90946-5	DG-AX10S-0.5-1	Total/NA	Solid	3050B	
720-90946-6	DG-AX10S-3.5-4	Total/NA	Solid	3050B	
720-90946-7	DG-AW10S-0.5-1	Total/NA	Solid	3050B	
720-90946-8	DG-AW10S-3.5-4	Total/NA	Solid	3050B	
720-90946-9	DG-AV10S-0.5-1	Total/NA	Solid	3050B	
720-90946-10	DG-AV10S-3.5-4	Total/NA	Solid	3050B	
720-90946-11	DG-AV10S-14.5-15	Total/NA	Solid	3050B	
720-90946-12	DG-AT11S-3.5-4	Total/NA	Solid	3050B	
720-90946-13	DG-AX11S-0.5-1	Total/NA	Solid	3050B	
MB 720-258633/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-258633/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90946-13 MS	DG-AX11S-0.5-1	Total/NA	Solid	3050B	
720-90946-13 MSD	DG-AX11S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 258634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-1	DG-AY9S-0.5-1	Total/NA	Solid	7471A	
720-90946-2	DG-AY9S-3.5-4	Total/NA	Solid	7471A	
720-90946-3	DG-AZ10S-0.5-1	Total/NA	Solid	7471A	
720-90946-4	DG-AZ10S-3.5-4	Total/NA	Solid	7471A	
720-90946-5	DG-AX10S-0.5-1	Total/NA	Solid	7471A	
720-90946-6	DG-AX10S-3.5-4	Total/NA	Solid	7471A	
720-90946-7	DG-AW10S-0.5-1	Total/NA	Solid	7471A	
720-90946-8	DG-AW10S-3.5-4	Total/NA	Solid	7471A	
720-90946-9	DG-AV10S-0.5-1	Total/NA	Solid	7471A	
720-90946-10	DG-AV10S-3.5-4	Total/NA	Solid	7471A	
720-90946-11	DG-AV10S-14.5-15	Total/NA	Solid	7471A	
720-90946-12	DG-AT11S-3.5-4	Total/NA	Solid	7471A	
720-90946-13	DG-AX11S-0.5-1	Total/NA	Solid	7471A	
MB 720-258634/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-258634/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90946-13 MS	DG-AX11S-0.5-1	Total/NA	Solid	7471A	
720-90946-13 MSD	DG-AX11S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-14	DG-AX11S-3.5-4	Total/NA	Solid	7471A	
720-90946-15	DG-AS12S-0.5-1	Total/NA	Solid	7471A	
720-90946-16	DG-AS12S-3.5-4	Total/NA	Solid	7471A	
720-90946-17	DG-AR12S-0.5-1	Total/NA	Solid	7471A	
720-90946-18	DG-AR12S-3.5-4	Total/NA	Solid	7471A	
720-90946-19	DG-AQ12S-0.5-1	Total/NA	Solid	7471A	
720-90946-20	DG-AQ12S-3.5-4	Total/NA	Solid	7471A	
720-90946-21	DG-AQ13S-0.5-1	Total/NA	Solid	7471A	
720-90946-22	DG-AQ13S-3.5-4	Total/NA	Solid	7471A	
720-90946-23	DG-AQ13S-11.5-12	Total/NA	Solid	7471A	
720-90946-24	DG-AO14S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259049 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-25	DUP-79	Total/NA	Solid	7471A	
720-90946-26	DG-AN14S-0.5-1	Total/NA	Solid	7471A	
MB 720-259049/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259049/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90948-D-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
720-90948-E-7-C MS	Matrix Spike	Total/NA	Solid	7471A	

Prep Batch: 259050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-14	DG-AX11S-3.5-4	Total/NA	Solid	3050B	
720-90946-15	DG-AS12S-0.5-1	Total/NA	Solid	3050B	
720-90946-16	DG-AS12S-3.5-4	Total/NA	Solid	3050B	
720-90946-17	DG-AR12S-0.5-1	Total/NA	Solid	3050B	
720-90946-18	DG-AR12S-3.5-4	Total/NA	Solid	3050B	
720-90946-19	DG-AQ12S-0.5-1	Total/NA	Solid	3050B	
720-90946-20	DG-AQ12S-3.5-4	Total/NA	Solid	3050B	
720-90946-21	DG-AQ13S-0.5-1	Total/NA	Solid	3050B	
720-90946-22	DG-AQ13S-3.5-4	Total/NA	Solid	3050B	
720-90946-23	DG-AQ13S-11.5-12	Total/NA	Solid	3050B	
720-90946-24	DG-AO14S-0.5-1	Total/NA	Solid	3050B	
720-90946-25	DUP-79	Total/NA	Solid	3050B	
720-90946-26	DG-AN14S-0.5-1	Total/NA	Solid	3050B	
MB 720-259050/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259050/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90948-D-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
720-90948-E-7-E MS	Matrix Spike	Total/NA	Solid	3050B	

Analysis Batch: 259173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258633/1-A	Method Blank	Total/NA	Solid	6010B	258633
LCS 720-258633/2-A	Lab Control Sample	Total/NA	Solid	6010B	258633

Analysis Batch: 259206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-1	DG-AY9S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-2	DG-AY9S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-3	DG-AZ10S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-4	DG-AZ10S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-5	DG-AX10S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-6	DG-AX10S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-7	DG-AW10S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-8	DG-AW10S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-9	DG-AV10S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-10	DG-AV10S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-11	DG-AV10S-14.5-15	Total/NA	Solid	6010B	258633
720-90946-12	DG-AT11S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-13	DG-AX11S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-13 MS	DG-AX11S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-13 MSD	DG-AX11S-0.5-1	Total/NA	Solid	6010B	258633

Metals (Continued)

Analysis Batch: 259220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-1	DG-AY9S-0.5-1	Total/NA	Solid	7471A	258634
720-90946-2	DG-AY9S-3.5-4	Total/NA	Solid	7471A	258634
720-90946-3	DG-AZ10S-0.5-1	Total/NA	Solid	7471A	258634
720-90946-4	DG-AZ10S-3.5-4	Total/NA	Solid	7471A	258634
720-90946-5	DG-AX10S-0.5-1	Total/NA	Solid	7471A	258634
720-90946-6	DG-AX10S-3.5-4	Total/NA	Solid	7471A	258634
720-90946-7	DG-AW10S-0.5-1	Total/NA	Solid	7471A	258634
720-90946-8	DG-AW10S-3.5-4	Total/NA	Solid	7471A	258634
720-90946-9	DG-AV10S-0.5-1	Total/NA	Solid	7471A	258634
720-90946-10	DG-AV10S-3.5-4	Total/NA	Solid	7471A	258634
720-90946-12	DG-AT11S-3.5-4	Total/NA	Solid	7471A	258634
720-90946-13	DG-AX11S-0.5-1	Total/NA	Solid	7471A	258634
MB 720-258634/1-A	Method Blank	Total/NA	Solid	7471A	258634
LCS 720-258634/2-A	Lab Control Sample	Total/NA	Solid	7471A	258634
720-90946-13 MS	DG-AX11S-0.5-1	Total/NA	Solid	7471A	258634
720-90946-13 MSD	DG-AX11S-0.5-1	Total/NA	Solid	7471A	258634

Analysis Batch: 259231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-11	DG-AV10S-14.5-15	Total/NA	Solid	7471A	258634

Analysis Batch: 259312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-1	DG-AY9S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-2	DG-AY9S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-3	DG-AZ10S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-4	DG-AZ10S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-5	DG-AX10S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-6	DG-AX10S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-7	DG-AW10S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-8	DG-AW10S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-9	DG-AV10S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-10	DG-AV10S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-11	DG-AV10S-14.5-15	Total/NA	Solid	6010B	258633
720-90946-12	DG-AT11S-3.5-4	Total/NA	Solid	6010B	258633
720-90946-13	DG-AX11S-0.5-1	Total/NA	Solid	6010B	258633
720-90946-13 MS	DG-AX11S-0.5-1	Total/NA	Solid	6010B	258633

Analysis Batch: 259355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-11	DG-AV10S-14.5-15	Total/NA	Solid	6010B	258633

Analysis Batch: 259443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-14	DG-AX11S-3.5-4	Total/NA	Solid	6010B	259050
720-90946-15	DG-AS12S-0.5-1	Total/NA	Solid	6010B	259050
720-90946-16	DG-AS12S-3.5-4	Total/NA	Solid	6010B	259050
720-90946-17	DG-AR12S-0.5-1	Total/NA	Solid	6010B	259050
720-90946-18	DG-AR12S-3.5-4	Total/NA	Solid	6010B	259050
720-90946-19	DG-AQ12S-0.5-1	Total/NA	Solid	6010B	259050
720-90946-20	DG-AQ12S-3.5-4	Total/NA	Solid	6010B	259050

Metals (Continued)

Analysis Batch: 259443 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-21	DG-AQ13S-0.5-1	Total/NA	Solid	6010B	259050
720-90946-22	DG-AQ13S-3.5-4	Total/NA	Solid	6010B	259050
720-90946-23	DG-AQ13S-11.5-12	Total/NA	Solid	6010B	259050
720-90946-24	DG-AO14S-0.5-1	Total/NA	Solid	6010B	259050
720-90946-25	DUP-79	Total/NA	Solid	6010B	259050
720-90946-26	DG-AN14S-0.5-1	Total/NA	Solid	6010B	259050
MB 720-259050/1-A	Method Blank	Total/NA	Solid	6010B	259050
LCS 720-259050/2-A	Lab Control Sample	Total/NA	Solid	6010B	259050
720-90948-D-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259050
720-90948-E-7-E MS	Matrix Spike	Total/NA	Solid	6010B	259050

Analysis Batch: 259475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-14	DG-AX11S-3.5-4	Total/NA	Solid	7471A	259049
720-90946-15	DG-AS12S-0.5-1	Total/NA	Solid	7471A	259049
720-90946-16	DG-AS12S-3.5-4	Total/NA	Solid	7471A	259049
720-90946-17	DG-AR12S-0.5-1	Total/NA	Solid	7471A	259049
720-90946-18	DG-AR12S-3.5-4	Total/NA	Solid	7471A	259049
720-90946-19	DG-AQ12S-0.5-1	Total/NA	Solid	7471A	259049
720-90946-20	DG-AQ12S-3.5-4	Total/NA	Solid	7471A	259049
720-90946-21	DG-AQ13S-0.5-1	Total/NA	Solid	7471A	259049
720-90946-22	DG-AQ13S-3.5-4	Total/NA	Solid	7471A	259049
720-90946-23	DG-AQ13S-11.5-12	Total/NA	Solid	7471A	259049
720-90946-24	DG-AO14S-0.5-1	Total/NA	Solid	7471A	259049
720-90946-25	DUP-79	Total/NA	Solid	7471A	259049
720-90946-26	DG-AN14S-0.5-1	Total/NA	Solid	7471A	259049
MB 720-259049/1-A	Method Blank	Total/NA	Solid	7471A	259049
LCS 720-259049/2-A	Lab Control Sample	Total/NA	Solid	7471A	259049
720-90948-D-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259049
720-90948-E-7-C MS	Matrix Spike	Total/NA	Solid	7471A	259049

Analysis Batch: 259566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-17	DG-AR12S-0.5-1	Total/NA	Solid	6010B	259050
720-90946-18	DG-AR12S-3.5-4	Total/NA	Solid	6010B	259050
720-90946-19	DG-AQ12S-0.5-1	Total/NA	Solid	6010B	259050
720-90946-21	DG-AQ13S-0.5-1	Total/NA	Solid	6010B	259050
720-90946-23	DG-AQ13S-11.5-12	Total/NA	Solid	6010B	259050
720-90946-25	DUP-79	Total/NA	Solid	6010B	259050

Analysis Batch: 259584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-25	DUP-79	Total/NA	Solid	6010B	259050

Analysis Batch: 259747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-22	DG-AQ13S-3.5-4	Total/NA	Solid	6010B	259050

General Chemistry

Analysis Batch: 258962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-1	DG-AY9S-0.5-1	Total/NA	Solid	Moisture	
720-90946-2	DG-AY9S-3.5-4	Total/NA	Solid	Moisture	
720-90946-3	DG-AZ10S-0.5-1	Total/NA	Solid	Moisture	
720-90946-4	DG-AZ10S-3.5-4	Total/NA	Solid	Moisture	
720-90946-5	DG-AX10S-0.5-1	Total/NA	Solid	Moisture	
720-90946-6	DG-AX10S-3.5-4	Total/NA	Solid	Moisture	
720-90946-7	DG-AW10S-0.5-1	Total/NA	Solid	Moisture	
720-90946-8	DG-AW10S-3.5-4	Total/NA	Solid	Moisture	
720-90946-9	DG-AV10S-0.5-1	Total/NA	Solid	Moisture	
720-90946-10	DG-AV10S-3.5-4	Total/NA	Solid	Moisture	
720-90946-11	DG-AV10S-14.5-15	Total/NA	Solid	Moisture	
720-90946-12	DG-AT11S-3.5-4	Total/NA	Solid	Moisture	
720-90946-13	DG-AX11S-0.5-1	Total/NA	Solid	Moisture	
720-90946-14	DG-AX11S-3.5-4	Total/NA	Solid	Moisture	
720-90946-15	DG-AS12S-0.5-1	Total/NA	Solid	Moisture	
720-90946-16	DG-AS12S-3.5-4	Total/NA	Solid	Moisture	
720-90946-17	DG-AR12S-0.5-1	Total/NA	Solid	Moisture	
720-90946-18	DG-AR12S-3.5-4	Total/NA	Solid	Moisture	
720-90946-19	DG-AQ12S-0.5-1	Total/NA	Solid	Moisture	
720-90946-1 DU	DG-AY9S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 258969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90946-20	DG-AQ12S-3.5-4	Total/NA	Solid	Moisture	
720-90946-21	DG-AQ13S-0.5-1	Total/NA	Solid	Moisture	
720-90946-22	DG-AQ13S-3.5-4	Total/NA	Solid	Moisture	
720-90946-23	DG-AQ13S-11.5-12	Total/NA	Solid	Moisture	
720-90946-24	DG-AO14S-0.5-1	Total/NA	Solid	Moisture	
720-90946-25	DUP-79	Total/NA	Solid	Moisture	
720-90946-26	DG-AN14S-0.5-1	Total/NA	Solid	Moisture	
720-90946-20 DU	DG-AQ12S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-AY9S-0.5-1

Lab Sample ID: 720-90946-1

Date Collected: 01/21/19 09:00

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:05	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 21:39	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AY9S-3.5-4

Lab Sample ID: 720-90946-2

Date Collected: 01/21/19 09:00

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:19	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 21:54	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AZ10S-0.5-1

Lab Sample ID: 720-90946-3

Date Collected: 01/21/19 09:20

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:24	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 21:58	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AZ10S-3.5-4

Lab Sample ID: 720-90946-4

Date Collected: 01/21/19 09:20

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:29	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 22:03	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AX10S-0.5-1

Lab Sample ID: 720-90946-5
Date Collected: 01/21/19 09:40
Matrix: Solid
Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:34	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 22:08	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AX10S-3.5-4

Lab Sample ID: 720-90946-6
Date Collected: 01/21/19 09:40
Matrix: Solid
Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:39	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 22:13	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AW10S-0.5-1

Lab Sample ID: 720-90946-7
Date Collected: 01/21/19 10:05
Matrix: Solid
Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:43	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 22:17	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AW10S-3.5-4

Lab Sample ID: 720-90946-8

Date Collected: 01/21/19 10:05

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:48	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 22:22	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AV10S-0.5-1

Lab Sample ID: 720-90946-9

Date Collected: 01/21/19 10:40

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:53	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 22:27	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AV10S-3.5-4

Lab Sample ID: 720-90946-10

Date Collected: 01/21/19 10:40

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:58	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 22:32	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AV10S-14.5-15

Lab Sample ID: 720-90946-11

Date Collected: 01/21/19 10:40

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		10	259206	01/25/19 00:03	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		10	259312	01/25/19 22:37	OBI	TAL PLS

Client Sample ID: DG-AV10S-14.5-15

Lab Sample ID: 720-90946-11

Date Collected: 01/21/19 10:40

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		20	259355	01/28/19 15:18	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		20	259231	01/25/19 09:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AT11S-3.5-4

Lab Sample ID: 720-90946-12

Date Collected: 01/21/19 11:45

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 22:46	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		10	259312	01/25/19 21:19	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AX11S-0.5-1

Lab Sample ID: 720-90946-13

Date Collected: 01/21/19 12:00

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259206	01/24/19 23:00	BKR	TAL PLS
Total/NA	Prep	3050B			258633	01/23/19 16:28	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259312	01/25/19 21:34	OBI	TAL PLS
Total/NA	Prep	7471A			258634	01/24/19 09:31	MAG	TAL PLS
Total/NA	Analysis	7471A		1	259220	01/24/19 21:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AX11S-3.5-4

Lab Sample ID: 720-90946-14

Date Collected: 01/21/19 12:00

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 18:41	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AS12S-0.5-1

Lab Sample ID: 720-90946-15

Date Collected: 01/21/19 13:45

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 18:46	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AS12S-3.5-4

Lab Sample ID: 720-90946-16

Date Collected: 01/21/19 13:45

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 18:50	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		4	259475	01/29/19 18:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AR12S-0.5-1

Lab Sample ID: 720-90946-17

Date Collected: 01/21/19 14:00

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259566	01/31/19 11:44	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:05	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AR12S-3.5-4

Lab Sample ID: 720-90946-18

Date Collected: 01/21/19 14:00

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		10	259566	01/31/19 11:48	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:10	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		40	259475	01/29/19 18:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AQ12S-0.5-1

Lab Sample ID: 720-90946-19

Date Collected: 01/21/19 14:30

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259566	01/31/19 11:53	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:14	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 18:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258962	01/22/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AQ12S-3.5-4

Lab Sample ID: 720-90946-20

Date Collected: 01/21/19 14:30

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:19	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258969	01/22/19 14:34	TNL	TAL PLS

Client Sample ID: DG-AQ13S-0.5-1

Lab Sample ID: 720-90946-21

Date Collected: 01/21/19 14:50

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259566	01/31/19 11:58	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:24	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258969	01/22/19 14:34	TNL	TAL PLS

Client Sample ID: DG-AQ13S-3.5-4

Lab Sample ID: 720-90946-22

Date Collected: 01/21/19 14:50

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:29	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259747	02/04/19 11:35	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:30	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AQ13S-3.5-4

Lab Sample ID: 720-90946-22

Date Collected: 01/21/19 14:50
Matrix: Solid
Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258969	01/22/19 14:34	TNL	TAL PLS

Client Sample ID: DG-AQ13S-11.5-12

Lab Sample ID: 720-90946-23

Date Collected: 01/21/19 14:50
Matrix: Solid
Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		20	259566	01/31/19 12:02	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:33	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		4	259475	01/29/19 18:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258969	01/22/19 14:34	TNL	TAL PLS

Client Sample ID: DG-AO14S-0.5-1

Lab Sample ID: 720-90946-24

Date Collected: 01/21/19 15:30
Matrix: Solid
Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:38	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 18:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258969	01/22/19 14:34	TNL	TAL PLS

Client Sample ID: DUP-79

Lab Sample ID: 720-90946-25

Date Collected: 01/21/19 00:00
Matrix: Solid
Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		10	259566	01/31/19 12:07	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:43	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		20	259584	01/31/19 14:56	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258969	01/22/19 14:34	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Client Sample ID: DG-AN14S-0.5-1

Date Collected: 01/21/19 15:45
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90946-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 19:48	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	258969	01/22/19 14:34	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90946-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90946-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90946-1	DG-AY9S-0.5-1	Solid	01/21/19 09:00	01/21/19 17:50
720-90946-2	DG-AY9S-3.5-4	Solid	01/21/19 09:00	01/21/19 17:50
720-90946-3	DG-AZ10S-0.5-1	Solid	01/21/19 09:20	01/21/19 17:50
720-90946-4	DG-AZ10S-3.5-4	Solid	01/21/19 09:20	01/21/19 17:50
720-90946-5	DG-AX10S-0.5-1	Solid	01/21/19 09:40	01/21/19 17:50
720-90946-6	DG-AX10S-3.5-4	Solid	01/21/19 09:40	01/21/19 17:50
720-90946-7	DG-AW10S-0.5-1	Solid	01/21/19 10:05	01/21/19 17:50
720-90946-8	DG-AW10S-3.5-4	Solid	01/21/19 10:05	01/21/19 17:50
720-90946-9	DG-AV10S-0.5-1	Solid	01/21/19 10:40	01/21/19 17:50
720-90946-10	DG-AV10S-3.5-4	Solid	01/21/19 10:40	01/21/19 17:50
720-90946-11	DG-AV10S-14.5-15	Solid	01/21/19 10:40	01/21/19 17:50
720-90946-12	DG-AT11S-3.5-4	Solid	01/21/19 11:45	01/21/19 17:50
720-90946-13	DG-AX11S-0.5-1	Solid	01/21/19 12:00	01/21/19 17:50
720-90946-14	DG-AX11S-3.5-4	Solid	01/21/19 12:00	01/21/19 17:50
720-90946-15	DG-AS12S-0.5-1	Solid	01/21/19 13:45	01/21/19 17:50
720-90946-16	DG-AS12S-3.5-4	Solid	01/21/19 13:45	01/21/19 17:50
720-90946-17	DG-AR12S-0.5-1	Solid	01/21/19 14:00	01/21/19 17:50
720-90946-18	DG-AR12S-3.5-4	Solid	01/21/19 14:00	01/21/19 17:50
720-90946-19	DG-AQ12S-0.5-1	Solid	01/21/19 14:30	01/21/19 17:50
720-90946-20	DG-AQ12S-3.5-4	Solid	01/21/19 14:30	01/21/19 17:50
720-90946-21	DG-AQ13S-0.5-1	Solid	01/21/19 14:50	01/21/19 17:50
720-90946-22	DG-AQ13S-3.5-4	Solid	01/21/19 14:50	01/21/19 17:50
720-90946-23	DG-AQ13S-11.5-12	Solid	01/21/19 14:50	01/21/19 17:50
720-90946-24	DG-AO14S-0.5-1	Solid	01/21/19 15:30	01/21/19 17:50
720-90946-25	DUP-79	Solid	01/21/19 00:00	01/21/19 17:50
720-90946-26	DG-AN14S-0.5-1	Solid	01/21/19 15:45	01/21/19 17:50

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720 - 90946

Chain of Custody Record

1880223

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/21/19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Casey Green / Miranda Kahnlas
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2779 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90946 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1 DG-AY9S-0.5-1	1/21/19	900	G	S	1	N		X	
2 DG-AY9S-3.5-4		900							
3 DG-AZ10S-0.5-1		920							
4 DG-AZ10S-3.5-4		920							
5 DG-AX10S-0.5-1		940							
6 DG-AX10S-3.5-4		940							
7 DG-AW10S-0.5-4		1005							
8 DG-AW10S-3.5-4		1005							
9 DG-AV10S-0.5-1		1040							
10 DG-AV10S-3.5-4		1040							
11 DG-AV10S-14.5-15		1040							
12 DG-AT11S-3.5-4		1145							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

0.3°C, 2.3°C, 0.8°C, 1.7°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company Geosyntec	Date/Time 21 January 2019 1323	Received by	Company TA PLS	Date/Time 1-21-19 16:24
Relinquished by	Company TA PLS	Date/Time 1-21-19 17:30	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/21/19 1750

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90946

Chain of Custody Record

1880123

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 21 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AX11s-0.5-1	21 January 2019	1200	G	S	1	N	Y	X	
14	DG-AX11s-3.5-4	↓	1200	↓	↓	↓			↓	
15	DG-AS12s-0.5-1		1345							
16	DG-AS12s-3.5-4		1345							
17	DG-AR12s-0.5-1		1400							
18	DG-AR12s-3.5-4		1400							
19	DG-AQ12s-0.5-1		1430							
20	DG-AQ12s-3.5-4		1430							
21	DG-AQ13s-0.5-1		1450							
22	DG-AQ13s-3.5-4		1450							
23	DG-AQ13s-11.5-12		1450							
24	DG-AO14s-0.5-1		1530							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____			
Relinquished by	Company Geosyntec	Date/Time 1624 21 January 2019	Received by	Company TA-PLS	Date/Time 1-21-19 16:24
Relinquished by	Company TA-PLS	Date/Time 17:50 1-21-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time.	Received in Laboratory by	Company TA-PLS	Date/Time 1/21/19 1750

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/6/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90946

Chain of Custody Record

188023

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 21 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25 DUP-79	21 January 2019	—	G	S	1	N		X	
26 DG-AN14S-0.5-1	↓	1545	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd. _____ Corr'd. _____ Therm ID No. _____		
Relinquished by	Company: Geosyntec	Date/Time: 21 January 1629	Received by	Company: TA PLS	Date/Time: 1-21-19 16:24
Relinquished by	Company: TA PLS	Date/Time: 1-21-19 1750	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/21/19 1750

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/6/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90946-1

Login Number: 90946
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90947-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Karen Dahl

Authorized for release by:
2/8/2019 6:18:36 PM
Karen Dahl, Senior Project Manager
(916)374-4384
karen.dahl@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90947-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90947-1

Comments
No additional comments.

Receipt
The samples were received on 1/21/2019 5:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.3º C, 0.8º C, 1.7º C and 2.3º C.

Receipt Exceptions
Insufficient sample volume was provided for the following samples for all analyses except for the VOC + Gas analysis: FB-01.21.19 (720-90947-3) & TB-01.21.19 (720-90947-4).

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-525992 recovered above the upper control limit for 2-Hexanone. The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-525992 recovered outside control limits for the following analytes: 2-Hexanone and 4-Methyl-2-pentanone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The matrix spike duplicate (MSD) recoveries for analytical batch 440-525992 were outside control limits.

Method 8260B: The following volatile sample was received and analyzed with significant headspace in its sample vial: TB-01.21.19 (720-90947-4). Significant headspace is defined as a bubble greater than 6 mm in diameter.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target elements passed recoveries. (ICSA 720-259445/7) and (ICSAB 720-259445/8).

Method 6010B: The method blank for preparation batch 720-259288 and analytical batch 720-259445 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target elements passed recoveries. (ICSA 720-259497/7) and (ICSAB 720-259497/8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8015B preparation batch 440-524581.

Job ID: 720-90947-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-524349. 8270C-SIM-PAH. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Client Sample ID: DG-AP9W — Lab Sample ID: 720-90947-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.6		0.50	0.25	ug/L	1		8260B	Total/NA
Acetone	17	J	20	10	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	130	J	530	110	ug/L	1		8015B	Total/NA
Barium	140	B	50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.74	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.5	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	3.8		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	17	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	3.8	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	4.0	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	78		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AN9W — Lab Sample ID: 720-90947-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.4		0.50	0.25	ug/L	1		8260B	Total/NA
Acetone	17	J	20	10	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	150	J	550	110	ug/L	1		8015B	Total/NA
Arsenic	7.1	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	110	B	50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.21	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.2	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	3.4		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.1	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	2.7	J	5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	4.0	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	3.4	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	8.9	J	10	3.5	ug/L	1		6010B	Dissolved
Zinc	55		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: FB-01.21.19 — Lab Sample ID: 720-90947-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	38	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Acetone	71		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: TB-01.21.19 — Lab Sample ID: 720-90947-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Client Sample ID: DG-AP9W
Date Collected: 01/21/19 15:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/31/19 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*01/31/19 10:33*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*01/31/19 10:33*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*01/31/19 10:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.6**		0.50	0.25	ug/L			01/31/19 10:33	1
Acetone	**17**	**J**	20	10	ug/L			01/31/19 10:33	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 10:33	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 10:33	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 10:33	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 10:33	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 10:33	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 10:33	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 10:33	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 10:33	1

Client Sample ID: DG-AP9W

Date Collected: 01/21/19 15:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	* F1	5.0	2.5	ug/L			01/31/19 10:33	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 10:33	1
4-Methyl-2-pentanone (MIBK)	ND	* F1	5.0	2.5	ug/L			01/31/19 10:33	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 10:33	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 10:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 10:33	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 10:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 10:33	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 10:33	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 10:33	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*01/31/19 10:33*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*01/31/19 10:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*01/31/19 13:32*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*01/31/19 13:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Acenaphthene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Fluorene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Phenanthrene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Anthracene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Chrysene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Benzo[a]pyrene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1

Client Sample ID: DG-AP9W

Date Collected: 01/21/19 15:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-1

Matrix: Water

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Fluoranthene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Pyrene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*38 - 120*	*01/23/19 12:48*	*01/24/19 18:38*	*1*
Nitrobenzene-d5	*48*		*10 - 120*	*01/23/19 12:48*	*01/24/19 18:38*	*1*
Terphenyl-d14	*71*		*21 - 120*	*01/23/19 12:48*	*01/24/19 18:38*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**	**J**	530	110	ug/L		01/24/19 06:17	01/24/19 18:31	1
Motor Oil Range Organics [C24-C36]	ND		530	110	ug/L		01/24/19 06:17	01/24/19 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*45 - 120*	*01/24/19 06:17*	*01/24/19 18:31*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 17:14	1
Arsenic	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 17:14	1
Barium	**140**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 17:14	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 17:14	1
Cadmium	**0.74**	**J**	2.0	0.21	ug/L		01/26/19 10:40	01/29/19 17:14	1
Chromium	**1.5**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 17:14	1
Cobalt	**3.8**		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 17:14	1
Copper	**17**	**J**	20	3.7	ug/L		01/26/19 10:40	01/29/19 17:14	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 17:14	1
Molybdenum	**3.8**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 17:14	1
Nickel	**4.0**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 17:14	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 17:14	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 17:14	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/30/19 12:44	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 17:14	1
Zinc	**78**		20	7.4	ug/L		01/26/19 10:40	01/29/19 17:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 15:39	01/29/19 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/21/19 20:03	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Client Sample ID: DG-AN9W
Date Collected: 01/21/19 15:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/31/19 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*01/31/19 12:23*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*01/31/19 12:23*	*1*
Toluene-d8 (Surr)	*113*		*80 - 128*		*01/31/19 12:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.4**		0.50	0.25	ug/L			01/31/19 12:23	1
Acetone	**17**	**J**	20	10	ug/L			01/31/19 12:23	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 12:23	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 12:23	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 12:23	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 12:23	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 12:23	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 12:23	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 12:23	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 12:23	1

Client Sample ID: DG-AN9W

Date Collected: 01/21/19 15:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/31/19 12:23	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 12:23	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/31/19 12:23	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 12:23	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 12:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 12:23	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 12:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 12:23	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 12:23	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*01/31/19 12:23*	*1*
Toluene-d8 (Surr)	*113*		*80 - 128*		*01/31/19 12:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*01/31/19 14:00*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/31/19 14:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Acenaphthene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Acenaphthylene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Fluorene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Phenanthrene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Anthracene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Benzo[a]anthracene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Chrysene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Benzo[a]pyrene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1

Client Sample ID: DG-AN9W

Date Collected: 01/21/19 15:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-2

Matrix: Water

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Benzo[g,h,i]perylene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Fluoranthene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Pyrene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1
Dibenz(a,h)anthracene	ND		0.22	0.11	ug/L		01/23/19 12:48	01/24/19 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*38 - 120*	*01/23/19 12:48*	*01/24/19 19:02*	*1*
Nitrobenzene-d5	*73*		*10 - 120*	*01/23/19 12:48*	*01/24/19 19:02*	*1*
Terphenyl-d14	*64*		*21 - 120*	*01/23/19 12:48*	*01/24/19 19:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**	**J**	550	110	ug/L		01/24/19 06:17	01/24/19 18:52	1
Motor Oil Range Organics [C24-C36]	ND		550	110	ug/L		01/24/19 06:17	01/24/19 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*74*		*45 - 120*	*01/24/19 06:17*	*01/24/19 18:52*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 17:19	1
Arsenic	**7.1**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 17:19	1
Barium	**110**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 17:19	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 17:19	1
Cadmium	**0.21**	**J**	2.0	0.21	ug/L		01/26/19 10:40	01/29/19 17:19	1
Chromium	**1.2**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 17:19	1
Cobalt	**3.4**		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 17:19	1
Copper	**6.1**	**J**	20	3.7	ug/L		01/26/19 10:40	01/29/19 17:19	1
Lead	**2.7**	**J**	5.0	2.2	ug/L		01/26/19 10:40	01/29/19 17:19	1
Molybdenum	**4.0**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 17:19	1
Nickel	**3.4**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 17:19	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 17:19	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 17:19	1
Thallium	**8.9**	**J**	10	3.5	ug/L		01/26/19 10:40	01/29/19 17:19	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 17:19	1
Zinc	**55**		20	7.4	ug/L		01/26/19 10:40	01/29/19 17:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 15:39	01/29/19 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/21/19 20:05	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Client Sample ID: FB-01.21.19

Date Collected: 01/21/19 15:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-3

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	38	J	50	35	ug/L			01/31/19 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*01/31/19 12:50*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*01/31/19 12:50*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/31/19 12:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Acetone	71		20	10	ug/L			01/31/19 12:50	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 12:50	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 12:50	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 12:50	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 12:50	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 12:50	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 12:50	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 12:50	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 12:50	1

Client Sample ID: FB-01.21.19
Date Collected: 01/21/19 15:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/31/19 12:50	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 12:50	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/31/19 12:50	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 12:50	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 12:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 12:50	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 12:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 12:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 12:50	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 12:50	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*01/31/19 12:50*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*01/31/19 12:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*01/31/19 14:28*	*1*
Toluene-d8 (Surr)	*94*		*80 - 128*		*01/31/19 14:28*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Client Sample ID: TB-01.21.19
Date Collected: 01/21/19 15:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/31/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*01/31/19 13:18*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*01/31/19 13:18*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*01/31/19 13:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Acetone	ND		20	10	ug/L			01/31/19 13:18	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 13:18	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 13:18	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 13:18	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 13:18	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 13:18	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 13:18	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 13:18	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 13:18	1

Client Sample ID: TB-01.21.19
Date Collected: 01/21/19 15:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	5.0	2.5	ug/L			01/31/19 13:18	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 13:18	1
4-Methyl-2-pentanone (MIBK)	ND	*	5.0	2.5	ug/L			01/31/19 13:18	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 13:18	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 13:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 13:18	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 13:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 13:18	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 13:18	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*01/31/19 13:18*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*01/31/19 13:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*01/31/19 14:56*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*01/31/19 14:56*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-231462-A-1 MS	Matrix Spike	86	93
440-231462-A-1 MSD	Matrix Spike Duplicate	82	93
720-90947-1	DG-AP9W	115	111
720-90947-1 - RA	DG-AP9W	92	97
720-90947-1 MS	DG-AP9W	109	103
720-90947-1 MSD	DG-AP9W	107	105
720-90947-2	DG-AN9W	117	113
720-90947-2 - RA	DG-AN9W	91	98
720-90947-3	FB-01.21.19	115	110
720-90947-3 - RA	FB-01.21.19	94	94
720-90947-4	TB-01.21.19	112	112
720-90947-4 - RA	TB-01.21.19	94	95
LCS 440-525992/6	Lab Control Sample	108	109
LCS 440-525994/5	Lab Control Sample	85	94
MB 440-525992/5	Method Blank	117	109
MB 440-525994/4	Method Blank	88	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
720-90947-1	DG-AP9W	105	104	111
720-90947-1 MS	DG-AP9W	101	104	103
720-90947-1 MSD	DG-AP9W	102	105	105
720-90947-2	DG-AN9W	105	105	113
720-90947-3	FB-01.21.19	107	106	110
720-90947-4	TB-01.21.19	107	104	112
LCS 440-525993/7	Lab Control Sample	102	107	113
MB 440-525993/5	Method Blank	104	107	109

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-90947-1	DG-AP9W	78	48	71
720-90947-2	DG-AN9W	92	73	64
LCS 440-524349/2-A	Lab Control Sample	86	76	91

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
LCSD 440-524349/3-A	Lab Control Sample Dup	82	78	103
MB 440-524349/1-A	Method Blank	91	79	90

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-90947-1	DG-AP9W	75
720-90947-2	DG-AN9W	74
LCS 440-524581/2-A	Lab Control Sample	88
LCSD 440-524581/3-A	Lab Control Sample Dup	88
MB 440-524581/1-A	Method Blank	87

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-525992/5
Matrix: Water
Analysis Batch: 525992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Acetone	ND		20	10	ug/L			01/31/19 08:43	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 08:43	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 08:43	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 08:43	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 08:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 08:43	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 08:43	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 08:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
2-Hexanone	ND		5.0	2.5	ug/L			01/31/19 08:43	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 08:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/31/19 08:43	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 08:43	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 08:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525992/5
Matrix: Water
Analysis Batch: 525992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 08:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 08:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 08:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 08:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 08:43	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 08:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 08:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*01/31/19 08:43*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*01/31/19 08:43*	*1*

Lab Sample ID: LCS 440-525992/6
Matrix: Water
Analysis Batch: 525992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	23.8		ug/L		95	63 - 131
Acetone	25.0	34.4		ug/L		138	10 - 150
Benzene	25.0	27.1		ug/L		109	68 - 130
Dichlorobromomethane	25.0	27.7		ug/L		111	70 - 132
Bromobenzene	25.0	24.0		ug/L		96	70 - 130
Chlorobromomethane	25.0	24.9		ug/L		100	70 - 130
Bromoform	25.0	24.5		ug/L		98	60 - 148
Bromomethane	25.0	20.9		ug/L		84	64 - 139
2-Butanone (MEK)	25.0	32.2		ug/L		129	44 - 150
n-Butylbenzene	25.0	27.1		ug/L		108	65 - 150
sec-Butylbenzene	25.0	28.1		ug/L		113	70 - 138
tert-Butylbenzene	25.0	25.5		ug/L		102	70 - 130
Carbon disulfide	25.0	26.4		ug/L		106	52 - 136
Carbon tetrachloride	25.0	25.9		ug/L		104	60 - 150
Chlorobenzene	25.0	24.9		ug/L		100	70 - 130
Chloroethane	25.0	24.2		ug/L		97	64 - 135
Chloroform	25.0	25.9		ug/L		104	70 - 130
Chloromethane	25.0	28.1		ug/L		112	47 - 140
2-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130
4-Chlorotoluene	25.0	26.1		ug/L		105	70 - 130
Chlorodibromomethane	25.0	25.8		ug/L		103	69 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525992/6
Matrix: Water
Analysis Batch: 525992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	28.4		ug/L		114	70 - 130
1,1-Dichloropropene	25.0	27.2		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	29.9		ug/L		120	52 - 140
Ethylene Dibromide	25.0	27.4		ug/L		110	70 - 130
Dibromomethane	25.0	25.1		ug/L		101	70 - 130
Dichlorodifluoromethane	25.0	27.6		ug/L		110	29 - 150
1,1-Dichloroethane	25.0	28.9		ug/L		116	64 - 130
1,2-Dichloroethane	25.0	27.9		ug/L		111	57 - 138
1,1-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 133
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130
1,2-Dichloropropane	25.0	29.3		ug/L		117	67 - 130
cis-1,3-Dichloropropene	25.0	30.1		ug/L		120	70 - 133
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 132
Ethylbenzene	25.0	26.0		ug/L		104	70 - 130
Hexachlorobutadiene	25.0	24.0		ug/L		96	10 - 150
2-Hexanone	25.0	38.8	*	ug/L		155	10 - 150
Isopropylbenzene	25.0	27.4		ug/L		109	70 - 136
4-Isopropyltoluene	25.0	26.5		ug/L		106	70 - 132
Methylene Chloride	25.0	25.0		ug/L		100	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	38.3	*	ug/L		153	59 - 149
Naphthalene	25.0	23.1		ug/L		92	60 - 140
N-Propylbenzene	25.0	27.5		ug/L		110	67 - 139
Styrene	25.0	23.5		ug/L		94	70 - 134
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	60 - 141
1,1,2,2-Tetrachloroethane	25.0	31.5		ug/L		126	63 - 130
Tetrachloroethene	25.0	25.7		ug/L		103	70 - 130
Toluene	25.0	27.1		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	25.0	22.8		ug/L		91	60 - 140
1,2,4-Trichlorobenzene	25.0	22.4		ug/L		90	60 - 140
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	25.0	29.4		ug/L		118	70 - 130
Trichloroethene	25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	25.1		ug/L		100	60 - 150
1,2,3-Trichloropropane	25.0	30.4		ug/L		121	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.9		ug/L		107	60 - 140
1,2,4-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 135
1,3,5-Trimethylbenzene	25.0	26.5		ug/L		106	70 - 136
Vinyl chloride	25.0	28.1		ug/L		112	59 - 133
m-Xylene & p-Xylene	25.0	26.2		ug/L		105	70 - 130
o-Xylene	25.0	26.4		ug/L		105	70 - 130
2,2-Dichloropropane	25.0	29.6		ug/L		119	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525992/6
Matrix: Water
Analysis Batch: 525992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*109*		*80 - 128*

Lab Sample ID: 720-90947-1 MS
Matrix: Water
Analysis Batch: 525992

Client Sample ID: DG-AP9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	1.6		25.0	26.2		ug/L		98	70 - 130
Acetone	17	J	25.0	43.1		ug/L		102	10 - 150
Benzene	ND		25.0	26.8		ug/L		107	66 - 130
Dichlorobromomethane	ND		25.0	27.9		ug/L		111	70 - 138
Bromobenzene	ND		25.0	23.6		ug/L		95	70 - 130
Chlorobromomethane	ND		25.0	25.0		ug/L		100	70 - 130
Bromoform	ND		25.0	23.6		ug/L		94	59 - 150
Bromomethane	ND		25.0	20.6		ug/L		83	62 - 131
2-Butanone (MEK)	ND		25.0	27.9		ug/L		112	48 - 140
n-Butylbenzene	ND		25.0	27.2		ug/L		109	61 - 149
sec-Butylbenzene	ND		25.0	27.7		ug/L		111	67 - 134
tert-Butylbenzene	ND		25.0	25.1		ug/L		100	70 - 130
Carbon disulfide	ND		25.0	26.1		ug/L		104	49 - 140
Carbon tetrachloride	ND		25.0	25.9		ug/L		104	60 - 150
Chlorobenzene	ND		25.0	24.0		ug/L		96	70 - 130
Chloroethane	ND		25.0	23.6		ug/L		95	68 - 130
Chloroform	ND		25.0	26.5		ug/L		106	70 - 130
Chloromethane	ND		25.0	24.6		ug/L		98	39 - 144
2-Chlorotoluene	ND		25.0	25.5		ug/L		102	70 - 130
4-Chlorotoluene	ND		25.0	26.0		ug/L		104	70 - 130
Chlorodibromomethane	ND		25.0	24.5		ug/L		98	70 - 148
1,2-Dichlorobenzene	ND		25.0	25.5		ug/L		102	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		101	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130
1,3-Dichloropropane	ND		25.0	27.8		ug/L		111	70 - 130
1,1-Dichloropropene	ND		25.0	27.2		ug/L		109	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	32.2		ug/L		129	48 - 140
Ethylene Dibromide	ND		25.0	26.2		ug/L		105	70 - 131
Dibromomethane	ND		25.0	25.6		ug/L		102	70 - 130
Dichlorodifluoromethane	ND		25.0	23.1		ug/L		92	25 - 142
1,1-Dichloroethane	ND		25.0	28.6		ug/L		114	65 - 130
1,2-Dichloroethane	ND		25.0	28.6		ug/L		114	56 - 146
1,1-Dichloroethene	ND		25.0	24.5		ug/L		98	70 - 130
cis-1,2-Dichloroethene	ND		25.0	25.6		ug/L		102	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130
1,2-Dichloropropane	ND		25.0	29.4		ug/L		117	69 - 130
cis-1,3-Dichloropropene	ND		25.0	27.9		ug/L		112	70 - 133
trans-1,3-Dichloropropene	ND		25.0	26.0		ug/L		104	70 - 138
Ethylbenzene	ND		25.0	24.9		ug/L		99	70 - 130
Hexachlorobutadiene	ND		25.0	24.1		ug/L		96	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90947-1 MS
Matrix: Water
Analysis Batch: 525992

Client Sample ID: DG-AP9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND	* F1	25.0	37.4		ug/L		150	10 - 150
Isopropylbenzene	ND		25.0	26.1		ug/L		104	70 - 132
4-Isopropyltoluene	ND		25.0	26.3		ug/L		105	70 - 130
Methylene Chloride	ND		25.0	24.7		ug/L		99	52 - 130
4-Methyl-2-pentanone (MIBK)	ND	* F1	25.0	37.2		ug/L		149	52 - 150
Naphthalene	ND		25.0	24.7		ug/L		99	60 - 140
N-Propylbenzene	ND		25.0	27.0		ug/L		108	66 - 135
Styrene	ND		25.0	22.0		ug/L		88	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	23.8		ug/L		95	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	31.9		ug/L		128	63 - 130
Tetrachloroethene	ND		25.0	24.2		ug/L		97	70 - 137
Toluene	ND		25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	24.6		ug/L		99	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	23.1		ug/L		92	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.4		ug/L		106	70 - 130
1,1,2-Trichloroethane	ND		25.0	28.3		ug/L		113	70 - 130
Trichloroethene	ND		25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	ND		25.0	24.3		ug/L		97	60 - 150
1,2,3-Trichloropropane	ND		25.0	29.9		ug/L		119	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.4		ug/L		106	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	25.6		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	26.3		ug/L		105	70 - 130
Vinyl chloride	ND		25.0	25.4		ug/L		102	50 - 137
m-Xylene & p-Xylene	ND		25.0	24.8		ug/L		99	70 - 133
o-Xylene	ND		25.0	25.2		ug/L		101	70 - 133
2,2-Dichloropropane	ND		25.0	29.6		ug/L		118	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*103*		*80 - 128*

Lab Sample ID: 720-90947-1 MSD
Matrix: Water
Analysis Batch: 525992

Client Sample ID: DG-AP9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	1.6		25.0	25.7		ug/L		97	70 - 130	2	25
Acetone	17	J	25.0	40.0		ug/L		90	10 - 150	7	35
Benzene	ND		25.0	26.7		ug/L		107	66 - 130	1	20
Dichlorobromomethane	ND		25.0	26.8		ug/L		107	70 - 138	4	20
Bromobenzene	ND		25.0	24.2		ug/L		97	70 - 130	2	20
Chlorobromomethane	ND		25.0	25.0		ug/L		100	70 - 130	0	25
Bromoform	ND		25.0	24.1		ug/L		96	59 - 150	2	25
Bromomethane	ND		25.0	19.9		ug/L		80	62 - 131	4	25
2-Butanone (MEK)	ND		25.0	33.4		ug/L		133	48 - 140	18	40
n-Butylbenzene	ND		25.0	27.2		ug/L		109	61 - 149	0	20
sec-Butylbenzene	ND		25.0	28.3		ug/L		113	67 - 134	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90947-1 MSD
Matrix: Water
Analysis Batch: 525992

Client Sample ID: DG-AP9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene	ND		25.0	25.6		ug/L		102	70 - 130	2	20
Carbon disulfide	ND		25.0	25.4		ug/L		102	49 - 140	3	20
Carbon tetrachloride	ND		25.0	26.0		ug/L		104	60 - 150	0	25
Chlorobenzene	ND		25.0	24.2		ug/L		97	70 - 130	0	20
Chloroethane	ND		25.0	22.7		ug/L		91	68 - 130	4	25
Chloroform	ND		25.0	26.1		ug/L		105	70 - 130	2	20
Chloromethane	ND		25.0	24.2		ug/L		97	39 - 144	2	25
2-Chlorotoluene	ND		25.0	25.6		ug/L		102	70 - 130	0	20
4-Chlorotoluene	ND		25.0	26.2		ug/L		105	70 - 130	1	20
Chlorodibromomethane	ND		25.0	25.2		ug/L		101	70 - 148	3	25
1,2-Dichlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130	0	20
1,4-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130	0	20
1,3-Dichloropropane	ND		25.0	27.7		ug/L		111	70 - 130	0	25
1,1-Dichloropropene	ND		25.0	26.9		ug/L		107	64 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	31.8		ug/L		127	48 - 140	1	30
Ethylene Dibromide	ND		25.0	26.8		ug/L		107	70 - 131	2	25
Dibromomethane	ND		25.0	25.2		ug/L		101	70 - 130	1	25
Dichlorodifluoromethane	ND		25.0	22.6		ug/L		90	25 - 142	2	30
1,1-Dichloroethane	ND		25.0	28.5		ug/L		114	65 - 130	0	20
1,2-Dichloroethane	ND		25.0	28.2		ug/L		113	56 - 146	1	20
1,1-Dichloroethene	ND		25.0	24.6		ug/L		99	70 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	25.4		ug/L		102	70 - 130	1	20
1,2-Dichloropropane	ND		25.0	29.5		ug/L		118	69 - 130	0	20
cis-1,3-Dichloropropene	ND		25.0	28.9		ug/L		116	70 - 133	3	20
trans-1,3-Dichloropropene	ND		25.0	26.3		ug/L		105	70 - 138	1	25
Ethylbenzene	ND		25.0	25.2		ug/L		101	70 - 130	1	20
Hexachlorobutadiene	ND		25.0	24.8		ug/L		99	10 - 150	3	20
2-Hexanone	ND	* F1	25.0	37.8	F1	ug/L		151	10 - 150	1	35
Isopropylbenzene	ND		25.0	26.5		ug/L		106	70 - 132	1	20
4-Isopropyltoluene	ND		25.0	26.7		ug/L		107	70 - 130	2	20
Methylene Chloride	ND		25.0	24.6		ug/L		98	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND	* F1	25.0	38.1	F1	ug/L		152	52 - 150	2	35
Naphthalene	ND		25.0	25.0		ug/L		100	60 - 140	1	30
N-Propylbenzene	ND		25.0	27.4		ug/L		109	66 - 135	2	20
Styrene	ND		25.0	22.2		ug/L		89	29 - 150	1	35
1,1,1,2-Tetrachloroethane	ND		25.0	24.4		ug/L		97	60 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	31.7		ug/L		127	63 - 130	1	30
Tetrachloroethene	ND		25.0	25.4		ug/L		101	70 - 137	5	20
Toluene	ND		25.0	25.7		ug/L		103	70 - 130	1	20
1,2,3-Trichlorobenzene	ND		25.0	24.2		ug/L		97	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	25.6		ug/L		102	70 - 130	3	20
1,1,2-Trichloroethane	ND		25.0	28.3		ug/L		113	70 - 130	0	25
Trichloroethene	ND		25.0	24.1		ug/L		96	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	24.0		ug/L		96	60 - 150	1	25
1,2,3-Trichloropropane	ND		25.0	30.9		ug/L		124	60 - 130	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90947-1 MSD
Matrix: Water
Analysis Batch: 525992

Client Sample ID: DG-AP9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.8		ug/L		103	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		25.0	25.9		ug/L		104	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		25.0	26.3		ug/L		105	70 - 130	0	20
Vinyl chloride	ND		25.0	25.0		ug/L		100	50 - 137	2	30
m-Xylene & p-Xylene	ND		25.0	25.0		ug/L		100	70 - 133	1	25
o-Xylene	ND		25.0	25.7		ug/L		103	70 - 133	2	20
2,2-Dichloropropane	ND		25.0	29.1		ug/L		117	69 - 138	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*105*		*80 - 128*

Lab Sample ID: MB 440-525994/4
Matrix: Water
Analysis Batch: 525994

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*01/31/19 08:17*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/31/19 08:17*	*1*

Lab Sample ID: LCS 440-525994/5
Matrix: Water
Analysis Batch: 525994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate			25.0	19.1		ug/L		76	48 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
Toluene-d8 (Surr)	*94*		*80 - 128*

Lab Sample ID: 440-231462-A-1 MS
Matrix: Water
Analysis Batch: 525994

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	ND		25.0	18.7		ug/L		75	23 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
Toluene-d8 (Surr)	*93*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231462-A-1 MSD
Matrix: Water
Analysis Batch: 525994

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	ND		25.0	18.0		ug/L		72	23 - 150	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*
Toluene-d8 (Surr)	*93*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-525993/5
Matrix: Water
Analysis Batch: 525993

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/31/19 08:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*01/31/19 08:43*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*01/31/19 08:43*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*01/31/19 08:43*	*1*

Lab Sample ID: LCS 440-525993/7
Matrix: Water
Analysis Batch: 525993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	554		ug/L		111	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*113*		*80 - 128*

Lab Sample ID: 720-90947-1 MS
Matrix: Water
Analysis Batch: 525993

Client Sample ID: DG-AP9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	2000		ug/L		116	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90947-1 MSD
Matrix: Water
Analysis Batch: 525993

Client Sample ID: DG-AP9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1900		ug/L		110	50 - 145	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-524349/1-A
Matrix: Water
Analysis Batch: 524646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Acenaphthene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Fluorene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Phenanthrene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Anthracene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Chrysene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Fluoranthene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Pyrene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/23/19 10:45	01/24/19 15:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*38 - 120*	*01/23/19 10:45*	*01/24/19 15:23*	*1*
Nitrobenzene-d5	*79*		*10 - 120*	*01/23/19 10:45*	*01/24/19 15:23*	*1*
Terphenyl-d14	*90*		*21 - 120*	*01/23/19 10:45*	*01/24/19 15:23*	*1*

Lab Sample ID: LCS 440-524349/2-A
Matrix: Water
Analysis Batch: 524646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.760		ug/L		76	50 - 120
Acenaphthene	1.00	0.832		ug/L		83	55 - 120
Acenaphthylene	1.00	0.870		ug/L		87	53 - 120
Fluorene	1.00	0.915		ug/L		91	56 - 120
Phenanthrene	1.00	0.864		ug/L		86	56 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-524349/2-A
Matrix: Water
Analysis Batch: 524646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1.00	0.753		ug/L		75	54 - 120
Benzo[a]anthracene	1.00	0.775		ug/L		78	53 - 120
Chrysene	1.00	0.769		ug/L		77	56 - 120
Benzo[a]pyrene	1.00	0.776		ug/L		78	44 - 120
Benzo[b]fluoranthene	1.00	0.766		ug/L		77	48 - 120
Benzo[k]fluoranthene	1.00	0.807		ug/L		81	47 - 121
Benzo[g,h,i]perylene	1.00	0.781		ug/L		78	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.717		ug/L		72	38 - 120
Fluoranthene	1.00	0.944		ug/L		94	59 - 120
Pyrene	1.00	0.939		ug/L		94	59 - 120
Dibenz(a,h)anthracene	1.00	0.761		ug/L		76	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*86*		*38 - 120*
Nitrobenzene-d5	*76*		*10 - 120*
Terphenyl-d14	*91*		*21 - 120*

Lab Sample ID: LCSD 440-524349/3-A
Matrix: Water
Analysis Batch: 524646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 524349

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.769		ug/L		77	50 - 120	1	35
Acenaphthene	1.00	0.879		ug/L		88	55 - 120	6	35
Acenaphthylene	1.00	0.922		ug/L		92	53 - 120	6	35
Fluorene	1.00	1.01		ug/L		101	56 - 120	10	35
Phenanthrene	1.00	0.899		ug/L		90	56 - 120	4	35
Anthracene	1.00	0.830		ug/L		83	54 - 120	10	35
Benzo[a]anthracene	1.00	0.889		ug/L		89	53 - 120	14	35
Chrysene	1.00	0.857		ug/L		86	56 - 120	11	35
Benzo[a]pyrene	1.00	0.871		ug/L		87	44 - 120	11	35
Benzo[b]fluoranthene	1.00	0.875		ug/L		87	48 - 120	13	35
Benzo[k]fluoranthene	1.00	0.834		ug/L		83	47 - 121	3	35
Benzo[g,h,i]perylene	1.00	0.854		ug/L		85	41 - 123	9	35
Indeno[1,2,3-cd]pyrene	1.00	0.785		ug/L		79	38 - 120	9	35
Fluoranthene	1.00	1.04		ug/L		104	59 - 120	9	35
Pyrene	1.00	1.02		ug/L		102	59 - 120	8	35
Dibenz(a,h)anthracene	1.00	0.839		ug/L		84	38 - 122	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*38 - 120*
Nitrobenzene-d5	*78*		*10 - 120*
Terphenyl-d14	*103*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-524581/1-A
Matrix: Water
Analysis Batch: 524626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/24/19 06:17	01/24/19 12:20	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/24/19 06:17	01/24/19 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*45 - 120*	*01/24/19 06:17*	*01/24/19 12:20*	*1*

Lab Sample ID: LCS 440-524581/2-A
Matrix: Water
Analysis Batch: 524626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524581

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	802		ug/L		80	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*88*		*45 - 120*

Lab Sample ID: LCSD 440-524581/3-A
Matrix: Water
Analysis Batch: 524626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 524581

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	816		ug/L		82	40 - 115	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*88*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259288/1-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 16:46	1
Arsenic	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 16:46	1
Barium	2.23	J	50	1.6	ug/L		01/26/19 10:40	01/29/19 16:46	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 16:46	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 16:46	1
Chromium	ND		10	0.70	ug/L		01/26/19 10:40	01/29/19 16:46	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 16:46	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 16:46	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 16:46	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 16:46	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 16:46	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 16:46	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259288/1-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 16:46	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 16:46	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 16:46	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 16:46	1

Lab Sample ID: LCS 720-259288/2-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	936		ug/L		94	80 - 120
Arsenic	1000	933		ug/L		93	80 - 120
Barium	1000	937		ug/L		94	80 - 120
Beryllium	1000	943		ug/L		94	80 - 120
Cadmium	1000	947		ug/L		95	80 - 120
Chromium	1000	933		ug/L		93	80 - 120
Cobalt	1000	950		ug/L		95	80 - 120
Copper	1000	946		ug/L		95	80 - 120
Lead	1000	957		ug/L		96	80 - 120
Molybdenum	1000	941		ug/L		94	80 - 120
Nickel	1000	943		ug/L		94	80 - 120
Selenium	1000	942		ug/L		94	80 - 120
Silver	500	470		ug/L		94	80 - 120
Thallium	1000	818		ug/L		82	80 - 120
Vanadium	1000	941		ug/L		94	80 - 120
Zinc	1000	942		ug/L		94	80 - 120

Lab Sample ID: 720-90947-1 MS
Matrix: Water
Analysis Batch: 259445

Client Sample ID: DG-AP9W
Prep Type: Dissolved
Prep Batch: 259288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	917		ug/L		92	75 - 125
Arsenic	ND		1000	931		ug/L		93	75 - 125
Barium	140	B	1000	1070		ug/L		94	75 - 125
Beryllium	ND		1000	968		ug/L		97	75 - 125
Cadmium	0.74	J	1000	896		ug/L		90	75 - 125
Chromium	1.5	J	1000	887		ug/L		89	75 - 125
Cobalt	3.8		1000	889		ug/L		89	75 - 125
Copper	17	J	1000	906		ug/L		89	75 - 125
Lead	ND		1000	876		ug/L		88	75 - 125
Molybdenum	3.8	J	1000	925		ug/L		92	75 - 125
Nickel	4.0	J	1000	874		ug/L		87	75 - 125
Selenium	ND		1000	908		ug/L		91	75 - 125
Silver	ND		500	450		ug/L		90	75 - 125
Thallium	14		1000	820		ug/L		81	75 - 125
Vanadium	ND		1000	923		ug/L		92	75 - 125
Zinc	78		1000	967		ug/L		89	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90947-1 MSD — **Client Sample ID: DG-AP9W**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 259445 — **Prep Batch: 259288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	944		ug/L		94	75 - 125	3	20
Arsenic	ND		1000	960		ug/L		96	75 - 125	3	20
Barium	140	B	1000	1100		ug/L		96	75 - 125	2	20
Beryllium	ND		1000	990		ug/L		99	75 - 125	2	20
Cadmium	0.74	J	1000	924		ug/L		92	75 - 125	3	20
Chromium	1.5	J	1000	909		ug/L		91	75 - 125	2	20
Cobalt	3.8		1000	916		ug/L		91	75 - 125	3	20
Copper	17	J	1000	929		ug/L		91	75 - 125	3	20
Lead	ND		1000	904		ug/L		90	75 - 125	3	20
Molybdenum	3.8	J	1000	954		ug/L		95	75 - 125	3	20
Nickel	4.0	J	1000	900		ug/L		90	75 - 125	3	20
Selenium	ND		1000	950		ug/L		95	75 - 125	4	20
Silver	ND		500	462		ug/L		92	75 - 125	3	20
Thallium	14		1000	894		ug/L		88	75 - 125	9	20
Vanadium	ND		1000	945		ug/L		95	75 - 125	2	20
Zinc	78		1000	997		ug/L		92	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259346/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259402 — **Prep Batch: 259346**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 15:39	01/29/19 12:36	1

Lab Sample ID: LCS 720-259346/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259402 — **Prep Batch: 259346**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.96		ug/L		100	85 - 115

Lab Sample ID: 720-90938-D-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259402 — **Prep Batch: 259346**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	10.1		ug/L		101	75 - 125

Lab Sample ID: 720-90938-D-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259402 — **Prep Batch: 259346**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	10.1		ug/L		101	75 - 125	0	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-258899/9
Matrix: Water
Analysis Batch: 258899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/21/19 20:03	1

Lab Sample ID: LCS 720-258899/10
Matrix: Water
Analysis Batch: 258899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	249		ug/L		100	90 - 110		

Lab Sample ID: LCSD 720-258899/11
Matrix: Water
Analysis Batch: 258899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	248		ug/L		99	90 - 110	0	20

Lab Sample ID: 720-90947-1 MS
Matrix: Water
Analysis Batch: 258899

Client Sample ID: DG-AP9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	252		ug/L		101	85 - 115		

Lab Sample ID: 720-90947-1 MSD
Matrix: Water
Analysis Batch: 258899

Client Sample ID: DG-AP9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	252		ug/L		101	85 - 115	0	20

GC/MS VOA

Analysis Batch: 525992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Total/NA	Water	8260B	
720-90947-2	DG-AN9W	Total/NA	Water	8260B	
720-90947-3	FB-01.21.19	Total/NA	Water	8260B	
720-90947-4	TB-01.21.19	Total/NA	Water	8260B	
MB 440-525992/5	Method Blank	Total/NA	Water	8260B	
LCS 440-525992/6	Lab Control Sample	Total/NA	Water	8260B	
720-90947-1 MS	DG-AP9W	Total/NA	Water	8260B	
720-90947-1 MSD	DG-AP9W	Total/NA	Water	8260B	

Analysis Batch: 525993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90947-2	DG-AN9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90947-3	FB-01.21.19	Total/NA	Water	8260B/CA_LUFT MS	
720-90947-4	TB-01.21.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-525993/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-525993/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90947-1 MS	DG-AP9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90947-1 MSD	DG-AP9W	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 525994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1 - RA	DG-AP9W	Total/NA	Water	8260B	
720-90947-2 - RA	DG-AN9W	Total/NA	Water	8260B	
720-90947-3 - RA	FB-01.21.19	Total/NA	Water	8260B	
720-90947-4 - RA	TB-01.21.19	Total/NA	Water	8260B	
MB 440-525994/4	Method Blank	Total/NA	Water	8260B	
LCS 440-525994/5	Lab Control Sample	Total/NA	Water	8260B	
440-231462-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-231462-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 524349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Total/NA	Water	3520C	
720-90947-2	DG-AN9W	Total/NA	Water	3520C	
MB 440-524349/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-524349/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-524349/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 524646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Total/NA	Water	8270C SIM	524349

GC/MS Semi VOA (Continued)

Analysis Batch: 524646 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-2	DG-AN9W	Total/NA	Water	8270C SIM	524349
MB 440-524349/1-A	Method Blank	Total/NA	Water	8270C SIM	524349
LCS 440-524349/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	524349
LCSD 440-524349/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	524349

GC Semi VOA

Prep Batch: 524581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Total/NA	Water	3510C	
720-90947-2	DG-AN9W	Total/NA	Water	3510C	
MB 440-524581/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-524581/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-524581/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 524626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Total/NA	Water	8015B	524581
720-90947-2	DG-AN9W	Total/NA	Water	8015B	524581
MB 440-524581/1-A	Method Blank	Total/NA	Water	8015B	524581
LCS 440-524581/2-A	Lab Control Sample	Total/NA	Water	8015B	524581
LCSD 440-524581/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	524581

Metals

Prep Batch: 259288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Dissolved	Water	3005A	
720-90947-2	DG-AN9W	Dissolved	Water	3005A	
MB 720-259288/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-259288/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90947-1 MS	DG-AP9W	Dissolved	Water	3005A	
720-90947-1 MSD	DG-AP9W	Dissolved	Water	3005A	

Prep Batch: 259346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Dissolved	Water	7470A	
720-90947-2	DG-AN9W	Dissolved	Water	7470A	
MB 720-259346/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259346/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90938-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	
720-90938-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 259402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Dissolved	Water	7470A	259346
720-90947-2	DG-AN9W	Dissolved	Water	7470A	259346
MB 720-259346/1-A	Method Blank	Total/NA	Water	7470A	259346
LCS 720-259346/2-A	Lab Control Sample	Total/NA	Water	7470A	259346
720-90938-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	259346

Metals (Continued)

Analysis Batch: 259402 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90938-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	259346

Analysis Batch: 259445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Dissolved	Water	6010B	259288
720-90947-2	DG-AN9W	Dissolved	Water	6010B	259288
MB 720-259288/1-A	Method Blank	Total Recoverable	Water	6010B	259288
LCS 720-259288/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259288
720-90947-1 MS	DG-AP9W	Dissolved	Water	6010B	259288
720-90947-1 MSD	DG-AP9W	Dissolved	Water	6010B	259288

Analysis Batch: 259497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Dissolved	Water	6010B	259288

General Chemistry

Analysis Batch: 258899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-1	DG-AP9W	Total/NA	Water	7196A	
720-90947-2	DG-AN9W	Total/NA	Water	7196A	
MB 720-258899/9	Method Blank	Total/NA	Water	7196A	
LCS 720-258899/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-258899/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90947-1 MS	DG-AP9W	Total/NA	Water	7196A	
720-90947-1 MSD	DG-AP9W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Client Sample ID: DG-AP9W

Date Collected: 01/21/19 15:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	525994	01/31/19 13:32	TCN	TAL IRV
Total/NA	Analysis	8260B		1	525992	01/31/19 10:33	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525993	01/31/19 10:33	DCI	TAL IRV
Total/NA	Prep	3520C			524349	01/23/19 12:48	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	524646	01/24/19 18:38	L1B	TAL IRV
Total/NA	Prep	3510C			524581	01/24/19 06:17	L1H	TAL IRV
Total/NA	Analysis	8015B		1	524626	01/24/19 18:31	LMB	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 17:14	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 12:44	OBI	TAL PLS
Dissolved	Prep	7470A			259346	01/28/19 15:39	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259402	01/29/19 13:07	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258899	01/21/19 20:03	ECB	TAL PLS

Client Sample ID: DG-AN9W

Date Collected: 01/21/19 15:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	525994	01/31/19 14:00	TCN	TAL IRV
Total/NA	Analysis	8260B		1	525992	01/31/19 12:23	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525993	01/31/19 12:23	DCI	TAL IRV
Total/NA	Prep	3520C			524349	01/23/19 12:48	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	524646	01/24/19 19:02	L1B	TAL IRV
Total/NA	Prep	3510C			524581	01/24/19 06:17	L1H	TAL IRV
Total/NA	Analysis	8015B		1	524626	01/24/19 18:52	LMB	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 17:19	OBI	TAL PLS
Dissolved	Prep	7470A			259346	01/28/19 15:39	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259402	01/29/19 13:09	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258899	01/21/19 20:05	ECB	TAL PLS

Client Sample ID: FB-01.21.19

Date Collected: 01/21/19 15:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	525994	01/31/19 14:28	TCN	TAL IRV
Total/NA	Analysis	8260B		1	525992	01/31/19 12:50	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525993	01/31/19 12:50	DCI	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Client Sample ID: TB-01.21.19

Date Collected: 01/21/19 15:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90947-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	525994	01/31/19 14:56	TCN	TAL IRV
Total/NA	Analysis	8260B		1	525992	01/31/19 13:18	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525993	01/31/19 13:18	DCI	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90947-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90947-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90947-1	DG-AP9W	Water	01/21/19 15:00	01/21/19 17:50
720-90947-2	DG-AN9W	Water	01/21/19 15:20	01/21/19 17:50
720-90947-3	FB-01.21.19	Water	01/21/19 15:40	01/21/19 17:50
720-90947-4	TB-01.21.19	Water	01/21/19 15:40	01/21/19 17:50

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90947

Chain of Custody Record

188021 24 1/21/19

TestAmerica
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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	____ of ____ COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-AP9W	1/21/19	1500	G	GW	9	Y	N	X	X	X	X	X	Metals and chromium samples filtered
DG-AN9W	↓	1520	↓	↓	9	Y	N	↓	↓	↓	↓	↓	↓
FB-0129 FB-0121	↓	1540	↓	↓	2	Y	N	↓	↓	↓	↓	↓	↓ (2)
TB-0121	↓	1540	↓	↓	1	Y	N	↓	↓	↓	↓	↓	

720-90947 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.3°C, 2.3°C 0.8°C, 1.7°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No ____

Relinquished by	Company GEOSYNTEC	Date/Time 1/21/2019 1600	Received by	Company TA PLS	Date/Time 1-21-19 16.00
Relinquished by	Company TA PLS	Date/Time 1-21-19 17:50	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/21/19 1750

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
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Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40909.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90947-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AP9W (720-90947-1)	1/21/19	15:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AN9W (720-90947-2)	1/21/19	15.20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-0121 (720-90947-3)	1/21/19	15:40 Pacific		Water			X	X			2	check for 2 phases
TB-0121 (720-90947-4)	1/21/19	15:40 Pacific		Water			X	X			1	check for 2 phases

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 1/22/19 1304	Company: TAPS	Received by		Date/Time		Company
Relinquished by	Date/Time	Company	Received by		Date/Time		Company
Relinquished by	Date/Time:	Company	Received by		Date/Time: 1/23/19 1000		Company
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.2 C 7.9 1.9				

Ver 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90947-1

Login Number: 90947
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90947-1

Login Number: 90947
List Number: 2
Creator: Jatib, Savana

List Source: TestAmerica Irvine
List Creation: 01/23/19 11:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90948-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/1/2019 5:03:44 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F4	MS/MSD RPD exceeds control limits due to sample size difference.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90948-1

Job ID: 720-90948-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90948-1

Comments
Revision created to link LCS/LCSD for GRO.

Receipt
The samples were received on 1/21/2019 5:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.3º C, 0.8º C, 1.7º C and 2.3º C.

GC/MS VOA
Method 8260B/CA_LUFTMS: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-524903 and analytical batches 440-524856 and 440-524855 were outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated perccemt RPD values were obtained.

Method 8260B/CA_LUFTMS: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: (720-90961-A-11-C MSD). The MS and parent sample's surrogate recovery was within limits. The MSD sample has been qualified and reported. Matrix interference was suspected

Method 8260B/CA_LUFTMS: Surrogate Dibromofluoromethane recovery for the following sample was outside control limits: DG-AI11S-9.5-10 (720-90948-8). Re-analysis was performed with concurring results.

Method 8260B/CA_LUFTMS: The gasoline standard for the spike compound C4-C12 was omitted during the preparation of the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for analytical batch 440-525148. The associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) met the acceptance criteria.

(LCSD 440-525148/8)

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-525143 recovered outside control limits for the following analyte: Trichloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-525161 and analytical batch 440-525143 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples wrere diluted due to the abundance of non-target analytes: DG-AE11S-0.5-1 (720-90948-1), DG-AE11S-3.5-4 (720-90948-2), DG-AG11S-0.5-1 (720-90948-3), DG-AG11S-3.5-4 (720-90948-4), DG-AG11S-9.5-10 (720-90948-5), DG-AI11S-0.5-1 (720-90948-6), DG-AI11S-3.5-4 (720-90948-7), and DG-AI11S-9.5-10 (720-90948-8). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258941 and analytical batch 720-259125 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081A: Surrogate recovery for the following sample was outside control limits: DG-AI11S-3.5-4 (720-90948-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 720-90948-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 8081A: The following samples were diluted due to the abundance of non-target analytes: DG-AE11S-3.5-4 (720-90948-2), DG-AG11S-0.5-1 (720-90948-3), DG-AI11S-3.5-4 (720-90948-7), DG-AI11S-3.5-4 (720-90948-7[MS]), DG-AI11S-3.5-4 (720-90948-7[MSD]), and DG-AI11S-9.5-10 (720-90948-8). Elevated reporting limits (RLs) are provided.

Method 8081A: The following sample required a dilution due to the nature of the sample matrix: DG-AI11S-9.5-10 (720-90948-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259253 and analytical batch 720-259371 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 8081A: The percent RPD between the primary and confirmation column / detector exceeded 40% for trans-Chlordane for the following sample: DG-AG11S-0.5-1 (720-90948-3). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-AE11S-3.5-4 (720-90948-2), DG-AG11S-0.5-1 (720-90948-3), DG-AG11S-9.5-10 (720-90948-5), DG-AI11S-3.5-4 (720-90948-7), DG-AI11S-3.5-4 (720-90948-7[MS]), DG-AI11S-3.5-4 (720-90948-7[MSD]) and DG-AI11S-9.5-10 (720-90948-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: Due to the high concentration of Diesel Range Organics [C10-C28], the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-259352 and analytical batch 720-259447 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AG11S-0.5-1 (720-90948-3), DG-AG11S-3.5-4 (720-90948-4), DG-AG11S-9.5-10 (720-90948-5), DG-AI11S-3.5-4 (720-90948-7), DG-AI11S-3.5-4 (720-90948-7[MS]), DG-AI11S-3.5-4 (720-90948-7[MSD]) and DG-AI11S-9.5-10 (720-90948-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The method blank for preparation batch 720-259050 and analytical batch 720-259443 contained Barium, Chromium, Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259050 and analytical batch 720-259443 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259443 was outside control limits for Cobalt (12%): (720-90948-E-7-F SD ^2)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AE11S-0.5-1 (720-90948-1), DG-AE11S-3.5-4 (720-90948-2),DG-AG11S-0.5-1 (720-90948-3), DG-AG11S-3.5-4 (720-90948-4), DG-AG11S-9.5-10 (720-90948-5), DG-AI11S-0.5-1 (720-90948-6), DG-AI11S-3.5-4 (720-90948-7), DG-AI11S-9.5-10 (720-90948-8). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259443 contained Lead above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected results are qualified with a ^ symbol.

Method 6010B: The method blank for preparation batch 720-259069 and analytical batch 720-259534 contained Cobalt, Nickel, Antimony, and Selenium above the method detection limit. The target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Job ID: 720-90948-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259069 and analytical batch 720-259534 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259534 was outside control limits for Arsenic (16%), Cobalt (18%,) Chromium (15%), Copper (11%), Nickel (16%), Lead (16%), Vanadium (13%), and Zinc (15%): (720-90949-E-6-A SD)

Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 720-259534 contained Thallium above the reporting lim (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB. Therefore, re-analysis of samples was not performed. Affected results are qualified witl a ^ symbol.

Method(s) 6010B: Internal standard responses were outside of acceptance limits for the following samples: (ICSA 720-259534/7) and (ICSAB 720-259534/8).

Method 7471A: The method blank for preparation batch 720-259049 and analytical batch 720-259475 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546/8015B: Due to matrix interferences, the following samples could not be concentrated to the final method required volume and were volumed to 5 mL. DG-AI11S-3.5-4 (720-90948-7), DG-AI11S-3.5-4 (720-90948-7[MS]) and DG-AI11S-3.5-4 (720-90948-7[MSD]). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90948-1

Client Sample ID: DG-AE11S-0.5-1 — Lab Sample ID: 720-90948-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	460		73	51	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Acenaphthene	28		24	13	ug/Kg	5		8270C SIM	Total/NA
Anthracene	18	J	24	9.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	41		24	7.1	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	44		24	9.0	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	53		24	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	24		24	20	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	25		24	9.9	ug/Kg	5		8270C SIM	Total/NA
Chrysene	42		24	6.6	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	65		24	6.6	ug/Kg	5		8270C SIM	Total/NA
Fluorene	21	J	24	10	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	73		24	8.5	ug/Kg	5		8270C SIM	Total/NA
Pyrene	71		24	8.0	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	170		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130		47	9.5	mg/Kg	1		8015B	Total/NA
Antimony	0.50	J	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	2.6		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	24	B	1.0	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	27	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	4.2		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	10		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	17	B ^	1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.16	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	20		1.0	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	32		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.040	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE11S-3.5-4 — Lab Sample ID: 720-90948-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	150		80	56	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Benzo[a]anthracene	46	J	94	28	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	75	J	94	36	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	61	J	94	39	ug/Kg	20		8270C SIM	Total/NA
Chrysene	85	J	94	26	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	52	J	94	26	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	56	J	94	34	ug/Kg	20		8270C SIM	Total/NA
Pyrene	320		94	32	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	390		20	7.3	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	900		490	98	mg/Kg	10		8015B	Total/NA
Antimony	1.3	J B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	2.8	J	3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	31		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.16	J	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	10	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.2	B	0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	120		4.7	2.2	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE11S-3.5-4 (Continued) — Lab Sample ID: 720-90948-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	28		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	9.1	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J B	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	95		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	41		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG11S-0.5-1 — Lab Sample ID: 720-90948-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	75	J	97	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	180		97	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	200		97	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	150		97	83	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	74	J	97	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	87	J	97	27	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	83	J	97	27	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	39	J	97	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	160		97	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	420		19	7.1	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1000		470	94	mg/Kg	10		8015B	Total/NA
4,4'-DDD	3.3	J	3.8	1.1	ug/Kg	2		8081A	Total/NA
4,4'-DDT	3.4	J	3.8	0.77	ug/Kg	2		8081A	Total/NA
alpha-Chlordane	2.1	J	3.8	0.75	ug/Kg	2		8081A	Total/NA
gamma-Chlordane	2.4	J p	3.8	0.86	ug/Kg	2		8081A	Total/NA
Aroclor 1260	28	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	1.0	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	26		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	68	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.089	J	0.25	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.51		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	25	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	5.8		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	70		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	190	B ^	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.42	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	21		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.25	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	130		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.10	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG11S-3.5-4 — Lab Sample ID: 720-90948-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.8		7.2	3.6	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	31	J	49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	39	J	49	20	ug/Kg	10		8270C SIM	Total/NA
Chrysene	32	J	49	14	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	31	J	49	14	ug/Kg	10		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG11S-3.5-4 (Continued) — Lab Sample ID: 720-90948-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	23	J	49	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	50		49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	180		5.8	2.2	mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	410		140	29	mg/Kg	3		8015B	Total/NA
Antimony	3.1		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	87		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	79	B	1.9	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.44	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	22	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	6.4		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	80		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	240	B ^	1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	25		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.96	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Silver	0.52	J	0.93	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	170		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.064	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG11S-9.5-10 — Lab Sample ID: 720-90948-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	160000		16000	11000	ug/Kg	200		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	99	J	160	78	ug/Kg	200		8260B	Total/NA
n-Butylbenzene	160	J	390	160	ug/Kg	200		8260B	Total/NA
N-Propylbenzene	120	J	160	78	ug/Kg	200		8260B	Total/NA
sec-Butylbenzene	110	J	390	78	ug/Kg	200		8260B	Total/NA
2-Methylnaphthalene	1500		960	480	ug/Kg	100		8270C SIM	Total/NA
Acenaphthene	1900		480	270	ug/Kg	100		8270C SIM	Total/NA
Acenaphthylene	370	J	480	230	ug/Kg	100		8270C SIM	Total/NA
Anthracene	1700		480	190	ug/Kg	100		8270C SIM	Total/NA
Benzo[a]anthracene	790		480	140	ug/Kg	100		8270C SIM	Total/NA
Benzo[a]pyrene	510		480	180	ug/Kg	100		8270C SIM	Total/NA
Benzo[b]fluoranthene	260	J	480	200	ug/Kg	100		8270C SIM	Total/NA
Chrysene	1400		480	130	ug/Kg	100		8270C SIM	Total/NA
Fluoranthene	500		480	130	ug/Kg	100		8270C SIM	Total/NA
Fluorene	3500		480	210	ug/Kg	100		8270C SIM	Total/NA
Naphthalene	1500		480	340	ug/Kg	100		8270C SIM	Total/NA
Phenanthrene	7500		480	170	ug/Kg	100		8270C SIM	Total/NA
Pyrene	4100		480	160	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	9500		200	74	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	8700		5000	990	mg/Kg	100		8015B	Total/NA
Antimony	3.4		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	460	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.27	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.85		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	47	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	4.6		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	140		4.7	2.2	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG11S-9.5-10 (Continued) — Lab Sample ID: 720-90948-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	920	B ^	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	37		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.76	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Silver	1.7		0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	650		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.20	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI11S-0.5-1 — Lab Sample ID: 720-90948-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3	J	1.5	0.73	ug/Kg	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	24		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	78		50	9.9	mg/Kg	1		8015B	Total/NA
Barium	21	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	7.9	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	81		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	1.2	J B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	6.9		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	41		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.046	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI11S-3.5-4 — Lab Sample ID: 720-90948-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	46000		8200	5700	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Acenaphthene	520		250	140	ug/Kg	50		8270C SIM	Total/NA
Anthracene	650		250	98	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]anthracene	330		250	74	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	440		250	94	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	200	J	250	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	240	J F1	250	210	ug/Kg	50		8270C SIM	Total/NA
Chrysene	740	F1	250	69	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	490	F1	250	69	ug/Kg	50		8270C SIM	Total/NA
Fluorene	470		250	110	ug/Kg	50		8270C SIM	Total/NA
Naphthalene	180	J	250	170	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	1100	F1	250	89	ug/Kg	50		8270C SIM	Total/NA
Pyrene	2200	F1	250	84	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	10000	F2	500	190	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	14000		12000	2500	mg/Kg	100		8015B	Total/NA
Antimony	3.2	F1 F2	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	15	F1	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	250	B F2	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.80		0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	18	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	160	F1	5.4	2.5	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AI11S-3.5-4 (Continued) — Lab Sample ID: 720-90948-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	540	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.64	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	20		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Silver	1.1		0.89	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	60	F1	1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	400		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.31	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI11S-9.5-10 — Lab Sample ID: 720-90948-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	460		110	77	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	0.77	J	1.1	0.55	ug/Kg	1		8260B	Total/NA
Naphthalene	2.1	J	2.2	1.1	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	16000		980	490	ug/Kg	100		8270C SIM	Total/NA
Acenaphthene	2600		490	270	ug/Kg	100		8270C SIM	Total/NA
Acenaphthylene	410	J	490	230	ug/Kg	100		8270C SIM	Total/NA
Anthracene	2800		490	200	ug/Kg	100		8270C SIM	Total/NA
Benzo[a]anthracene	1900		490	150	ug/Kg	100		8270C SIM	Total/NA
Benzo[a]pyrene	850		490	190	ug/Kg	100		8270C SIM	Total/NA
Benzo[b]fluoranthene	280	J	490	210	ug/Kg	100		8270C SIM	Total/NA
Benzo[g,h,i]perylene	440	J	490	420	ug/Kg	100		8270C SIM	Total/NA
Chrysene	3400		490	140	ug/Kg	100		8270C SIM	Total/NA
Fluoranthene	800		490	140	ug/Kg	100		8270C SIM	Total/NA
Fluorene	3200		490	210	ug/Kg	100		8270C SIM	Total/NA
Naphthalene	1200		490	340	ug/Kg	100		8270C SIM	Total/NA
Phenanthrene	11000		490	180	ug/Kg	100		8270C SIM	Total/NA
Pyrene	6800		490	170	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5200		190	71	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	5100		4800	950	mg/Kg	100		8015B	Total/NA
Antimony	0.54	J B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	6.4		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	100		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	60	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	10	B	0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	33		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	46		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.32	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	84	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	67		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.053		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE11S-0.5-1
Date Collected: 01/21/19 12:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	460		73	51	ug/Kg		01/21/19 20:00	01/25/19 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*60 - 120*	*01/21/19 20:00*	*01/25/19 13:22*	*1*
4-Bromofluorobenzene (Surr)	*84*		*79 - 120*	*01/21/19 20:00*	*01/25/19 13:22*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 13:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
2-Hexanone	ND		7.3	3.6	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
4-Isopropyltoluene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Benzene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Bromoform	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Chloroform	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Dibromomethane	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1

Client Sample ID: DG-AE11S-0.5-1
Date Collected: 01/21/19 12:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Styrene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Tetrachloroethene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Toluene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Trichloroethene	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Xylenes, Total	ND		1.5	0.95	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		01/21/19 20:00	01/25/19 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/21/19 20:00	01/25/19 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 13:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/21/19 20:00*	*01/25/19 13:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		47	24	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Acenaphthene	**28**		24	13	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Acenaphthylene	ND		24	11	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Anthracene	**18**	**J**	24	9.5	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Benzo[a]anthracene	**41**		24	7.1	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Benzo[a]pyrene	**44**		24	9.0	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Benzo[b]fluoranthene	**53**		24	9.9	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Benzo[g,h,i]perylene	**24**		24	20	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Benzo[k]fluoranthene	**25**		24	9.9	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Chrysene	**42**		24	6.6	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Dibenz(a,h)anthracene	ND		24	17	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Fluoranthene	**65**		24	6.6	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Fluorene	**21**	**J**	24	10	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Indeno[1,2,3-cd]pyrene	ND		24	20	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Naphthalene	ND		24	17	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Phenanthrene	**73**		24	8.5	ug/Kg		01/22/19 10:21	01/26/19 01:25	5
Pyrene	**71**		24	8.0	ug/Kg		01/22/19 10:21	01/26/19 01:25	5

Client Sample ID: DG-AE11S-0.5-1

Date Collected: 01/21/19 12:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-1

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		33 - 120	01/22/19 10:21	01/26/19 01:25	5
Terphenyl-d14	104		35 - 146	01/22/19 10:21	01/26/19 01:25	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		1.9	0.71	mg/Kg		01/28/19 15:35	02/04/19 11:56	1
Motor Oil Range Organics [C24-C36]	130		47	9.5	mg/Kg		01/28/19 15:35	02/04/19 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	79		40 - 130	01/28/19 15:35	02/04/19 11:56	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Aldrin	ND		1.9	0.48	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Endrin	ND		1.9	0.45	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/25/19 13:57	02/01/19 09:27	1
Toxaphene	ND		39	6.6	ug/Kg		01/25/19 13:57	02/01/19 09:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		21 - 136	01/25/19 13:57	02/01/19 09:27	1
Tetrachloro-m-xylene	77		21 - 145	01/25/19 13:57	02/01/19 09:27	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 17:36	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 17:36	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 17:36	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 17:36	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 17:36	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 17:36	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 17:36	1

Client Sample ID: DG-AE11S-0.5-1

Date Collected: 01/21/19 12:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*01/23/19 14:51*	*01/24/19 17:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.50**	**J**	1.0	0.17	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Arsenic	**2.6**		2.1	0.18	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Barium	**24**	**B**	1.0	0.15	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Beryllium	ND		0.21	0.068	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Cadmium	**0.13**	**J**	0.26	0.026	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Chromium	**27**	**B**	1.0	0.11	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Cobalt	**4.2**		0.42	0.042	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Copper	**10**		3.1	1.5	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Lead	**17**	**B ^**	1.0	0.22	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Molybdenum	**0.16**	**J**	1.0	0.13	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Nickel	**20**		1.0	0.11	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Selenium	ND		2.1	0.31	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Silver	ND		0.52	0.11	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Thallium	ND		1.0	0.30	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Vanadium	**26**		1.0	0.14	mg/Kg		01/24/19 09:37	01/29/19 20:02	4
Zinc	**32**		3.1	1.3	mg/Kg		01/24/19 09:37	01/29/19 20:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.040**	**B**	0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AE11S-3.5-4

Date Collected: 01/21/19 12:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	150		80	56	ug/Kg		01/26/19 12:50	01/26/19 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*60 - 120*	*01/26/19 12:50*	*01/26/19 15:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*79 - 120*	*01/26/19 12:50*	*01/26/19 15:50*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/26/19 12:50*	*01/26/19 15:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
2-Hexanone	ND		8.0	4.0	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Benzene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Bromobenzene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Bromoform	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Bromomethane	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Carbon disulfide	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Chloroethane	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Chloroform	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Chloromethane	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Dibromomethane	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1

Client Sample ID: DG-AE11S-3.5-4
Date Collected: 01/21/19 12:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Naphthalene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Styrene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Tetrachloroethene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Toluene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Trichloroethene	ND	*	0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
2-Butanone (MEK)	ND		8.0	4.0	ug/Kg		01/26/19 12:50	01/26/19 15:50	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/26/19 12:50	01/26/19 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/26/19 12:50*	*01/26/19 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/26/19 12:50*	*01/26/19 15:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	94	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Acenaphthene	ND		94	53	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Acenaphthylene	ND		94	45	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Anthracene	ND		94	38	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Benzo[a]anthracene	**46**	**J**	94	28	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Benzo[a]pyrene	**75**	**J**	94	36	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Benzo[b]fluoranthene	**61**	**J**	94	39	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Benzo[g,h,i]perylene	ND		94	81	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Benzo[k]fluoranthene	ND		94	39	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Chrysene	**85**	**J**	94	26	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Dibenz(a,h)anthracene	ND		94	66	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Fluoranthene	**52**	**J**	94	26	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Fluorene	ND		94	41	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Indeno[1,2,3-cd]pyrene	ND		94	79	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Naphthalene	ND		94	66	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Phenanthrene	**56**	**J**	94	34	ug/Kg		01/22/19 10:21	01/26/19 01:48	20
Pyrene	**320**		94	32	ug/Kg		01/22/19 10:21	01/26/19 01:48	20

Client Sample ID: DG-AE11S-3.5-4

Date Collected: 01/21/19 12:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		33 - 120	01/22/19 10:21	01/26/19 01:48	20
Terphenyl-d14	108		35 - 146	01/22/19 10:21	01/26/19 01:48	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	390		20	7.3	mg/Kg		01/28/19 15:35	02/01/19 15:51	10
Motor Oil Range Organics [C24-C36]	900		490	98	mg/Kg		01/28/19 15:35	02/01/19 15:51	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/01/19 15:51	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	1.2	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
4,4'-DDE	ND		3.8	0.81	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
4,4'-DDT	ND		3.8	0.79	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Aldrin	ND		3.8	0.96	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
alpha-BHC	ND		3.8	1.1	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
alpha-Chlordane	ND		3.8	0.77	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
beta-BHC	ND		3.8	0.69	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Chlordane (n.o.s.)	ND		77	5.6	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Chlordane (technical)	ND		77	6.1	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
delta-BHC	ND		3.8	0.85	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Dieldrin	ND		3.8	1.1	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Endosulfan I	ND		3.8	0.61	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Endosulfan II	ND		3.8	0.94	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Endosulfan sulfate	ND		3.8	0.73	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Endrin	ND		3.8	0.88	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Endrin aldehyde	ND		3.8	1.2	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Endrin ketone	ND		3.8	0.63	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
gamma-BHC (Lindane)	ND		3.8	1.2	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
gamma-Chlordane	ND		3.8	0.88	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Heptachlor	ND		3.8	0.88	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Heptachlor epoxide	ND		3.8	0.67	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Methoxychlor	ND		3.8	1.3	ug/Kg		01/25/19 13:57	02/01/19 09:45	2
Toxaphene	ND		77	13	ug/Kg		01/25/19 13:57	02/01/19 09:45	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		21 - 136	01/25/19 13:57	02/01/19 09:45	2
Tetrachloro-m-xylene	77		21 - 145	01/25/19 13:57	02/01/19 09:45	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 17:51	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 17:51	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 17:51	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 17:51	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 17:51	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 17:51	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 17:51	1

Client Sample ID: DG-AE11S-3.5-4

Date Collected: 01/21/19 12:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*01/23/19 14:51*	*01/24/19 17:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**	**J B**	1.6	0.26	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Arsenic	**2.8**	**J**	3.1	0.27	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Barium	**31**		1.6	0.22	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Beryllium	ND		0.31	0.10	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Cadmium	**0.16**	**J**	0.39	0.039	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Chromium	**10**	**B**	1.6	0.17	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Cobalt	**9.2**	**B**	0.63	0.063	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Copper	**120**		4.7	2.2	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Lead	**28**		1.6	0.33	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Nickel	**9.1**	**B**	1.6	0.16	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Selenium	**0.54**	**J B**	3.1	0.47	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Silver	ND		0.78	0.16	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Thallium	ND		1.6	0.45	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Vanadium	**95**		1.6	0.21	mg/Kg		01/24/19 09:37	01/30/19 17:59	4
Zinc	**41**		4.7	2.0	mg/Kg		01/24/19 09:37	01/30/19 17:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.4**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AG11S-0.5-1

Date Collected: 01/21/19 13:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	53	ug/Kg		01/21/19 20:00	01/25/19 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*60 - 120*	*01/21/19 20:00*	*01/25/19 14:15*	*1*
4-Bromofluorobenzene (Surr)	*93*		*79 - 120*	*01/21/19 20:00*	*01/25/19 14:15*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 14:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.6	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,2,3-Trichlorobenzene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,2,4-Trichlorobenzene	ND		3.8	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,2,4-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,2-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,3,5-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,3-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,4-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
2,2-Dichloropropane	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
2-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
2-Hexanone	ND		7.6	3.8	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
4-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
4-Isopropyltoluene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Benzene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Bromobenzene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Bromoform	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Bromomethane	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Chloroethane	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Chloroform	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Chloromethane	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Dibromomethane	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1

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Lab Sample ID: 720-90948-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Hexachlorobutadiene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Naphthalene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
n-Butylbenzene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
N-Propylbenzene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
sec-Butylbenzene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Styrene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
tert-Butylbenzene	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Toluene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Trichloroethene	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Vinyl acetate	ND		6.1	3.0	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Xylenes, Total	ND		1.5	0.99	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
2-Butanone (MEK)	ND		7.6	3.8	ug/Kg		01/21/19 20:00	01/25/19 14:15	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/21/19 20:00	01/25/19 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 14:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/21/19 20:00*	*01/25/19 14:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	97	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Acenaphthene	ND		97	54	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Acenaphthylene	ND		97	46	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Anthracene	ND		97	39	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Benzo[a]anthracene	**75**	**J**	97	29	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Benzo[a]pyrene	**180**		97	37	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Benzo[b]fluoranthene	**200**		97	41	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Benzo[g,h,i]perylene	**150**		97	83	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Benzo[k]fluoranthene	**74**	**J**	97	41	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Chrysene	**87**	**J**	97	27	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Dibenz(a,h)anthracene	ND		97	68	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Fluoranthene	**83**	**J**	97	27	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Fluorene	ND		97	43	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Indeno[1,2,3-cd]pyrene	ND		97	81	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Naphthalene	ND		97	68	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Phenanthrene	**39**	**J**	97	35	ug/Kg		01/22/19 10:21	01/28/19 11:37	20
Pyrene	**160**		97	33	ug/Kg		01/22/19 10:21	01/28/19 11:37	20

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Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120	01/22/19 10:21	01/28/19 11:37	20
Terphenyl-d14	66		35 - 146	01/22/19 10:21	01/28/19 11:37	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**420**		19	7.1	mg/Kg		01/28/19 15:35	02/01/19 16:50	10
Motor Oil Range Organics [C24-C36]	**1000**		470	94	mg/Kg		01/28/19 15:35	02/01/19 16:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/01/19 16:50	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**3.3**	**J**	3.8	1.1	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
4,4'-DDE	ND		3.8	0.79	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
4,4'-DDT	**3.4**	**J**	3.8	0.77	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Aldrin	ND		3.8	0.94	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
alpha-BHC	ND		3.8	1.0	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
alpha-Chlordane	**2.1**	**J**	3.8	0.75	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
beta-BHC	ND		3.8	0.68	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Chlordane (n.o.s.)	ND		75	5.4	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Chlordane (technical)	ND		75	6.0	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
delta-BHC	ND		3.8	0.83	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Dieldrin	ND		3.8	1.1	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Endosulfan I	ND		3.8	0.60	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Endosulfan II	ND		3.8	0.92	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Endosulfan sulfate	ND		3.8	0.71	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Endrin	ND		3.8	0.86	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Endrin aldehyde	ND		3.8	1.2	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Endrin ketone	ND		3.8	0.62	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
gamma-BHC (Lindane)	ND		3.8	1.2	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
gamma-Chlordane	**2.4**	**J p**	3.8	0.86	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Heptachlor	ND		3.8	0.86	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Heptachlor epoxide	ND		3.8	0.66	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Methoxychlor	ND		3.8	1.3	ug/Kg		01/25/19 13:57	02/01/19 10:02	2
Toxaphene	ND		75	13	ug/Kg		01/25/19 13:57	02/01/19 10:02	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		21 - 136	01/25/19 13:57	02/01/19 10:02	2
Tetrachloro-m-xylene	70		21 - 145	01/25/19 13:57	02/01/19 10:02	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 13:25	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 13:25	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 13:25	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 13:25	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 13:25	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 13:25	1
Aroclor 1260	**28**	**J**	49	17	ug/Kg		01/23/19 14:51	01/25/19 13:25	1

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Lab Sample ID: 720-90948-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*01/23/19 14:51*	*01/25/19 13:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.3	0.21	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Arsenic	26		2.5	0.22	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Barium	68	B	1.3	0.18	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Beryllium	0.089	J	0.25	0.083	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Cadmium	0.51		0.32	0.032	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Chromium	25	B	1.3	0.14	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Cobalt	5.8		0.51	0.051	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Copper	70		3.8	1.8	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Lead	190	B ^	1.3	0.27	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Molybdenum	0.42	J	1.3	0.16	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Nickel	21		1.3	0.13	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Selenium	ND		2.5	0.38	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Silver	0.25	J	0.64	0.13	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Thallium	ND		1.3	0.37	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Vanadium	39		1.3	0.17	mg/Kg		01/24/19 09:37	01/29/19 20:12	4
Zinc	130		3.8	1.6	mg/Kg		01/24/19 09:37	01/29/19 20:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10	B	0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		0.1	0.05	%			01/23/19 10:10	1

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Lab Sample ID: 720-90948-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	51	ug/Kg		01/21/19 20:00	01/25/19 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*60 - 120*	*01/21/19 20:00*	*01/25/19 14:42*	*1*
4-Bromofluorobenzene (Surr)	*90*		*79 - 120*	*01/21/19 20:00*	*01/25/19 14:42*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/21/19 20:00*	*01/25/19 14:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,2,4-Trichlorobenzene	ND		3.6	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,2,4-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,3,5-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
2,2-Dichloropropane	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
2-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
2-Hexanone	ND		7.2	3.6	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
4-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
4-Isopropyltoluene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Benzene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Bromobenzene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Bromoform	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Bromomethane	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Chloroethane	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Chloroform	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Chloromethane	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Dibromomethane	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1

Client Sample ID: DG-AG11S-3.5-4
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Lab Sample ID: 720-90948-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Hexachlorobutadiene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Naphthalene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
n-Butylbenzene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
N-Propylbenzene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
sec-Butylbenzene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Styrene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
tert-Butylbenzene	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Tetrachloroethene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Toluene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Trichloroethene	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Xylenes, Total	ND		1.4	0.94	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
2-Butanone (MEK)	**7.8**		7.2	3.6	ug/Kg		01/21/19 20:00	01/25/19 14:42	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/21/19 20:00	01/25/19 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/21/19 20:00*	*01/25/19 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/21/19 20:00*	*01/25/19 14:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		98	49	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Acenaphthene	ND		49	27	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Acenaphthylene	ND		49	23	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Anthracene	ND		49	20	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Benzo[a]anthracene	ND		49	15	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Benzo[a]pyrene	**31**	**J**	49	19	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Benzo[b]fluoranthene	**39**	**J**	49	20	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Benzo[g,h,i]perylene	ND		49	42	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Benzo[k]fluoranthene	ND		49	20	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Chrysene	**32**	**J**	49	14	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Dibenz(a,h)anthracene	ND		49	34	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Fluoranthene	**31**	**J**	49	14	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Fluorene	ND		49	21	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Indeno[1,2,3-cd]pyrene	ND		49	41	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Naphthalene	ND		49	34	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Phenanthrene	**23**	**J**	49	18	ug/Kg		01/22/19 10:21	01/28/19 12:00	10
Pyrene	**50**		49	17	ug/Kg		01/22/19 10:21	01/28/19 12:00	10

Client Sample ID: DG-AG11S-3.5-4

Date Collected: 01/21/19 13:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-4

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		33 - 120	01/22/19 10:21	01/28/19 12:00	10
Terphenyl-d14	71		35 - 146	01/22/19 10:21	01/28/19 12:00	10

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	180		5.8	2.2	mg/Kg		01/28/19 15:35	02/04/19 12:55	3
Motor Oil Range Organics [C24-C36]	410		140	29	mg/Kg		01/28/19 15:35	02/04/19 12:55	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	75		40 - 130	01/28/19 15:35	02/04/19 12:55	3

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Aldrin	ND		1.9	0.48	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Endrin	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/25/19 13:57	02/01/19 10:20	1
Toxaphene	ND		38	6.5	ug/Kg		01/25/19 13:57	02/01/19 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		21 - 136	01/25/19 13:57	02/01/19 10:20	1
Tetrachloro-m-xylene	68		21 - 145	01/25/19 13:57	02/01/19 10:20	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:38	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:38	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:38	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:38	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:38	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:38	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:38	1

Client Sample ID: DG-AG11S-3.5-4

Date Collected: 01/21/19 13:30
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Lab Sample ID: 720-90948-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*01/23/19 14:51*	*01/25/19 13:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.1**		1.9	0.31	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Arsenic	**87**		3.7	0.31	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Barium	**79**	**B**	1.9	0.26	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Beryllium	ND		0.37	0.12	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Cadmium	**0.44**	**J**	0.46	0.046	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Chromium	**22**	**B**	1.9	0.20	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Cobalt	**6.4**		0.74	0.074	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Copper	**80**		5.6	2.6	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Lead	**240**	**B ^**	1.9	0.39	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Nickel	**25**		1.9	0.19	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Selenium	**0.96**	**J**	3.7	0.56	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Silver	**0.52**	**J**	0.93	0.19	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Thallium	ND		1.9	0.54	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Vanadium	**31**		1.9	0.25	mg/Kg		01/24/19 09:37	01/29/19 20:16	4
Zinc	**170**		5.6	2.4	mg/Kg		01/24/19 09:37	01/29/19 20:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.064**	**B**	0.016	0.0024	mg/Kg		01/29/19 12:33	01/29/19 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.8**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AG11S-9.5-10

Date Collected: 01/21/19 13:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	160000		16000	11000	ug/Kg		01/23/19 14:08	01/26/19 15:56	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*55 - 140*	*01/23/19 14:08*	*01/26/19 15:56*	*200*
4-Bromofluorobenzene (Surr)	*88*		*65 - 140*	*01/23/19 14:08*	*01/26/19 15:56*	*200*
Toluene-d8 (Surr)	*103*		*60 - 140*	*01/23/19 14:08*	*01/26/19 15:56*	*200*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		780	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,1,1,2-Tetrachloroethane	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,1,1-Trichloroethane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,1,2,2-Tetrachloroethane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,1,2-Trichloroethane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,1-Dichloroethane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,1-Dichloroethene	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,1-Dichloropropene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,2,3-Trichlorobenzene	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,2,4-Trichlorobenzene	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,2,4-Trimethylbenzene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,2-Dibromo-3-Chloropropane	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,2-Dichlorobenzene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,2-Dichloroethane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,2-Dichloropropane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,3,5-Trimethylbenzene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,3-Dichlorobenzene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,3-Dichloropropane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,4-Dichlorobenzene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
2,2-Dichloropropane	ND		310	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
2-Chlorotoluene	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
2-Hexanone	ND		2000	780	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
4-Chlorotoluene	ND		390	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
4-Isopropyltoluene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Benzene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Bromobenzene	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Bromoform	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Bromomethane	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Carbon disulfide	ND		390	200	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Carbon tetrachloride	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Chlorobenzene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Chlorobromomethane	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Chloroethane	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Chloroform	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Chloromethane	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
cis-1,2-Dichloroethene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
cis-1,3-Dichloropropene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Chlorodibromomethane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Dibromomethane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Dichlorobromomethane	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200

Client Sample ID: DG-AG11S-9.5-10

Date Collected: 01/21/19 13:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Ethylbenzene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Hexachlorobutadiene	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Isopropylbenzene	**99**	**J**	160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Methylene Chloride	ND		1600	780	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Methyl tert-butyl ether	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Naphthalene	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
n-Butylbenzene	**160**	**J**	390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
N-Propylbenzene	**120**	**J**	160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
sec-Butylbenzene	**110**	**J**	390	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Styrene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
tert-Butylbenzene	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Tetrachloroethene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Toluene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
trans-1,2-Dichloroethene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
trans-1,3-Dichloropropene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Trichloroethene	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Trichlorofluoromethane	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		780	310	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Vinyl acetate	ND		780	390	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Vinyl chloride	ND		390	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Xylenes, Total	ND		310	160	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
Ethylene Dibromide	ND		160	78	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
2-Butanone (MEK)	ND		1600	780	ug/Kg		01/23/19 14:08	01/26/19 15:56	200
4-Methyl-2-pentanone (MIBK)	ND		780	310	ug/Kg		01/23/19 14:08	01/26/19 15:56	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*60 - 140*	*01/23/19 14:08*	*01/26/19 15:56*	*200*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*	*01/23/19 14:08*	*01/26/19 15:56*	*200*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**1500**		960	480	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Acenaphthene	**1900**		480	270	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Acenaphthylene	**370**	**J**	480	230	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Anthracene	**1700**		480	190	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Benzo[a]anthracene	**790**		480	140	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Benzo[a]pyrene	**510**		480	180	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Benzo[b]fluoranthene	**260**	**J**	480	200	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Benzo[g,h,i]perylene	ND		480	410	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Benzo[k]fluoranthene	ND		480	200	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Chrysene	**1400**		480	130	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Dibenz(a,h)anthracene	ND		480	340	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Fluoranthene	**500**		480	130	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Fluorene	**3500**		480	210	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Indeno[1,2,3-cd]pyrene	ND		480	400	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Naphthalene	**1500**		480	340	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Phenanthrene	**7500**		480	170	ug/Kg		01/22/19 10:21	01/26/19 00:14	100
Pyrene	**4100**		480	160	ug/Kg		01/22/19 10:21	01/26/19 00:14	100

Client Sample ID: DG-AG11S-9.5-10

Date Collected: 01/21/19 13:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-5

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		33 - 120	01/22/19 10:21	01/26/19 00:14	100
Terphenyl-d14	98		35 - 146	01/22/19 10:21	01/26/19 00:14	100

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9500		200	74	mg/Kg		01/28/19 15:35	02/01/19 14:53	100
Motor Oil Range Organics [C24-C36]	8700		5000	990	mg/Kg		01/28/19 15:35	02/01/19 14:53	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/01/19 14:53	100

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Aldrin	ND		2.0	0.49	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Endrin	ND		2.0	0.45	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/25/19 13:57	02/01/19 10:38	1
Toxaphene	ND		40	6.7	ug/Kg		01/25/19 13:57	02/01/19 10:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		21 - 136	01/25/19 13:57	02/01/19 10:38	1
Tetrachloro-m-xylene	84		21 - 145	01/25/19 13:57	02/01/19 10:38	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 16:50	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 16:50	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 16:50	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 16:50	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 16:50	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 16:50	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 16:50	1

Client Sample ID: DG-AG11S-9.5-10

Date Collected: 01/21/19 13:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*45*		*45 - 120*	*01/23/19 14:51*	*01/25/19 16:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.4**		1.6	0.26	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Arsenic	**13**		3.1	0.26	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Barium	**460**	**B**	1.6	0.22	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Beryllium	**0.27**	**J**	0.31	0.10	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Cadmium	**0.85**		0.39	0.038	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Chromium	**47**	**B**	1.6	0.16	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Cobalt	**4.6**		0.62	0.062	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Copper	**140**		4.7	2.2	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Lead	**920**	**B ^**	1.6	0.33	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Nickel	**37**		1.6	0.16	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Selenium	**0.76**	**J**	3.1	0.47	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Silver	**1.7**		0.78	0.16	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Thallium	ND		1.6	0.45	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Vanadium	**40**		1.6	0.21	mg/Kg		01/24/19 09:37	01/29/19 20:21	4
Zinc	**650**		4.7	2.0	mg/Kg		01/24/19 09:37	01/29/19 20:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**	**B**	0.015	0.0022	mg/Kg		01/29/19 12:33	01/29/19 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.6**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AI11S-0.5-1

Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		150	100	ug/Kg		01/26/19 12:50	01/26/19 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*60 - 120*	*01/26/19 12:50*	*01/26/19 16:17*	*1*
4-Bromofluorobenzene (Surr)	*88*		*79 - 120*	*01/26/19 12:50*	*01/26/19 16:17*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/26/19 12:50*	*01/26/19 16:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		15	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,1,1,2-Tetrachloroethane	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,1,1-Trichloroethane	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,1,2,2-Tetrachloroethane	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,1,2-Trichloroethane	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,1-Dichloroethane	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,1-Dichloroethene	ND		2.9	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,1-Dichloropropene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,2,3-Trichlorobenzene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,2,4-Trichlorobenzene	ND		7.3	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,2,4-Trimethylbenzene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,2-Dibromo-3-Chloropropane	ND		7.3	2.9	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,2-Dichlorobenzene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,2-Dichloroethane	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,3,5-Trimethylbenzene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,3-Dichlorobenzene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,3-Dichloropropane	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,4-Dichlorobenzene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
2,2-Dichloropropane	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
2-Chlorotoluene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
2-Hexanone	ND		15	7.3	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
4-Chlorotoluene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
4-Isopropyltoluene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Benzene	**1.3**	**J**	1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Bromobenzene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Bromoform	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Bromomethane	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Carbon disulfide	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Carbon tetrachloride	ND		2.9	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Chlorobenzene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Chlorobromomethane	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Chloroethane	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Chloroform	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Chloromethane	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
cis-1,2-Dichloroethene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
cis-1,3-Dichloropropene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Chlorodibromomethane	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Dibromomethane	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Dichlorobromomethane	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1

Client Sample ID: DG-AI11S-0.5-1

Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Ethylbenzene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Hexachlorobutadiene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Isopropylbenzene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Methylene Chloride	ND		15	7.3	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Methyl tert-butyl ether	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Naphthalene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
n-Butylbenzene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
N-Propylbenzene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
sec-Butylbenzene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Styrene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
tert-Butylbenzene	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Tetrachloroethene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Toluene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
trans-1,2-Dichloroethene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
trans-1,3-Dichloropropene	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Trichloroethene	ND	*	1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Trichlorofluoromethane	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15	7.3	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Vinyl acetate	ND		12	5.8	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Vinyl chloride	ND		2.9	1.5	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Xylenes, Total	ND		2.9	1.9	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
Ethylene Dibromide	ND		1.5	0.73	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
2-Butanone (MEK)	ND		15	7.3	ug/Kg		01/26/19 12:50	01/26/19 16:17	1
4-Methyl-2-pentanone (MIBK)	ND		7.3	3.6	ug/Kg		01/26/19 12:50	01/26/19 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/26/19 12:50*	*01/26/19 16:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*	*01/26/19 12:50*	*01/26/19 16:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		20	9.9	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Acenaphthene	ND		9.9	5.5	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Acenaphthylene	ND		9.9	4.8	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Anthracene	ND		9.9	4.0	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Benzo[a]anthracene	ND		9.9	3.0	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Benzo[a]pyrene	ND		9.9	3.8	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Benzo[b]fluoranthene	ND		9.9	4.2	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Benzo[g,h,i]perylene	ND		9.9	8.5	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Benzo[k]fluoranthene	ND		9.9	4.2	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Chrysene	ND		9.9	2.8	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Dibenz(a,h)anthracene	ND		9.9	6.9	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Fluoranthene	ND		9.9	2.8	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Fluorene	ND		9.9	4.4	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Indeno[1,2,3-cd]pyrene	ND		9.9	8.3	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Naphthalene	ND		9.9	6.9	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Phenanthrene	ND		9.9	3.6	ug/Kg		01/22/19 10:21	01/28/19 12:24	2
Pyrene	ND		9.9	3.4	ug/Kg		01/22/19 10:21	01/28/19 12:24	2

Client Sample ID: DG-AI11S-0.5-1

Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-6

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		33 - 120	01/22/19 10:21	01/28/19 12:24	2
Terphenyl-d14	73		35 - 146	01/22/19 10:21	01/28/19 12:24	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	24		2.0	0.74	mg/Kg		01/28/19 15:35	02/04/19 12:26	1
Motor Oil Range Organics [C24-C36]	78		50	9.9	mg/Kg		01/28/19 15:35	02/04/19 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	85		40 - 130	01/28/19 15:35	02/04/19 12:26	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Aldrin	ND		2.0	0.49	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Endrin	ND		2.0	0.45	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/25/19 13:57	02/01/19 10:55	1
Toxaphene	ND		39	6.7	ug/Kg		01/25/19 13:57	02/01/19 10:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		21 - 136	01/25/19 13:57	02/01/19 10:55	1
Tetrachloro-m-xylene	83		21 - 145	01/25/19 13:57	02/01/19 10:55	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 18:49	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 18:49	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 18:49	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 18:49	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 18:49	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 18:49	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 18:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90948-1

Client Sample ID: DG-AI11S-0.5-1
Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-6
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*01/23/19 14:51*	*01/24/19 18:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Arsenic	ND		3.2	0.27	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Barium	**21**	**B**	1.6	0.23	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Beryllium	ND		0.32	0.10	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Cadmium	ND		0.40	0.039	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Chromium	**7.9**	**B**	1.6	0.17	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Cobalt	**11**		0.63	0.063	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Copper	**81**		4.8	2.3	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Lead	**1.2**	**J B**	1.6	0.33	mg/Kg		01/24/19 09:37	01/31/19 12:16	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Nickel	**6.9**		1.6	0.16	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Selenium	ND		3.2	0.48	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Silver	ND		0.79	0.16	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Thallium	ND		1.6	0.46	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Vanadium	**87**		1.6	0.22	mg/Kg		01/24/19 09:37	01/29/19 20:26	4
Zinc	**41**		4.8	2.0	mg/Kg		01/24/19 09:37	01/29/19 20:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**	**B**	0.016	0.0023	mg/Kg		01/29/19 12:33	01/29/19 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AI11S-3.5-4
Date Collected: 01/21/19 14:30
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Lab Sample ID: 720-90948-7
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	46000		8200	5700	ug/Kg		01/23/19 14:08	01/26/19 14:33	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*55 - 140*	*01/23/19 14:08*	*01/26/19 14:33*	*100*
4-Bromofluorobenzene (Surr)	*94*		*65 - 140*	*01/23/19 14:08*	*01/26/19 14:33*	*100*
Toluene-d8 (Surr)	*96*		*60 - 140*	*01/23/19 14:08*	*01/26/19 14:33*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		410	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,1,1,2-Tetrachloroethane	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,1,1-Trichloroethane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,1,2,2-Tetrachloroethane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,1,2-Trichloroethane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,1-Dichloroethane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,1-Dichloroethene	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,1-Dichloropropene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,2,3-Trichlorobenzene	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,2,4-Trichlorobenzene	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,2,4-Trimethylbenzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,2-Dibromo-3-Chloropropane	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,2-Dichlorobenzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,2-Dichloroethane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,2-Dichloropropane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,3,5-Trimethylbenzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,3-Dichlorobenzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,3-Dichloropropane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,4-Dichlorobenzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
2,2-Dichloropropane	ND		160	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
2-Chlorotoluene	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
2-Hexanone	ND		1000	410	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
4-Chlorotoluene	ND		200	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
4-Isopropyltoluene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Benzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Bromobenzene	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Bromoform	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Bromomethane	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Carbon disulfide	ND		200	100	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Carbon tetrachloride	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Chlorobenzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Chlorobromomethane	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Chloroethane	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Chloroform	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Chloromethane	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
cis-1,2-Dichloroethene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
cis-1,3-Dichloropropene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Chlorodibromomethane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Dibromomethane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Dichlorobromomethane	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100

Client Sample ID: DG-AI11S-3.5-4
Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Ethylbenzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Hexachlorobutadiene	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Isopropylbenzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Methylene Chloride	ND		820	410	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Methyl tert-butyl ether	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Naphthalene	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
n-Butylbenzene	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
N-Propylbenzene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
sec-Butylbenzene	ND		200	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Styrene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
tert-Butylbenzene	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Tetrachloroethene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Toluene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
trans-1,2-Dichloroethene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
trans-1,3-Dichloropropene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Trichloroethene	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Trichlorofluoromethane	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		410	160	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Vinyl acetate	ND		410	200	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Vinyl chloride	ND		200	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Xylenes, Total	ND		160	82	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
Ethylene Dibromide	ND		82	41	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
2-Butanone (MEK)	ND		820	410	ug/Kg		01/23/19 14:08	01/26/19 14:33	100
4-Methyl-2-pentanone (MIBK)	ND		410	160	ug/Kg		01/23/19 14:08	01/26/19 14:33	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*60 - 140*	*01/23/19 14:08*	*01/26/19 14:33*	*100*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*	*01/23/19 14:08*	*01/26/19 14:33*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		490	250	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Acenaphthene	**520**		250	140	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Acenaphthylene	ND		250	120	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Anthracene	**650**		250	98	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Benzo[a]anthracene	**330**		250	74	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Benzo[a]pyrene	**440**		250	94	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Benzo[b]fluoranthene	**200**	**J**	250	100	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Benzo[g,h,i]perylene	**240**	**J F1**	250	210	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Benzo[k]fluoranthene	ND		250	100	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Chrysene	**740**	**F1**	250	69	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Dibenz(a,h)anthracene	ND	F1	250	170	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Fluoranthene	**490**	**F1**	250	69	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Fluorene	**470**		250	110	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Indeno[1,2,3-cd]pyrene	ND		250	210	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Naphthalene	**180**	**J**	250	170	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Phenanthrene	**1100**	**F1**	250	89	ug/Kg		01/22/19 10:21	01/24/19 12:38	50
Pyrene	**2200**	**F1**	250	84	ug/Kg		01/22/19 10:21	01/24/19 12:38	50

Client Sample ID: DG-AI11S-3.5-4

Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-7

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		33 - 120	01/22/19 10:21	01/24/19 12:38	50
Terphenyl-d14	113		35 - 146	01/22/19 10:21	01/24/19 12:38	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10000	F2	500	190	mg/Kg		01/28/19 15:35	01/31/19 04:27	100
Motor Oil Range Organics [C24-C36]	14000		12000	2500	mg/Kg		01/28/19 15:35	01/31/19 04:27	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	01/31/19 04:27	100

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F2	9.9	3.0	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
4,4'-DDE	ND		9.9	2.1	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
4,4'-DDT	ND	F2	9.9	2.0	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Aldrin	ND		9.9	2.5	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
alpha-BHC	ND		9.9	2.7	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
alpha-Chlordane	ND	F2	9.9	2.0	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
beta-BHC	ND	F1	9.9	1.8	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Chlordane (n.o.s.)	ND		200	14	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Chlordane (technical)	ND		200	16	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
delta-BHC	ND		9.9	2.2	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Dieldrin	ND		9.9	2.9	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Endosulfan I	ND	F2 F1	9.9	1.6	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Endosulfan II	ND		9.9	2.4	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Endosulfan sulfate	ND		9.9	1.9	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Endrin	ND		9.9	2.3	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Endrin aldehyde	ND		9.9	3.1	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Endrin ketone	ND		9.9	1.6	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
gamma-BHC (Lindane)	ND	F1	9.9	3.1	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
gamma-Chlordane	ND		9.9	2.3	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Heptachlor	ND	F2	9.9	2.3	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Heptachlor epoxide	ND		9.9	1.7	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Methoxychlor	ND	F1	9.9	3.4	ug/Kg		01/25/19 13:57	01/29/19 15:47	5
Toxaphene	ND		200	34	ug/Kg		01/25/19 13:57	01/29/19 15:47	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	141	X	21 - 136	01/25/19 13:57	01/29/19 15:47	5
Tetrachloro-m-xylene	100		21 - 145	01/25/19 13:57	01/29/19 15:47	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:12	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:12	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:12	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:12	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:12	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:12	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 13:12	1

Client Sample ID: DG-AI11S-3.5-4

Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*45 - 120*	*01/23/19 14:51*	*01/25/19 13:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2	F1 F2	1.8	0.30	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Arsenic	15	F1	3.6	0.30	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Barium	250	B F2	1.8	0.25	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Beryllium	0.19	J	0.36	0.12	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Cadmium	0.80		0.45	0.044	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Chromium	18	B	1.8	0.19	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Cobalt	7.1		0.71	0.071	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Copper	160	F1	5.4	2.5	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Lead	540	B	1.8	0.38	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Molybdenum	0.64	J	1.8	0.23	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Nickel	20		1.8	0.18	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Selenium	1.1	J	3.6	0.54	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Silver	1.1		0.89	0.18	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Thallium	ND		1.8	0.52	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Vanadium	60	F1	1.8	0.24	mg/Kg		01/24/19 09:37	01/29/19 18:36	4
Zinc	400		5.4	2.3	mg/Kg		01/24/19 09:37	01/29/19 18:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31	B	0.016	0.0024	mg/Kg		01/29/19 12:33	01/29/19 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.4		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AI11S-9.5-10

Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	460		110	77	ug/Kg		01/26/19 12:50	01/26/19 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*8*	*X*	*60 - 120*	*01/26/19 12:50*	*01/26/19 16:43*	*1*
4-Bromofluorobenzene (Surr)	*86*		*79 - 120*	*01/26/19 12:50*	*01/26/19 16:43*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/26/19 12:50*	*01/26/19 16:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,1,1,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,1,1-Trichloroethane	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,1,2,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,1,2-Trichloroethane	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,1-Dichloroethane	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,1-Dichloroethene	ND		2.2	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,1-Dichloropropene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,2,3-Trichlorobenzene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,2,4-Trichlorobenzene	ND		5.5	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,2,4-Trimethylbenzene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,2-Dibromo-3-Chloropropane	ND		5.5	2.2	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,2-Dichlorobenzene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,2-Dichloroethane	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,2-Dichloropropane	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,3,5-Trimethylbenzene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,3-Dichlorobenzene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,3-Dichloropropane	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,4-Dichlorobenzene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
2,2-Dichloropropane	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
2-Chlorotoluene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
2-Hexanone	ND		11	5.5	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
4-Chlorotoluene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
4-Isopropyltoluene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Benzene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Bromobenzene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Bromoform	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Bromomethane	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Carbon disulfide	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Carbon tetrachloride	ND		2.2	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Chlorobenzene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Chlorobromomethane	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Chloroethane	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Chloroform	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Chloromethane	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
cis-1,2-Dichloroethene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
cis-1,3-Dichloropropene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Chlorodibromomethane	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Dibromomethane	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Dichlorobromomethane	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1

Client Sample ID: DG-AI11S-9.5-10
Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Ethylbenzene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Hexachlorobutadiene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Isopropylbenzene	**0.77**	**J**	1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Methylene Chloride	ND		11	5.5	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Methyl tert-butyl ether	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Naphthalene	**2.1**	**J**	2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
n-Butylbenzene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
N-Propylbenzene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
sec-Butylbenzene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Styrene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
tert-Butylbenzene	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Tetrachloroethene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Toluene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
trans-1,2-Dichloroethene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
trans-1,3-Dichloropropene	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Trichloroethene	ND	*	1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Trichlorofluoromethane	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.5	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Vinyl acetate	ND		8.8	4.4	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Vinyl chloride	ND		2.2	1.1	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Xylenes, Total	ND		2.2	1.4	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
Ethylene Dibromide	ND		1.1	0.55	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
2-Butanone (MEK)	ND		11	5.5	ug/Kg		01/26/19 12:50	01/26/19 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.5	2.7	ug/Kg		01/26/19 12:50	01/26/19 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/26/19 12:50*	*01/26/19 16:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/26/19 12:50*	*01/26/19 16:43*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**16000**		980	490	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Acenaphthene	**2600**		490	270	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Acenaphthylene	**410**	**J**	490	230	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Anthracene	**2800**		490	200	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Benzo[a]anthracene	**1900**		490	150	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Benzo[a]pyrene	**850**		490	190	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Benzo[b]fluoranthene	**280**	**J**	490	210	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Benzo[g,h,i]perylene	**440**	**J**	490	420	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Benzo[k]fluoranthene	ND		490	210	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Chrysene	**3400**		490	140	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Dibenz(a,h)anthracene	ND		490	340	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Fluoranthene	**800**		490	140	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Fluorene	**3200**		490	210	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Indeno[1,2,3-cd]pyrene	ND		490	410	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Naphthalene	**1200**		490	340	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Phenanthrene	**11000**		490	180	ug/Kg		01/22/19 10:21	01/28/19 11:13	100
Pyrene	**6800**		490	170	ug/Kg		01/22/19 10:21	01/28/19 11:13	100

Client Sample ID: DG-AI11S-9.5-10

Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-8

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		33 - 120	01/22/19 10:21	01/28/19 11:13	100
Terphenyl-d14	76		35 - 146	01/22/19 10:21	01/28/19 11:13	100

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5200		190	71	mg/Kg		01/28/19 15:35	02/01/19 15:22	100
Motor Oil Range Organics [C24-C36]	5100		4800	950	mg/Kg		01/28/19 15:35	02/01/19 15:22	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/01/19 15:22	100

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.1	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
4,4'-DDE	ND		20	4.2	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
4,4'-DDT	ND		20	4.1	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Aldrin	ND		20	5.0	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
alpha-BHC	ND		20	5.5	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
alpha-Chlordane	ND		20	4.0	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
beta-BHC	ND		20	3.6	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Chlordane (n.o.s.)	ND		400	29	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Chlordane (technical)	ND		400	32	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
delta-BHC	ND		20	4.4	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Dieldrin	ND		20	5.9	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Endosulfan I	ND		20	3.2	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Endosulfan II	ND		20	4.9	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Endosulfan sulfate	ND		20	3.8	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Endrin	ND		20	4.6	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Endrin aldehyde	ND		20	6.3	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Endrin ketone	ND		20	3.3	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
gamma-BHC (Lindane)	ND		20	6.3	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
gamma-Chlordane	ND		20	4.6	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Heptachlor	ND		20	4.6	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Heptachlor epoxide	ND		20	3.5	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Methoxychlor	ND		20	6.8	ug/Kg		01/25/19 13:57	02/01/19 11:13	10
Toxaphene	ND		400	68	ug/Kg		01/25/19 13:57	02/01/19 11:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	21 - 136	01/25/19 13:57	02/01/19 11:13	10
Tetrachloro-m-xylene	0	X	21 - 145	01/25/19 13:57	02/01/19 11:13	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 14:05	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 14:05	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 14:05	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 14:05	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 14:05	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 14:05	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/25/19 14:05	1

Client Sample ID: DG-AI11S-9.5-10

Date Collected: 01/21/19 14:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/23/19 14:51*	*01/25/19 14:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.54**	**J B**	1.8	0.30	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Arsenic	**6.4**		3.6	0.30	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Barium	**100**		1.8	0.25	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Beryllium	**0.18**	**J**	0.36	0.12	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Cadmium	**0.27**	**J**	0.45	0.044	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Chromium	**60**	**B**	1.8	0.19	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Cobalt	**10**	**B**	0.71	0.071	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Copper	**33**		5.4	2.5	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Lead	**46**		1.8	0.38	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Molybdenum	**0.32**	**J**	1.8	0.23	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Nickel	**84**	**B**	1.8	0.18	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Selenium	ND		3.6	0.54	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Silver	ND		0.89	0.18	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Thallium	ND		1.8	0.52	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Vanadium	**41**		1.8	0.24	mg/Kg		01/24/19 09:37	01/30/19 18:04	4
Zinc	**67**		5.4	2.3	mg/Kg		01/24/19 09:37	01/30/19 18:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.053**		0.015	0.0022	mg/Kg		01/29/19 12:33	01/29/19 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.2**		0.1	0.05	%			01/23/19 10:10	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90948-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(79-123)	(70-130)
720-90948-1	DG-AE11S-0.5-1	101	101
720-90948-2	DG-AE11S-3.5-4	104	105
720-90948-3	DG-AG11S-0.5-1	101	106
720-90948-4	DG-AG11S-3.5-4	99	103
720-90948-6	DG-AI11S-0.5-1	97	114
720-90948-8	DG-AI11S-9.5-10	99	104
720-90949-A-6-C MSD	Matrix Spike Duplicate	93	99
720-90949-B-6-A MS	Matrix Spike	95	98
720-90961-A-11-B MS	Matrix Spike	99	105
720-90961-A-11-C MSD	Matrix Spike Duplicate	96	107
LCS 440-524855/5	Lab Control Sample	93	101
LCS 440-525143/16	Lab Control Sample	90	104
MB 440-524855/4	Method Blank	96	104
MB 440-525143/4	Method Blank	96	113

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)
720-90948-5	DG-AG11S-9.5-10	103	92
720-90948-7	DG-AI11S-3.5-4	96	92
720-90948-7 MS	DG-AI11S-3.5-4	96	94
720-90948-7 MSD	DG-AI11S-3.5-4	98	86
LCS 440-525147/5	Lab Control Sample	97	88
LCSD 440-525147/6	Lab Control Sample Dup	96	89
MB 440-525147/4	Method Blank	98	93

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-90948-1	DG-AE11S-0.5-1	116	84	101
720-90948-2	DG-AE11S-3.5-4	117	93	104
720-90948-3	DG-AG11S-0.5-1	118	93	101
720-90948-4	DG-AG11S-3.5-4	115	90	99
720-90948-6	DG-AI11S-0.5-1	120	88	97
720-90948-8	DG-AI11S-9.5-10	8 X	86	99
720-90949-A-6-C MSD	Matrix Spike Duplicate	115	83	93

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-90949-B-6-A MS	Matrix Spike	115	92	95
720-90961-A-11-B MS	Matrix Spike	117	95	99
720-90961-A-11-C MSD	Matrix Spike Duplicate	122 X	89	96
LCS 440-524856/6	Lab Control Sample	116	83	98
LCS 440-525144/17	Lab Control Sample	116	84	97
MB 440-524856/4	Method Blank	114	85	96
MB 440-525144/4	Method Blank	119	85	96

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
720-90948-5	DG-AG11S-9.5-10	97	88	103
720-90948-7	DG-AI11S-3.5-4	98	94	96
LCS 440-525148/7	Lab Control Sample	97	93	97
LCSD 440-525148/8	Lab Control Sample Dup	101	97	100
MB 440-525148/4	Method Blank	103	93	98

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-90948-1	DG-AE11S-0.5-1	90	104
720-90948-2	DG-AE11S-3.5-4	91	108
720-90948-3	DG-AG11S-0.5-1	68	66
720-90948-4	DG-AG11S-3.5-4	75	71
720-90948-5	DG-AG11S-9.5-10	85	98
720-90948-6	DG-AI11S-0.5-1	69	73
720-90948-7	DG-AI11S-3.5-4	96	113
720-90948-7 MS	DG-AI11S-3.5-4	80	96
720-90948-7 MSD	DG-AI11S-3.5-4	84	99
720-90948-8	DG-AI11S-9.5-10	75	76
LCS 720-258941/2-A	Lab Control Sample	56	98
MB 720-258941/1-A	Method Blank	77	99

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-90948-1	DG-AE11S-0.5-1	79
720-90948-2	DG-AE11S-3.5-4	0 X D
720-90948-3	DG-AG11S-0.5-1	0 X D
720-90948-4	DG-AG11S-3.5-4	75
720-90948-5	DG-AG11S-9.5-10	0 X D
720-90948-6	DG-AI11S-0.5-1	85
720-90948-7	DG-AI11S-3.5-4	0 X D
720-90948-7 MS	DG-AI11S-3.5-4	0 X D
720-90948-7 MSD	DG-AI11S-3.5-4	0 X D
720-90948-8	DG-AI11S-9.5-10	0 X D
LCS 720-259352/2-A	Lab Control Sample	127
MB 720-259352/1-A	Method Blank	106

Surrogate Legend
TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX2 (21-145)
720-90948-1	DG-AE11S-0.5-1	56	77
720-90948-7	DG-AI11S-3.5-4	141 X	100
720-90948-7 MSD	DG-AI11S-3.5-4	114 p	107

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX1 (21-145)
720-90948-2	DG-AE11S-3.5-4	59	77
720-90948-5	DG-AG11S-9.5-10	75	84

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90948-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX1 (21-145)								
720-90948-3	DG-AG11S-0.5-1	97	70								
720-90948-4	DG-AG11S-3.5-4	60	68								
720-90948-6	DG-AI11S-0.5-1	77	83								
720-90948-7 MS	DG-AI11S-3.5-4	121	93								
720-90948-8	DG-AI11S-9.5-10	0 X	0 X								
LCS 720-259253/2-A	Lab Control Sample	103	84								
MB 720-259253/1-A	Method Blank	118	71								

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB2 (45-120)									
720-90948-1	DG-AE11S-0.5-1	64									
720-90948-2	DG-AE11S-3.5-4	70									
720-90948-3	DG-AG11S-0.5-1	66									
720-90948-4	DG-AG11S-3.5-4	48									
720-90948-5	DG-AG11S-9.5-10	45									
720-90948-6	DG-AI11S-0.5-1	59									
720-90948-7	DG-AI11S-3.5-4	84									
720-90948-7 MS	DG-AI11S-3.5-4	71									
720-90948-7 MSD	DG-AI11S-3.5-4	79									
720-90948-8	DG-AI11S-9.5-10	58									
LCS 440-524461/2-A	Lab Control Sample	99									
MB 440-524461/1-A	Method Blank	96									

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 524446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		2050	2200		ug/Kg		108	50 - 145
1,1,1,2-Tetrachloroethane	ND		2050	1910		ug/Kg		94	60 - 150
1,1,1-Trichloroethane	ND		2050	1900		ug/Kg		93	60 - 140
1,1,2,2-Tetrachloroethane	ND		2050	2130		ug/Kg		104	50 - 145
1,1,2-Trichloroethane	ND		2050	2200		ug/Kg		107	60 - 145
1,1-Dichloroethane	ND		2050	1890		ug/Kg		93	60 - 145
1,1-Dichloroethene	ND		2050	2530		ug/Kg		124	55 - 155
1,1-Dichloropropene	ND		2050	1960		ug/Kg		96	60 - 140
1,2,3-Trichlorobenzene	ND		2050	2090		ug/Kg		102	50 - 140
1,2,4-Trichlorobenzene	ND		2050	2150		ug/Kg		105	60 - 140
1,2,4-Trimethylbenzene	ND		2050	2000		ug/Kg		98	60 - 140
1,2-Dibromo-3-Chloropropane	ND		2050	2340		ug/Kg		114	40 - 160
1,2-Dichlorobenzene	ND		2050	2120		ug/Kg		104	60 - 135
1,2-Dichloroethane	ND		2050	1890		ug/Kg		93	60 - 145
1,2-Dichloropropane	ND		2050	1940		ug/Kg		95	60 - 140
1,3,5-Trimethylbenzene	ND		2050	1980		ug/Kg		97	65 - 140
1,3-Dichlorobenzene	ND		2050	2030		ug/Kg		99	60 - 145
1,3-Dichloropropane	ND		2050	2050		ug/Kg		100	65 - 135
1,4-Dichlorobenzene	ND		2050	1990		ug/Kg		97	60 - 140
2,2-Dichloropropane	ND		2050	1820		ug/Kg		89	50 - 150
2-Chlorotoluene	ND		2050	1910		ug/Kg		93	60 - 145
2-Hexanone	ND		2050	1630		ug/Kg		79	30 - 155
4-Chlorotoluene	ND		2050	1910		ug/Kg		93	65 - 140
4-Isopropyltoluene	ND		2050	2010		ug/Kg		98	60 - 140
Benzene	ND		2050	2080		ug/Kg		102	55 - 140
Bromobenzene	ND		2050	2100		ug/Kg		103	60 - 140
Bromoform	ND		2050	2180		ug/Kg		106	50 - 140
Bromomethane	ND		2050	1500		ug/Kg		73	30 - 140
Carbon disulfide	ND		2050	2200		ug/Kg		107	50 - 130
Carbon tetrachloride	ND		2050	1910		ug/Kg		93	65 - 145
Chlorobenzene	ND		2050	2000		ug/Kg		98	65 - 145
Chlorobromomethane	ND		2050	2450		ug/Kg		120	60 - 145
Chloroethane	ND		2050	2040		ug/Kg		100	35 - 140
Chloroform	ND		2050	1990		ug/Kg		97	60 - 140
Chloromethane	ND		2050	1880		ug/Kg		92	25 - 140
cis-1,2-Dichloroethene	ND		2050	2060		ug/Kg		101	55 - 135
cis-1,3-Dichloropropene	ND		2050	2100		ug/Kg		102	65 - 140
Chlorodibromomethane	ND		2050	2000		ug/Kg		98	55 - 150
Dibromomethane	ND		2050	2040		ug/Kg		100	65 - 135
Dichlorobromomethane	ND		2050	1810		ug/Kg		89	60 - 150
Dichlorodifluoromethane	ND		2050	1740		ug/Kg		85	10 - 155
Ethylbenzene	ND		2050	1970		ug/Kg		96	50 - 150
Hexachlorobutadiene	ND		2050	1880		ug/Kg		92	55 - 145
Isopropylbenzene	ND		2050	2100		ug/Kg		103	65 - 145
m-Xylene & p-Xylene	ND		2050	2110		ug/Kg		103	60 - 145
Methylene Chloride	ND		2050	2330		ug/Kg		114	55 - 145
Methyl tert-butyl ether	ND		2050	2280		ug/Kg		112	55 - 155
Naphthalene	ND		2050	2260		ug/Kg		111	35 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 524446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Butylbenzene	ND		2050	2000		ug/Kg		98	55 - 155
N-Propylbenzene	ND		2050	1950		ug/Kg		96	50 - 150
o-Xylene	ND		2050	2050		ug/Kg		100	55 - 145
sec-Butylbenzene	ND		2050	2030		ug/Kg		99	55 - 145
Styrene	ND		2050	2080		ug/Kg		102	60 - 150
tert-Butylbenzene	ND		2050	2070		ug/Kg		101	65 - 150
Tetrachloroethene	ND		2050	2170		ug/Kg		106	60 - 150
Toluene	ND		2050	2070		ug/Kg		101	55 - 140
trans-1,2-Dichloroethene	ND		2050	2340		ug/Kg		115	55 - 145
trans-1,3-Dichloropropene	ND		2050	2110		ug/Kg		103	60 - 145
Trichloroethene	ND		2050	2180		ug/Kg		107	65 - 150
Trichlorofluoromethane	ND		2050	1910		ug/Kg		93	35 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2050	2380		ug/Kg		116	60 - 140
Vinyl acetate	ND		2050	2170		ug/Kg		106	20 - 145
Vinyl chloride	ND		2050	670		ug/Kg		33	10 - 120
Ethylene Dibromide	ND		2050	2160		ug/Kg		106	65 - 145
2-Butanone (MEK)	ND		2050	2250		ug/Kg		110	20 - 175
4-Methyl-2-pentanone (MIBK)	ND		2050	1700		ug/Kg		83	35 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*

Lab Sample ID: 720-90948-7 MSD
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 524446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		2050	2030		ug/Kg		99	50 - 145	8	30
1,1,1,2-Tetrachloroethane	ND		2050	1890		ug/Kg		92	60 - 150	1	20
1,1,1-Trichloroethane	ND		2050	1790		ug/Kg		87	60 - 140	6	20
1,1,2,2-Tetrachloroethane	ND		2050	1970		ug/Kg		96	50 - 145	8	25
1,1,2-Trichloroethane	ND		2050	2010		ug/Kg		98	60 - 145	9	25
1,1-Dichloroethane	ND		2050	1750		ug/Kg		86	60 - 145	8	25
1,1-Dichloroethene	ND		2050	2370		ug/Kg		116	55 - 155	7	25
1,1-Dichloropropene	ND		2050	1800		ug/Kg		88	60 - 140	9	25
1,2,3-Trichlorobenzene	ND		2050	1910		ug/Kg		93	50 - 140	9	25
1,2,4-Trichlorobenzene	ND		2050	2000		ug/Kg		98	60 - 140	7	25
1,2,4-Trimethylbenzene	ND		2050	1910		ug/Kg		93	60 - 140	5	25
1,2-Dibromo-3-Chloropropane	ND		2050	2090		ug/Kg		102	40 - 160	11	30
1,2-Dichlorobenzene	ND		2050	1990		ug/Kg		97	60 - 135	6	25
1,2-Dichloroethane	ND		2050	1640		ug/Kg		80	60 - 145	15	25
1,2-Dichloropropane	ND		2050	1800		ug/Kg		88	60 - 140	8	25
1,3,5-Trimethylbenzene	ND		2050	1890		ug/Kg		93	65 - 140	5	25
1,3-Dichlorobenzene	ND		2050	1890		ug/Kg		92	60 - 145	7	25
1,3-Dichloropropane	ND		2050	1850		ug/Kg		90	65 - 135	10	25
1,4-Dichlorobenzene	ND		2050	1870		ug/Kg		91	60 - 140	6	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90948-7 MSD
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 524446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2-Dichloropropane	ND		2050	1700		ug/Kg		83	50 - 150	7	25
2-Chlorotoluene	ND		2050	1790		ug/Kg		88	60 - 145	6	25
2-Hexanone	ND		2050	1580		ug/Kg		77	30 - 155	3	40
4-Chlorotoluene	ND		2050	1810		ug/Kg		89	65 - 140	5	25
4-Isopropyltoluene	ND		2050	1940		ug/Kg		95	60 - 140	3	25
Benzene	ND		2050	1890		ug/Kg		93	55 - 140	9	25
Bromobenzene	ND		2050	1960		ug/Kg		96	60 - 140	7	25
Bromoform	ND		2050	2020		ug/Kg		99	50 - 140	8	30
Bromomethane	ND		2050	1660		ug/Kg		81	30 - 140	10	30
Carbon disulfide	ND		2050	2060		ug/Kg		101	50 - 130	6	25
Carbon tetrachloride	ND		2050	1750		ug/Kg		85	65 - 145	9	25
Chlorobenzene	ND		2050	1900		ug/Kg		93	65 - 145	5	25
Chlorobromomethane	ND		2050	2140		ug/Kg		105	60 - 145	13	25
Chloroethane	ND		2050	1660		ug/Kg		81	35 - 140	21	30
Chloroform	ND		2050	1830		ug/Kg		89	60 - 140	8	25
Chloromethane	ND		2050	1800		ug/Kg		88	25 - 140	4	30
cis-1,2-Dichloroethene	ND		2050	1880		ug/Kg		92	55 - 135	9	25
cis-1,3-Dichloropropene	ND		2050	1940		ug/Kg		95	65 - 140	8	25
Chlorodibromomethane	ND		2050	1770		ug/Kg		86	55 - 150	13	25
Dibromomethane	ND		2050	1820		ug/Kg		89	65 - 135	11	25
Dichlorobromomethane	ND		2050	1680		ug/Kg		82	60 - 150	8	25
Dichlorodifluoromethane	ND		2050	1630		ug/Kg		80	10 - 155	6	35
Ethylbenzene	ND		2050	1930		ug/Kg		94	50 - 150	2	25
Hexachlorobutadiene	ND		2050	1610		ug/Kg		79	55 - 145	15	35
Isopropylbenzene	ND		2050	2020		ug/Kg		99	65 - 145	4	25
m-Xylene & p-Xylene	ND		2050	2000		ug/Kg		98	60 - 145	5	25
Methylene Chloride	ND		2050	2140		ug/Kg		104	55 - 145	9	25
Methyl tert-butyl ether	ND		2050	2070		ug/Kg		101	55 - 155	10	30
Naphthalene	ND		2050	2110		ug/Kg		103	35 - 160	7	30
n-Butylbenzene	ND		2050	1890		ug/Kg		92	55 - 155	6	25
N-Propylbenzene	ND		2050	1860		ug/Kg		91	50 - 150	5	25
o-Xylene	ND		2050	1990		ug/Kg		98	55 - 145	3	25
sec-Butylbenzene	ND		2050	1920		ug/Kg		94	55 - 145	5	25
Styrene	ND		2050	2010		ug/Kg		98	60 - 150	3	25
tert-Butylbenzene	ND		2050	2010		ug/Kg		98	65 - 150	3	25
Tetrachloroethene	ND		2050	2060		ug/Kg		101	60 - 150	5	25
Toluene	ND		2050	1920		ug/Kg		94	55 - 140	8	25
trans-1,2-Dichloroethene	ND		2050	2160		ug/Kg		106	55 - 145	8	25
trans-1,3-Dichloropropene	ND		2050	1930		ug/Kg		94	60 - 145	9	25
Trichloroethene	ND		2050	2040		ug/Kg		99	65 - 150	7	25
Trichlorofluoromethane	ND		2050	1580		ug/Kg		77	35 - 150	19	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2050	2270		ug/Kg		111	60 - 140	5	40
Vinyl acetate	ND		2050	1910		ug/Kg		93	20 - 145	13	30
Vinyl chloride	ND		2050	641		ug/Kg		31	10 - 120	4	35
Ethylene Dibromide	ND		2050	2010		ug/Kg		98	65 - 145	8	25
2-Butanone (MEK)	ND		2050	2200		ug/Kg		107	20 - 175	2	40
4-Methyl-2-pentanone (MIBK)	ND		2050	1530		ug/Kg		75	35 - 155	10	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90948-7 MSD
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 524446

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*

Lab Sample ID: MB 440-524855/4
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/25/19 08:00	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/25/19 08:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/25/19 08:00	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/25/19 08:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
2-Hexanone	ND		10	5.0	ug/Kg			01/25/19 08:00	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Benzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Bromoform	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/25/19 08:00	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Chloroform	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-524855/4
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/25/19 08:00	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Styrene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Toluene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/25/19 08:00	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/25/19 08:00	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/25/19 08:00	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/25/19 08:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/25/19 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/25/19 08:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/25/19 08:00*	*1*

Lab Sample ID: LCS 440-524855/5
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	44.7		ug/Kg		89	60 - 135
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/Kg		109	70 - 130
1,1,1-Trichloroethane	50.0	58.8		ug/Kg		118	65 - 135
1,1,2,2-Tetrachloroethane	50.0	37.4		ug/Kg		75	55 - 140
1,1,2-Trichloroethane	50.0	43.5		ug/Kg		87	65 - 135
1,1-Dichloroethane	50.0	48.4		ug/Kg		97	70 - 130
1,1-Dichloroethene	50.0	55.7		ug/Kg		111	70 - 125
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130
1,2,3-Trichlorobenzene	50.0	53.6		ug/Kg		107	60 - 130
1,2,4-Trichlorobenzene	50.0	53.9		ug/Kg		108	70 - 135
1,2,4-Trimethylbenzene	50.0	42.0		ug/Kg		84	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.1		ug/Kg		80	50 - 135
1,2-Dichlorobenzene	50.0	52.6		ug/Kg		105	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524855/5
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	54.0		ug/Kg		108	60 - 140
1,2-Dichloropropane	50.0	48.6		ug/Kg		97	70 - 130
1,3,5-Trimethylbenzene	50.0	41.7		ug/Kg		83	70 - 125
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 125
1,3-Dichloropropane	50.0	44.3		ug/Kg		89	70 - 125
1,4-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 120
2,2-Dichloropropane	50.0	52.1		ug/Kg		104	60 - 145
2-Chlorotoluene	50.0	41.9		ug/Kg		84	70 - 125
2-Hexanone	50.0	38.3		ug/Kg		77	40 - 150
4-Chlorotoluene	50.0	41.6		ug/Kg		83	75 - 125
4-Isopropyltoluene	50.0	45.9		ug/Kg		92	75 - 125
Benzene	50.0	48.0		ug/Kg		96	65 - 120
Bromobenzene	50.0	51.7		ug/Kg		103	75 - 120
Bromoform	50.0	56.5		ug/Kg		113	55 - 135
Bromomethane	50.0	52.4		ug/Kg		105	60 - 145
Carbon disulfide	50.0	49.8		ug/Kg		100	50 - 130
Carbon tetrachloride	50.0	60.6		ug/Kg		121	65 - 140
Chlorobenzene	50.0	51.4		ug/Kg		103	75 - 120
Chlorobromomethane	50.0	61.6		ug/Kg		123	70 - 135
Chloroethane	50.0	43.4		ug/Kg		87	60 - 140
Chloroform	50.0	51.4		ug/Kg		103	70 - 130
Chloromethane	50.0	44.1		ug/Kg		88	45 - 145
cis-1,2-Dichloroethene	50.0	55.6		ug/Kg		111	70 - 125
cis-1,3-Dichloropropene	50.0	47.6		ug/Kg		95	75 - 125
Chlorodibromomethane	50.0	56.1		ug/Kg		112	65 - 140
Dibromomethane	50.0	55.3		ug/Kg		111	70 - 130
Dichlorobromomethane	50.0	52.1		ug/Kg		104	70 - 135
Dichlorodifluoromethane	50.0	48.8		ug/Kg		98	35 - 160
Ethylbenzene	50.0	45.8		ug/Kg		92	70 - 125
Hexachlorobutadiene	50.0	53.6		ug/Kg		107	60 - 135
Isopropylbenzene	50.0	46.9		ug/Kg		94	75 - 130
m-Xylene & p-Xylene	50.0	46.3		ug/Kg		93	70 - 125
Methylene Chloride	50.0	49.8		ug/Kg		100	55 - 135
Methyl tert-butyl ether	50.0	53.3		ug/Kg		107	60 - 140
Naphthalene	50.0	49.2		ug/Kg		98	55 - 135
n-Butylbenzene	50.0	41.5		ug/Kg		83	70 - 130
N-Propylbenzene	50.0	40.7		ug/Kg		81	70 - 130
o-Xylene	50.0	47.2		ug/Kg		94	70 - 125
sec-Butylbenzene	50.0	41.1		ug/Kg		82	70 - 125
Styrene	50.0	42.3		ug/Kg		85	75 - 130
tert-Butylbenzene	50.0	45.1		ug/Kg		90	70 - 125
Tetrachloroethene	50.0	59.7		ug/Kg		119	70 - 125
Toluene	50.0	46.1		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	53.1		ug/Kg		106	70 - 125
trans-1,3-Dichloropropene	50.0	46.3		ug/Kg		93	70 - 135
Trichloroethene	50.0	60.7		ug/Kg		121	70 - 125
Trichlorofluoromethane	50.0	55.9		ug/Kg		112	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524855/5
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	55.6		ug/Kg		111	60 - 140		
Vinyl acetate			50.0	49.4		ug/Kg		99	45 - 145		
Vinyl chloride			50.0	42.6		ug/Kg		85	55 - 135		
Ethylene Dibromide			50.0	48.6		ug/Kg		97	70 - 130		
2-Butanone (MEK)			50.0	52.2		ug/Kg		104	40 - 145		
4-Methyl-2-pentanone (MIBK)			50.0	39.1		ug/Kg		78	40 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*

Lab Sample ID: 720-90949-A-6-C MSD
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		39.8	33.0		ug/Kg		83	50 - 150	4	30
1,1,1,2-Tetrachloroethane	ND		39.8	43.3		ug/Kg		109	65 - 145	13	20
1,1,1-Trichloroethane	ND		39.8	47.5		ug/Kg		119	65 - 145	18	20
1,1,2,2-Tetrachloroethane	ND		39.8	28.6		ug/Kg		72	40 - 160	3	30
1,1,2-Trichloroethane	ND		39.8	34.1		ug/Kg		86	65 - 140	13	30
1,1-Dichloroethane	ND		39.8	39.9		ug/Kg		100	65 - 135	17	25
1,1-Dichloroethene	ND		39.8	44.8		ug/Kg		113	65 - 135	20	25
1,1-Dichloropropene	ND		39.8	42.1		ug/Kg		106	65 - 135	19	20
1,2,3-Trichlorobenzene	ND	F2	39.8	34.2	F4	ug/Kg		86	45 - 145	48	30
1,2,4-Trichlorobenzene	ND	F2	39.8	38.0	F4	ug/Kg		95	50 - 140	45	30
1,2,4-Trimethylbenzene	ND		39.8	33.7		ug/Kg		85	65 - 140	12	25
1,2-Dibromo-3-Chloropropane	ND		39.8	29.0		ug/Kg		73	40 - 150	1	30
1,2-Dichlorobenzene	ND		39.8	40.4		ug/Kg		101	70 - 130	16	25
1,2-Dichloroethane	ND		39.8	41.9		ug/Kg		105	60 - 150	15	25
1,2-Dichloropropane	ND		39.8	38.7		ug/Kg		97	65 - 130	15	20
1,3,5-Trimethylbenzene	ND		39.8	34.0		ug/Kg		85	65 - 135	13	25
1,3-Dichlorobenzene	ND		39.8	40.6		ug/Kg		102	70 - 130	18	25
1,3-Dichloropropane	ND		39.8	34.3		ug/Kg		86	65 - 140	12	25
1,4-Dichlorobenzene	ND		39.8	40.6		ug/Kg		102	70 - 130	17	25
2,2-Dichloropropane	ND		39.8	44.8		ug/Kg		113	65 - 150	14	25
2-Chlorotoluene	ND		39.8	33.5		ug/Kg		84	60 - 135	10	25
2-Hexanone	ND		39.8	27.3		ug/Kg		69	35 - 160	10	40
4-Chlorotoluene	ND		39.8	33.8		ug/Kg		85	65 - 135	13	25
4-Isopropyltoluene	ND		39.8	36.1		ug/Kg		91	60 - 140	24	25
Benzene	ND		39.8	39.1		ug/Kg		98	65 - 130	18	20
Bromobenzene	ND		39.8	41.3		ug/Kg		104	65 - 140	6	25
Bromoform	ND		39.8	44.2		ug/Kg		111	50 - 145	17	30
Bromomethane	ND		39.8	42.2		ug/Kg		106	60 - 155	16	25
Carbon disulfide	ND		39.8	39.5		ug/Kg		99	40 - 140	20	20
Carbon tetrachloride	ND		39.8	49.0		ug/Kg		123	60 - 145	18	25
Chlorobenzene	ND		39.8	41.1		ug/Kg		103	70 - 130	19	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90949-A-6-C MSD
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobromomethane	ND		39.8	48.7		ug/Kg		122	65 - 145	13	25
Chloroethane	ND		39.8	35.3		ug/Kg		89	60 - 150	12	25
Chloroform	ND		39.8	42.2		ug/Kg		106	65 - 135	15	20
Chloromethane	ND		39.8	36.1		ug/Kg		91	40 - 145	16	25
cis-1,2-Dichloroethene	ND		39.8	45.0		ug/Kg		113	65 - 135	15	25
cis-1,3-Dichloropropene	ND		39.8	38.7		ug/Kg		97	70 - 135	15	25
Chlorodibromomethane	ND		39.8	43.9		ug/Kg		110	60 - 145	15	25
Dibromomethane	ND		39.8	42.3		ug/Kg		106	65 - 140	17	25
Dichlorobromomethane	ND		39.8	41.4		ug/Kg		104	65 - 145	18	20
Dichlorodifluoromethane	ND		39.8	40.9		ug/Kg		103	30 - 160	17	35
Ethylbenzene	ND		39.8	37.1		ug/Kg		93	70 - 135	20	25
Hexachlorobutadiene	ND	F2	39.8	33.7	F4	ug/Kg		85	50 - 145	66	35
Isopropylbenzene	ND		39.8	37.7		ug/Kg		95	70 - 145	25	25
m-Xylene & p-Xylene	ND		39.8	37.8		ug/Kg		95	70 - 130	21	25
Methylene Chloride	ND		39.8	39.0		ug/Kg		98	55 - 145	15	25
Methyl tert-butyl ether	ND		39.8	42.4		ug/Kg		107	55 - 155	15	35
Naphthalene	ND		39.8	32.5		ug/Kg		82	40 - 150	25	40
n-Butylbenzene	ND	F2	39.8	31.2	F4	ug/Kg		78	55 - 145	37	30
N-Propylbenzene	ND		39.8	32.8		ug/Kg		82	65 - 140	14	25
o-Xylene	ND		39.8	38.6		ug/Kg		97	65 - 130	17	25
sec-Butylbenzene	ND		39.8	32.0		ug/Kg		80	60 - 135	24	25
Styrene	ND		39.8	33.8		ug/Kg		85	70 - 140	22	25
tert-Butylbenzene	ND		39.8	35.9		ug/Kg		90	60 - 140	17	25
Tetrachloroethene	ND		39.8	48.5		ug/Kg		122	65 - 135	21	25
Toluene	ND		39.8	37.4		ug/Kg		94	70 - 130	15	20
trans-1,2-Dichloroethene	ND		39.8	43.7		ug/Kg		110	70 - 135	17	25
trans-1,3-Dichloropropene	ND		39.8	37.4		ug/Kg		94	60 - 145	16	25
Trichloroethene	ND		39.8	49.7		ug/Kg		125	65 - 140	23	25
Trichlorofluoromethane	ND		39.8	44.8		ug/Kg		113	55 - 155	17	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		39.8	45.0		ug/Kg		113	60 - 140	17	40
Vinyl acetate	ND	F1 F2	39.8	11.5	F1	ug/Kg		29	40 - 150	NC	30
Vinyl chloride	ND		39.8	29.9		ug/Kg		75	55 - 140	2	30
Ethylene Dibromide	ND		39.8	36.9		ug/Kg		93	65 - 140	15	25
2-Butanone (MEK)	ND		39.8	33.0		ug/Kg		83	25 - 170	11	40
4-Methyl-2-pentanone (MIBK)	ND		39.8	29.3		ug/Kg		74	40 - 155	13	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*

Lab Sample ID: 720-90949-B-6-A MS
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		33.7	34.2		ug/Kg		102	50 - 150
1,1,1,2-Tetrachloroethane	ND		33.7	38.0		ug/Kg		113	65 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90949-B-6-A MS
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		33.7	39.8		ug/Kg		118	65 - 145
1,1,2,2-Tetrachloroethane	ND		33.7	29.5		ug/Kg		87	40 - 160
1,1,2-Trichloroethane	ND		33.7	29.9		ug/Kg		89	65 - 140
1,1-Dichloroethane	ND		33.7	33.6		ug/Kg		100	65 - 135
1,1-Dichloroethene	ND		33.7	36.8		ug/Kg		109	65 - 135
1,1-Dichloropropene	ND		33.7	34.8		ug/Kg		103	65 - 135
1,2,3-Trichlorobenzene	ND	F2	33.7	21.1		ug/Kg		63	45 - 145
1,2,4-Trichlorobenzene	ND	F2	33.7	23.9		ug/Kg		71	50 - 140
1,2,4-Trimethylbenzene	ND		33.7	29.9		ug/Kg		89	65 - 140
1,2-Dibromo-3-Chloropropane	ND		33.7	28.8		ug/Kg		85	40 - 150
1,2-Dichlorobenzene	ND		33.7	34.3		ug/Kg		102	70 - 130
1,2-Dichloroethane	ND		33.7	35.9		ug/Kg		107	60 - 150
1,2-Dichloropropane	ND		33.7	33.5		ug/Kg		99	65 - 130
1,3,5-Trimethylbenzene	ND		33.7	29.9		ug/Kg		89	65 - 135
1,3-Dichlorobenzene	ND		33.7	33.8		ug/Kg		100	70 - 130
1,3-Dichloropropane	ND		33.7	30.5		ug/Kg		90	65 - 140
1,4-Dichlorobenzene	ND		33.7	34.1		ug/Kg		101	70 - 130
2,2-Dichloropropane	ND		33.7	39.1		ug/Kg		116	65 - 150
2-Chlorotoluene	ND		33.7	30.2		ug/Kg		90	60 - 135
2-Hexanone	ND		33.7	24.7		ug/Kg		73	35 - 160
4-Chlorotoluene	ND		33.7	29.8		ug/Kg		88	65 - 135
4-Isopropyltoluene	ND		33.7	28.3		ug/Kg		84	60 - 140
Benzene	ND		33.7	32.5		ug/Kg		96	65 - 130
Bromobenzene	ND		33.7	39.0		ug/Kg		116	65 - 140
Bromoform	ND		33.7	37.4		ug/Kg		111	50 - 145
Bromomethane	ND		33.7	36.0		ug/Kg		107	60 - 155
Carbon disulfide	ND		33.7	32.4		ug/Kg		96	40 - 140
Carbon tetrachloride	ND		33.7	40.9		ug/Kg		121	60 - 145
Chlorobenzene	ND		33.7	34.0		ug/Kg		101	70 - 130
Chlorobromomethane	ND		33.7	42.6		ug/Kg		127	65 - 145
Chloroethane	ND		33.7	31.3		ug/Kg		93	60 - 150
Chloroform	ND		33.7	36.1		ug/Kg		107	65 - 135
Chloromethane	ND		33.7	30.6		ug/Kg		91	40 - 145
cis-1,2-Dichloroethene	ND		33.7	38.6		ug/Kg		115	65 - 135
cis-1,3-Dichloropropene	ND		33.7	33.3		ug/Kg		99	70 - 135
Chlorodibromomethane	ND		33.7	37.8		ug/Kg		112	60 - 145
Dibromomethane	ND		33.7	35.6		ug/Kg		106	65 - 140
Dichlorobromomethane	ND		33.7	34.7		ug/Kg		103	65 - 145
Dichlorodifluoromethane	ND		33.7	34.3		ug/Kg		102	30 - 160
Ethylbenzene	ND		33.7	30.5		ug/Kg		90	70 - 135
Hexachlorobutadiene	ND	F2	33.7	16.9		ug/Kg		50	50 - 145
Isopropylbenzene	ND		33.7	29.3		ug/Kg		87	70 - 145
m-Xylene & p-Xylene	ND		33.7	30.6		ug/Kg		91	70 - 130
Methylene Chloride	ND		33.7	33.6		ug/Kg		100	55 - 145
Methyl tert-butyl ether	ND		33.7	36.7		ug/Kg		109	55 - 155
Naphthalene	ND		33.7	25.3		ug/Kg		75	40 - 150
n-Butylbenzene	ND	F2	33.7	21.4		ug/Kg		64	55 - 145
N-Propylbenzene	ND		33.7	28.6		ug/Kg		85	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90949-B-6-A MS
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	ND		33.7	32.5		ug/Kg		96	65 - 130
sec-Butylbenzene	ND		33.7	25.1		ug/Kg		75	60 - 135
Styrene	ND		33.7	27.1		ug/Kg		80	70 - 140
tert-Butylbenzene	ND		33.7	30.2		ug/Kg		90	60 - 140
Tetrachloroethene	ND		33.7	39.4		ug/Kg		117	65 - 135
Toluene	ND		33.7	32.2		ug/Kg		96	70 - 130
trans-1,2-Dichloroethene	ND		33.7	36.6		ug/Kg		109	70 - 135
trans-1,3-Dichloropropene	ND		33.7	31.9		ug/Kg		95	60 - 145
Trichloroethene	ND		33.7	39.2		ug/Kg		116	65 - 140
Trichlorofluoromethane	ND		33.7	37.7		ug/Kg		112	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		33.7	37.8		ug/Kg		112	60 - 140
Vinyl acetate	ND	F1 F2	33.7	ND	F1	ug/Kg		0	40 - 150
Vinyl chloride	ND		33.7	29.4		ug/Kg		87	55 - 140
Ethylene Dibromide	ND		33.7	31.8		ug/Kg		94	65 - 140
2-Butanone (MEK)	ND		33.7	29.5		ug/Kg		88	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		33.7	25.6		ug/Kg		76	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 440-525143/4
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/26/19 12:11	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/26/19 12:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/26/19 12:11	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/26/19 12:11	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525143/4
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10	5.0	ug/Kg			01/26/19 12:11	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Benzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Bromoform	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/26/19 12:11	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Chloroform	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/26/19 12:11	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Styrene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Toluene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/26/19 12:11	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/26/19 12:11	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/26/19 12:11	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/26/19 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/26/19 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/26/19 12:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/26/19 12:11*	*1*

Lab Sample ID: LCS 440-525143/16
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	25.0	21.8		ug/Kg		87	60 - 135
1,1,1,2-Tetrachloroethane	25.0	27.0		ug/Kg		108	70 - 130
1,1,1-Trichloroethane	25.0	30.6		ug/Kg		123	65 - 135
1,1,2,2-Tetrachloroethane	25.0	18.6		ug/Kg		74	55 - 140
1,1,2-Trichloroethane	25.0	21.4		ug/Kg		86	65 - 135
1,1-Dichloroethane	25.0	25.4		ug/Kg		101	70 - 130
1,1-Dichloroethene	25.0	28.3		ug/Kg		113	70 - 125
1,1-Dichloropropene	25.0	26.3		ug/Kg		105	70 - 130
1,2,3-Trichlorobenzene	25.0	25.6		ug/Kg		102	60 - 130
1,2,4-Trichlorobenzene	25.0	27.6		ug/Kg		110	70 - 135
1,2,4-Trimethylbenzene	25.0	21.4		ug/Kg		86	70 - 125
1,2-Dibromo-3-Chloropropane	25.0	20.2		ug/Kg		81	50 - 135
1,2-Dichlorobenzene	25.0	26.1		ug/Kg		104	75 - 120
1,2-Dichloroethane	25.0	27.5		ug/Kg		110	60 - 140
1,2-Dichloropropane	25.0	24.7		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	25.0	21.4		ug/Kg		86	70 - 125
1,3-Dichlorobenzene	25.0	26.4		ug/Kg		105	75 - 125
1,3-Dichloropropane	25.0	21.7		ug/Kg		87	70 - 125
1,4-Dichlorobenzene	25.0	26.2		ug/Kg		105	75 - 120
2,2-Dichloropropane	25.0	29.9		ug/Kg		120	60 - 145
2-Chlorotoluene	25.0	21.2		ug/Kg		85	70 - 125
2-Hexanone	25.0	19.2		ug/Kg		77	40 - 150
4-Chlorotoluene	25.0	21.4		ug/Kg		85	75 - 125
4-Isopropyltoluene	25.0	23.9		ug/Kg		96	75 - 125
Benzene	25.0	24.2		ug/Kg		97	65 - 120
Bromobenzene	25.0	25.7		ug/Kg		103	75 - 120
Bromoform	25.0	28.9		ug/Kg		116	55 - 135
Bromomethane	25.0	26.5		ug/Kg		106	60 - 145
Carbon disulfide	25.0	25.5		ug/Kg		102	50 - 130
Carbon tetrachloride	25.0	32.2		ug/Kg		129	65 - 140
Chlorobenzene	25.0	25.5		ug/Kg		102	75 - 120
Chlorobromomethane	25.0	31.1		ug/Kg		124	70 - 135
Chloroethane	25.0	22.6		ug/Kg		90	60 - 140
Chloroform	25.0	27.4		ug/Kg		110	70 - 130
Chloromethane	25.0	24.0		ug/Kg		96	45 - 145
cis-1,2-Dichloroethene	25.0	28.9		ug/Kg		116	70 - 125
cis-1,3-Dichloropropene	25.0	23.5		ug/Kg		94	75 - 125
Chlorodibromomethane	25.0	27.2		ug/Kg		109	65 - 140
Dibromomethane	25.0	28.6		ug/Kg		114	70 - 130
Dichlorobromomethane	25.0	26.2		ug/Kg		105	70 - 135
Dichlorodifluoromethane	25.0	26.0		ug/Kg		104	35 - 160
Ethylbenzene	25.0	23.1		ug/Kg		92	70 - 125
Hexachlorobutadiene	25.0	27.3		ug/Kg		109	60 - 135
Isopropylbenzene	25.0	24.0		ug/Kg		96	75 - 130
m-Xylene & p-Xylene	25.0	23.4		ug/Kg		94	70 - 125
Methylene Chloride	25.0	24.4		ug/Kg		98	55 - 135
Methyl tert-butyl ether	25.0	27.7		ug/Kg		111	60 - 140
Naphthalene	25.0	23.6		ug/Kg		95	55 - 135
n-Butylbenzene	25.0	21.7		ug/Kg		87	70 - 130
N-Propylbenzene	25.0	21.1		ug/Kg		85	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525143/16
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	25.0	24.2		ug/Kg		97	70 - 125
sec-Butylbenzene	25.0	21.4		ug/Kg		85	70 - 125
Styrene	25.0	21.0		ug/Kg		84	75 - 130
tert-Butylbenzene	25.0	23.2		ug/Kg		93	70 - 125
Tetrachloroethene	25.0	30.2		ug/Kg		121	70 - 125
Toluene	25.0	23.0		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	25.0	27.7		ug/Kg		111	70 - 125
trans-1,3-Dichloropropene	25.0	22.8		ug/Kg		91	70 - 135
Trichloroethene	25.0	31.6	*	ug/Kg		126	70 - 125
Trichlorofluoromethane	25.0	28.9		ug/Kg		116	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.4		ug/Kg		117	60 - 140
Vinyl acetate	25.0	25.6		ug/Kg		102	45 - 145
Vinyl chloride	25.0	22.5		ug/Kg		90	55 - 135
Ethylene Dibromide	25.0	23.4		ug/Kg		94	70 - 130
2-Butanone (MEK)	25.0	23.3		ug/Kg		93	40 - 145
4-Methyl-2-pentanone (MIBK)	25.0	19.7		ug/Kg		79	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 440-525147/4
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		500	100	ug/Kg			01/26/19 12:15	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			01/26/19 12:15	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,1-Dichloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,1-Dichloroethene	ND		250	100	ug/Kg			01/26/19 12:15	100
1,1-Dichloropropene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			01/26/19 12:15	100
1,2-Dichlorobenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,2-Dichloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,2-Dichloropropane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,3-Dichloropropane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
2,2-Dichloropropane	ND		200	100	ug/Kg			01/26/19 12:15	100
2-Chlorotoluene	ND		250	100	ug/Kg			01/26/19 12:15	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525147/4
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		1300	500	ug/Kg			01/26/19 12:15	100
4-Chlorotoluene	ND		250	50	ug/Kg			01/26/19 12:15	100
4-Isopropyltoluene	ND		100	50	ug/Kg			01/26/19 12:15	100
Benzene	ND		100	50	ug/Kg			01/26/19 12:15	100
Bromobenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
Bromoform	ND		250	100	ug/Kg			01/26/19 12:15	100
Bromomethane	ND		250	100	ug/Kg			01/26/19 12:15	100
Carbon disulfide	ND		250	130	ug/Kg			01/26/19 12:15	100
Carbon tetrachloride	ND		250	100	ug/Kg			01/26/19 12:15	100
Chlorobenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
Chlorobromomethane	ND		250	100	ug/Kg			01/26/19 12:15	100
Chloroethane	ND		250	100	ug/Kg			01/26/19 12:15	100
Chloroform	ND		100	50	ug/Kg			01/26/19 12:15	100
Chloromethane	ND		250	100	ug/Kg			01/26/19 12:15	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			01/26/19 12:15	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			01/26/19 12:15	100
Chlorodibromomethane	ND		100	50	ug/Kg			01/26/19 12:15	100
Dibromomethane	ND		100	50	ug/Kg			01/26/19 12:15	100
Dichlorobromomethane	ND		100	50	ug/Kg			01/26/19 12:15	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			01/26/19 12:15	100
Ethylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
Hexachlorobutadiene	ND		250	100	ug/Kg			01/26/19 12:15	100
Isopropylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
Methylene Chloride	ND		1000	500	ug/Kg			01/26/19 12:15	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			01/26/19 12:15	100
Naphthalene	ND		250	100	ug/Kg			01/26/19 12:15	100
n-Butylbenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
N-Propylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
sec-Butylbenzene	ND		250	50	ug/Kg			01/26/19 12:15	100
Styrene	ND		100	50	ug/Kg			01/26/19 12:15	100
tert-Butylbenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
Tetrachloroethene	ND		100	50	ug/Kg			01/26/19 12:15	100
Toluene	ND		100	50	ug/Kg			01/26/19 12:15	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			01/26/19 12:15	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			01/26/19 12:15	100
Trichloroethene	ND		100	50	ug/Kg			01/26/19 12:15	100
Trichlorofluoromethane	ND		250	100	ug/Kg			01/26/19 12:15	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			01/26/19 12:15	100
Vinyl acetate	ND		500	250	ug/Kg			01/26/19 12:15	100
Vinyl chloride	ND		250	100	ug/Kg			01/26/19 12:15	100
Xylenes, Total	ND		200	100	ug/Kg			01/26/19 12:15	100
Ethylene Dibromide	ND		100	50	ug/Kg			01/26/19 12:15	100
2-Butanone (MEK)	ND		1000	500	ug/Kg			01/26/19 12:15	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			01/26/19 12:15	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*60 - 140*		*01/26/19 12:15*	*100*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*		*01/26/19 12:15*	*100*

Lab Sample ID: LCS 440-525147/5
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	2500	2190		ug/Kg		88	55 - 130
1,1,1,2-Tetrachloroethane	2500	2430		ug/Kg		97	70 - 140
1,1,1-Trichloroethane	2500	2380		ug/Kg		95	65 - 140
1,1,2,2-Tetrachloroethane	2500	2210		ug/Kg		88	55 - 135
1,1,2-Trichloroethane	2500	2340		ug/Kg		94	65 - 130
1,1-Dichloroethane	2500	2360		ug/Kg		94	65 - 130
1,1-Dichloroethene	2500	3030		ug/Kg		121	75 - 140
1,1-Dichloropropene	2500	2380		ug/Kg		95	70 - 130
1,2,3-Trichlorobenzene	2500	2620		ug/Kg		105	60 - 135
1,2,4-Trichlorobenzene	2500	2700		ug/Kg		108	65 - 135
1,2,4-Trimethylbenzene	2500	2430		ug/Kg		97	70 - 125
1,2-Dibromo-3-Chloropropane	2500	1980		ug/Kg		79	45 - 135
1,2-Dichlorobenzene	2500	2560		ug/Kg		102	70 - 120
1,2-Dichloroethane	2500	2150		ug/Kg		86	60 - 145
1,2-Dichloropropane	2500	2340		ug/Kg		94	75 - 125
1,3,5-Trimethylbenzene	2500	2470		ug/Kg		99	70 - 125
1,3-Dichlorobenzene	2500	2490		ug/Kg		99	70 - 125
1,3-Dichloropropane	2500	2300		ug/Kg		92	65 - 130
1,4-Dichlorobenzene	2500	2490		ug/Kg		99	70 - 125
2,2-Dichloropropane	2500	2370		ug/Kg		95	60 - 145
2-Chlorotoluene	2500	2370		ug/Kg		95	70 - 125
2-Hexanone	2500	1490		ug/Kg		59	35 - 140
4-Chlorotoluene	2500	2420		ug/Kg		97	70 - 125
4-Isopropyltoluene	2500	2530		ug/Kg		101	70 - 125
Benzene	2500	2480		ug/Kg		99	65 - 120
Bromobenzene	2500	2570		ug/Kg		103	70 - 120
Bromoform	2500	2460		ug/Kg		98	50 - 130
Bromomethane	2500	2920		ug/Kg		117	30 - 140
Carbon disulfide	2500	2660		ug/Kg		106	50 - 130
Carbon tetrachloride	2500	2440		ug/Kg		97	65 - 145
Chlorobenzene	2500	2500		ug/Kg		100	70 - 125
Chlorobromomethane	2500	2800		ug/Kg		112	65 - 125
Chloroethane	2500	2690		ug/Kg		108	40 - 140
Chloroform	2500	2520		ug/Kg		101	75 - 130
Chloromethane	2500	2270		ug/Kg		91	30 - 140
cis-1,2-Dichloroethene	2500	2540		ug/Kg		102	65 - 130
cis-1,3-Dichloropropene	2500	2520		ug/Kg		101	70 - 130
Chlorodibromomethane	2500	2380		ug/Kg		95	65 - 140
Dibromomethane	2500	2390		ug/Kg		96	65 - 130
Dichlorobromomethane	2500	2290		ug/Kg		91	65 - 135
Dichlorodifluoromethane	2500	2180		ug/Kg		87	10 - 155
Ethylbenzene	2500	2440		ug/Kg		98	80 - 120
Hexachlorobutadiene	2500	2760		ug/Kg		110	60 - 135
Isopropylbenzene	2500	2560		ug/Kg		102	70 - 125
m-Xylene & p-Xylene	2500	2610		ug/Kg		104	70 - 125
Methylene Chloride	2500	2770		ug/Kg		111	60 - 140
Methyl tert-butyl ether	2500	2420		ug/Kg		97	55 - 145
Naphthalene	2500	2340		ug/Kg		94	50 - 140
n-Butylbenzene	2500	2470		ug/Kg		99	70 - 130
N-Propylbenzene	2500	2470		ug/Kg		99	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525147/5
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	2500	2660		ug/Kg		106	70 - 125
sec-Butylbenzene	2500	2510		ug/Kg		101	70 - 125
Styrene	2500	2500		ug/Kg		100	70 - 135
tert-Butylbenzene	2500	2570		ug/Kg		103	70 - 125
Tetrachloroethene	2500	2650		ug/Kg		106	65 - 125
Toluene	2500	2500		ug/Kg		100	80 - 120
trans-1,2-Dichloroethene	2500	2820		ug/Kg		113	65 - 130
trans-1,3-Dichloropropene	2500	2400		ug/Kg		96	65 - 135
Trichloroethene	2500	2690		ug/Kg		108	70 - 130
Trichlorofluoromethane	2500	2430		ug/Kg		97	50 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2900		ug/Kg		116	60 - 140
Vinyl acetate	2500	2190		ug/Kg		87	25 - 145
Vinyl chloride	2500	1260		ug/Kg		50	10 - 120
Ethylene Dibromide	2500	2400		ug/Kg		96	70 - 130
2-Butanone (MEK)	2500	2130		ug/Kg		85	40 - 145
4-Methyl-2-pentanone (MIBK)	2500	1470		ug/Kg		59	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 140*

Lab Sample ID: LCSD 440-525147/6
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	2500	2280		ug/Kg		91	55 - 130	4	25
1,1,1,2-Tetrachloroethane	2500	2470		ug/Kg		99	70 - 140	1	20
1,1,1-Trichloroethane	2500	2440		ug/Kg		98	65 - 140	3	20
1,1,2,2-Tetrachloroethane	2500	2250		ug/Kg		90	55 - 135	2	25
1,1,2-Trichloroethane	2500	2440		ug/Kg		98	65 - 130	4	20
1,1-Dichloroethane	2500	2410		ug/Kg		96	65 - 130	2	20
1,1-Dichloroethene	2500	3120		ug/Kg		125	75 - 140	3	20
1,1-Dichloropropene	2500	2400		ug/Kg		96	70 - 130	1	20
1,2,3-Trichlorobenzene	2500	2730		ug/Kg		109	60 - 135	4	20
1,2,4-Trichlorobenzene	2500	2780		ug/Kg		111	65 - 135	3	20
1,2,4-Trimethylbenzene	2500	2580		ug/Kg		103	70 - 125	6	20
1,2-Dibromo-3-Chloropropane	2500	2150		ug/Kg		86	45 - 135	8	25
1,2-Dichlorobenzene	2500	2630		ug/Kg		105	70 - 120	3	20
1,2-Dichloroethane	2500	2230		ug/Kg		89	60 - 145	4	20
1,2-Dichloropropane	2500	2320		ug/Kg		93	75 - 125	1	20
1,3,5-Trimethylbenzene	2500	2570		ug/Kg		103	70 - 125	4	20
1,3-Dichlorobenzene	2500	2600		ug/Kg		104	70 - 125	5	20
1,3-Dichloropropane	2500	2330		ug/Kg		93	65 - 130	1	20
1,4-Dichlorobenzene	2500	2570		ug/Kg		103	70 - 125	3	20
2,2-Dichloropropane	2500	2510		ug/Kg		100	60 - 145	6	25
2-Chlorotoluene	2500	2430		ug/Kg		97	70 - 125	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525147/6
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	2500	1420		ug/Kg		57	35 - 140	4	30
4-Chlorotoluene	2500	2470		ug/Kg		99	70 - 125	2	20
4-Isopropyltoluene	2500	2620		ug/Kg		105	70 - 125	3	20
Benzene	2500	2630		ug/Kg		105	65 - 120	6	20
Bromobenzene	2500	2650		ug/Kg		106	70 - 120	3	20
Bromoform	2500	2450		ug/Kg		98	50 - 130	0	25
Bromomethane	2500	3080		ug/Kg		123	30 - 140	5	30
Carbon disulfide	2500	2750		ug/Kg		110	50 - 130	3	20
Carbon tetrachloride	2500	2520		ug/Kg		101	65 - 145	3	20
Chlorobenzene	2500	2510		ug/Kg		100	70 - 125	0	20
Chlorobromomethane	2500	2930		ug/Kg		117	65 - 125	5	20
Chloroethane	2500	2770		ug/Kg		111	40 - 140	3	25
Chloroform	2500	2580		ug/Kg		103	75 - 130	2	20
Chloromethane	2500	2290		ug/Kg		91	30 - 140	1	25
cis-1,2-Dichloroethene	2500	2630		ug/Kg		105	65 - 130	3	20
cis-1,3-Dichloropropene	2500	2550		ug/Kg		102	70 - 130	1	20
Chlorodibromomethane	2500	2440		ug/Kg		98	65 - 140	3	20
Dibromomethane	2500	2340		ug/Kg		94	65 - 130	2	20
Dichlorobromomethane	2500	2320		ug/Kg		93	65 - 135	1	20
Dichlorodifluoromethane	2500	2250		ug/Kg		90	10 - 155	3	30
Ethylbenzene	2500	2500		ug/Kg		100	80 - 120	2	20
Hexachlorobutadiene	2500	2840		ug/Kg		114	60 - 135	3	20
Isopropylbenzene	2500	2590		ug/Kg		104	70 - 125	1	20
m-Xylene & p-Xylene	2500	2650		ug/Kg		106	70 - 125	2	20
Methylene Chloride	2500	2820		ug/Kg		113	60 - 140	2	20
Methyl tert-butyl ether	2500	2580		ug/Kg		103	55 - 145	6	25
Naphthalene	2500	2470		ug/Kg		99	50 - 140	5	25
n-Butylbenzene	2500	2590		ug/Kg		104	70 - 130	5	20
N-Propylbenzene	2500	2510		ug/Kg		100	70 - 130	2	20
o-Xylene	2500	2560		ug/Kg		102	70 - 125	4	20
sec-Butylbenzene	2500	2630		ug/Kg		105	70 - 125	4	20
Styrene	2500	2530		ug/Kg		101	70 - 135	1	20
tert-Butylbenzene	2500	2680		ug/Kg		107	70 - 125	4	20
Tetrachloroethene	2500	2750		ug/Kg		110	65 - 125	4	20
Toluene	2500	2470		ug/Kg		99	80 - 120	1	20
trans-1,2-Dichloroethene	2500	3020		ug/Kg		121	65 - 130	7	20
trans-1,3-Dichloropropene	2500	2410		ug/Kg		96	65 - 135	0	20
Trichloroethene	2500	2740		ug/Kg		109	70 - 130	2	20
Trichlorofluoromethane	2500	2510		ug/Kg		100	50 - 145	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	3090		ug/Kg		124	60 - 140	6	40
Vinyl acetate	2500	2260		ug/Kg		90	25 - 145	3	25
Vinyl chloride	2500	1290		ug/Kg		51	10 - 120	2	30
Ethylene Dibromide	2500	2310		ug/Kg		92	70 - 130	4	20
2-Butanone (MEK)	2500	2090		ug/Kg		84	40 - 145	2	30
4-Methyl-2-pentanone (MIBK)	2500	1490		ug/Kg		60	40 - 145	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525147/6
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 140*

Lab Sample ID: 720-90961-A-11-B MS
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		40.3	43.3		ug/Kg		108	50 - 150
1,1,1,2-Tetrachloroethane	ND		40.3	42.9		ug/Kg		107	65 - 145
1,1,1-Trichloroethane	ND		40.3	44.0		ug/Kg		109	65 - 145
1,1,2,2-Tetrachloroethane	ND		40.3	34.2		ug/Kg		85	40 - 160
1,1,2-Trichloroethane	ND		40.3	36.6		ug/Kg		91	65 - 140
1,1-Dichloroethane	ND		40.3	37.7		ug/Kg		94	65 - 135
1,1-Dichloroethene	ND		40.3	40.8		ug/Kg		101	65 - 135
1,1-Dichloropropene	ND		40.3	37.7		ug/Kg		94	65 - 135
1,2,3-Trichlorobenzene	ND		40.3	24.7		ug/Kg		61	45 - 145
1,2,4-Trichlorobenzene	ND		40.3	28.1		ug/Kg		70	50 - 140
1,2,4-Trimethylbenzene	ND		40.3	33.1		ug/Kg		82	65 - 140
1,2-Dibromo-3-Chloropropane	ND		40.3	34.9		ug/Kg		87	40 - 150
1,2-Dichlorobenzene	ND		40.3	37.4		ug/Kg		93	70 - 130
1,2-Dichloroethane	ND		40.3	41.5		ug/Kg		103	60 - 150
1,2-Dichloropropane	ND		40.3	36.8		ug/Kg		91	65 - 130
1,3,5-Trimethylbenzene	ND		40.3	33.4		ug/Kg		83	65 - 135
1,3-Dichlorobenzene	ND		40.3	38.0		ug/Kg		94	70 - 130
1,3-Dichloropropane	ND		40.3	36.8		ug/Kg		91	65 - 140
1,4-Dichlorobenzene	ND		40.3	38.9		ug/Kg		97	70 - 130
2,2-Dichloropropane	ND		40.3	41.9		ug/Kg		104	65 - 150
2-Chlorotoluene	ND		40.3	34.0		ug/Kg		85	60 - 135
2-Hexanone	ND		40.3	33.1		ug/Kg		82	35 - 160
4-Chlorotoluene	ND		40.3	33.5		ug/Kg		83	65 - 135
4-Isopropyltoluene	ND		40.3	33.6		ug/Kg		83	60 - 140
Benzene	ND		40.3	36.0		ug/Kg		90	65 - 130
Bromobenzene	ND		40.3	44.7		ug/Kg		111	65 - 140
Bromoform	ND		40.3	43.8		ug/Kg		109	50 - 145
Bromomethane	ND		40.3	39.9		ug/Kg		99	60 - 155
Carbon disulfide	ND		40.3	35.3		ug/Kg		88	40 - 140
Carbon tetrachloride	ND		40.3	45.2		ug/Kg		112	60 - 145
Chlorobenzene	ND		40.3	38.7		ug/Kg		96	70 - 130
Chlorobromomethane	ND		40.3	47.0		ug/Kg		117	65 - 145
Chloroethane	ND		40.3	34.2		ug/Kg		85	60 - 150
Chloroform	ND		40.3	39.7		ug/Kg		99	65 - 135
Chloromethane	ND		40.3	35.2		ug/Kg		87	40 - 145
cis-1,2-Dichloroethene	ND		40.3	42.6		ug/Kg		106	65 - 135
cis-1,3-Dichloropropene	ND		40.3	39.5		ug/Kg		98	70 - 135
Chlorodibromomethane	ND		40.3	44.1		ug/Kg		110	60 - 145
Dibromomethane	ND		40.3	41.3		ug/Kg		103	65 - 140
Dichlorobromomethane	ND		40.3	38.8		ug/Kg		96	65 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90961-A-11-B MS
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		40.3	38.5		ug/Kg		96	30 - 160
Ethylbenzene	ND		40.3	33.8		ug/Kg		84	70 - 135
Hexachlorobutadiene	ND		40.3	23.7		ug/Kg		59	50 - 145
Isopropylbenzene	ND		40.3	32.4		ug/Kg		80	70 - 145
m-Xylene & p-Xylene	ND		40.3	34.1		ug/Kg		85	70 - 130
Methylene Chloride	ND		40.3	37.0		ug/Kg		92	55 - 145
Methyl tert-butyl ether	ND		40.3	42.6		ug/Kg		106	55 - 155
Naphthalene	ND		40.3	29.4		ug/Kg		73	40 - 150
n-Butylbenzene	ND		40.3	26.7		ug/Kg		66	55 - 145
N-Propylbenzene	ND		40.3	33.2		ug/Kg		82	65 - 140
o-Xylene	ND		40.3	34.7		ug/Kg		86	65 - 130
sec-Butylbenzene	ND		40.3	30.2		ug/Kg		75	60 - 135
Styrene	ND		40.3	30.4		ug/Kg		75	70 - 140
tert-Butylbenzene	ND		40.3	35.9		ug/Kg		89	60 - 140
Tetrachloroethene	ND		40.3	45.7		ug/Kg		114	65 - 135
Toluene	ND		40.3	36.9		ug/Kg		92	70 - 130
trans-1,2-Dichloroethene	ND		40.3	39.9		ug/Kg		99	70 - 135
trans-1,3-Dichloropropene	ND		40.3	37.6		ug/Kg		93	60 - 145
Trichloroethene	ND	*	40.3	44.1		ug/Kg		110	65 - 140
Trichlorofluoromethane	ND		40.3	41.9		ug/Kg		104	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40.3	41.2		ug/Kg		102	60 - 140
Vinyl acetate	ND	F1	40.3	ND	F1	ug/Kg		0	40 - 150
Vinyl chloride	ND		40.3	33.4		ug/Kg		83	55 - 140
Ethylene Dibromide	ND		40.3	37.8		ug/Kg		94	65 - 140
2-Butanone (MEK)	ND		40.3	35.3		ug/Kg		88	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		40.3	34.3		ug/Kg		85	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*

Lab Sample ID: 720-90961-A-11-C MSD
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		41.5	43.3		ug/Kg		104	50 - 150	0	30
1,1,1,2-Tetrachloroethane	ND		41.5	44.4		ug/Kg		107	65 - 145	3	20
1,1,1-Trichloroethane	ND		41.5	46.1		ug/Kg		111	65 - 145	5	20
1,1,2,2-Tetrachloroethane	ND		41.5	35.1		ug/Kg		85	40 - 160	3	30
1,1,2-Trichloroethane	ND		41.5	37.8		ug/Kg		91	65 - 140	3	30
1,1-Dichloroethane	ND		41.5	39.2		ug/Kg		94	65 - 135	4	25
1,1-Dichloroethene	ND		41.5	42.4		ug/Kg		102	65 - 135	4	25
1,1-Dichloropropene	ND		41.5	39.4		ug/Kg		95	65 - 135	4	20
1,2,3-Trichlorobenzene	ND		41.5	32.5		ug/Kg		78	45 - 145	27	30
1,2,4-Trichlorobenzene	ND		41.5	35.3		ug/Kg		85	50 - 140	23	30
1,2,4-Trimethylbenzene	ND		41.5	32.8		ug/Kg		79	65 - 140	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90961-A-11-C MSD
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		41.5	37.3		ug/Kg		90	40 - 150	7	30
1,2-Dichlorobenzene	ND		41.5	41.0		ug/Kg		99	70 - 130	9	25
1,2-Dichloroethane	ND		41.5	43.5		ug/Kg		105	60 - 150	5	25
1,2-Dichloropropane	ND		41.5	38.7		ug/Kg		93	65 - 130	5	20
1,3,5-Trimethylbenzene	ND		41.5	33.0		ug/Kg		80	65 - 135	1	25
1,3-Dichlorobenzene	ND		41.5	39.6		ug/Kg		95	70 - 130	4	25
1,3-Dichloropropane	ND		41.5	37.1		ug/Kg		89	65 - 140	1	25
1,4-Dichlorobenzene	ND		41.5	39.7		ug/Kg		96	70 - 130	2	25
2,2-Dichloropropane	ND		41.5	43.2		ug/Kg		104	65 - 150	3	25
2-Chlorotoluene	ND		41.5	33.4		ug/Kg		80	60 - 135	2	25
2-Hexanone	ND		41.5	33.8		ug/Kg		81	35 - 160	2	40
4-Chlorotoluene	ND		41.5	33.2		ug/Kg		80	65 - 135	1	25
4-Isopropyltoluene	ND		41.5	34.3		ug/Kg		83	60 - 140	2	25
Benzene	ND		41.5	37.5		ug/Kg		90	65 - 130	4	20
Bromobenzene	ND		41.5	44.1		ug/Kg		106	65 - 140	1	25
Bromoform	ND		41.5	47.5		ug/Kg		114	50 - 145	8	30
Bromomethane	ND		41.5	42.4		ug/Kg		102	60 - 155	6	25
Carbon disulfide	ND		41.5	37.4		ug/Kg		90	40 - 140	6	20
Carbon tetrachloride	ND		41.5	46.9		ug/Kg		113	60 - 145	4	25
Chlorobenzene	ND		41.5	38.7		ug/Kg		93	70 - 130	0	25
Chlorobromomethane	ND		41.5	49.3		ug/Kg		119	65 - 145	5	25
Chloroethane	ND		41.5	35.2		ug/Kg		85	60 - 150	3	25
Chloroform	ND		41.5	41.8		ug/Kg		101	65 - 135	5	20
Chloromethane	ND		41.5	36.8		ug/Kg		89	40 - 145	4	25
cis-1,2-Dichloroethene	ND		41.5	44.1		ug/Kg		106	65 - 135	3	25
cis-1,3-Dichloropropene	ND		41.5	40.3		ug/Kg		97	70 - 135	2	25
Chlorodibromomethane	ND		41.5	46.1		ug/Kg		111	60 - 145	4	25
Dibromomethane	ND		41.5	43.2		ug/Kg		104	65 - 140	4	25
Dichlorobromomethane	ND		41.5	41.0		ug/Kg		99	65 - 145	6	20
Dichlorodifluoromethane	ND		41.5	39.8		ug/Kg		96	30 - 160	3	35
Ethylbenzene	ND		41.5	34.7		ug/Kg		84	70 - 135	3	25
Hexachlorobutadiene	ND		41.5	27.5		ug/Kg		66	50 - 145	15	35
Isopropylbenzene	ND		41.5	34.2		ug/Kg		82	70 - 145	5	25
m-Xylene & p-Xylene	ND		41.5	35.0		ug/Kg		84	70 - 130	2	25
Methylene Chloride	ND		41.5	39.5		ug/Kg		95	55 - 145	6	25
Methyl tert-butyl ether	ND		41.5	45.4		ug/Kg		109	55 - 155	6	35
Naphthalene	ND		41.5	35.5		ug/Kg		85	40 - 150	19	40
n-Butylbenzene	ND		41.5	28.0		ug/Kg		67	55 - 145	5	30
N-Propylbenzene	ND		41.5	31.5		ug/Kg		76	65 - 140	5	25
o-Xylene	ND		41.5	36.9		ug/Kg		89	65 - 130	6	25
sec-Butylbenzene	ND		41.5	30.9		ug/Kg		74	60 - 135	2	25
Styrene	ND		41.5	31.3		ug/Kg		75	70 - 140	3	25
tert-Butylbenzene	ND		41.5	35.9		ug/Kg		86	60 - 140	0	25
Tetrachloroethene	ND		41.5	45.7		ug/Kg		110	65 - 135	0	25
Toluene	ND		41.5	36.9		ug/Kg		89	70 - 130	0	20
trans-1,2-Dichloroethene	ND		41.5	41.8		ug/Kg		101	70 - 135	5	25
trans-1,3-Dichloropropene	ND		41.5	38.1		ug/Kg		92	60 - 145	1	25
Trichloroethene	ND	*	41.5	46.1		ug/Kg		111	65 - 140	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90961-A-11-C MSD
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	ND		41.5	43.7		ug/Kg		105	55 - 155	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		41.5	43.4		ug/Kg		105	60 - 140	5	40
Vinyl acetate	ND	F1	41.5	15.3	F1	ug/Kg		37	40 - 150	NC	30
Vinyl chloride	ND		41.5	34.3		ug/Kg		83	55 - 140	3	30
Ethylene Dibromide	ND		41.5	40.4		ug/Kg		97	65 - 140	7	25
2-Butanone (MEK)	ND		41.5	37.0		ug/Kg		89	25 - 170	5	40
4-Methyl-2-pentanone (MIBK)	ND		41.5	35.1		ug/Kg		85	40 - 155	2	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-524856/4
Matrix: Solid
Analysis Batch: 524856

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/25/19 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*60 - 120*		*01/25/19 08:00*	*1*
4-Bromofluorobenzene (Surr)	*85*		*79 - 120*		*01/25/19 08:00*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/25/19 08:00*	*1*

Lab Sample ID: LCS 440-524856/6
Matrix: Solid
Analysis Batch: 524856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	962		ug/Kg		96	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*116*		*60 - 120*
4-Bromofluorobenzene (Surr)	*83*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-90949-A-6-C MSD
Matrix: Solid
Analysis Batch: 524856

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND	F2	2750	2590	F4	ug/Kg		94	55 - 140	30	25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90949-A-6-C MSD
Matrix: Solid
Analysis Batch: 524856

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524903

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*115*		*60 - 120*
4-Bromofluorobenzene (Surr)	*83*		*79 - 120*
Toluene-d8 (Surr)	*93*		*79 - 123*

Lab Sample ID: 720-90949-B-6-A MS
Matrix: Solid
Analysis Batch: 524856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND	F2	2320	1910		ug/Kg		82	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*115*		*60 - 120*
4-Bromofluorobenzene (Surr)	*92*		*79 - 120*
Toluene-d8 (Surr)	*95*		*79 - 123*

Lab Sample ID: MB 440-525144/4
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/26/19 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*60 - 120*		*01/26/19 12:11*	*1*
4-Bromofluorobenzene (Surr)	*85*		*79 - 120*		*01/26/19 12:11*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/26/19 12:11*	*1*

Lab Sample ID: LCS 440-525144/17
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	495		ug/Kg		99	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*116*		*60 - 120*
4-Bromofluorobenzene (Surr)	*84*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-525148/4
Matrix: Solid
Analysis Batch: 525148

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			01/26/19 12:15	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*55 - 140*		*01/26/19 12:15*	*100*
4-Bromofluorobenzene (Surr)	*93*		*65 - 140*		*01/26/19 12:15*	*100*
Toluene-d8 (Surr)	*98*		*60 - 140*		*01/26/19 12:15*	*100*

Lab Sample ID: LCS 440-525148/7
Matrix: Solid
Analysis Batch: 525148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			50000	56700		ug/Kg		113	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*55 - 140*
4-Bromofluorobenzene (Surr)	*93*		*65 - 140*
Toluene-d8 (Surr)	*97*		*60 - 140*

Lab Sample ID: LCSD 440-525148/8
Matrix: Solid
Analysis Batch: 525148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			50000	58500		ug/Kg		117	60 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*55 - 140*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

Lab Sample ID: 720-90961-A-11-B MS
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		2780	2080		ug/Kg		75	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*117*		*60 - 120*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90961-A-11-C MSD
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		2870	2370		ug/Kg		83	55 - 140	13	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*122*	*X*	*60 - 120*
4-Bromofluorobenzene (Surr)	*89*		*79 - 120*
Toluene-d8 (Surr)	*96*		*79 - 123*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-258941/1-A
Matrix: Solid
Analysis Batch: 259084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258941

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Anthracene	ND		5.0	2.0	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Chrysene	ND		5.0	1.4	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Fluorene	ND		5.0	2.2	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/22/19 10:21	01/23/19 21:18	1
Pyrene	ND		5.0	1.7	ug/Kg		01/22/19 10:21	01/23/19 21:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*01/22/19 10:21*	*01/23/19 21:18*	*1*
Terphenyl-d14	*99*		*35 - 146*	*01/22/19 10:21*	*01/23/19 21:18*	*1*

Lab Sample ID: LCS 720-258941/2-A
Matrix: Solid
Analysis Batch: 259084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	373		ug/Kg		56	46 - 110
Acenaphthene	667	423		ug/Kg		63	46 - 106
Acenaphthylene	667	421		ug/Kg		63	46 - 108
Anthracene	667	537		ug/Kg		81	55 - 103
Benzo[a]anthracene	667	548		ug/Kg		82	54 - 110

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-258941/2-A
Matrix: Solid
Analysis Batch: 259084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	667	599		ug/Kg		90	62 - 111
Benzo[b]fluoranthene	667	580		ug/Kg		87	60 - 109
Benzo[g,h,i]perylene	667	531		ug/Kg		80	52 - 114
Benzo[k]fluoranthene	667	576		ug/Kg		86	58 - 109
Chrysene	667	613		ug/Kg		92	54 - 108
Dibenz(a,h)anthracene	667	564		ug/Kg		85	58 - 112
Fluoranthene	667	603		ug/Kg		90	59 - 109
Fluorene	667	456		ug/Kg		68	52 - 106
Indeno[1,2,3-cd]pyrene	667	571		ug/Kg		86	55 - 120
Naphthalene	667	368		ug/Kg		55	49 - 110
Phenanthrene	667	507		ug/Kg		76	57 - 110
Pyrene	667	564		ug/Kg		85	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*56*		*33 - 120*
Terphenyl-d14	*98*		*35 - 146*

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 259125

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 258941

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		654	629		ug/Kg		96	46 - 110
Acenaphthene	520		654	1080		ug/Kg		85	46 - 106
Acenaphthylene	ND		654	538		ug/Kg		82	46 - 108
Anthracene	650		654	1020		ug/Kg		57	55 - 103
Benzo[a]anthracene	330		654	832		ug/Kg		77	54 - 110
Benzo[a]pyrene	440		654	918		ug/Kg		73	62 - 111
Benzo[b]fluoranthene	200	J	654	730		ug/Kg		82	60 - 109
Benzo[g,h,i]perylene	240	J F1	654	513	F1	ug/Kg		41	52 - 114
Benzo[k]fluoranthene	ND		654	531		ug/Kg		81	58 - 109
Chrysene	740	F1	654	1370		ug/Kg		97	54 - 108
Dibenz(a,h)anthracene	ND	F1	654	366	F1	ug/Kg		56	58 - 112
Fluoranthene	490	F1	654	862	F1	ug/Kg		56	59 - 109
Fluorene	470		654	827		ug/Kg		55	52 - 106
Indeno[1,2,3-cd]pyrene	ND		654	383		ug/Kg		59	55 - 120
Naphthalene	180	J	654	620		ug/Kg		68	49 - 110
Phenanthrene	1100	F1	654	1170	F1	ug/Kg		17	57 - 110
Pyrene	2200	F1	654	2410	F1	ug/Kg		32	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*33 - 120*
Terphenyl-d14	*96*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90948-7 MSD
Matrix: Solid
Analysis Batch: 259125

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 258941

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		655	632		ug/Kg		96	46 - 110	0	35
Acenaphthene	520		655	1020		ug/Kg		75	46 - 106	6	35
Acenaphthylene	ND		655	550		ug/Kg		84	46 - 108	2	35
Anthracene	650		655	1060		ug/Kg		63	55 - 103	4	35
Benzo[a]anthracene	330		655	1030		ug/Kg		108	54 - 110	22	35
Benzo[a]pyrene	440		655	977		ug/Kg		82	62 - 111	6	35
Benzo[b]fluoranthene	200	J	655	781		ug/Kg		89	60 - 109	7	35
Benzo[g,h,i]perylene	240	J F1	655	493	F1	ug/Kg		38	52 - 114	4	35
Benzo[k]fluoranthene	ND		655	568		ug/Kg		87	58 - 109	7	35
Chrysene	740	F1	655	1500	F1	ug/Kg		117	54 - 108	9	35
Dibenz(a,h)anthracene	ND	F1	655	370	F1	ug/Kg		56	58 - 112	1	35
Fluoranthene	490	F1	655	901		ug/Kg		62	59 - 109	4	35
Fluorene	470		655	833		ug/Kg		55	52 - 106	1	35
Indeno[1,2,3-cd]pyrene	ND		655	402		ug/Kg		61	55 - 120	5	35
Naphthalene	180	J	655	607		ug/Kg		66	49 - 110	2	35
Phenanthrene	1100	F1	655	1530		ug/Kg		72	57 - 110	27	35
Pyrene	2200	F1	655	2560		ug/Kg		55	50 - 120	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*33 - 120*
Terphenyl-d14	*99*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-259352/1-A
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/28/19 15:35	01/30/19 22:07	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/28/19 15:35	01/30/19 22:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*01/28/19 15:35*	*01/30/19 22:07*	*1*

Lab Sample ID: LCS 720-259352/2-A
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259352

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	174		mg/Kg		105	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*127*		*40 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 259352

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	10000	F2	161	8100	4	mg/Kg		-1246	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Lab Sample ID: 720-90948-7 MSD
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 259352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	10000	F2	164	11400	4 F2	mg/Kg		773	50 - 150	34	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-259253/1-A
Matrix: Solid
Analysis Batch: 259372

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Aldrin	ND		2.0	0.50	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Endrin	ND		2.0	0.46	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/25/19 13:57	01/29/19 14:09	1
Toxaphene	ND		40	6.8	ug/Kg		01/25/19 13:57	01/29/19 14:09	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-259253/1-A
Matrix: Solid
Analysis Batch: 259372

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259253

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	118		21 - 136	01/25/19 13:57	01/29/19 14:09	1
Tetrachloro-m-xylene	71		21 - 145	01/25/19 13:57	01/29/19 14:09	1

Lab Sample ID: LCS 720-259253/2-A
Matrix: Solid
Analysis Batch: 259372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	14.9		ug/Kg		90	75 - 128
4,4'-DDE	16.7	14.3		ug/Kg		86	76 - 126
4,4'-DDT	16.7	16.5		ug/Kg		99	63 - 127
Aldrin	16.7	14.0		ug/Kg		84	65 - 120
alpha-BHC	16.7	13.7		ug/Kg		82	46 - 122
alpha-Chlordane	16.7	14.4		ug/Kg		86	70 - 120
beta-BHC	16.7	16.1		ug/Kg		97	78 - 136
delta-BHC	16.7	16.1		ug/Kg		97	43 - 125
Dieldrin	16.7	14.5		ug/Kg		87	72 - 120
Endosulfan I	16.7	14.7		ug/Kg		88	62 - 120
Endosulfan II	16.7	15.9		ug/Kg		95	65 - 120
Endosulfan sulfate	16.7	16.1		ug/Kg		97	72 - 121
Endrin	16.7	16.5		ug/Kg		99	68 - 120
Endrin aldehyde	16.7	17.8		ug/Kg		107	68 - 120
Endrin ketone	16.7	16.3		ug/Kg		98	75 - 136
gamma-BHC (Lindane)	16.7	14.5		ug/Kg		87	72 - 120
gamma-Chlordane	16.7	14.3		ug/Kg		86	68 - 120
Heptachlor	16.7	14.1		ug/Kg		85	69 - 120
Heptachlor epoxide	16.7	14.4		ug/Kg		86	68 - 120
Methoxychlor	16.7	17.8		ug/Kg		107	71 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	103		21 - 136
Tetrachloro-m-xylene	84		21 - 145

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 259371

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 259253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F2	16.1	11.2	p	ug/Kg		69	40 - 120
4,4'-DDE	ND		16.1	15.4	p	ug/Kg		95	40 - 120
4,4'-DDT	ND	F2	16.1	6.68	J p	ug/Kg		42	17 - 144
Aldrin	ND		16.1	9.20	J	ug/Kg		57	53 - 120
alpha-BHC	ND		16.1	13.6		ug/Kg		85	40 - 120
alpha-Chlordane	ND	F2	16.1	11.3		ug/Kg		70	40 - 120
beta-BHC	ND	F1	16.1	ND	F1	ug/Kg		0	40 - 120
delta-BHC	ND		16.1	15.9		ug/Kg		99	40 - 120
Dieldrin	ND		16.1	14.6	p	ug/Kg		91	46 - 130
Endosulfan I	ND	F2 F1	16.1	21.1	F1	ug/Kg		131	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 259371

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 259253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan II	ND		16.1	13.5		ug/Kg		84	40 - 120
Endosulfan sulfate	ND		16.1	8.31	J	ug/Kg		52	40 - 120
Endrin	ND		16.1	11.6		ug/Kg		72	32 - 143
Endrin aldehyde	ND		16.1	6.15	J F1	ug/Kg		38	40 - 120
Endrin ketone	ND		16.1	7.38	J	ug/Kg		46	40 - 120
gamma-BHC (Lindane)	ND	F1	16.1	17.5		ug/Kg		109	58 - 120
gamma-Chlordane	ND		16.1	10.2	p	ug/Kg		64	40 - 120
Heptachlor	ND	F2	16.1	11.3	p	ug/Kg		70	52 - 120
Heptachlor epoxide	ND		16.1	14.1		ug/Kg		88	40 - 120
Methoxychlor	ND	F1	16.1	ND	F1	ug/Kg		0	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*121*		*21 - 136*
Tetrachloro-m-xylene	*93*		*21 - 145*

Lab Sample ID: 720-90948-7 MSD
Matrix: Solid
Analysis Batch: 259371

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 259253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F2	16.4	14.5	p F2	ug/Kg		88	40 - 120	26	20
4,4'-DDE	ND		16.4	18.7		ug/Kg		114	40 - 120	20	20
4,4'-DDT	ND	F2	16.4	6.73	J p	ug/Kg		41	17 - 144	1	20
Aldrin	ND		16.4	8.66	J p	ug/Kg		53	53 - 120	6	20
alpha-BHC	ND		16.4	13.6		ug/Kg		83	40 - 120	0	20
alpha-Chlordane	ND	F2	16.4	14.9	F2	ug/Kg		90	40 - 120	27	20
beta-BHC	ND	F1	16.4	ND	F1	ug/Kg		0	40 - 120	NC	20
delta-BHC	ND		16.4	16.1		ug/Kg		98	40 - 120	1	20
Dieldrin	ND		16.4	15.3		ug/Kg		93	46 - 130	4	20
Endosulfan I	ND	F2 F1	16.4	8.47	J p F2	ug/Kg		52	40 - 120	85	20
Endosulfan II	ND		16.4	15.0		ug/Kg		91	40 - 120	10	30
Endosulfan sulfate	ND		16.4	10.0		ug/Kg		61	40 - 120	19	20
Endrin	ND		16.4	12.0		ug/Kg		73	32 - 143	3	20
Endrin aldehyde	ND		16.4	6.49	J F1	ug/Kg		39	40 - 120	5	20
Endrin ketone	ND		16.4	6.77	J	ug/Kg		41	40 - 120	9	20
gamma-BHC (Lindane)	ND	F1	16.4	16.9		ug/Kg		103	58 - 120	3	20
gamma-Chlordane	ND		16.4	10.1	p	ug/Kg		61	40 - 120	2	20
Heptachlor	ND	F2	16.4	6.46	J p F2 F1	ug/Kg		39	52 - 120	55	20
Heptachlor epoxide	ND		16.4	16.4		ug/Kg		100	40 - 120	15	20
Methoxychlor	ND	F1	16.4	4.30	J F1	ug/Kg		26	40 - 120	NC	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*114*	*p*	*21 - 136*
Tetrachloro-m-xylene	*107*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-524461/1-A
Matrix: Solid
Analysis Batch: 524711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*45 - 120*	*01/23/19 14:51*	*01/24/19 16:24*	*1*

Lab Sample ID: LCS 440-524461/2-A
Matrix: Solid
Analysis Batch: 524711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524461

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	249		ug/Kg		93	65 - 115		
Aroclor 1260			267	252		ug/Kg		94	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*99*		*45 - 120*

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 524939

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 524461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		264	172		ug/Kg		65	50 - 120		
Aroclor 1260	ND		264	168		ug/Kg		64	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*

Lab Sample ID: 720-90948-7 MSD
Matrix: Solid
Analysis Batch: 524939

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 524461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	199		ug/Kg		75	50 - 120	14	30
Aroclor 1260	ND		266	154		ug/Kg		58	50 - 125	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*79*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259050/1-A
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Arsenic	ND		1.0	0.085	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Barium	0.154	J	0.50	0.071	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Beryllium	ND		0.10	0.033	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Cadmium	ND		0.13	0.012	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Chromium	0.115	J	0.50	0.053	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Cobalt	ND		0.20	0.020	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Copper	ND		1.5	0.71	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Lead	0.298	J	0.50	0.11	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Nickel	ND		0.50	0.051	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Selenium	ND		1.0	0.15	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Silver	ND		0.25	0.051	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Thallium	ND		0.50	0.15	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Vanadium	ND		0.50	0.068	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Zinc	ND		1.5	0.64	mg/Kg		01/24/19 09:37	01/29/19 18:08	1

Lab Sample ID: LCS 720-259050/2-A
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.5		mg/Kg		97	80 - 120
Arsenic	50.0	48.5		mg/Kg		97	80 - 120
Barium	50.0	48.4		mg/Kg		97	80 - 120
Beryllium	50.0	48.4		mg/Kg		97	80 - 120
Cadmium	50.0	49.2		mg/Kg		98	80 - 120
Chromium	50.0	49.5		mg/Kg		99	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	50.0	49.7		mg/Kg		99	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Molybdenum	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	49.6		mg/Kg		99	80 - 120
Selenium	50.0	48.1		mg/Kg		96	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	49.3		mg/Kg		99	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.2	F1 F2	44.2	20.0	F1	mg/Kg		38	75 - 125
Arsenic	15	F1	44.2	71.1	F1	mg/Kg		128	75 - 125
Barium	250	B F2	44.2	245	4	mg/Kg		-2	75 - 125
Beryllium	0.19	J	44.2	43.1		mg/Kg		97	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.80		44.2	43.3		mg/Kg		96	75 - 125
Chromium	18	B	44.2	65.1		mg/Kg		106	75 - 125
Cobalt	7.1		44.2	52.0		mg/Kg		101	75 - 125
Copper	160	F1	44.2	275	F1	mg/Kg		264	75 - 125
Lead	540	B	44.2	755	4	mg/Kg		487	75 - 125
Molybdenum	0.64	J	44.2	41.4		mg/Kg		92	75 - 125
Nickel	20		44.2	69.2		mg/Kg		112	75 - 125
Selenium	1.1	J	44.2	42.5		mg/Kg		93	75 - 125
Silver	1.1		22.1	23.2		mg/Kg		100	75 - 125
Thallium	ND		44.2	38.6		mg/Kg		87	75 - 125
Vanadium	60	F1	44.2	101		mg/Kg		94	75 - 125
Zinc	400		44.2	486	4	mg/Kg		198	75 - 125

Lab Sample ID: 720-90948-7 MSD
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.2	F1 F2	45.0	11.1	F1 F2	mg/Kg		18	75 - 125	57	20
Arsenic	15	F1	45.0	59.0		mg/Kg		99	75 - 125	19	20
Barium	250	B F2	45.0	305	4 F2	mg/Kg		131	75 - 125	22	20
Beryllium	0.19	J	45.0	43.7		mg/Kg		97	75 - 125	2	20
Cadmium	0.80		45.0	44.0		mg/Kg		96	75 - 125	2	20
Chromium	18	B	45.0	60.5		mg/Kg		94	75 - 125	7	20
Cobalt	7.1		45.0	51.2		mg/Kg		98	75 - 125	1	20
Copper	160	F1	45.0	228	F1	mg/Kg		156	75 - 125	19	20
Lead	540	B	45.0	899	4	mg/Kg		798	75 - 125	17	20
Molybdenum	0.64	J	45.0	41.8		mg/Kg		91	75 - 125	1	20
Nickel	20		45.0	65.3		mg/Kg		101	75 - 125	6	20
Selenium	1.1	J	45.0	43.3		mg/Kg		94	75 - 125	2	20
Silver	1.1		22.5	23.4		mg/Kg		99	75 - 125	0	20
Thallium	ND		45.0	40.3		mg/Kg		89	75 - 125	4	20
Vanadium	60	F1	45.0	117	F1	mg/Kg		127	75 - 125	14	20
Zinc	400		45.0	481	4	mg/Kg		184	75 - 125	1	20

Lab Sample ID: MB 720-259069/1-A
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0830	J	0.50	0.083	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Arsenic	ND		1.0	0.085	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Barium	ND		0.50	0.071	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Beryllium	ND		0.10	0.033	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Cadmium	ND		0.13	0.012	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Chromium	0.0792	J	0.50	0.053	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Cobalt	0.0265	J	0.20	0.020	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Copper	ND		1.5	0.71	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Lead	ND		0.50	0.11	mg/Kg		01/24/19 09:37	01/30/19 17:26	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259069/1-A
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Nickel	0.0975	J	0.50	0.051	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Selenium	0.248	J	1.0	0.15	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Silver	ND		0.25	0.051	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Thallium	ND		0.50	0.15	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Vanadium	ND		0.50	0.068	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Zinc	ND		1.5	0.64	mg/Kg		01/24/19 09:37	01/30/19 17:26	1

Lab Sample ID: LCS 720-259069/2-A
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	55.4		mg/Kg		111	80 - 120
Arsenic	50.0	56.6		mg/Kg		113	80 - 120
Barium	50.0	54.9		mg/Kg		110	80 - 120
Beryllium	50.0	56.0		mg/Kg		112	80 - 120
Cadmium	50.0	56.4		mg/Kg		113	80 - 120
Chromium	50.0	56.9		mg/Kg		114	80 - 120
Cobalt	50.0	58.5		mg/Kg		117	80 - 120
Copper	50.0	59.1		mg/Kg		118	80 - 120
Lead	50.0	57.1		mg/Kg		114	80 - 120
Molybdenum	50.0	58.7		mg/Kg		117	80 - 120
Nickel	50.0	57.0		mg/Kg		114	80 - 120
Selenium	50.0	54.2		mg/Kg		108	80 - 120
Silver	25.0	27.0		mg/Kg		108	80 - 120
Thallium	50.0	57.0		mg/Kg		114	80 - 120
Vanadium	50.0	56.3		mg/Kg		113	80 - 120
Zinc	50.0	56.2		mg/Kg		112	80 - 120

Lab Sample ID: 720-90949-D-6-D MS
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.9	B F1	27.6	9.97	F1	mg/Kg		25	75 - 125
Arsenic	9.9		27.6	40.6		mg/Kg		111	75 - 125
Barium	83	F1 F2	27.6	192	F1	mg/Kg		394	75 - 125
Beryllium	ND		27.6	29.8		mg/Kg		108	75 - 125
Cadmium	1.1		27.6	32.7		mg/Kg		114	75 - 125
Chromium	30	B	27.6	64.1		mg/Kg		122	75 - 125
Cobalt	8.9	B	27.6	38.8		mg/Kg		108	75 - 125
Copper	120		27.6	180	4	mg/Kg		223	75 - 125
Lead	170	F2	27.6	274	4	mg/Kg		380	75 - 125
Molybdenum	1.1		27.6	31.2		mg/Kg		109	75 - 125
Nickel	30	B	27.6	63.7		mg/Kg		121	75 - 125
Selenium	ND		27.6	27.9		mg/Kg		101	75 - 125
Silver	0.41	J	13.8	14.6		mg/Kg		102	75 - 125
Thallium	0.38	J ^	27.6	30.5		mg/Kg		109	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90949-D-6-D MS
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	43	F1	27.6	82.5	F1	mg/Kg		143	75 - 125
Zinc	270	F2	27.6	366	4	mg/Kg		338	75 - 125

Lab Sample ID: 720-90949-D-6-E MSD
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259069

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.9	B F1	27.5	8.32	F1	mg/Kg		20	75 - 125	18	20
Arsenic	9.9		27.5	40.3		mg/Kg		111	75 - 125	1	20
Barium	83	F1 F2	27.5	123	F1 F2	mg/Kg		143	75 - 125	44	20
Beryllium	ND		27.5	30.8		mg/Kg		112	75 - 125	3	20
Cadmium	1.1		27.5	31.8		mg/Kg		112	75 - 125	3	20
Chromium	30	B	27.5	63.2		mg/Kg		119	75 - 125	1	20
Cobalt	8.9	B	27.5	39.5		mg/Kg		111	75 - 125	2	20
Copper	120		27.5	154	4	mg/Kg		128	75 - 125	16	20
Lead	170	F2	27.5	191	4 F2	mg/Kg		83	75 - 125	35	20
Molybdenum	1.1		27.5	31.2		mg/Kg		109	75 - 125	0	20
Nickel	30	B	27.5	61.4		mg/Kg		113	75 - 125	4	20
Selenium	ND		27.5	29.3		mg/Kg		107	75 - 125	5	20
Silver	0.41	J	13.7	14.8		mg/Kg		105	75 - 125	1	20
Thallium	0.38	J ^	27.5	30.4		mg/Kg		109	75 - 125	1	20
Vanadium	43	F1	27.5	72.2		mg/Kg		106	75 - 125	13	20
Zinc	270	F2	27.5	276	4 F2	mg/Kg		10	75 - 125	28	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259049/1-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0120	J	0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 16:53	1

Lab Sample ID: LCS 720-259049/2-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.815		mg/Kg		98	80 - 120

Lab Sample ID: 720-90948-7 MS
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: DG-AI11S-3.5-4
Prep Type: Total/NA
Prep Batch: 259049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.31	B	0.820	1.09		mg/Kg		96	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-90948-7 MSD — **Client Sample ID: DG-AI11S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259475 — **Prep Batch: 259049**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.31	B	0.833	1.15		mg/Kg		101	75 - 125	5	20

Lab Sample ID: MB 720-259074/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259474 — **Prep Batch: 259074**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 15:47	1

Lab Sample ID: LCS 720-259074/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259474 — **Prep Batch: 259074**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.797		mg/Kg		96	80 - 120

Lab Sample ID: 720-90949-D-6-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259474 — **Prep Batch: 259074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.19		0.794	0.915		mg/Kg		91	75 - 125

Lab Sample ID: 720-90949-D-6-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259474 — **Prep Batch: 259074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19		0.806	1.02		mg/Kg		103	75 - 125	11	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90948-1 DU — **Client Sample ID: DG-AE11S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259030

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	16.0		15.3		%		4	20

GC/MS VOA

Prep Batch: 524446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	5035	
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	5035	
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	5035	
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 524855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	8260B	524903
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	8260B	524903
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	8260B	524903
MB 440-524855/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-524855/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90949-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	524903
720-90949-B-6-A MS	Matrix Spike	Total/NA	Solid	8260B	524903

Analysis Batch: 524856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	524903
MB 440-524856/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-524856/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90949-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-B-6-A MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	524903

Prep Batch: 524903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	5035	
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	5035	
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	5035	
720-90949-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
720-90949-B-6-A MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 525143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	8260B	525161
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	8260B	525161
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	8260B	525161
MB 440-525143/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-525143/16	Lab Control Sample	Total/NA	Solid	8260B	
720-90961-A-11-B MS	Matrix Spike	Total/NA	Solid	8260B	525161
720-90961-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	525161

GC/MS VOA (Continued)

Analysis Batch: 525144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	525161
MB 440-525144/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525144/17	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90961-A-11-B MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	525161

Analysis Batch: 525147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	8260B	524446
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	8260B	524446
MB 440-525147/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-525147/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-525147/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	8260B	524446
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	8260B	524446

Analysis Batch: 525148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	524446
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	524446
MB 440-525148/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525148/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-525148/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 525161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	5035	
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	5035	
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	5035	
720-90961-A-11-B MS	Matrix Spike	Total/NA	Solid	5035	
720-90961-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 258941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	3546	
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	3546	
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 258941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	3546	
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	3546	
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	3546	
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	3546	
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	3546	
MB 720-258941/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-258941/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	3546	
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 259084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-258941/1-A	Method Blank	Total/NA	Solid	8270C SIM	258941
LCS 720-258941/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	258941

Analysis Batch: 259125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	8270C SIM	258941
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	8270C SIM	258941
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	8270C SIM	258941

Analysis Batch: 259273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	8270C SIM	258941
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	8270C SIM	258941
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	8270C SIM	258941

Analysis Batch: 259323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	8270C SIM	258941
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	8270C SIM	258941
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	8270C SIM	258941
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	8270C SIM	258941

GC Semi VOA

Prep Batch: 259253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	3546	
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	3546	
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	3546	
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	3546	
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	3546	
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	3546	
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	3546	
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	3546	
MB 720-259253/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259253/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	3546	
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 259352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	3546	
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	3546	
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	3546	
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	3546	
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	3546	
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	3546	
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	3546	
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	3546	
MB 720-259352/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259352/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	3546	
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 259371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	8081A	259253
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	8081A	259253
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	8081A	259253

Analysis Batch: 259372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259253/1-A	Method Blank	Total/NA	Solid	8081A	259253
LCS 720-259253/2-A	Lab Control Sample	Total/NA	Solid	8081A	259253

Analysis Batch: 259447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	8015B	259352
MB 720-259352/1-A	Method Blank	Total/NA	Solid	8015B	259352
LCS 720-259352/2-A	Lab Control Sample	Total/NA	Solid	8015B	259352
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	8015B	259352
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	8015B	259352

Analysis Batch: 259608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	8081A	259253
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	8081A	259253
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	8081A	259253
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	8081A	259253
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	8081A	259253
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	8081A	259253
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	8081A	259253

Analysis Batch: 259620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	8015B	259352
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	8015B	259352
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	8015B	259352
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	8015B	259352

GC Semi VOA (Continued)

Analysis Batch: 259725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	8015B	259352
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	8015B	259352
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	8015B	259352

Prep Batch: 524461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	3546	
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	3546	
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	3546	
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	3546	
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	3546	
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	3546	
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	3546	
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	3546	
MB 440-524461/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-524461/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	3546	
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 524711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	8082	524461
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	8082	524461
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	8082	524461
MB 440-524461/1-A	Method Blank	Total/NA	Solid	8082	524461
LCS 440-524461/2-A	Lab Control Sample	Total/NA	Solid	8082	524461

Analysis Batch: 524939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	8082	524461
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	8082	524461
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	8082	524461
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	8082	524461
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	8082	524461
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	8082	524461
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	8082	524461

Metals

Prep Batch: 259049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	7471A	
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	7471A	
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	7471A	
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	7471A	
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	7471A	
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	7471A	
MB 720-259049/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259049/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259049 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 259050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	3050B	
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	3050B	
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	3050B	
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	3050B	
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	3050B	
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	3050B	
MB 720-259050/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259050/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	3050B	
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 259069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	3050B	
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	3050B	
MB 720-259069/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259069/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90949-D-6-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-90949-D-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	7471A	
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	7471A	
MB 720-259074/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259074/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90949-D-6-F MS	Matrix Spike	Total/NA	Solid	7471A	
720-90949-D-6-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 259443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	6010B	259050
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	6010B	259050
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	6010B	259050
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	6010B	259050
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	6010B	259050
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	6010B	259050
MB 720-259050/1-A	Method Blank	Total/NA	Solid	6010B	259050
LCS 720-259050/2-A	Lab Control Sample	Total/NA	Solid	6010B	259050
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	6010B	259050
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	6010B	259050

Analysis Batch: 259474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	7471A	259074
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	7471A	259074
MB 720-259074/1-A	Method Blank	Total/NA	Solid	7471A	259074

Metals (Continued)

Analysis Batch: 259474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-259074/2-A	Lab Control Sample	Total/NA	Solid	7471A	259074
720-90949-D-6-F MS	Matrix Spike	Total/NA	Solid	7471A	259074
720-90949-D-6-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259074

Analysis Batch: 259475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	7471A	259049
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	7471A	259049
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	7471A	259049
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	7471A	259049
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	7471A	259049
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	7471A	259049
MB 720-259049/1-A	Method Blank	Total/NA	Solid	7471A	259049
LCS 720-259049/2-A	Lab Control Sample	Total/NA	Solid	7471A	259049
720-90948-7 MS	DG-AI11S-3.5-4	Total/NA	Solid	7471A	259049
720-90948-7 MSD	DG-AI11S-3.5-4	Total/NA	Solid	7471A	259049

Analysis Batch: 259534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	6010B	259069
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	6010B	259069
MB 720-259069/1-A	Method Blank	Total/NA	Solid	6010B	259069
LCS 720-259069/2-A	Lab Control Sample	Total/NA	Solid	6010B	259069
720-90949-D-6-D MS	Matrix Spike	Total/NA	Solid	6010B	259069
720-90949-D-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259069

Analysis Batch: 259566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	6010B	259050

General Chemistry

Analysis Batch: 259030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-1	DG-AE11S-0.5-1	Total/NA	Solid	Moisture	
720-90948-2	DG-AE11S-3.5-4	Total/NA	Solid	Moisture	
720-90948-3	DG-AG11S-0.5-1	Total/NA	Solid	Moisture	
720-90948-4	DG-AG11S-3.5-4	Total/NA	Solid	Moisture	
720-90948-5	DG-AG11S-9.5-10	Total/NA	Solid	Moisture	
720-90948-6	DG-AI11S-0.5-1	Total/NA	Solid	Moisture	
720-90948-7	DG-AI11S-3.5-4	Total/NA	Solid	Moisture	
720-90948-8	DG-AI11S-9.5-10	Total/NA	Solid	Moisture	
720-90948-1 DU	DG-AE11S-0.5-1	Total/NA	Solid	Moisture	

Client Sample ID: DG-AE11S-0.5-1

Lab Sample ID: 720-90948-1

Date Collected: 01/21/19 12:10

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 13:22	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 13:22	AYL	TAL IRV
Total/NA	Prep	3546			258941	01/22/19 10:21	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		5	259273	01/26/19 01:25	MQL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259725	02/04/19 11:56	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259608	02/01/19 09:27	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 17:36	D1D	TAL IRV
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 20:02	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AE11S-3.5-4

Lab Sample ID: 720-90948-2

Date Collected: 01/21/19 12:10

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 15:50	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 15:50	GK	TAL IRV
Total/NA	Prep	3546			258941	01/22/19 10:21	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		20	259273	01/26/19 01:48	MQL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		10	259620	02/01/19 15:51	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		2	259608	02/01/19 09:45	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 17:51	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 17:59	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 15:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90948-1

Client Sample ID: DG-AG11S-0.5-1

Date Collected: 01/21/19 13:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 14:15	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 14:15	AYL	TAL IRV
Total/NA	Prep	3546			258941	01/22/19 10:21	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		20	259323	01/28/19 11:37	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		10	259620	02/01/19 16:50	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		2	259608	02/01/19 10:02	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524939	01/25/19 13:25	D1D	TAL IRV
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 20:12	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AG11S-3.5-4

Date Collected: 01/21/19 13:30
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90948-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 14:42	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 14:42	AYL	TAL IRV
Total/NA	Prep	3546			258941	01/22/19 10:21	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		10	259323	01/28/19 12:00	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		3	259725	02/04/19 12:55	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259608	02/01/19 10:20	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524939	01/25/19 13:38	D1D	TAL IRV
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 20:16	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AG11S-9.5-10

Lab Sample ID: 720-90948-5

Date Collected: 01/21/19 13:30

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524446	01/23/19 14:08	HR	TAL IRV
Total/NA	Analysis	8260B		200	525147	01/26/19 15:56	GMA	TAL IRV
Total/NA	Prep	5035			524446	01/23/19 14:08	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		200	525148	01/26/19 15:56	GMA	TAL IRV
Total/NA	Prep	3546			258941	01/22/19 10:21	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		100	259273	01/26/19 00:14	MQL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		100	259620	02/01/19 14:53	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259608	02/01/19 10:38	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524939	01/25/19 16:50	D1D	TAL IRV
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 20:21	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AI11S-0.5-1

Lab Sample ID: 720-90948-6

Date Collected: 01/21/19 14:30

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 16:17	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 16:17	GK	TAL IRV
Total/NA	Prep	3546			258941	01/22/19 10:21	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		2	259323	01/28/19 12:24	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259725	02/04/19 12:26	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259608	02/01/19 10:55	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 18:49	D1D	TAL IRV
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259566	01/31/19 12:16	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 20:26	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AI11S-3.5-4

Lab Sample ID: 720-90948-7

Date Collected: 01/21/19 14:30

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524446	01/23/19 14:08	HR	TAL IRV
Total/NA	Analysis	8260B		100	525147	01/26/19 14:33	GMA	TAL IRV
Total/NA	Prep	5035			524446	01/23/19 14:08	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	525148	01/26/19 14:33	GMA	TAL IRV
Total/NA	Prep	3546			258941	01/22/19 10:21	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		50	259125	01/24/19 12:38	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		100	259447	01/31/19 04:27	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		5	259371	01/29/19 15:47	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524939	01/25/19 13:12	D1D	TAL IRV
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 18:36	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AI11S-9.5-10

Lab Sample ID: 720-90948-8

Date Collected: 01/21/19 14:30

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 16:43	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 16:43	GK	TAL IRV
Total/NA	Prep	3546			258941	01/22/19 10:21	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		100	259323	01/28/19 11:13	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		100	259620	02/01/19 15:22	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		10	259608	02/01/19 11:13	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524939	01/25/19 14:05	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:04	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90948-1

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90948-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3546	Solid	Chlordane (n.o.s.)
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90948-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90948-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90948-1	DG-AE11S-0.5-1	Solid	01/21/19 12:10	01/21/19 17:50
720-90948-2	DG-AE11S-3.5-4	Solid	01/21/19 12:10	01/21/19 17:50
720-90948-3	DG-AG11S-0.5-1	Solid	01/21/19 13:30	01/21/19 17:50
720-90948-4	DG-AG11S-3.5-4	Solid	01/21/19 13:30	01/21/19 17:50
720-90948-5	DG-AG11S-9.5-10	Solid	01/21/19 13:30	01/21/19 17:50
720-90948-6	DG-AI11S-0.5-1	Solid	01/21/19 14:30	01/21/19 17:50
720-90948-7	DG-AI11S-3.5-4	Solid	01/21/19 14:30	01/21/19 17:50
720-90948-8	DG-AI11S-9.5-10	Solid	01/21/19 14:30	01/21/19 17:50

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A191387
Received: 01/23/2019
Reported: 2/01/2019
Analyst: Candace Burrus

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AE11S-0.5-1 (720-90948-1)	A20138	No	None Detected	0.00
DG-AE11S-3.5-4 (720-90948-2)	A20139	No	None Detected	0.00
DG-AG11S-0.5-1 (720-90948-3)	A20140	Yes	Chrysotile	0.00
DG-AG11S-3.5-4 (720-90948-4)	A20141	Yes	Chrysotile	0.50
DG-AG11S-9.5-10 (720-90948-5)	A20142	No	None Detected	0.00
DG-AI11S-0.5-1 (720-90948-6)	A20143	No	None Detected	0.00
DG-AI11S-3.5-4 (720-90948-7)	A20144	No	None Detected	0.00
DG-AI11S-9.5-10 (720-90948-8)	A20145	No	None Detected	0.00

REVIEWED BY: _____

LEGEND: None

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METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

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Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

A191387 (8)

A20138 - A20145

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40912.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90948-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/4/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AE11S-0.5-1 (720-90948-1)	1/21/19	12:10 Pacific		Solid			X	1	
DG-AE11S-3.5-4 (720-90948-2)	1/21/19	12:10 Pacific		Solid			X	1	
DG-AG11S-0.5-1 (720-90948-3)	1/21/19	13:30 Pacific		Solid			X	1	
DG-AG11S-3.5-4 (720-90948-4)	1/21/19	13:30 Pacific		Solid			X	1	
DG-AG11S-9.5-10 (720-90948-5)	1/21/19	13:30 Pacific		Solid			X	1	
DG-AI11S-0.5-1 (720-90948-6)	1/21/19	14:30 Pacific		Solid			X	1	
DG-AI11S-3.5-4 (720-90948-7)	1/21/19	14:30 Pacific		Solid			X	1	EUROFINS CEI, INC SAMPLES ACCEPTED
DG-AI11S-9.5-10 (720-90948-8)	1/21/19	14:30 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/22/19 1304	TAPS		1/23/19 9:30	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90948 FB 1/21/19

Chain of Custody Record

1888022

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/21/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	____ of ____ COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90948 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-AE11S-0.5-1	1/21/2019	1240	G	S	7	N	N	X	X	X	X	X	X	X	(Cr(VI) PCBs,
2	DG-AE11S-3.5-4	↓	1210	↑	↓	7		N	x	x	x	x	x	x	x	Short hold
3	DG-AG11S-0.5-1	↓	1330	↓	↓	7		N	x	x	x	x	x	x	x	time
4	DG-AG11S-3.5-4	↓	1330	↓	↓	7		N	x	x	x	x	x	x	x	
5	DG-AG11S-9.5-10	↓	1330	↓	↓	7		N	x	x	x	x	x	x	x	
6	DG-AI11S-0.5-1	↓	1430	↓	↓	7		N	x	x	x	x	x	x	x	
7	DG-AI11S-3.5-4	↓	1430	↓	↓	10		N	x	x	x	x	x	x	x	
8	DG-AI11S-9.5-10	↓	1430	↓	↓	7		N	x	x	x	x	x	x	x	

Page 102 of 109

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.3°C, 2.3°C, 0.8°C, 1.7°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No ____	
Relinquished by	Company GEOSYNTEC	Date/Time 1/21/2019 1600	Received by	Company TA PLS	Date/Time 1-21-19 16:00
Relinquished by	Company TA PLS	Date/Time 1-21-19 1730	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-21-19 17:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/1/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40913.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90948-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LLS/5035A_F_FW_7 8260-(MOD) VOCs + GRO	Special Instructions/Note:
DG-AE11S-0.5-1 (720-90948-1)	1/21/19	12:10 Pacific		Solid	X	X	3
DG-AE11S-3.5-4 (720-90948-2)	1/21/19	12:10 Pacific		Solid	X	X	
DG-AG11S-0.5-1 (720-90948-3)	1/21/19	13:30 Pacific		Solid	X	X	
DG-AG11S-3.5-4 (720-90948-4)	1/21/19	13:30 Pacific		Solid	X	X	
DG-AG11S-9.5-10 (720-90948-5)	1/21/19	13:30 Pacific		Solid	X	X	
DG-AI11S-0.5-1 (720-90948-6)	1/21/19	14:30 Pacific		Solid	X	X	
DG-AI11S-3.5-4 (720-90948-7)	1/21/19	14:30 Pacific		Solid	X	X	2
DG-AI11S-3.5-4 (720-90948-7MS)	1/21/19	14:30 Pacific	MS	Solid	X	X	2
DG-AI11S-3.5-4 (720-90948-7MSD)	1/21/19	14:30 Pacific	MSD	Solid	X	X	2

720-90948 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O		
Relinquished by:	Date/Time: 1/21/19 4:40 PM	Company: TA-PLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/22/19 0836	Company TAW
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: 4956 4574 2337

Cooler Temperature(s) °C and Other Remarks: 2.3, 2.1, 1.6

Ver 09/20/2016

Encores or Terracores Frozen Date: 1/22 Time: 1030 Initials: SA

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40913.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90948-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8082/3546 Standard 8082 ACB Hold	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-A11S-9.5-10 (720-90948-8)	1/21/19	14:30 Pacific		Solid		X	X	X

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification Unconfirmed	**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.
Empty Kit Relinquished by:	Date: Time: Method of Shipment: FedEx D/O
Relinquished by: Date/Time: 1/21/19 4:40pm Company TA-PLS	Received by: Date/Time: Company
Relinquished by: Date/Time: Company	Received by: Date/Time: 1/22/19 0930 Company TAIN
Relinquished by: Date/Time: Company	Received by: Date/Time: Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

TD 1/21/19

Chain of Custody Record

720-90948

188022

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/21/2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	of COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkuhrtas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90948 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1	DG-AE11S-0.5-1	1/21/2019	1210	G	S	7	N	N	X	X	X	X	X	X	X	Cr(VI) & PCBs
2	DG-AE11S-3.5-4	↓	1210	↓	↓	7		N	X	X	X	X	X	X	X	short hold
3	DG-AG11S-0.5-1		1330	↓	↓	7		N	X	X	X	X	X	X	X	time
4	DG-AG11S-3.5-4		1330	↓	↓	7		N	X	X	X	X	X	X	X	
5	DG-AG11S-9.5-10		1330	↓	↓	7		N	X	X	X	X	X	X	X	
6	DG-AI11S-0.5-1		1430	↓	↓	7		N	X	X	X	X	X	X	X	
7	DG-AI11S-3.5-4		1430	↓	↓	10		N	X	X	X	X	X	X	X	
8	DG-AI11S-9.5-10		1430	↓	↓	7		N	X	X	X	X	X	X	X	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.3°C, 2.3°C, 0.8°C, 1.7°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1/21/2019 1700	Received by:	Company: TA PLS	Date/Time: 1-21-19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 1-21-19 17:50	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-21-19 17:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40913.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90948-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaQH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFT/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AE11S-0.5-1 (720-90948-1)	1/21/19	12:10 Pacific		Solid			X	X	X	5	
DG-AE11S-3.5-4 (720-90948-2)	1/21/19	12:10 Pacific		Solid			X	X	X	5	
DG-AG11S-0.5-1 (720-90948-3)	1/21/19	13.30 Pacific		Solid			X	X	X	5	
DG-AG11S-3.5-4 (720-90948-4)	1/21/19	13:30 Pacific		Solid			X	X	X	5	
DG-AG11S-9.5-10 (720-90948-5)	1/21/19	13:30 Pacific		Solid			X	X	X	5	
DG-AI11S-0.5-1 (720-90948-6)	1/21/19	14:30 Pacific		Solid			X	X	X	5	
DG-AI11S-3 5-4 (720-90948-7)	1/21/19	14:30 Pacific		Solid			X	X	X	5	
DG-AI11S-3.5-4 (720-90948-7MS)	1/21/19	14:30 Pacific	MS	Solid			X	X	X	5	
DG-AI11S-3.5-4 (720-90948-7MSD)	1/21/19	14:30 Pacific	MSD	Solid			X	X	X	5	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
	1/22/19 1304	TALS			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	1/23/19 1000	

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		IR gun 2.9/1.4

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40913.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90948-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:				
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EOA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260 (MOD) VOCs + ETO	8260B/CA_LUFTMS/5035A_F_FW_7 8260 OXYG + Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-AI11S-9.5-10 (720-90948-8)	1/21/19	14:30 Pacific		Solid				X	X	X		

Note: Since laboratory accreditations are subject to change TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment			
Relinquished by:	Date/Time: 1/22/19 1304	Company: TAPLS	Received by:	Date/Time	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company	
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1/23/19 1000	Company: TA PLS	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.1 1.1 2.9 1.1			

Ver. 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90948-1

Login Number: 90948
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90948-1

Login Number: 90948
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/22/19 04:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90949-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/14/2019 5:02:18 PM
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F4	MS/MSD RPD exceeds control limits due to sample size difference.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90949-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90949-1

Comments
No additional comments.

Receipt
The samples were received on 1/21/2019 5:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.3º C, 0.8º C, 1.7º C and 2.3º C.

GC/MS VOA
Methods 8260B and 8260B/CA_LUFTMS: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-524903 and analytical batches 440-524855 and 440-524856 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Methods 8260B and 8260B/CA_LUFTMS: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: (720-90961-A-11-C MSD). The MS and parent sample's surrogate recovery was within limits. The MSD sample has been qualified and reported. Matrix interference was suspected

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 440-524853 was outside control limits. Sample matrix interference is suspected. The individual recoveries met acceptance criteria.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batches 440-524903 and 440-525161 and analytical batches 440-524855 and 440-525143 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits for the affected analytes.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-525143 recovered outside control limits for the following analyte: Trichloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a “*” symbol .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: Surrogate recovery for the following samples were outside control limits: DG-Y11S-0.5-1 (720-90949-9) and DUP-76 (720-90949-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-Y11S-0.5-1 (720-90949-9), DG-Y11S-3.5-4 (720-90949-10) and DUP-76 (720-90949-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259123 and analytical batch 720-259452 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 8081A: The following sample required a dilution due to the nature of the sample matrix: DG-Y11S-0.5-1 (720-90949-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information. Elevated reporting limits (RLs) are provided.

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: DG-Y11S-0.5-1 (720-90949-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information. Elevated reporting limits (RLs) are provided.

Job ID: 720-90949-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AL9S-3.5-4 (720-90949-7), (720-90948-E-7-G MS) and (720-90948-E-7-H MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The method blank for preparation batch 720-259050 and analytical batch 720-259443 contained Barium, Chromium, Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259050 and analytical batch 720-259443 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259443 was outside control limits for Cobalt-12%: (720-90948-E-7-F SD ^2)

Method 7471A: The method blank for preparation batch 720-259049 and analytical batch 720-259475 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-259069 and analytical batch 720-259534 contained Cobalt, Nickel, Antimony, and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259069 and analytical batch 720-259534 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259534 was outside control limits for Arsenic-16%, Cobalt-18%, Chromium-15%, Copper-11%, Nickel-16%, Lead-16%, Vanadium-13%, and Zinc-15%: (720-90949-E-6-A SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AP9S-0.5-1 (720-90949-1), DG-AN9S-0.5-1 (720-90949-3), DG-AN9S-3.5-4 (720-90949-4), DG-AN9S-7-7.5 (720-90949-5), DG-AL9S-0.5-1 (720-90949-6), DG-AL9S-0.5-1 (720-90949-6[MS]), DG-AL9S-0.5-1 (720-90949-6[MSD]), DG-AL9S-3.5-4 (720-90949-7), DG-AL9S-7-7.5 (720-90949-8), DG-Y11S-0.5-1 (720-90949-9), DG-Y11S-3.5-4 (720-90949-10), DUP-64 (720-90949-11), DUP-76 (720-90949-12), (720-90949-E-6-A PDS) and (720-90949-E-6-A SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259534 contained Thallium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a “^” symbol .

Method 6010B: Internal standard responses were outside of acceptance limits for the following samples: (ICSA 720-259534/7) and (ICSAB 720-259534/8).

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AP9S-3.5-4 (720-90949-2) and DG-AN9S-3.5-4 (720-90949-4). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259656 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 720-259656/16).

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target analyte recoveries passed criteria: DG-AN9S-3.5-4 (720-90949-4), (ICSA 720-259656/7) and (ICSAB 720-259656/8).

Job ID: 720-90949-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method: 8270_SIM_3546: Due to the matrix, the following sample could not be concentrated to the final method required volume and was volumed to 5 mL. DG-Y11S-0.5-1 (720-90949-9). The reporting limits (RLs) are elevated proportionately.

Method: 8015_3546: Due to the matrix, the following sample could not be concentrated to the final method required volume and was volumed to 5 mL. DG-Y11S-0.5-1 (720-90949-9). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90949-1

Client Sample ID: DG-AP9S-0.5-1 — Lab Sample ID: 720-90949-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3.2	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	6.9		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.5		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	12		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	6.2		4.8	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.7	J	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	6.2		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	3.8	J	4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	11		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	5.6		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	5.7		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	10		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	11		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	27	J	49	9.7	mg/Kg	1		8015B	Total/NA
Antimony	1.1	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	1.2	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	41		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	2.2		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	9.7	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.4	B	0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	110		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	33		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	5.4	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.52	J B	3.3	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	88		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	60		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.048		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP9S-3.5-4 — Lab Sample ID: 720-90949-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.0		1.7	0.85	ug/Kg	1		8260B	Total/NA
Toluene	1.8		1.7	0.85	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	2.8	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.4	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.6	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	1.7	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	3.2	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	2.9	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	4.0	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.6		2.0	0.74	mg/Kg	1		8015B	Total/NA
Antimony	41		7.6	1.3	mg/Kg	20		6010B	Total/NA
Arsenic	41		15	1.3	mg/Kg	20		6010B	Total/NA
Barium	1100	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	4.3		1.9	0.19	mg/Kg	20		6010B	Total/NA
Chromium	80	B	7.6	0.81	mg/Kg	20		6010B	Total/NA
Cobalt	15		3.1	0.31	mg/Kg	20		6010B	Total/NA
Copper	840		23	11	mg/Kg	20		6010B	Total/NA
Lead	6100	B	7.6	1.6	mg/Kg	20		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP9S-3.5-4 (Continued) — Lab Sample ID: 720-90949-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	1.5		1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	70		7.6	0.78	mg/Kg	20		6010B	Total/NA
Silver	5.9		3.8	0.77	mg/Kg	20		6010B	Total/NA
Vanadium	27		7.6	1.0	mg/Kg	20		6010B	Total/NA
Zinc	3000		23	9.7	mg/Kg	20		6010B	Total/NA
Mercury	0.18	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN9S-0.5-1 — Lab Sample ID: 720-90949-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	15		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	4.0	J	4.9	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	5.7		4.9	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	13		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	44		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	75		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	91		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	60		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	29		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	46		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	14		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	48		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	39		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	13		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	26		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	59		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	43		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	91		49	9.8	mg/Kg	1		8015B	Total/NA
4,4'-DDE	1.7	J	2.0	0.41	ug/Kg	1		8081A	Total/NA
Antimony	2.3	B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	6.4		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	99		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	1.3		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	82	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	21	B	0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	94		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	150		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.96	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	130	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	210		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.52		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN9S-3.5-4 — Lab Sample ID: 720-90949-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.79		0.79	0.40	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	2.8	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	3.5	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.5	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AN9S-3.5-4 (Continued) — Lab Sample ID: 720-90949-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	2.5	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Pyrene	2.9	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	0.92	J	1.9	0.73	mg/Kg	1		8015B	Total/NA
Antimony	21	B	4.8	0.79	mg/Kg	10		6010B	Total/NA
Arsenic	33		9.5	0.81	mg/Kg	10		6010B	Total/NA
Barium	1400		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.79	J	1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	33	B	4.8	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	14	B	1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	380		14	6.8	mg/Kg	10		6010B	Total/NA
Lead	980		4.8	1.0	mg/Kg	10		6010B	Total/NA
Molybdenum	0.60	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	84	B	4.8	0.49	mg/Kg	10		6010B	Total/NA
Vanadium	31		4.8	0.65	mg/Kg	10		6010B	Total/NA
Zinc	200		14	6.0	mg/Kg	10		6010B	Total/NA
Mercury	0.11		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN9S-7-7.5 — Lab Sample ID: 720-90949-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3.3	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	3.0	J	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	31		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.1	J	4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.5	J	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	20		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.2	J	4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	11		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluorene	2.3	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.1		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	46		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	9.5		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.0		1.9	0.72	mg/Kg	1		8015B	Total/NA
Antimony	2.3	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	7.6		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	38		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.45		0.25	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.41		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	35	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	22	B	0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	42		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	27		1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	47	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.71	J B	2.5	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	110		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.034		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL9S-0.5-1 — Lab Sample ID: 720-90949-6

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL9S-0.5-1 (Continued)

Lab Sample ID: 720-90949-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	9.7		9.5	4.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	3.0	J	4.8	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	4.6	J	4.8	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	12		4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	40		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	54		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	78		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	60		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	25		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	62		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	9.9		4.8	3.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	65		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	34		4.8	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	10		4.8	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	28		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	69		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	36		1.9	0.70	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	91		47	9.4	mg/Kg	1		8015B	Total/NA
4,4'-DDD	34	F1 F2	2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	91	F2	2.0	0.42	ug/Kg	1		8081A	Total/NA
4,4'-DDT	26	F1 F2	2.0	0.41	ug/Kg	1		8081A	Total/NA
Antimony	2.9	F1 B	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	9.9		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	83	F1 F2	1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	30	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.9	B	0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	120		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	170	F2	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	30	B	1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.41	J	0.56	0.11	mg/Kg	4		6010B	Total/NA
Thallium	0.38	J ^	1.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	43	F1	1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	270	F2	3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL9S-3.5-4

Lab Sample ID: 720-90949-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	59		9.8	4.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	2.7	J	4.9	2.7	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	6.6		4.9	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	12		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	18		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	13		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	34		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	14		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	8.2		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	36		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL9S-3.5-4 (Continued) — Lab Sample ID: 720-90949-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	6.0		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	38		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	4.3	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	10		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	82		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	64		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	47		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	53		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	98		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	23	B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	22		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	1300		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.31		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	2.9		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	47	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.6	B	0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	530		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	4600		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	42	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Silver	6.2		0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	3800		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.51		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL9S-7-7.5 — Lab Sample ID: 720-90949-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3.8	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	3.4	J	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	6.5		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	59		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	7.1		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.7	J	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	36		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.3		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	20		4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.1	J	4.8	2.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.3		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	6.7		4.8	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	60		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	29		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.4	J	1.9	0.71	mg/Kg	1		8015B	Total/NA
Antimony	3.4	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	9.9		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	100		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.57		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	24	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12	B	0.73	0.073	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL9S-7-7.5 (Continued) — Lab Sample ID: 720-90949-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	49		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	18		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	34	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	130		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.027		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y11S-0.5-1 — Lab Sample ID: 720-90949-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	260	J	480	190	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	220	J	480	140	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	680		480	180	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	690		480	200	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	900		480	410	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	340	J	480	200	ug/Kg	20		8270C SIM	Total/NA
Chrysene	280	J	480	130	ug/Kg	20		8270C SIM	Total/NA
Dibenz(a,h)anthracene	400	J	480	340	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	320	J	480	130	ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	520		480	400	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	180	J	480	170	ug/Kg	20		8270C SIM	Total/NA
Pyrene	920		480	160	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2200		240	89	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	6100		5900	1200	mg/Kg	50		8015B	Total/NA
Antimony	5.3	B	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	94		1.7	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.72		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	8.4	B	0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	200		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	500		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.36	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	210		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.40		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y11S-3.5-4 — Lab Sample ID: 720-90949-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	6.5	J	9.4	4.5	ug/Kg	2		8270C SIM	Total/NA
Anthracene	34		9.4	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	8.5	J	9.4	3.6	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	16		9.4	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	19		9.4	8.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.0	J	9.4	3.9	ug/Kg	2		8270C SIM	Total/NA
Chrysene	6.9	J	9.4	2.6	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	6.8	J	9.4	6.6	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	5.5	J	9.4	2.6	ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y11S-3.5-4 (Continued)

Lab Sample ID: 720-90949-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	10		9.4	7.9	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	12		9.4	3.4	ug/Kg	2		8270C SIM	Total/NA
Pyrene	9.8		9.4	3.2	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	250		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	260		50	10	mg/Kg	1		8015B	Total/NA
Antimony	2.4	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	360		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.79		0.25	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	26	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	15	B	0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	220		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	610		1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	34	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	140		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.097		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-64

Lab Sample ID: 720-90949-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3.0	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	3.5	J	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.5		4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	71		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	7.5		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.3		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	35		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.0		4.8	3.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	22		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.6		4.8	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	4.4	J	4.8	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	35		4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	30		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.7		1.9	0.73	mg/Kg	1		8015B	Total/NA
Antimony	3.0	B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	110		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.88		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.72		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	36	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	22	B	0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	73		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	37		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	48	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	42		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	410		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.053		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90949-1

Client Sample ID: DUP-76

Lab Sample ID: 720-90949-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	4.1	J	9.4	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	7.1	J	9.4	3.6	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	6.2	J	9.4	4.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	11		9.4	8.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.9	J	9.4	4.0	ug/Kg	2		8270C SIM	Total/NA
Chrysene	3.0	J	9.4	2.6	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	3.3	J	9.4	2.6	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	3.7	J	9.4	3.4	ug/Kg	2		8270C SIM	Total/NA
Pyrene	7.9	J	9.4	3.2	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	47		3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160		98	20	mg/Kg	2		8015B	Total/NA
4,4'-DDD	1.3	J	2.0	0.60	ug/Kg	1		8081A	Total/NA
Antimony	1.3	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	0.99	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	29		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	9.5	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	14	B	0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	92		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	13		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	7.5	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	98		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	55		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.067		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP9S-0.5-1

Date Collected: 01/21/19 08:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		01/21/19 20:00	01/25/19 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*60 - 120*	*01/21/19 20:00*	*01/25/19 16:28*	*1*
4-Bromofluorobenzene (Surr)	*88*		*79 - 120*	*01/21/19 20:00*	*01/25/19 16:28*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/21/19 20:00*	*01/25/19 16:28*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,1,1-Trichloroethane	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,1,2-Trichloroethane	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,1-Dichloroethane	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,1-Dichloropropene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,2,4-Trichlorobenzene	ND		3.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,2-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,2-Dichloroethane	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,2-Dichloropropane	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,3-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,3-Dichloropropane	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,4-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
2-Hexanone	ND		6.9	3.4	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
4-Isopropyltoluene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Benzene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Bromoform	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Chlorobenzene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Chloroform	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
cis-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
cis-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Chlorodibromomethane	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Dibromomethane	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Dichlorobromomethane	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1

Client Sample ID: DG-AP9S-0.5-1
Date Collected: 01/21/19 08:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Ethylbenzene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Isopropylbenzene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Methylene Chloride	ND		6.9	3.4	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
N-Propylbenzene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Styrene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Tetrachloroethene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Toluene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
trans-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
trans-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Trichloroethene	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.4	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
Ethylene Dibromide	ND		0.69	0.34	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
2-Butanone (MEK)	ND		6.9	3.4	ug/Kg		01/21/19 20:00	01/25/19 16:28	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/21/19 20:00*	*01/25/19 16:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/21/19 20:00*	*01/25/19 16:28*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.7	4.8	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Anthracene	**3.2**	**J**	4.8	1.9	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Benzo[a]anthracene	**6.9**		4.8	1.4	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Benzo[a]pyrene	**7.5**		4.8	1.8	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Benzo[b]fluoranthene	**12**		4.8	2.0	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Benzo[g,h,i]perylene	**6.2**		4.8	4.2	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Benzo[k]fluoranthene	**4.7**	**J**	4.8	2.0	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Chrysene	**6.2**		4.8	1.4	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Dibenz(a,h)anthracene	**3.8**	**J**	4.8	3.4	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Fluoranthene	**11**		4.8	1.4	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Fluorene	ND		4.8	2.1	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Indeno[1,2,3-cd]pyrene	**5.6**		4.8	4.1	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Naphthalene	ND		4.8	3.4	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Phenanthrene	**5.7**		4.8	1.7	ug/Kg		01/28/19 10:50	02/01/19 22:38	1
Pyrene	**10**		4.8	1.6	ug/Kg		01/28/19 10:50	02/01/19 22:38	1

Client Sample ID: DG-AP9S-0.5-1

Date Collected: 01/21/19 08:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*01/28/19 10:50*	*02/01/19 22:38*	*1*
Terphenyl-d14	*120*		*35 - 146*	*01/28/19 10:50*	*02/01/19 22:38*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		1.9	0.73	mg/Kg		01/24/19 12:51	01/30/19 18:14	1
Motor Oil Range Organics [C24-C36]	**27**	**J**	49	9.7	mg/Kg		01/24/19 12:51	01/30/19 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*117*		*40 - 130*	*01/24/19 12:51*	*01/30/19 18:14*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/24/19 10:00	02/01/19 10:06	1
Toxaphene	ND		39	6.7	ug/Kg		01/24/19 10:00	02/01/19 10:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*135*	*p*	*21 - 136*	*01/24/19 10:00*	*02/01/19 10:06*	*1*
Tetrachloro-m-xylene	*90*		*21 - 145*	*01/24/19 10:00*	*02/01/19 10:06*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:18	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:18	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:18	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:18	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:18	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:18	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:18	1

Client Sample ID: DG-AP9S-0.5-1

Date Collected: 01/21/19 08:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*	*01/23/19 14:51*	*01/24/19 19:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**J B**	1.6	0.27	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Arsenic	**1.2**	**J**	3.3	0.28	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Barium	**41**		1.6	0.23	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Beryllium	ND		0.33	0.11	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Cadmium	**2.2**		0.41	0.041	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Chromium	**9.7**	**B**	1.6	0.17	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Cobalt	**9.4**	**B**	0.66	0.066	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Copper	**110**		4.9	2.3	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Lead	**33**		1.6	0.34	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Molybdenum	ND		1.6	0.21	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Nickel	**5.4**	**B**	1.6	0.17	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Selenium	**0.52**	**J B**	3.3	0.49	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Silver	ND		0.82	0.17	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Thallium	ND		1.6	0.48	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Vanadium	**88**		1.6	0.22	mg/Kg		01/24/19 09:37	01/30/19 18:09	4
Zinc	**60**		4.9	2.1	mg/Kg		01/24/19 09:37	01/30/19 18:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.048**		0.014	0.0021	mg/Kg		01/29/19 12:33	01/29/19 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AP9S-3.5-4

Date Collected: 01/21/19 08:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		170	120	ug/Kg		01/21/19 20:00	01/25/19 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*60 - 120*	*01/21/19 20:00*	*01/25/19 16:54*	*1*
4-Bromofluorobenzene (Surr)	*87*		*79 - 120*	*01/21/19 20:00*	*01/25/19 16:54*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 16:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		17	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,1,1,2-Tetrachloroethane	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,1,1-Trichloroethane	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,1,2,2-Tetrachloroethane	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,1,2-Trichloroethane	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,1-Dichloroethane	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,1-Dichloroethene	ND		3.4	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,1-Dichloropropene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,2,3-Trichlorobenzene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,2,4-Trichlorobenzene	ND		8.5	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,2,4-Trimethylbenzene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,2-Dibromo-3-Chloropropane	ND		8.5	3.4	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,2-Dichlorobenzene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,2-Dichloroethane	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,2-Dichloropropane	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,3,5-Trimethylbenzene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,3-Dichlorobenzene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,3-Dichloropropane	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,4-Dichlorobenzene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
2,2-Dichloropropane	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
2-Chlorotoluene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
2-Hexanone	ND		17	8.5	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
4-Chlorotoluene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
4-Isopropyltoluene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Benzene	**3.0**		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Bromobenzene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Bromoform	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Bromomethane	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Carbon disulfide	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Carbon tetrachloride	ND		3.4	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Chlorobenzene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Chlorobromomethane	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Chloroethane	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Chloroform	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Chloromethane	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
cis-1,2-Dichloroethene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
cis-1,3-Dichloropropene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Chlorodibromomethane	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Dibromomethane	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Dichlorobromomethane	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1

Client Sample ID: DG-AP9S-3.5-4

Date Collected: 01/21/19 08:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Ethylbenzene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Hexachlorobutadiene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Isopropylbenzene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Methylene Chloride	ND		17	8.5	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Methyl tert-butyl ether	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Naphthalene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
n-Butylbenzene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
N-Propylbenzene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
sec-Butylbenzene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Styrene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
tert-Butylbenzene	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Tetrachloroethene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Toluene	**1.8**		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
trans-1,2-Dichloroethene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
trans-1,3-Dichloropropene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Trichloroethene	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Trichlorofluoromethane	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		17	8.5	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Vinyl acetate	ND		14	6.8	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Vinyl chloride	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Xylenes, Total	ND		3.4	2.2	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
Ethylene Dibromide	ND		1.7	0.85	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
2-Butanone (MEK)	ND		17	8.5	ug/Kg		01/21/19 20:00	01/25/19 16:54	1
4-Methyl-2-pentanone (MIBK)	ND		8.5	4.3	ug/Kg		01/21/19 20:00	01/25/19 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 16:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/21/19 20:00*	*01/25/19 16:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Acenaphthene	ND		4.9	2.7	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Anthracene	ND		4.9	2.0	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Benzo[a]pyrene	**2.8**	**J**	4.9	1.9	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Benzo[b]fluoranthene	**4.4**	**J**	4.9	2.1	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Benzo[k]fluoranthene	**2.6**	**J**	4.9	2.1	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Chrysene	**1.7**	**J**	4.9	1.4	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Fluoranthene	**3.2**	**J**	4.9	1.4	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Fluorene	ND		4.9	2.2	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Phenanthrene	**2.9**	**J**	4.9	1.8	ug/Kg		01/28/19 10:50	02/01/19 23:01	1
Pyrene	**4.0**	**J**	4.9	1.7	ug/Kg		01/28/19 10:50	02/01/19 23:01	1

Client Sample ID: DG-AP9S-3.5-4

Date Collected: 01/21/19 08:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*33 - 120*	*01/28/19 10:50*	*02/01/19 23:01*	*1*
Terphenyl-d14	*101*		*35 - 146*	*01/28/19 10:50*	*02/01/19 23:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.6**		2.0	0.74	mg/Kg		01/24/19 12:51	01/31/19 17:14	1
Motor Oil Range Organics [C24-C36]	ND		49	9.9	mg/Kg		01/24/19 12:51	01/31/19 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*01/24/19 12:51*	*01/31/19 17:14*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.59	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Endrin aldehyde	ND		2.0	0.61	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
gamma-BHC (Lindane)	ND		2.0	0.61	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/24/19 10:00	02/01/19 10:22	1
Toxaphene	ND		39	6.6	ug/Kg		01/24/19 10:00	02/01/19 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*21 - 136*	*01/24/19 10:00*	*02/01/19 10:22*	*1*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/24/19 10:00*	*02/01/19 10:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 19:33	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 19:33	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 19:33	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 19:33	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 19:33	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 19:33	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 19:33	1

Client Sample ID: DG-AP9S-3.5-4

Date Collected: 01/21/19 08:40
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*01/23/19 14:51*	*01/24/19 19:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**41**		7.6	1.3	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Arsenic	**41**		15	1.3	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Barium	**1100**	**B**	1.5	0.22	mg/Kg		01/24/19 09:37	01/29/19 20:07	4
Beryllium	**0.20**	**J**	0.31	0.099	mg/Kg		01/24/19 09:37	01/29/19 20:07	4
Cadmium	**4.3**		1.9	0.19	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Chromium	**80**	**B**	7.6	0.81	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Cobalt	**15**		3.1	0.31	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Copper	**840**		23	11	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Lead	**6100**	**B**	7.6	1.6	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Molybdenum	**1.5**		1.5	0.20	mg/Kg		01/24/19 09:37	01/29/19 20:07	4
Nickel	**70**		7.6	0.78	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Selenium	ND		15	2.3	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Silver	**5.9**		3.8	0.77	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Thallium	ND		7.6	2.2	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Vanadium	**27**		7.6	1.0	mg/Kg		01/24/19 09:37	01/31/19 12:12	20
Zinc	**3000**		23	9.7	mg/Kg		01/24/19 09:37	01/31/19 12:12	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**	**B**	0.014	0.0021	mg/Kg		01/29/19 12:33	01/29/19 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.4**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AN9S-0.5-1

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		67	47	ug/Kg		01/21/19 20:00	01/25/19 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*60 - 120*	*01/21/19 20:00*	*01/25/19 17:20*	*1*
4-Bromofluorobenzene (Surr)	*87*		*79 - 120*	*01/21/19 20:00*	*01/25/19 17:20*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/21/19 20:00*	*01/25/19 17:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.7	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,1,1-Trichloroethane	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,1,2-Trichloroethane	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,1-Dichloroethane	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,1-Dichloroethene	ND		1.3	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,1-Dichloropropene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,2,3-Trichlorobenzene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,2,4-Trichlorobenzene	ND		3.4	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,2,4-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.3	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,2-Dichlorobenzene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,2-Dichloroethane	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,2-Dichloropropane	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,3,5-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,3-Dichlorobenzene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,3-Dichloropropane	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,4-Dichlorobenzene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
2,2-Dichloropropane	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
2-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
2-Hexanone	ND		6.7	3.4	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
4-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
4-Isopropyltoluene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Benzene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Bromobenzene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Bromoform	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Bromomethane	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Carbon disulfide	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Carbon tetrachloride	ND		1.3	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Chlorobenzene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Chlorobromomethane	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Chloroethane	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Chloroform	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Chloromethane	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
cis-1,2-Dichloroethene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
cis-1,3-Dichloropropene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Chlorodibromomethane	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Dibromomethane	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Dichlorobromomethane	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1

Client Sample ID: DG-AN9S-0.5-1
Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Ethylbenzene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Hexachlorobutadiene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Isopropylbenzene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Methylene Chloride	ND		6.7	3.4	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Methyl tert-butyl ether	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Naphthalene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
n-Butylbenzene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
N-Propylbenzene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
sec-Butylbenzene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Styrene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
tert-Butylbenzene	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Tetrachloroethene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Toluene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
trans-1,2-Dichloroethene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
trans-1,3-Dichloropropene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Trichloroethene	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Trichlorofluoromethane	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	3.4	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Vinyl chloride	ND		1.3	0.67	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Xylenes, Total	ND		1.3	0.88	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
Ethylene Dibromide	ND		0.67	0.34	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
2-Butanone (MEK)	ND		6.7	3.4	ug/Kg		01/21/19 20:00	01/25/19 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/21/19 20:00*	*01/25/19 17:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/21/19 20:00*	*01/25/19 17:20*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**15**		9.8	4.9	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Acenaphthene	**4.0**	**J**	4.9	2.7	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Acenaphthylene	**5.7**		4.9	2.3	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Anthracene	**13**		4.9	2.0	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Benzo[a]anthracene	**44**		4.9	1.5	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Benzo[a]pyrene	**75**		4.9	1.9	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Benzo[b]fluoranthene	**91**		4.9	2.0	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Benzo[g,h,i]perylene	**60**		4.9	4.2	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Benzo[k]fluoranthene	**29**		4.9	2.0	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Chrysene	**46**		4.9	1.4	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Dibenz(a,h)anthracene	**14**		4.9	3.4	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Fluoranthene	**48**		4.9	1.4	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Fluorene	ND		4.9	2.1	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Indeno[1,2,3-cd]pyrene	**39**		4.9	4.1	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Naphthalene	**13**		4.9	3.4	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Phenanthrene	**26**		4.9	1.8	ug/Kg		01/28/19 10:50	02/01/19 23:25	1
Pyrene	**59**		4.9	1.7	ug/Kg		01/28/19 10:50	02/01/19 23:25	1

Client Sample ID: DG-AN9S-0.5-1

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		33 - 120	01/28/19 10:50	02/01/19 23:25	1
Terphenyl-d14	116		35 - 146	01/28/19 10:50	02/01/19 23:25	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**43**		2.0	0.74	mg/Kg		01/24/19 12:51	02/04/19 15:51	1
Motor Oil Range Organics [C24-C36]	**91**		49	9.8	mg/Kg		01/24/19 12:51	02/04/19 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	97		40 - 130	01/24/19 12:51	02/04/19 15:51	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
4,4'-DDE	**1.7**	**J**	2.0	0.41	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/24/19 10:00	02/01/19 10:39	1
Toxaphene	ND		39	6.7	ug/Kg		01/24/19 10:00	02/01/19 10:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		21 - 136	01/24/19 10:00	02/01/19 10:39	1
Tetrachloro-m-xylene	88		21 - 145	01/24/19 10:00	02/01/19 10:39	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:47	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:47	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:47	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:47	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:47	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:47	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 19:47	1

Client Sample ID: DG-AN9S-0.5-1

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/23/19 14:51*	*01/24/19 19:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.3**	**B**	1.4	0.23	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Arsenic	**6.4**		2.8	0.23	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Barium	**99**		1.4	0.20	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Beryllium	ND		0.28	0.090	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Cadmium	**1.3**		0.34	0.034	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Chromium	**82**	**B**	1.4	0.15	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Cobalt	**21**	**B**	0.55	0.055	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Copper	**94**		4.1	2.0	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Lead	**150**		1.4	0.29	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Molybdenum	**0.96**	**J**	1.4	0.18	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Nickel	**130**	**B**	1.4	0.14	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Selenium	ND		2.8	0.41	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Silver	ND		0.69	0.14	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Thallium	ND		1.4	0.40	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Vanadium	**34**		1.4	0.19	mg/Kg		01/24/19 09:37	01/30/19 18:23	4
Zinc	**210**		4.1	1.8	mg/Kg		01/24/19 09:37	01/30/19 18:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.52**		0.015	0.0021	mg/Kg		01/29/19 12:33	01/29/19 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AN9S-3.5-4

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/21/19 20:00	01/25/19 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*60 - 120*	*01/21/19 20:00*	*01/25/19 17:47*	*1*
4-Bromofluorobenzene (Surr)	*86*		*79 - 120*	*01/21/19 20:00*	*01/25/19 17:47*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/21/19 20:00*	*01/25/19 17:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,1,1-Trichloroethane	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,1,2-Trichloroethane	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,1-Dichloroethane	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,1-Dichloropropene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,2,4-Trichlorobenzene	ND		4.0	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,2-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,2-Dichloroethane	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,2-Dichloropropane	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,3-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,3-Dichloropropane	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,4-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
2-Hexanone	ND		7.9	4.0	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
4-Isopropyltoluene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Benzene	**0.79**		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Bromoform	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Chlorobenzene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Chloroform	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
cis-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
cis-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Chlorodibromomethane	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Dibromomethane	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Dichlorobromomethane	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1

Client Sample ID: DG-AN9S-3.5-4
Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Ethylbenzene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Isopropylbenzene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Methylene Chloride	ND		7.9	4.0	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
N-Propylbenzene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Styrene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Tetrachloroethene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Toluene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
trans-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
trans-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Trichloroethene	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	4.0	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
Ethylene Dibromide	ND		0.79	0.40	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
2-Butanone (MEK)	ND		7.9	4.0	ug/Kg		01/21/19 20:00	01/25/19 17:47	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/21/19 20:00	01/25/19 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/21/19 20:00*	*01/25/19 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/21/19 20:00*	*01/25/19 17:47*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Anthracene	ND		4.9	2.0	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Benzo[a]pyrene	**2.8**	**J**	4.9	1.9	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Benzo[b]fluoranthene	**3.5**	**J**	4.9	2.1	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Benzo[g,h,i]perylene	ND		4.9	4.3	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Benzo[k]fluoranthene	**2.5**	**J**	4.9	2.1	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Chrysene	ND		4.9	1.4	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Dibenz(a,h)anthracene	ND		4.9	3.5	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Fluoranthene	**2.5**	**J**	4.9	1.4	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Fluorene	ND		4.9	2.2	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.2	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Naphthalene	ND		4.9	3.5	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Phenanthrene	ND		4.9	1.8	ug/Kg		01/28/19 10:50	02/01/19 23:49	1
Pyrene	**2.9**	**J**	4.9	1.7	ug/Kg		01/28/19 10:50	02/01/19 23:49	1

Client Sample ID: DG-AN9S-3.5-4

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*01/28/19 10:50*	*02/01/19 23:49*	*1*
Terphenyl-d14	*116*		*35 - 146*	*01/28/19 10:50*	*02/01/19 23:49*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**0.92**	**J**	1.9	0.73	mg/Kg		01/29/19 12:17	02/04/19 16:50	1
Motor Oil Range Organics [C24-C36]	ND		49	9.7	mg/Kg		01/29/19 12:17	02/04/19 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*98*		*40 - 130*	*01/29/19 12:17*	*02/04/19 16:50*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.59	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Endrin aldehyde	ND		2.0	0.61	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
gamma-BHC (Lindane)	ND		2.0	0.61	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/24/19 10:00	02/01/19 10:55	1
Toxaphene	ND		39	6.6	ug/Kg		01/24/19 10:00	02/01/19 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*21 - 136*	*01/24/19 10:00*	*02/01/19 10:55*	*1*
Tetrachloro-m-xylene	*86*		*21 - 145*	*01/24/19 10:00*	*02/01/19 10:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:02	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:02	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:02	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:02	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:02	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:02	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:02	1

Client Sample ID: DG-AN9S-3.5-4

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*01/23/19 14:51*	*01/24/19 20:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	21	B	4.8	0.79	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Arsenic	33		9.5	0.81	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Barium	1400		1.9	0.27	mg/Kg		01/24/19 09:37	01/30/19 18:28	4
Beryllium	0.21	J	0.38	0.12	mg/Kg		01/24/19 09:37	01/30/19 18:28	4
Cadmium	0.79	J	1.2	0.12	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Chromium	33	B	4.8	0.50	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Cobalt	14	B	1.9	0.19	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Copper	380		14	6.8	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Lead	980		4.8	1.0	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Molybdenum	0.60	J	1.9	0.24	mg/Kg		01/24/19 09:37	01/30/19 18:28	4
Nickel	84	B	4.8	0.49	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Selenium	ND		9.5	1.4	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Silver	ND		2.4	0.48	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Thallium	ND	^	4.8	1.4	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Vanadium	31		4.8	0.65	mg/Kg		01/24/19 09:37	02/01/19 11:12	10
Zinc	200		14	6.0	mg/Kg		01/24/19 09:37	02/01/19 11:12	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.2		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AN9S-7-7.5

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		70	49	ug/Kg		01/26/19 12:50	01/26/19 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*60 - 120*	*01/26/19 12:50*	*01/26/19 17:10*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*01/26/19 12:50*	*01/26/19 17:10*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/26/19 12:50*	*01/26/19 17:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.0	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,1,1-Trichloroethane	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,1,2-Trichloroethane	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,1-Dichloroethane	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,1-Dichloropropene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,2,3-Trichlorobenzene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,2,4-Trichlorobenzene	ND		3.5	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,2,4-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,2-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,2-Dichloroethane	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,2-Dichloropropane	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,3,5-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,3-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,3-Dichloropropane	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,4-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
2,2-Dichloropropane	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
2-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
2-Hexanone	ND		7.0	3.5	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
4-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
4-Isopropyltoluene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Benzene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Bromobenzene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Bromoform	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Bromomethane	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Carbon disulfide	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Chlorobenzene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Chlorobromomethane	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Chloroethane	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Chloroform	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Chloromethane	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
cis-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
cis-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Chlorodibromomethane	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Dibromomethane	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Dichlorobromomethane	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1

Client Sample ID: DG-AN9S-7-7.5

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Ethylbenzene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Hexachlorobutadiene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Isopropylbenzene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Methylene Chloride	ND		7.0	3.5	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Methyl tert-butyl ether	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Naphthalene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
n-Butylbenzene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
N-Propylbenzene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
sec-Butylbenzene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Styrene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
tert-Butylbenzene	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Tetrachloroethene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Toluene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
trans-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
trans-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Trichloroethene	ND	*	0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Trichlorofluoromethane	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.0	3.5	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Vinyl chloride	ND		1.4	0.70	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Xylenes, Total	ND		1.4	0.91	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
Ethylene Dibromide	ND		0.70	0.35	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
2-Butanone (MEK)	ND		7.0	3.5	ug/Kg		01/26/19 12:50	01/26/19 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		01/26/19 12:50	01/26/19 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/26/19 12:50*	*01/26/19 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/26/19 12:50*	*01/26/19 17:10*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.6	4.8	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Anthracene	**3.3**	**J**	4.8	1.9	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Benzo[a]anthracene	ND		4.8	1.4	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Benzo[a]pyrene	**3.0**	**J**	4.8	1.8	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Benzo[b]fluoranthene	**31**		4.8	2.0	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Benzo[g,h,i]perylene	**4.1**	**J**	4.8	4.1	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Benzo[k]fluoranthene	**3.5**	**J**	4.8	2.0	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Chrysene	**20**		4.8	1.3	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Dibenz(a,h)anthracene	**4.2**	**J**	4.8	3.4	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Fluoranthene	**11**		4.8	1.3	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Fluorene	**2.3**	**J**	4.8	2.1	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.0	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Naphthalene	**5.1**		4.8	3.4	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Phenanthrene	**46**		4.8	1.7	ug/Kg		01/28/19 10:50	02/02/19 00:12	1
Pyrene	**9.5**		4.8	1.6	ug/Kg		01/28/19 10:50	02/02/19 00:12	1

Client Sample ID: DG-AN9S-7-7.5

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*33 - 120*	*01/28/19 10:50*	*02/02/19 00:12*	*1*
Terphenyl-d14	*98*		*35 - 146*	*01/28/19 10:50*	*02/02/19 00:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.0**		1.9	0.72	mg/Kg		01/29/19 12:17	02/04/19 17:19	1
Motor Oil Range Organics [C24-C36]	ND		48	9.5	mg/Kg		01/29/19 12:17	02/04/19 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*01/29/19 12:17*	*02/04/19 17:19*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Aldrin	ND		1.9	0.49	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Endosulfan II	ND		1.9	0.48	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Endrin	ND		1.9	0.45	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/24/19 10:00	02/01/19 11:11	1
Toxaphene	ND		39	6.6	ug/Kg		01/24/19 10:00	02/01/19 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*21 - 136*	*01/24/19 10:00*	*02/01/19 11:11*	*1*
Tetrachloro-m-xylene	*80*		*21 - 145*	*01/24/19 10:00*	*02/01/19 11:11*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:16	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:16	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:16	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:16	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:16	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:16	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 20:16	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90949-1

Client Sample ID: DG-AN9S-7-7.5

Date Collected: 01/21/19 09:50
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*	*01/23/19 14:51*	*01/24/19 20:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.3**	**B**	1.3	0.21	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Arsenic	**7.6**		2.5	0.22	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Barium	**38**		1.3	0.18	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Beryllium	**0.45**		0.25	0.083	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Cadmium	**0.41**		0.32	0.032	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Chromium	**35**	**B**	1.3	0.14	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Cobalt	**22**	**B**	0.51	0.051	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Copper	**42**		3.8	1.8	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Lead	**27**		1.3	0.27	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Molybdenum	ND		1.3	0.16	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Nickel	**47**	**B**	1.3	0.13	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Selenium	**0.71**	**J B**	2.5	0.38	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Silver	ND		0.64	0.13	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Thallium	ND		1.3	0.37	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Vanadium	**45**		1.3	0.17	mg/Kg		01/24/19 09:37	01/30/19 18:32	4
Zinc	**110**		3.8	1.6	mg/Kg		01/24/19 09:37	01/30/19 18:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.016	0.0023	mg/Kg		01/29/19 12:33	01/29/19 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.2**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AL9S-0.5-1
Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-6
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND	F2	84	59	ug/Kg		01/21/19 20:00	01/25/19 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*60 - 120*	*01/21/19 20:00*	*01/25/19 10:16*	*1*
4-Bromofluorobenzene (Surr)	*85*		*79 - 120*	*01/21/19 20:00*	*01/25/19 10:16*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/21/19 20:00*	*01/25/19 10:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.4	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,1,1-Trichloroethane	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,1,2-Trichloroethane	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,1-Dichloroethane	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,1-Dichloropropene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,2,3-Trichlorobenzene	ND	F2	1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,2,4-Trichlorobenzene	ND	F2	4.2	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,2,4-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,2-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,2-Dichloroethane	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,2-Dichloropropane	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,3,5-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,3-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,3-Dichloropropane	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,4-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
2,2-Dichloropropane	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
2-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
2-Hexanone	ND		8.4	4.2	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
4-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
4-Isopropyltoluene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Benzene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Bromobenzene	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Bromoform	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Bromomethane	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Carbon disulfide	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Chlorobenzene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Chlorobromomethane	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Chloroethane	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Chloroform	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Chloromethane	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
cis-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
cis-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Chlorodibromomethane	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Dibromomethane	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Dichlorobromomethane	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1

Client Sample ID: DG-AL9S-0.5-1
Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Ethylbenzene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Hexachlorobutadiene	ND	F2	1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Isopropylbenzene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Methylene Chloride	ND		8.4	4.2	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Methyl tert-butyl ether	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Naphthalene	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
n-Butylbenzene	ND	F2	1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
N-Propylbenzene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
sec-Butylbenzene	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Styrene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
tert-Butylbenzene	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Tetrachloroethene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Toluene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
trans-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
trans-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Trichloroethene	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Trichlorofluoromethane	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.4	4.2	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Vinyl acetate	ND	F1 F2	6.8	3.4	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Vinyl chloride	ND		1.7	0.84	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
Ethylene Dibromide	ND		0.84	0.42	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
2-Butanone (MEK)	ND		8.4	4.2	ug/Kg		01/21/19 20:00	01/25/19 10:16	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		01/21/19 20:00	01/25/19 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/21/19 20:00*	*01/25/19 10:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*01/21/19 20:00*	*01/25/19 10:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**9.7**		9.5	4.8	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Acenaphthene	**3.0**	**J**	4.8	2.7	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Acenaphthylene	**4.6**	**J**	4.8	2.3	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Anthracene	**12**		4.8	1.9	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Benzo[a]anthracene	**40**		4.8	1.4	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Benzo[a]pyrene	**54**		4.8	1.8	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Benzo[b]fluoranthene	**78**		4.8	2.0	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Benzo[g,h,i]perylene	**60**		4.8	4.1	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Benzo[k]fluoranthene	**25**		4.8	2.0	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Chrysene	**62**		4.8	1.3	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Dibenz(a,h)anthracene	**9.9**		4.8	3.3	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Fluoranthene	**65**		4.8	1.3	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Fluorene	ND		4.8	2.1	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Indeno[1,2,3-cd]pyrene	**34**		4.8	4.0	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Naphthalene	**10**		4.8	3.3	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Phenanthrene	**28**		4.8	1.7	ug/Kg		01/28/19 10:50	01/29/19 10:58	1
Pyrene	**69**		4.8	1.6	ug/Kg		01/28/19 10:50	01/29/19 10:58	1

Client Sample ID: DG-AL9S-0.5-1

Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*33 - 120*	*01/28/19 10:50*	*01/29/19 10:58*	*1*
Terphenyl-d14	*117*		*35 - 146*	*01/28/19 10:50*	*01/29/19 10:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**36**		1.9	0.70	mg/Kg		01/29/19 12:17	01/30/19 19:12	1
Motor Oil Range Organics [C24-C36]	**91**		47	9.4	mg/Kg		01/29/19 12:17	01/30/19 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*86*		*40 - 130*	*01/29/19 12:17*	*01/30/19 19:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**34**	**F1 F2**	2.0	0.60	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
4,4'-DDE	**91**	**F2**	2.0	0.42	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
4,4'-DDT	**26**	**F1 F2**	2.0	0.41	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Endosulfan sulfate	ND	F1	2.0	0.38	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Endrin ketone	ND	F1	2.0	0.33	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
gamma-Chlordane	ND	F1	2.0	0.45	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Methoxychlor	ND	F1	2.0	0.67	ug/Kg		01/24/19 10:00	01/30/19 17:10	1
Toxaphene	ND		40	6.7	ug/Kg		01/24/19 10:00	01/30/19 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*21 - 136*	*01/24/19 10:00*	*01/30/19 17:10*	*1*
Tetrachloro-m-xylene	*80*		*21 - 145*	*01/24/19 10:00*	*01/30/19 17:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 12:59	1
Aroclor 1221	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 12:59	1
Aroclor 1232	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 12:59	1
Aroclor 1242	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 12:59	1
Aroclor 1248	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 12:59	1
Aroclor 1254	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 12:59	1
Aroclor 1260	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 12:59	1

Client Sample ID: DG-AL9S-0.5-1

Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*	*01/24/19 13:46*	*01/25/19 12:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	F1 B	1.1	0.19	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Arsenic	9.9		2.2	0.19	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Barium	83	F1 F2	1.1	0.16	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Beryllium	ND		0.22	0.073	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Cadmium	1.1		0.28	0.028	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Chromium	30	B	1.1	0.12	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Cobalt	8.9	B	0.45	0.045	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Copper	120		3.4	1.6	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Lead	170	F2	1.1	0.23	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Molybdenum	1.1		1.1	0.14	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Nickel	30	B	1.1	0.11	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Selenium	ND		2.2	0.34	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Silver	0.41	J	0.56	0.11	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Thallium	0.38	J ^	1.1	0.32	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Vanadium	43	F1	1.1	0.15	mg/Kg		01/24/19 09:37	01/30/19 17:55	4
Zinc	270	F2	3.4	1.4	mg/Kg		01/24/19 09:37	01/30/19 17:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.5		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AL9S-3.5-4

Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		68	48	ug/Kg		01/21/19 20:00	01/25/19 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*60 - 120*	*01/21/19 20:00*	*01/25/19 11:36*	*1*
4-Bromofluorobenzene (Surr)	*86*		*79 - 120*	*01/21/19 20:00*	*01/25/19 11:36*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 11:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.8	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,1,1-Trichloroethane	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,1,2-Trichloroethane	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,1-Dichloroethane	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,1-Dichloropropene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,2,3-Trichlorobenzene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,2,4-Trichlorobenzene	ND		3.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,2,4-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,2-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,2-Dichloroethane	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,2-Dichloropropane	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,3,5-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,3-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,3-Dichloropropane	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,4-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
2,2-Dichloropropane	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
2-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
2-Hexanone	ND		6.8	3.4	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
4-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
4-Isopropyltoluene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Benzene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Bromobenzene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Bromoform	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Bromomethane	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Carbon disulfide	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Chlorobenzene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Chlorobromomethane	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Chloroethane	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Chloroform	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Chloromethane	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
cis-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
cis-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Chlorodibromomethane	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Dibromomethane	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Dichlorobromomethane	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1

Client Sample ID: DG-AL9S-3.5-4
Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Ethylbenzene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Hexachlorobutadiene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Isopropylbenzene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Methylene Chloride	ND		6.8	3.4	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Methyl tert-butyl ether	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Naphthalene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
n-Butylbenzene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
N-Propylbenzene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
sec-Butylbenzene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Styrene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
tert-Butylbenzene	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Tetrachloroethene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Toluene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
trans-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
trans-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Trichloroethene	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Trichlorofluoromethane	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	3.4	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Vinyl acetate	ND		5.5	2.7	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Vinyl chloride	ND		1.4	0.68	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Xylenes, Total	ND		1.4	0.89	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
Ethylene Dibromide	ND		0.68	0.34	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
2-Butanone (MEK)	ND		6.8	3.4	ug/Kg		01/21/19 20:00	01/25/19 11:36	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/21/19 20:00	01/25/19 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 11:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/21/19 20:00*	*01/25/19 11:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**59**		9.8	4.9	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Acenaphthene	**2.7**	**J**	4.9	2.7	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Acenaphthylene	**6.6**		4.9	2.3	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Anthracene	**12**		4.9	2.0	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Benzo[a]anthracene	**18**		4.9	1.5	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Benzo[a]pyrene	**13**		4.9	1.9	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Benzo[b]fluoranthene	**34**		4.9	2.0	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Benzo[g,h,i]perylene	**14**		4.9	4.2	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Benzo[k]fluoranthene	**8.2**		4.9	2.0	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Chrysene	**36**		4.9	1.4	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Dibenz(a,h)anthracene	**6.0**		4.9	3.4	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Fluoranthene	**38**		4.9	1.4	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Fluorene	**4.3**	**J**	4.9	2.1	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Indeno[1,2,3-cd]pyrene	**10**		4.9	4.1	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Naphthalene	**82**		4.9	3.4	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Phenanthrene	**64**		4.9	1.8	ug/Kg		01/28/19 10:50	02/04/19 11:04	1
Pyrene	**47**		4.9	1.7	ug/Kg		01/28/19 10:50	02/04/19 11:04	1

Client Sample ID: DG-AL9S-3.5-4

Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*01/28/19 10:50*	*02/04/19 11:04*	*1*
Terphenyl-d14	*111*		*35 - 146*	*01/28/19 10:50*	*02/04/19 11:04*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**53**		2.0	0.74	mg/Kg		01/29/19 12:17	02/04/19 16:21	1
Motor Oil Range Organics [C24-C36]	**98**		49	9.8	mg/Kg		01/29/19 12:17	02/04/19 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*78*		*40 - 130*	*01/29/19 12:17*	*02/04/19 16:21*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/24/19 10:00	02/01/19 11:27	1
Toxaphene	ND		39	6.7	ug/Kg		01/24/19 10:00	02/01/19 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*21 - 136*	*01/24/19 10:00*	*02/01/19 11:27*	*1*
Tetrachloro-m-xylene	*78*		*21 - 145*	*01/24/19 10:00*	*02/01/19 11:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 14:18	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 14:18	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 14:18	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 14:18	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 14:18	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 14:18	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/25/19 14:18	1

Client Sample ID: DG-AL9S-3.5-4
Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-7
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*01/23/19 14:51*	*01/25/19 14:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	23	B	1.6	0.26	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Arsenic	22		3.1	0.26	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Barium	1300		1.6	0.22	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Beryllium	0.31		0.31	0.10	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Cadmium	2.9		0.39	0.038	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Chromium	47	B	1.6	0.16	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Cobalt	7.6	B	0.62	0.062	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Copper	530		4.7	2.2	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Lead	4600		1.6	0.33	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Molybdenum	0.25	J	1.6	0.20	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Nickel	42	B	1.6	0.16	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Selenium	ND		3.1	0.47	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Silver	6.2		0.78	0.16	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Thallium	ND		1.6	0.45	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Vanadium	29		1.6	0.21	mg/Kg		01/24/19 09:37	01/30/19 18:37	4
Zinc	3800		4.7	2.0	mg/Kg		01/24/19 09:37	01/30/19 18:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.51		0.016	0.0024	mg/Kg		01/29/19 12:33	01/29/19 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.5		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-AL9S-7-7.5

Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		64	45	ug/Kg		01/21/19 20:00	01/25/19 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*60 - 120*	*01/21/19 20:00*	*01/25/19 12:03*	*1*
4-Bromofluorobenzene (Surr)	*89*		*79 - 120*	*01/21/19 20:00*	*01/25/19 12:03*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/21/19 20:00*	*01/25/19 12:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.4	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,1,1-Trichloroethane	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,1,2-Trichloroethane	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,1-Dichloroethane	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,1-Dichloropropene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,2,3-Trichlorobenzene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,2,4-Trichlorobenzene	ND		3.2	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,2,4-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,2-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,2-Dichloroethane	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,2-Dichloropropane	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,3,5-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,3-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,3-Dichloropropane	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,4-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
2,2-Dichloropropane	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
2-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
2-Hexanone	ND		6.4	3.2	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
4-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
4-Isopropyltoluene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Benzene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Bromobenzene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Bromoform	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Bromomethane	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Carbon disulfide	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Chlorobenzene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Chlorobromomethane	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Chloroethane	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Chloroform	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Chloromethane	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
cis-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
cis-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Chlorodibromomethane	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Dibromomethane	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Dichlorobromomethane	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1

Client Sample ID: DG-AL9S-7-7.5

Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-8

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Ethylbenzene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Hexachlorobutadiene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Isopropylbenzene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Methylene Chloride	ND		6.4	3.2	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Methyl tert-butyl ether	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Naphthalene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
n-Butylbenzene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
N-Propylbenzene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
sec-Butylbenzene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Styrene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
tert-Butylbenzene	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Tetrachloroethene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Toluene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
trans-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
trans-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Trichloroethene	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Trichlorofluoromethane	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	3.2	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Vinyl acetate	ND		5.1	2.6	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Vinyl chloride	ND		1.3	0.64	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Xylenes, Total	ND		1.3	0.83	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
Ethylene Dibromide	ND		0.64	0.32	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
2-Butanone (MEK)	ND		6.4	3.2	ug/Kg		01/21/19 20:00	01/25/19 12:03	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/21/19 20:00	01/25/19 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/21/19 20:00*	*01/25/19 12:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/21/19 20:00*	*01/25/19 12:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.6	4.8	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Anthracene	**3.8**	**J**	4.8	1.9	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Benzo[a]anthracene	**3.4**	**J**	4.8	1.4	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Benzo[a]pyrene	**6.5**		4.8	1.8	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Benzo[b]fluoranthene	**59**		4.8	2.0	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Benzo[g,h,i]perylene	**7.1**		4.8	4.1	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Benzo[k]fluoranthene	**4.7**	**J**	4.8	2.0	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Chrysene	**36**		4.8	1.4	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Dibenz(a,h)anthracene	**5.3**		4.8	3.4	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Fluoranthene	**20**		4.8	1.4	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Fluorene	**3.1**	**J**	4.8	2.1	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Indeno[1,2,3-cd]pyrene	**6.3**		4.8	4.1	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Naphthalene	**6.7**		4.8	3.4	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Phenanthrene	**60**		4.8	1.7	ug/Kg		01/28/19 10:50	02/02/19 00:59	1
Pyrene	**29**		4.8	1.6	ug/Kg		01/28/19 10:50	02/02/19 00:59	1

Client Sample ID: DG-AL9S-7-7.5

Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*33 - 120*	*01/28/19 10:50*	*02/02/19 00:59*	*1*
Terphenyl-d14	*108*		*35 - 146*	*01/28/19 10:50*	*02/02/19 00:59*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.4**	**J**	1.9	0.71	mg/Kg		01/29/19 12:17	02/04/19 17:49	1
Motor Oil Range Organics [C24-C36]	ND		48	9.5	mg/Kg		01/29/19 12:17	02/04/19 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*01/29/19 12:17*	*02/04/19 17:49*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/24/19 10:00	02/01/19 13:28	1
Toxaphene	ND		39	6.7	ug/Kg		01/24/19 10:00	02/01/19 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*21 - 136*	*01/24/19 10:00*	*02/01/19 13:28*	*1*
Tetrachloro-m-xylene	*88*		*21 - 145*	*01/24/19 10:00*	*02/01/19 13:28*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:00	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:00	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:00	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:00	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:00	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:00	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:00	1

Client Sample ID: DG-AL9S-7-7.5
Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-8
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*01/23/19 14:51*	*01/24/19 21:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.4**	**B**	1.8	0.30	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Arsenic	**9.9**		3.6	0.31	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Barium	**100**		1.8	0.26	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Beryllium	**0.44**		0.36	0.12	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Cadmium	**0.57**		0.45	0.045	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Chromium	**24**	**B**	1.8	0.19	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Cobalt	**12**	**B**	0.73	0.073	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Copper	**49**		5.5	2.6	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Lead	**18**		1.8	0.38	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Nickel	**34**	**B**	1.8	0.19	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Selenium	ND		3.6	0.55	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Silver	ND		0.91	0.18	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Thallium	ND		1.8	0.53	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Vanadium	**31**		1.8	0.25	mg/Kg		01/24/19 09:37	01/30/19 18:42	4
Zinc	**130**		5.5	2.3	mg/Kg		01/24/19 09:37	01/30/19 18:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.015	0.0022	mg/Kg		01/29/19 12:33	01/29/19 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.6**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-Y11S-0.5-1

Date Collected: 01/21/19 11:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	52	ug/Kg		01/21/19 20:00	01/25/19 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*60 - 120*	*01/21/19 20:00*	*01/25/19 12:29*	*1*
4-Bromofluorobenzene (Surr)	*91*		*79 - 120*	*01/21/19 20:00*	*01/25/19 12:29*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/21/19 20:00*	*01/25/19 12:29*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,1,1-Trichloroethane	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
2-Hexanone	ND		7.5	3.7	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
4-Isopropyltoluene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Benzene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Bromobenzene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Bromoform	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Bromomethane	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Chloroethane	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Chloroform	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Chloromethane	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Dibromomethane	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1

Client Sample ID: DG-Y11S-0.5-1
Date Collected: 01/21/19 11:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Naphthalene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
N-Propylbenzene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Styrene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Tetrachloroethene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Toluene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Trichloroethene	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		01/21/19 20:00	01/25/19 12:29	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/21/19 20:00	01/25/19 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/21/19 20:00*	*01/25/19 12:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/21/19 20:00*	*01/25/19 12:29*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		960	480	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Acenaphthene	ND		480	270	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Acenaphthylene	ND		480	230	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Anthracene	**260**	**J**	480	190	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Benzo[a]anthracene	**220**	**J**	480	140	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Benzo[a]pyrene	**680**		480	180	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Benzo[b]fluoranthene	**690**		480	200	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Benzo[g,h,i]perylene	**900**		480	410	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Benzo[k]fluoranthene	**340**	**J**	480	200	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Chrysene	**280**	**J**	480	130	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Dibenz(a,h)anthracene	**400**	**J**	480	340	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Fluoranthene	**320**	**J**	480	130	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Fluorene	ND		480	210	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Indeno[1,2,3-cd]pyrene	**520**		480	400	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Naphthalene	ND		480	340	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Phenanthrene	**180**	**J**	480	170	ug/Kg		01/28/19 10:50	02/04/19 11:27	20
Pyrene	**920**		480	160	ug/Kg		01/28/19 10:50	02/04/19 11:27	20

Client Sample ID: DG-Y11S-0.5-1

Date Collected: 01/21/19 11:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*105*		*33 - 120*	*01/28/19 10:50*	*02/04/19 11:27*	*20*
Terphenyl-d14	*201*	*X*	*35 - 146*	*01/28/19 10:50*	*02/04/19 11:27*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2200**		240	89	mg/Kg		01/29/19 12:17	02/01/19 18:18	50
Motor Oil Range Organics [C24-C36]	**6100**		5900	1200	mg/Kg		01/29/19 12:17	02/01/19 18:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/29/19 12:17*	*02/01/19 18:18*	*50*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
4,4'-DDE	ND		20	4.1	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
4,4'-DDT	ND		20	4.0	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Aldrin	ND		20	4.9	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
alpha-BHC	ND		20	5.4	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
alpha-Chlordane	ND		20	3.9	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
beta-BHC	ND		20	3.5	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Chlordane (n.o.s.)	ND		390	28	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Chlordane (technical)	ND		390	31	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
delta-BHC	ND		20	4.3	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Dieldrin	ND		20	5.8	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Endosulfan I	ND		20	3.1	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Endosulfan II	ND		20	4.8	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Endosulfan sulfate	ND		20	3.7	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Endrin	ND		20	4.5	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Endrin aldehyde	ND		20	6.2	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Endrin ketone	ND		20	3.2	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
gamma-Chlordane	ND		20	4.5	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Heptachlor	ND		20	4.5	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Heptachlor epoxide	ND		20	3.4	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Methoxychlor	ND		20	6.7	ug/Kg		01/24/19 10:00	02/01/19 13:44	10
Toxaphene	ND		390	67	ug/Kg		01/24/19 10:00	02/01/19 13:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X*	*21 - 136*	*01/24/19 10:00*	*02/01/19 13:44*	*10*
Tetrachloro-m-xylene	*0*	*X*	*21 - 145*	*01/24/19 10:00*	*02/01/19 13:44*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 21:14	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 21:14	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 21:14	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 21:14	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 21:14	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 21:14	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 21:14	1

Client Sample ID: DG-Y11S-0.5-1

Date Collected: 01/21/19 11:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*01/23/19 14:51*	*01/24/19 21:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.3**	**B**	1.7	0.27	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Arsenic	**14**		3.3	0.28	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Barium	**94**		1.7	0.23	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Beryllium	ND		0.33	0.11	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Cadmium	**0.72**		0.41	0.041	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Chromium	**21**	**B**	1.7	0.18	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Cobalt	**8.4**	**B**	0.66	0.066	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Copper	**200**		5.0	2.4	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Lead	**500**		1.7	0.35	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Molybdenum	**0.36**	**J**	1.7	0.21	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Nickel	**24**	**B**	1.7	0.17	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Selenium	ND		3.3	0.50	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Silver	ND		0.83	0.17	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Thallium	ND		1.7	0.48	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Vanadium	**58**		1.7	0.22	mg/Kg		01/24/19 09:37	01/30/19 18:47	4
Zinc	**210**		5.0	2.1	mg/Kg		01/24/19 09:37	01/30/19 18:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.40**		0.016	0.0023	mg/Kg		01/29/19 12:33	01/29/19 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DG-Y11S-3.5-4

Date Collected: 01/21/19 11:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		01/21/19 20:00	01/25/19 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*	*01/21/19 20:00*	*01/25/19 12:56*	*1*
4-Bromofluorobenzene (Surr)	*90*		*79 - 120*	*01/21/19 20:00*	*01/25/19 12:56*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/21/19 20:00*	*01/25/19 12:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Benzene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Bromoform	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Chloroform	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1

Client Sample ID: DG-Y11S-3.5-4

Date Collected: 01/21/19 11:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Styrene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Toluene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Vinyl acetate	ND		5.9	2.9	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		01/21/19 20:00	01/25/19 12:56	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.8	ug/Kg		01/21/19 20:00	01/25/19 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/21/19 20:00*	*01/25/19 12:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*01/21/19 20:00*	*01/25/19 12:56*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		19	9.4	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Acenaphthene	ND		9.4	5.3	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Acenaphthylene	**6.5**	**J**	9.4	4.5	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Anthracene	**34**		9.4	3.8	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Benzo[a]anthracene	ND		9.4	2.8	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Benzo[a]pyrene	**8.5**	**J**	9.4	3.6	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Benzo[b]fluoranthene	**16**		9.4	3.9	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Benzo[g,h,i]perylene	**19**		9.4	8.1	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Benzo[k]fluoranthene	**6.0**	**J**	9.4	3.9	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Chrysene	**6.9**	**J**	9.4	2.6	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Dibenz(a,h)anthracene	**6.8**	**J**	9.4	6.6	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Fluoranthene	**5.5**	**J**	9.4	2.6	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Fluorene	ND		9.4	4.1	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Indeno[1,2,3-cd]pyrene	**10**		9.4	7.9	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Naphthalene	ND		9.4	6.6	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Phenanthrene	**12**		9.4	3.4	ug/Kg		01/28/19 10:50	02/04/19 11:51	2
Pyrene	**9.8**		9.4	3.2	ug/Kg		01/28/19 10:50	02/04/19 11:51	2

Client Sample ID: DG-Y11S-3.5-4

Date Collected: 01/21/19 11:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*33 - 120*	*01/28/19 10:50*	*02/04/19 11:51*	*2*
Terphenyl-d14	*140*		*35 - 146*	*01/28/19 10:50*	*02/04/19 11:51*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**250**		2.0	0.75	mg/Kg		01/29/19 12:17	02/04/19 15:22	1
Motor Oil Range Organics [C24-C36]	**260**		50	10	mg/Kg		01/29/19 12:17	02/04/19 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*70*		*40 - 130*	*01/29/19 12:17*	*02/04/19 15:22*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/24/19 10:00	02/02/19 19:20	1
Toxaphene	ND		39	6.7	ug/Kg		01/24/19 10:00	02/02/19 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*21 - 136*	*01/24/19 10:00*	*02/02/19 19:20*	*1*
Tetrachloro-m-xylene	*91*		*21 - 145*	*01/24/19 10:00*	*02/02/19 19:20*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:29	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:29	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:29	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:29	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:29	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:29	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:29	1

Client Sample ID: DG-Y11S-3.5-4

Date Collected: 01/21/19 11:20
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*01/23/19 14:51*	*01/24/19 21:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.4**	**B**	1.3	0.21	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Arsenic	**11**		2.5	0.22	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Barium	**360**		1.3	0.18	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Beryllium	**0.79**		0.25	0.083	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Cadmium	**0.29**	**J**	0.32	0.032	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Chromium	**26**	**B**	1.3	0.14	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Cobalt	**15**	**B**	0.51	0.051	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Copper	**220**		3.8	1.8	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Lead	**610**		1.3	0.27	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Molybdenum	ND		1.3	0.16	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Nickel	**34**	**B**	1.3	0.13	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Selenium	ND		2.5	0.38	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Silver	ND		0.64	0.13	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Thallium	ND		1.3	0.37	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Vanadium	**33**		1.3	0.17	mg/Kg		01/24/19 09:37	01/30/19 18:51	4
Zinc	**140**		3.8	1.6	mg/Kg		01/24/19 09:37	01/30/19 18:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.097**		0.015	0.0023	mg/Kg		01/29/19 12:33	01/29/19 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.4**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DUP-64
Date Collected: 01/21/19 00:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-11
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		54	38	ug/Kg		01/21/19 20:00	01/25/19 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/21/19 20:00*	*01/25/19 11:42*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/21/19 20:00*	*01/25/19 11:42*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/21/19 20:00*	*01/25/19 11:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.4	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,1,1,2-Tetrachloroethane	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,1,1-Trichloroethane	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,1,2-Trichloroethane	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,1-Dichloroethane	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,1-Dichloroethene	ND		1.1	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,1-Dichloropropene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,2,3-Trichlorobenzene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,2,4-Trichlorobenzene	ND		2.7	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,2,4-Trimethylbenzene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,2-Dibromo-3-Chloropropane	ND		2.7	1.1	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,2-Dichlorobenzene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,2-Dichloroethane	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,2-Dichloropropane	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,3,5-Trimethylbenzene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,3-Dichlorobenzene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,3-Dichloropropane	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,4-Dichlorobenzene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
2,2-Dichloropropane	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
2-Chlorotoluene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
2-Hexanone	ND		5.4	2.7	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
4-Chlorotoluene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
4-Isopropyltoluene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Benzene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Bromobenzene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Bromoform	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Bromomethane	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Carbon disulfide	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Carbon tetrachloride	ND		1.1	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Chlorobenzene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Chlorobromomethane	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Chloroethane	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Chloroform	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Chloromethane	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
cis-1,2-Dichloroethene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
cis-1,3-Dichloropropene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Chlorodibromomethane	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Dibromomethane	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Dichlorobromomethane	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1

Client Sample ID: DUP-64
Date Collected: 01/21/19 00:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-11
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Ethylbenzene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Hexachlorobutadiene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Isopropylbenzene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Methylene Chloride	ND		5.4	2.7	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Methyl tert-butyl ether	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Naphthalene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
n-Butylbenzene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
N-Propylbenzene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
sec-Butylbenzene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Styrene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
tert-Butylbenzene	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Tetrachloroethene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Toluene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
trans-1,2-Dichloroethene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
trans-1,3-Dichloropropene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Trichloroethene	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Trichlorofluoromethane	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4	2.7	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Vinyl acetate	ND		4.3	2.2	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Vinyl chloride	ND		1.1	0.54	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Xylenes, Total	ND		1.1	0.70	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
Ethylene Dibromide	ND		0.54	0.27	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
2-Butanone (MEK)	ND		5.4	2.7	ug/Kg		01/21/19 20:00	01/25/19 11:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.7	1.3	ug/Kg		01/21/19 20:00	01/25/19 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/21/19 20:00*	*01/25/19 11:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*01/21/19 20:00*	*01/25/19 11:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.5	4.8	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Anthracene	**3.0**	**J**	4.8	1.9	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Benzo[a]anthracene	**3.5**	**J**	4.8	1.4	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Benzo[a]pyrene	**8.5**		4.8	1.8	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Benzo[b]fluoranthene	**71**		4.8	2.0	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Benzo[g,h,i]perylene	**7.5**		4.8	4.1	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Benzo[k]fluoranthene	**5.3**		4.8	2.0	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Chrysene	**35**		4.8	1.3	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Dibenz(a,h)anthracene	**5.0**		4.8	3.3	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Fluoranthene	**22**		4.8	1.3	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Fluorene	ND		4.8	2.1	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Indeno[1,2,3-cd]pyrene	**6.6**		4.8	4.0	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Naphthalene	**4.4**	**J**	4.8	3.3	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Phenanthrene	**35**		4.8	1.7	ug/Kg		01/28/19 10:50	02/02/19 02:10	1
Pyrene	**30**		4.8	1.6	ug/Kg		01/28/19 10:50	02/02/19 02:10	1

Client Sample ID: DUP-64

Date Collected: 01/21/19 00:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*01/28/19 10:50*	*02/02/19 02:10*	*1*
Terphenyl-d14	*112*		*35 - 146*	*01/28/19 10:50*	*02/02/19 02:10*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.7**		1.9	0.73	mg/Kg		01/29/19 12:17	02/04/19 18:18	1
Motor Oil Range Organics [C24-C36]	ND		48	9.7	mg/Kg		01/29/19 12:17	02/04/19 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*104*		*40 - 130*	*01/29/19 12:17*	*02/04/19 18:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/24/19 10:00	02/02/19 19:04	1
Toxaphene	ND		39	6.7	ug/Kg		01/24/19 10:00	02/02/19 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*21 - 136*	*01/24/19 10:00*	*02/02/19 19:04*	*1*
Tetrachloro-m-xylene	*83*		*21 - 145*	*01/24/19 10:00*	*02/02/19 19:04*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:43	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:43	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:43	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:43	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:43	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:43	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:43	1

Client Sample ID: DUP-64
Date Collected: 01/21/19 00:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-11
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*01/23/19 14:51*	*01/24/19 21:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.0**	**B**	1.6	0.26	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Arsenic	**14**		3.1	0.27	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Barium	**110**		1.6	0.22	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Beryllium	**0.88**		0.31	0.10	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Cadmium	**0.72**		0.39	0.039	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Chromium	**36**	**B**	1.6	0.17	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Cobalt	**22**	**B**	0.63	0.063	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Copper	**73**		4.7	2.2	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Lead	**37**		1.6	0.33	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Nickel	**48**	**B**	1.6	0.16	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Selenium	ND		3.1	0.47	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Silver	ND		0.78	0.16	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Thallium	ND		1.6	0.45	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Vanadium	**42**		1.6	0.21	mg/Kg		01/24/19 09:37	01/30/19 18:56	4
Zinc	**410**		4.7	2.0	mg/Kg		01/24/19 09:37	01/30/19 18:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.053**		0.014	0.0021	mg/Kg		01/29/19 12:33	01/29/19 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.9**		0.1	0.05	%			01/23/19 10:10	1

Client Sample ID: DUP-76

Date Collected: 01/21/19 00:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-12

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		62	43	ug/Kg		01/21/19 20:00	01/25/19 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/21/19 20:00*	*01/25/19 12:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/21/19 20:00*	*01/25/19 12:10*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 12:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,1,1,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,1,1-Trichloroethane	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,1,2-Trichloroethane	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,1-Dichloroethane	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,1-Dichloroethene	ND		1.2	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,1-Dichloropropene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,2,3-Trichlorobenzene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,2,4-Trichlorobenzene	ND		3.1	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,2,4-Trimethylbenzene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,2-Dibromo-3-Chloropropane	ND		3.1	1.2	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,2-Dichlorobenzene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,2-Dichloroethane	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,2-Dichloropropane	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,3,5-Trimethylbenzene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,3-Dichlorobenzene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,3-Dichloropropane	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,4-Dichlorobenzene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
2,2-Dichloropropane	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
2-Chlorotoluene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
2-Hexanone	ND		6.2	3.1	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
4-Chlorotoluene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
4-Isopropyltoluene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Benzene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Bromobenzene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Bromoform	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Bromomethane	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Carbon disulfide	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Carbon tetrachloride	ND		1.2	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Chlorobenzene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Chlorobromomethane	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Chloroethane	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Chloroform	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Chloromethane	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
cis-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
cis-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Chlorodibromomethane	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Dibromomethane	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Dichlorobromomethane	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1

Client Sample ID: DUP-76

Date Collected: 01/21/19 00:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Ethylbenzene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Hexachlorobutadiene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Isopropylbenzene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Methylene Chloride	ND		6.2	3.1	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Methyl tert-butyl ether	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Naphthalene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
n-Butylbenzene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
N-Propylbenzene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
sec-Butylbenzene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Styrene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
tert-Butylbenzene	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Tetrachloroethene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Toluene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
trans-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
trans-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Trichloroethene	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Trichlorofluoromethane	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	3.1	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Vinyl acetate	ND		5.0	2.5	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Vinyl chloride	ND		1.2	0.62	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Xylenes, Total	ND		1.2	0.81	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
Ethylene Dibromide	ND		0.62	0.31	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
2-Butanone (MEK)	ND		6.2	3.1	ug/Kg		01/21/19 20:00	01/25/19 12:10	1
4-Methyl-2-pentanone (MIBK)	ND		3.1	1.6	ug/Kg		01/21/19 20:00	01/25/19 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/21/19 20:00*	*01/25/19 12:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*01/21/19 20:00*	*01/25/19 12:10*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		19	9.4	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Acenaphthene	ND		9.4	5.3	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Acenaphthylene	ND		9.4	4.5	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Anthracene	**4.1**	**J**	9.4	3.8	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Benzo[a]anthracene	ND		9.4	2.8	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Benzo[a]pyrene	**7.1**	**J**	9.4	3.6	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Benzo[b]fluoranthene	**6.2**	**J**	9.4	4.0	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Benzo[g,h,i]perylene	**11**		9.4	8.1	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Benzo[k]fluoranthene	**4.9**	**J**	9.4	4.0	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Chrysene	**3.0**	**J**	9.4	2.6	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Dibenz(a,h)anthracene	ND		9.4	6.6	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Fluoranthene	**3.3**	**J**	9.4	2.6	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Fluorene	ND		9.4	4.2	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Indeno[1,2,3-cd]pyrene	ND		9.4	7.9	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Naphthalene	ND		9.4	6.6	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Phenanthrene	**3.7**	**J**	9.4	3.4	ug/Kg		01/28/19 10:50	02/04/19 12:15	2
Pyrene	**7.9**	**J**	9.4	3.2	ug/Kg		01/28/19 10:50	02/04/19 12:15	2

Client Sample ID: DUP-76

Date Collected: 01/21/19 00:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-12

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		33 - 120	01/28/19 10:50	02/04/19 12:15	2
Terphenyl-d14	180	X	35 - 146	01/28/19 10:50	02/04/19 12:15	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	47		3.9	1.5	mg/Kg		01/29/19 12:17	02/01/19 12:37	2
Motor Oil Range Organics [C24-C36]	160		98	20	mg/Kg		01/29/19 12:17	02/01/19 12:37	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	90		40 - 130	01/29/19 12:17	02/01/19 12:37	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.3	J	2.0	0.60	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Aldrin	ND		2.0	0.49	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Endrin	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/24/19 10:00	02/02/19 19:36	1
Toxaphene	ND		39	6.7	ug/Kg		01/24/19 10:00	02/02/19 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		21 - 136	01/24/19 10:00	02/02/19 19:36	1
Tetrachloro-m-xylene	105		21 - 145	01/24/19 10:00	02/02/19 19:36	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:57	1
Aroclor 1221	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:57	1
Aroclor 1232	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:57	1
Aroclor 1242	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:57	1
Aroclor 1248	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:57	1
Aroclor 1254	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:57	1
Aroclor 1260	ND		49	17	ug/Kg		01/23/19 14:51	01/24/19 21:57	1

Client Sample ID: DUP-76

Date Collected: 01/21/19 00:00
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*01/23/19 14:51*	*01/24/19 21:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**	**J B**	1.6	0.27	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Arsenic	**0.99**	**J**	3.2	0.27	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Barium	**29**		1.6	0.23	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Beryllium	ND		0.32	0.10	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Cadmium	**0.23**	**J**	0.40	0.040	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Chromium	**9.5**	**B**	1.6	0.17	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Cobalt	**14**	**B**	0.65	0.065	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Copper	**92**		4.8	2.3	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Lead	**13**		1.6	0.34	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Molybdenum	ND		1.6	0.21	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Nickel	**7.5**	**B**	1.6	0.16	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Selenium	ND		3.2	0.48	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Silver	ND		0.81	0.16	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Thallium	ND		1.6	0.47	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Vanadium	**98**		1.6	0.22	mg/Kg		01/24/19 09:37	01/30/19 19:01	4
Zinc	**55**		4.8	2.0	mg/Kg		01/24/19 09:37	01/30/19 19:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**		0.015	0.0022	mg/Kg		01/29/19 12:33	01/29/19 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.05	%			01/23/19 10:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TOL (79-123)	DCA (70-130)
440-231481-A-1 MS	Matrix Spike	93	99
440-231481-A-1 MSD	Matrix Spike Duplicate	96	95
720-90949-1	DG-AP9S-0.5-1	98	103
720-90949-2	DG-AP9S-3.5-4	101	101
720-90949-3	DG-AN9S-0.5-1	100	101
720-90949-4	DG-AN9S-3.5-4	98	105
720-90949-5	DG-AN9S-7-7.5	104	101
720-90949-6	DG-AL9S-0.5-1	99	100
720-90949-6 MS	DG-AL9S-0.5-1	95	98
720-90949-6 MSD	DG-AL9S-0.5-1	93	99
720-90949-7	DG-AL9S-3.5-4	101	105
720-90949-8	DG-AL9S-7-7.5	100	101
720-90949-9	DG-Y11S-0.5-1	102	105
720-90949-10	DG-Y11S-3.5-4	102	96
720-90949-11	DUP-64	100	95
720-90949-12	DUP-76	101	96
720-90961-A-11-B MS	Matrix Spike	99	105
720-90961-A-11-C MSD	Matrix Spike Duplicate	96	107
LCS 440-524853/5	Lab Control Sample	98	97
LCS 440-524855/5	Lab Control Sample	93	101
LCS 440-525143/16	Lab Control Sample	90	104
MB 440-524853/4	Method Blank	100	97
MB 440-524855/4	Method Blank	96	104
MB 440-525143/4	Method Blank	96	113

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (60-120)	BFB (79-120)	TOL (79-123)
440-231481-A-1 MS	Matrix Spike	110	95	93
440-231481-A-1 MSD	Matrix Spike Duplicate	106	94	96
720-90949-1	DG-AP9S-0.5-1	118	88	98
720-90949-2	DG-AP9S-3.5-4	117	87	101
720-90949-3	DG-AN9S-0.5-1	114	87	100
720-90949-4	DG-AN9S-3.5-4	116	86	98
720-90949-5	DG-AN9S-7-7.5	117	110	104
720-90949-6	DG-AL9S-0.5-1	115	85	99
720-90949-6 MS	DG-AL9S-0.5-1	115	92	95
720-90949-6 MSD	DG-AL9S-0.5-1	115	83	93
720-90949-7	DG-AL9S-3.5-4	118	86	101
720-90949-8	DG-AL9S-7-7.5	117	89	100
720-90949-9	DG-Y11S-0.5-1	119	91	102
720-90949-10	DG-Y11S-3.5-4	112	90	102

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-90949-11	DUP-64	103	104	100
720-90949-12	DUP-76	106	100	101
720-90961-A-11-B MS	Matrix Spike	117	95	99
720-90961-A-11-C MSD	Matrix Spike Duplicate	122 X	89	96
LCS 440-524854/6	Lab Control Sample	107	103	98
LCS 440-524856/6	Lab Control Sample	116	83	98
LCS 440-525144/17	Lab Control Sample	116	84	97
MB 440-524854/4	Method Blank	106	102	100
MB 440-524856/4	Method Blank	114	85	96
MB 440-525144/4	Method Blank	119	85	96

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-90949-1	DG-AP9S-0.5-1	78	120
720-90949-2	DG-AP9S-3.5-4	69	101
720-90949-3	DG-AN9S-0.5-1	73	116
720-90949-4	DG-AN9S-3.5-4	72	116
720-90949-5	DG-AN9S-7-7.5	64	98
720-90949-6	DG-AL9S-0.5-1	92	117
720-90949-6 MS	DG-AL9S-0.5-1	84	109
720-90949-6 MSD	DG-AL9S-0.5-1	82	119
720-90949-7	DG-AL9S-3.5-4	73	111
720-90949-8	DG-AL9S-7-7.5	66	108
720-90949-9	DG-Y11S-0.5-1	105	201 X
720-90949-10	DG-Y11S-3.5-4	96	140
720-90949-11	DUP-64	67	112
720-90949-12	DUP-76	98	180 X
LCS 720-259327/2-A	Lab Control Sample	85	108
MB 720-259327/1-A	Method Blank	90	110

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPH1
Lab Sample ID	Client Sample ID	(40-130)
720-90949-1	DG-AP9S-0.5-1	117

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-90949-2	DG-AP9S-3.5-4	106
720-90949-3	DG-AN9S-0.5-1	97
720-90949-4	DG-AN9S-3.5-4	98
720-90949-5	DG-AN9S-7-7.5	106
720-90949-6	DG-AL9S-0.5-1	86
720-90949-6 MS	DG-AL9S-0.5-1	93
720-90949-6 MSD	DG-AL9S-0.5-1	95
720-90949-7	DG-AL9S-3.5-4	78
720-90949-8	DG-AL9S-7-7.5	101
720-90949-9	DG-Y11S-0.5-1	0 X D
720-90949-10	DG-Y11S-3.5-4	70
720-90949-11	DUP-64	104
720-90949-12	DUP-76	90
720-90976-A-2-J MS	Matrix Spike	111
720-90976-A-2-K MSD	Matrix Spike Duplicate	113
LCS 720-259142/2-A	Lab Control Sample	124
LCS 720-259333/2-A	Lab Control Sample	127
MB 720-259142/1-A	Method Blank	128
MB 720-259333/1-A	Method Blank	107

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX1 (21-145)
720-90949-1	DG-AP9S-0.5-1	135 p	90
720-90949-3	DG-AN9S-0.5-1	90	88
720-90949-4	DG-AN9S-3.5-4	86	86
720-90949-7	DG-AL9S-3.5-4	69	78
720-90949-10	DG-Y11S-3.5-4	100	91

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX2 (21-145)
720-90949-11	DUP-64	106	83
720-90949-12	DUP-76	93	105

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX1 (21-145)
720-90949-2	DG-AP9S-3.5-4	75	77
720-90949-5	DG-AN9S-7-7.5	83	80
720-90949-8	DG-AL9S-7-7.5	84	88
720-90949-9	DG-Y11S-0.5-1	0 X	0 X
LCS 720-259123/2-A	Lab Control Sample	102	80
MB 720-259123/1-A	Method Blank	96	74

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX2 (21-145)
720-90949-6	DG-AL9S-0.5-1	80	80
720-90949-6 MS	DG-AL9S-0.5-1	97	85
720-90949-6 MSD	DG-AL9S-0.5-1	83	90

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
720-90948-E-7-G MS	Matrix Spike	71
720-90948-E-7-H MSD	Matrix Spike Duplicate	79
720-90949-1	DG-AP9S-0.5-1	78
720-90949-2	DG-AP9S-3.5-4	65
720-90949-3	DG-AN9S-0.5-1	58
720-90949-4	DG-AN9S-3.5-4	93
720-90949-5	DG-AN9S-7-7.5	83
720-90949-6	DG-AL9S-0.5-1	90
720-90949-6 MS	DG-AL9S-0.5-1	86
720-90949-6 MSD	DG-AL9S-0.5-1	89
720-90949-7	DG-AL9S-3.5-4	50
720-90949-8	DG-AL9S-7-7.5	91
720-90949-9	DG-Y11S-0.5-1	69
720-90949-10	DG-Y11S-3.5-4	63
720-90949-11	DUP-64	93
720-90949-12	DUP-76	77
LCS 440-524461/2-A	Lab Control Sample	99

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90949-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCB2 (45-120)							
LCS 440-524723/2-A	Lab Control Sample	97							
MB 440-524461/1-A	Method Blank	96							
MB 440-524723/1-A	Method Blank	92							

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-524853/4
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/25/19 08:01	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/25/19 08:01	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/25/19 08:01	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/25/19 08:01	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
2-Hexanone	ND		10	5.0	ug/Kg			01/25/19 08:01	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Benzene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Bromoform	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/25/19 08:01	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Chloroform	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/25/19 08:01	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-524853/4
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Styrene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Toluene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/25/19 08:01	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/25/19 08:01	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/25/19 08:01	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/25/19 08:01	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/25/19 08:01	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/25/19 08:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/25/19 08:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/25/19 08:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*01/25/19 08:01*	*1*

Lab Sample ID: LCS 440-524853/5
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	50.3		ug/Kg		101	60 - 135
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/Kg		102	70 - 130
1,1,1-Trichloroethane	50.0	50.4		ug/Kg		101	65 - 135
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/Kg		97	55 - 140
1,1,2-Trichloroethane	50.0	51.5		ug/Kg		103	65 - 135
1,1-Dichloroethane	50.0	50.3		ug/Kg		101	70 - 130
1,1-Dichloroethene	50.0	61.9		ug/Kg		124	70 - 125
1,1-Dichloropropene	50.0	48.9		ug/Kg		98	70 - 130
1,2,3-Trichlorobenzene	50.0	53.6		ug/Kg		107	60 - 130
1,2,4-Trichlorobenzene	50.0	52.6		ug/Kg		105	70 - 135
1,2,4-Trimethylbenzene	50.0	50.9		ug/Kg		102	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/Kg		97	50 - 135
1,2-Dichlorobenzene	50.0	52.0		ug/Kg		104	75 - 120
1,2-Dichloroethane	50.0	48.0		ug/Kg		96	60 - 140
1,2-Dichloropropane	50.0	50.7		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	50.0	51.8		ug/Kg		104	70 - 125
1,3-Dichlorobenzene	50.0	50.2		ug/Kg		100	75 - 125
1,3-Dichloropropane	50.0	50.5		ug/Kg		101	70 - 125
1,4-Dichlorobenzene	50.0	50.2		ug/Kg		100	75 - 120
2,2-Dichloropropane	50.0	51.7		ug/Kg		103	60 - 145
2-Chlorotoluene	50.0	50.3		ug/Kg		101	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524853/5
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	50.0	45.4		ug/Kg		91	40 - 150
4-Chlorotoluene	50.0	49.5		ug/Kg		99	75 - 125
4-Isopropyltoluene	50.0	51.5		ug/Kg		103	75 - 125
Benzene	50.0	52.3		ug/Kg		105	65 - 120
Bromobenzene	50.0	52.3		ug/Kg		105	75 - 120
Bromoform	50.0	53.8		ug/Kg		108	55 - 135
Bromomethane	50.0	61.9		ug/Kg		124	60 - 145
Carbon disulfide	50.0	53.4		ug/Kg		107	50 - 130
Carbon tetrachloride	50.0	50.6		ug/Kg		101	65 - 140
Chlorobenzene	50.0	49.3		ug/Kg		99	75 - 120
Chlorobromomethane	50.0	60.3		ug/Kg		121	70 - 135
Chloroethane	50.0	56.5		ug/Kg		113	60 - 140
Chloroform	50.0	52.3		ug/Kg		105	70 - 130
Chloromethane	50.0	49.4		ug/Kg		99	45 - 145
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	70 - 125
cis-1,3-Dichloropropene	50.0	52.3		ug/Kg		105	75 - 125
Chlorodibromomethane	50.0	50.7		ug/Kg		101	65 - 140
Dibromomethane	50.0	51.9		ug/Kg		104	70 - 130
Dichlorobromomethane	50.0	49.8		ug/Kg		100	70 - 135
Dichlorodifluoromethane	50.0	46.9		ug/Kg		94	35 - 160
Ethylbenzene	50.0	49.7		ug/Kg		99	70 - 125
Hexachlorobutadiene	50.0	55.0		ug/Kg		110	60 - 135
Isopropylbenzene	50.0	52.7		ug/Kg		105	75 - 130
m-Xylene & p-Xylene	50.0	52.3		ug/Kg		105	70 - 125
Methylene Chloride	50.0	57.3		ug/Kg		115	55 - 135
Methyl tert-butyl ether	50.0	53.5		ug/Kg		107	60 - 140
Naphthalene	50.0	51.1		ug/Kg		102	55 - 135
n-Butylbenzene	50.0	52.5		ug/Kg		105	70 - 130
N-Propylbenzene	50.0	51.2		ug/Kg		102	70 - 130
o-Xylene	50.0	53.1		ug/Kg		106	70 - 125
sec-Butylbenzene	50.0	52.5		ug/Kg		105	70 - 125
Styrene	50.0	51.0		ug/Kg		102	75 - 130
tert-Butylbenzene	50.0	53.1		ug/Kg		106	70 - 125
Tetrachloroethene	50.0	53.0		ug/Kg		106	70 - 125
Toluene	50.0	50.9		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	50.0	58.4		ug/Kg		117	70 - 125
trans-1,3-Dichloropropene	50.0	51.4		ug/Kg		103	70 - 135
Trichloroethene	50.0	53.9		ug/Kg		108	70 - 125
Trichlorofluoromethane	50.0	52.3		ug/Kg		105	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	60.3		ug/Kg		121	60 - 140
Vinyl acetate	50.0	50.2		ug/Kg		100	45 - 145
Vinyl chloride	50.0	49.5		ug/Kg		99	55 - 135
Ethylene Dibromide	50.0	50.1		ug/Kg		100	70 - 130
2-Butanone (MEK)	50.0	60.1		ug/Kg		120	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	45.1		ug/Kg		90	40 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524853/5
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*98*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*

Lab Sample ID: 440-231481-A-1 MS
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		50.1	45.2		ug/Kg		90	50 - 150
1,1,1,2-Tetrachloroethane	ND		50.1	47.2		ug/Kg		94	65 - 145
1,1,1-Trichloroethane	ND		50.1	51.1		ug/Kg		102	65 - 145
1,1,2,2-Tetrachloroethane	ND		50.1	44.7		ug/Kg		89	40 - 160
1,1,2-Trichloroethane	ND		50.1	49.5		ug/Kg		99	65 - 140
1,1-Dichloroethane	ND		50.1	51.3		ug/Kg		102	65 - 135
1,1-Dichloroethene	ND		50.1	59.3		ug/Kg		118	65 - 135
1,1-Dichloropropene	ND		50.1	50.4		ug/Kg		101	65 - 135
1,2,3-Trichlorobenzene	ND		50.1	42.8		ug/Kg		85	45 - 145
1,2,4-Trichlorobenzene	ND		50.1	42.9		ug/Kg		86	50 - 140
1,2,4-Trimethylbenzene	ND		50.1	44.8		ug/Kg		89	65 - 140
1,2-Dibromo-3-Chloropropane	ND		50.1	43.8		ug/Kg		87	40 - 150
1,2-Dichlorobenzene	ND		50.1	44.2		ug/Kg		88	70 - 130
1,2-Dichloroethane	ND		50.1	48.8		ug/Kg		97	60 - 150
1,2-Dichloropropane	ND		50.1	51.2		ug/Kg		102	65 - 130
1,3,5-Trimethylbenzene	ND		50.1	44.9		ug/Kg		90	65 - 135
1,3-Dichlorobenzene	ND		50.1	44.1		ug/Kg		88	70 - 130
1,3-Dichloropropane	ND		50.1	46.0		ug/Kg		92	65 - 140
1,4-Dichlorobenzene	ND		50.1	43.7		ug/Kg		87	70 - 130
2,2-Dichloropropane	ND		50.1	51.6		ug/Kg		103	65 - 150
2-Chlorotoluene	ND		50.1	42.5		ug/Kg		85	60 - 135
2-Hexanone	ND		50.1	42.3		ug/Kg		85	35 - 160
4-Chlorotoluene	ND		50.1	43.1		ug/Kg		86	65 - 135
4-Isopropyltoluene	ND		50.1	43.9		ug/Kg		88	60 - 140
Benzene	ND		50.1	53.6		ug/Kg		107	65 - 130
Bromobenzene	ND		50.1	47.6		ug/Kg		95	65 - 140
Bromoform	ND		50.1	50.1		ug/Kg		100	50 - 145
Bromomethane	ND		50.1	62.3		ug/Kg		124	60 - 155
Carbon disulfide	ND		50.1	53.9		ug/Kg		108	40 - 140
Carbon tetrachloride	ND		50.1	51.0		ug/Kg		102	60 - 145
Chlorobenzene	ND		50.1	46.2		ug/Kg		92	70 - 130
Chlorobromomethane	ND		50.1	59.3		ug/Kg		118	65 - 145
Chloroethane	ND		50.1	55.7		ug/Kg		111	60 - 150
Chloroform	ND		50.1	53.0		ug/Kg		106	65 - 135
Chloromethane	ND		50.1	49.6		ug/Kg		99	40 - 145
cis-1,2-Dichloroethene	ND		50.1	51.5		ug/Kg		103	65 - 135
cis-1,3-Dichloropropene	ND		50.1	49.9		ug/Kg		100	70 - 135
Chlorodibromomethane	ND		50.1	47.7		ug/Kg		95	60 - 145
Dibromomethane	ND		50.1	52.7		ug/Kg		105	65 - 140
Dichlorobromomethane	ND		50.1	50.6		ug/Kg		101	65 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231481-A-1 MS
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		50.1	46.0		ug/Kg		92	30 - 160
Ethylbenzene	ND		50.1	46.8		ug/Kg		93	70 - 135
Hexachlorobutadiene	ND		50.1	41.0		ug/Kg		82	50 - 145
Isopropylbenzene	ND		50.1	48.2		ug/Kg		96	70 - 145
m-Xylene & p-Xylene	ND		50.1	48.8		ug/Kg		97	70 - 130
Methylene Chloride	ND		50.1	58.6		ug/Kg		117	55 - 145
Methyl tert-butyl ether	ND		50.1	55.0		ug/Kg		110	55 - 155
Naphthalene	ND		50.1	43.0		ug/Kg		86	40 - 150
n-Butylbenzene	ND		50.1	42.9		ug/Kg		86	55 - 145
N-Propylbenzene	ND		50.1	43.9		ug/Kg		88	65 - 140
o-Xylene	ND		50.1	49.7		ug/Kg		99	65 - 130
sec-Butylbenzene	ND		50.1	44.6		ug/Kg		89	60 - 135
Styrene	ND		50.1	47.1		ug/Kg		94	70 - 140
tert-Butylbenzene	ND		50.1	46.2		ug/Kg		92	60 - 140
Tetrachloroethene	ND		50.1	47.9		ug/Kg		96	65 - 135
Toluene	ND		50.1	47.9		ug/Kg		96	70 - 130
trans-1,2-Dichloroethene	ND		50.1	58.7		ug/Kg		117	70 - 135
trans-1,3-Dichloropropene	ND		50.1	49.5		ug/Kg		99	60 - 145
Trichloroethene	ND		50.1	54.4		ug/Kg		108	65 - 140
Trichlorofluoromethane	ND		50.1	52.4		ug/Kg		105	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.1	61.0		ug/Kg		122	60 - 140
Vinyl acetate	ND	F2	50.1	39.2		ug/Kg		78	40 - 150
Vinyl chloride	ND		50.1	51.4		ug/Kg		103	55 - 140
Ethylene Dibromide	ND		50.1	48.4		ug/Kg		97	65 - 140
2-Butanone (MEK)	ND		50.1	63.4		ug/Kg		127	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		50.1	41.5		ug/Kg		83	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*

Lab Sample ID: 440-231481-A-1 MSD
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		50.1	42.3		ug/Kg		84	50 - 150	7	30
1,1,1,2-Tetrachloroethane	ND		50.1	46.4		ug/Kg		93	65 - 145	2	20
1,1,1-Trichloroethane	ND		50.1	49.0		ug/Kg		98	65 - 145	4	20
1,1,2,2-Tetrachloroethane	ND		50.1	41.4		ug/Kg		83	40 - 160	8	30
1,1,2-Trichloroethane	ND		50.1	48.7		ug/Kg		97	65 - 140	2	30
1,1-Dichloroethane	ND		50.1	49.6		ug/Kg		99	65 - 135	3	25
1,1-Dichloroethene	ND		50.1	58.9		ug/Kg		118	65 - 135	1	25
1,1-Dichloropropene	ND		50.1	48.6		ug/Kg		97	65 - 135	4	20
1,2,3-Trichlorobenzene	ND		50.1	41.2		ug/Kg		82	45 - 145	4	30
1,2,4-Trichlorobenzene	ND		50.1	41.2		ug/Kg		82	50 - 140	4	30
1,2,4-Trimethylbenzene	ND		50.1	42.4		ug/Kg		85	65 - 140	6	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231481-A-1 MSD
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		50.1	40.5		ug/Kg		81	40 - 150	8	30
1,2-Dichlorobenzene	ND		50.1	43.7		ug/Kg		87	70 - 130	1	25
1,2-Dichloroethane	ND		50.1	46.3		ug/Kg		92	60 - 150	5	25
1,2-Dichloropropane	ND		50.1	50.3		ug/Kg		100	65 - 130	2	20
1,3,5-Trimethylbenzene	ND		50.1	43.8		ug/Kg		87	65 - 135	3	25
1,3-Dichlorobenzene	ND		50.1	43.3		ug/Kg		86	70 - 130	2	25
1,3-Dichloropropane	ND		50.1	44.9		ug/Kg		90	65 - 140	3	25
1,4-Dichlorobenzene	ND		50.1	42.4		ug/Kg		85	70 - 130	3	25
2,2-Dichloropropane	ND		50.1	50.8		ug/Kg		101	65 - 150	1	25
2-Chlorotoluene	ND		50.1	41.6		ug/Kg		83	60 - 135	2	25
2-Hexanone	ND		50.1	41.2		ug/Kg		82	35 - 160	3	40
4-Chlorotoluene	ND		50.1	42.5		ug/Kg		85	65 - 135	1	25
4-Isopropyltoluene	ND		50.1	43.9		ug/Kg		88	60 - 140	0	25
Benzene	ND		50.1	51.1		ug/Kg		102	65 - 130	5	20
Bromobenzene	ND		50.1	45.2		ug/Kg		90	65 - 140	5	25
Bromoform	ND		50.1	46.8		ug/Kg		93	50 - 145	7	30
Bromomethane	ND		50.1	61.2		ug/Kg		122	60 - 155	2	25
Carbon disulfide	ND		50.1	52.4		ug/Kg		105	40 - 140	3	20
Carbon tetrachloride	ND		50.1	50.2		ug/Kg		100	60 - 145	1	25
Chlorobenzene	ND		50.1	45.4		ug/Kg		91	70 - 130	2	25
Chlorobromomethane	ND		50.1	58.0		ug/Kg		116	65 - 145	2	25
Chloroethane	ND		50.1	56.6		ug/Kg		113	60 - 150	2	25
Chloroform	ND		50.1	52.4		ug/Kg		105	65 - 135	1	20
Chloromethane	ND		50.1	49.2		ug/Kg		98	40 - 145	1	25
cis-1,2-Dichloroethene	ND		50.1	51.9		ug/Kg		104	65 - 135	1	25
cis-1,3-Dichloropropene	ND		50.1	49.5		ug/Kg		99	70 - 135	1	25
Chlorodibromomethane	ND		50.1	46.1		ug/Kg		92	60 - 145	3	25
Dibromomethane	ND		50.1	49.8		ug/Kg		99	65 - 140	6	25
Dichlorobromomethane	ND		50.1	48.6		ug/Kg		97	65 - 145	4	20
Dichlorodifluoromethane	ND		50.1	45.5		ug/Kg		91	30 - 160	1	35
Ethylbenzene	ND		50.1	46.6		ug/Kg		93	70 - 135	1	25
Hexachlorobutadiene	ND		50.1	41.6		ug/Kg		83	50 - 145	1	35
Isopropylbenzene	ND		50.1	48.0		ug/Kg		96	70 - 145	0	25
m-Xylene & p-Xylene	ND		50.1	49.1		ug/Kg		98	70 - 130	1	25
Methylene Chloride	ND		50.1	54.8		ug/Kg		109	55 - 145	7	25
Methyl tert-butyl ether	ND		50.1	53.0		ug/Kg		106	55 - 155	4	35
Naphthalene	ND		50.1	41.7		ug/Kg		83	40 - 150	3	40
n-Butylbenzene	ND		50.1	42.4		ug/Kg		85	55 - 145	1	30
N-Propylbenzene	ND		50.1	43.8		ug/Kg		87	65 - 140	0	25
o-Xylene	ND		50.1	46.9		ug/Kg		94	65 - 130	6	25
sec-Butylbenzene	ND		50.1	43.7		ug/Kg		87	60 - 135	2	25
Styrene	ND		50.1	46.5		ug/Kg		93	70 - 140	1	25
tert-Butylbenzene	ND		50.1	44.7		ug/Kg		89	60 - 140	3	25
Tetrachloroethene	ND		50.1	47.4		ug/Kg		95	65 - 135	1	25
Toluene	ND		50.1	45.9		ug/Kg		92	70 - 130	4	20
trans-1,2-Dichloroethene	ND		50.1	57.4		ug/Kg		115	70 - 135	2	25
trans-1,3-Dichloropropene	ND		50.1	47.7		ug/Kg		95	60 - 145	4	25
Trichloroethene	ND		50.1	54.0		ug/Kg		108	65 - 140	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231481-A-1 MSD
Matrix: Solid
Analysis Batch: 524853

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	ND		50.1	51.6		ug/Kg		103	55 - 155	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.1	59.8		ug/Kg		119	60 - 140	2	40
Vinyl acetate	ND	F2	50.1	27.9	F2	ug/Kg		56	40 - 150	34	30
Vinyl chloride	ND		50.1	51.4		ug/Kg		103	55 - 140	0	30
Ethylene Dibromide	ND		50.1	46.4		ug/Kg		93	65 - 140	4	25
2-Butanone (MEK)	ND		50.1	55.2		ug/Kg		110	25 - 170	14	40
4-Methyl-2-pentanone (MIBK)	ND		50.1	41.4		ug/Kg		83	40 - 155	0	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 440-524855/4
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/25/19 08:00	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/25/19 08:00	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/25/19 08:00	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/25/19 08:00	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
2-Hexanone	ND		10	5.0	ug/Kg			01/25/19 08:00	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Benzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Bromoform	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/25/19 08:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-524855/4
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Chloroform	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/25/19 08:00	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Styrene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Toluene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/25/19 08:00	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/25/19 08:00	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/25/19 08:00	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/25/19 08:00	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/25/19 08:00	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/25/19 08:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/25/19 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/25/19 08:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/25/19 08:00*	*1*

Lab Sample ID: LCS 440-524855/5
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	44.7		ug/Kg		89	60 - 135
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/Kg		109	70 - 130
1,1,1-Trichloroethane	50.0	58.8		ug/Kg		118	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524855/5
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	37.4		ug/Kg		75	55 - 140
1,1,2-Trichloroethane	50.0	43.5		ug/Kg		87	65 - 135
1,1-Dichloroethane	50.0	48.4		ug/Kg		97	70 - 130
1,1-Dichloroethene	50.0	55.7		ug/Kg		111	70 - 125
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130
1,2,3-Trichlorobenzene	50.0	53.6		ug/Kg		107	60 - 130
1,2,4-Trichlorobenzene	50.0	53.9		ug/Kg		108	70 - 135
1,2,4-Trimethylbenzene	50.0	42.0		ug/Kg		84	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.1		ug/Kg		80	50 - 135
1,2-Dichlorobenzene	50.0	52.6		ug/Kg		105	75 - 120
1,2-Dichloroethane	50.0	54.0		ug/Kg		108	60 - 140
1,2-Dichloropropane	50.0	48.6		ug/Kg		97	70 - 130
1,3,5-Trimethylbenzene	50.0	41.7		ug/Kg		83	70 - 125
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 125
1,3-Dichloropropane	50.0	44.3		ug/Kg		89	70 - 125
1,4-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 120
2,2-Dichloropropane	50.0	52.1		ug/Kg		104	60 - 145
2-Chlorotoluene	50.0	41.9		ug/Kg		84	70 - 125
2-Hexanone	50.0	38.3		ug/Kg		77	40 - 150
4-Chlorotoluene	50.0	41.6		ug/Kg		83	75 - 125
4-Isopropyltoluene	50.0	45.9		ug/Kg		92	75 - 125
Benzene	50.0	48.0		ug/Kg		96	65 - 120
Bromobenzene	50.0	51.7		ug/Kg		103	75 - 120
Bromoform	50.0	56.5		ug/Kg		113	55 - 135
Bromomethane	50.0	52.4		ug/Kg		105	60 - 145
Carbon disulfide	50.0	49.8		ug/Kg		100	50 - 130
Carbon tetrachloride	50.0	60.6		ug/Kg		121	65 - 140
Chlorobenzene	50.0	51.4		ug/Kg		103	75 - 120
Chlorobromomethane	50.0	61.6		ug/Kg		123	70 - 135
Chloroethane	50.0	43.4		ug/Kg		87	60 - 140
Chloroform	50.0	51.4		ug/Kg		103	70 - 130
Chloromethane	50.0	44.1		ug/Kg		88	45 - 145
cis-1,2-Dichloroethene	50.0	55.6		ug/Kg		111	70 - 125
cis-1,3-Dichloropropene	50.0	47.6		ug/Kg		95	75 - 125
Chlorodibromomethane	50.0	56.1		ug/Kg		112	65 - 140
Dibromomethane	50.0	55.3		ug/Kg		111	70 - 130
Dichlorobromomethane	50.0	52.1		ug/Kg		104	70 - 135
Dichlorodifluoromethane	50.0	48.8		ug/Kg		98	35 - 160
Ethylbenzene	50.0	45.8		ug/Kg		92	70 - 125
Hexachlorobutadiene	50.0	53.6		ug/Kg		107	60 - 135
Isopropylbenzene	50.0	46.9		ug/Kg		94	75 - 130
m-Xylene & p-Xylene	50.0	46.3		ug/Kg		93	70 - 125
Methylene Chloride	50.0	49.8		ug/Kg		100	55 - 135
Methyl tert-butyl ether	50.0	53.3		ug/Kg		107	60 - 140
Naphthalene	50.0	49.2		ug/Kg		98	55 - 135
n-Butylbenzene	50.0	41.5		ug/Kg		83	70 - 130
N-Propylbenzene	50.0	40.7		ug/Kg		81	70 - 130
o-Xylene	50.0	47.2		ug/Kg		94	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-524855/5
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	41.1		ug/Kg		82	70 - 125
Styrene	50.0	42.3		ug/Kg		85	75 - 130
tert-Butylbenzene	50.0	45.1		ug/Kg		90	70 - 125
Tetrachloroethene	50.0	59.7		ug/Kg		119	70 - 125
Toluene	50.0	46.1		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	53.1		ug/Kg		106	70 - 125
trans-1,3-Dichloropropene	50.0	46.3		ug/Kg		93	70 - 135
Trichloroethene	50.0	60.7		ug/Kg		121	70 - 125
Trichlorofluoromethane	50.0	55.9		ug/Kg		112	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.6		ug/Kg		111	60 - 140
Vinyl acetate	50.0	49.4		ug/Kg		99	45 - 145
Vinyl chloride	50.0	42.6		ug/Kg		85	55 - 135
Ethylene Dibromide	50.0	48.6		ug/Kg		97	70 - 130
2-Butanone (MEK)	50.0	52.2		ug/Kg		104	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	39.1		ug/Kg		78	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		33.7	34.2		ug/Kg		102	50 - 150
1,1,1,2-Tetrachloroethane	ND		33.7	38.0		ug/Kg		113	65 - 145
1,1,1-Trichloroethane	ND		33.7	39.8		ug/Kg		118	65 - 145
1,1,2,2-Tetrachloroethane	ND		33.7	29.5		ug/Kg		87	40 - 160
1,1,2-Trichloroethane	ND		33.7	29.9		ug/Kg		89	65 - 140
1,1-Dichloroethane	ND		33.7	33.6		ug/Kg		100	65 - 135
1,1-Dichloroethene	ND		33.7	36.8		ug/Kg		109	65 - 135
1,1-Dichloropropene	ND		33.7	34.8		ug/Kg		103	65 - 135
1,2,3-Trichlorobenzene	ND	F2	33.7	21.1		ug/Kg		63	45 - 145
1,2,4-Trichlorobenzene	ND	F2	33.7	23.9		ug/Kg		71	50 - 140
1,2,4-Trimethylbenzene	ND		33.7	29.9		ug/Kg		89	65 - 140
1,2-Dibromo-3-Chloropropane	ND		33.7	28.8		ug/Kg		85	40 - 150
1,2-Dichlorobenzene	ND		33.7	34.3		ug/Kg		102	70 - 130
1,2-Dichloroethane	ND		33.7	35.9		ug/Kg		107	60 - 150
1,2-Dichloropropane	ND		33.7	33.5		ug/Kg		99	65 - 130
1,3,5-Trimethylbenzene	ND		33.7	29.9		ug/Kg		89	65 - 135
1,3-Dichlorobenzene	ND		33.7	33.8		ug/Kg		100	70 - 130
1,3-Dichloropropane	ND		33.7	30.5		ug/Kg		90	65 - 140
1,4-Dichlorobenzene	ND		33.7	34.1		ug/Kg		101	70 - 130
2,2-Dichloropropane	ND		33.7	39.1		ug/Kg		116	65 - 150
2-Chlorotoluene	ND		33.7	30.2		ug/Kg		90	60 - 135
2-Hexanone	ND		33.7	24.7		ug/Kg		73	35 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	ND		33.7	29.8		ug/Kg		88	65 - 135
4-Isopropyltoluene	ND		33.7	28.3		ug/Kg		84	60 - 140
Benzene	ND		33.7	32.5		ug/Kg		96	65 - 130
Bromobenzene	ND		33.7	39.0		ug/Kg		116	65 - 140
Bromoform	ND		33.7	37.4		ug/Kg		111	50 - 145
Bromomethane	ND		33.7	36.0		ug/Kg		107	60 - 155
Carbon disulfide	ND		33.7	32.4		ug/Kg		96	40 - 140
Carbon tetrachloride	ND		33.7	40.9		ug/Kg		121	60 - 145
Chlorobenzene	ND		33.7	34.0		ug/Kg		101	70 - 130
Chlorobromomethane	ND		33.7	42.6		ug/Kg		127	65 - 145
Chloroethane	ND		33.7	31.3		ug/Kg		93	60 - 150
Chloroform	ND		33.7	36.1		ug/Kg		107	65 - 135
Chloromethane	ND		33.7	30.6		ug/Kg		91	40 - 145
cis-1,2-Dichloroethene	ND		33.7	38.6		ug/Kg		115	65 - 135
cis-1,3-Dichloropropene	ND		33.7	33.3		ug/Kg		99	70 - 135
Chlorodibromomethane	ND		33.7	37.8		ug/Kg		112	60 - 145
Dibromomethane	ND		33.7	35.6		ug/Kg		106	65 - 140
Dichlorobromomethane	ND		33.7	34.7		ug/Kg		103	65 - 145
Dichlorodifluoromethane	ND		33.7	34.3		ug/Kg		102	30 - 160
Ethylbenzene	ND		33.7	30.5		ug/Kg		90	70 - 135
Hexachlorobutadiene	ND	F2	33.7	16.9		ug/Kg		50	50 - 145
Isopropylbenzene	ND		33.7	29.3		ug/Kg		87	70 - 145
m-Xylene & p-Xylene	ND		33.7	30.6		ug/Kg		91	70 - 130
Methylene Chloride	ND		33.7	33.6		ug/Kg		100	55 - 145
Methyl tert-butyl ether	ND		33.7	36.7		ug/Kg		109	55 - 155
Naphthalene	ND		33.7	25.3		ug/Kg		75	40 - 150
n-Butylbenzene	ND	F2	33.7	21.4		ug/Kg		64	55 - 145
N-Propylbenzene	ND		33.7	28.6		ug/Kg		85	65 - 140
o-Xylene	ND		33.7	32.5		ug/Kg		96	65 - 130
sec-Butylbenzene	ND		33.7	25.1		ug/Kg		75	60 - 135
Styrene	ND		33.7	27.1		ug/Kg		80	70 - 140
tert-Butylbenzene	ND		33.7	30.2		ug/Kg		90	60 - 140
Tetrachloroethene	ND		33.7	39.4		ug/Kg		117	65 - 135
Toluene	ND		33.7	32.2		ug/Kg		96	70 - 130
trans-1,2-Dichloroethene	ND		33.7	36.6		ug/Kg		109	70 - 135
trans-1,3-Dichloropropene	ND		33.7	31.9		ug/Kg		95	60 - 145
Trichloroethene	ND		33.7	39.2		ug/Kg		116	65 - 140
Trichlorofluoromethane	ND		33.7	37.7		ug/Kg		112	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		33.7	37.8		ug/Kg		112	60 - 140
Vinyl acetate	ND	F1 F2	33.7	ND	F1	ug/Kg		0	40 - 150
Vinyl chloride	ND		33.7	29.4		ug/Kg		87	55 - 140
Ethylene Dibromide	ND		33.7	31.8		ug/Kg		94	65 - 140
2-Butanone (MEK)	ND		33.7	29.5		ug/Kg		88	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		33.7	25.6		ug/Kg		76	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 524903

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		39.8	33.0		ug/Kg		83	50 - 150	4	30
1,1,1,2-Tetrachloroethane	ND		39.8	43.3		ug/Kg		109	65 - 145	13	20
1,1,1-Trichloroethane	ND		39.8	47.5		ug/Kg		119	65 - 145	18	20
1,1,2,2-Tetrachloroethane	ND		39.8	28.6		ug/Kg		72	40 - 160	3	30
1,1,2-Trichloroethane	ND		39.8	34.1		ug/Kg		86	65 - 140	13	30
1,1-Dichloroethane	ND		39.8	39.9		ug/Kg		100	65 - 135	17	25
1,1-Dichloroethene	ND		39.8	44.8		ug/Kg		113	65 - 135	20	25
1,1-Dichloropropene	ND		39.8	42.1		ug/Kg		106	65 - 135	19	20
1,2,3-Trichlorobenzene	ND	F2	39.8	34.2	F4	ug/Kg		86	45 - 145	48	30
1,2,4-Trichlorobenzene	ND	F2	39.8	38.0	F4	ug/Kg		95	50 - 140	45	30
1,2,4-Trimethylbenzene	ND		39.8	33.7		ug/Kg		85	65 - 140	12	25
1,2-Dibromo-3-Chloropropane	ND		39.8	29.0		ug/Kg		73	40 - 150	1	30
1,2-Dichlorobenzene	ND		39.8	40.4		ug/Kg		101	70 - 130	16	25
1,2-Dichloroethane	ND		39.8	41.9		ug/Kg		105	60 - 150	15	25
1,2-Dichloropropane	ND		39.8	38.7		ug/Kg		97	65 - 130	15	20
1,3,5-Trimethylbenzene	ND		39.8	34.0		ug/Kg		85	65 - 135	13	25
1,3-Dichlorobenzene	ND		39.8	40.6		ug/Kg		102	70 - 130	18	25
1,3-Dichloropropane	ND		39.8	34.3		ug/Kg		86	65 - 140	12	25
1,4-Dichlorobenzene	ND		39.8	40.6		ug/Kg		102	70 - 130	17	25
2,2-Dichloropropane	ND		39.8	44.8		ug/Kg		113	65 - 150	14	25
2-Chlorotoluene	ND		39.8	33.5		ug/Kg		84	60 - 135	10	25
2-Hexanone	ND		39.8	27.3		ug/Kg		69	35 - 160	10	40
4-Chlorotoluene	ND		39.8	33.8		ug/Kg		85	65 - 135	13	25
4-Isopropyltoluene	ND		39.8	36.1		ug/Kg		91	60 - 140	24	25
Benzene	ND		39.8	39.1		ug/Kg		98	65 - 130	18	20
Bromobenzene	ND		39.8	41.3		ug/Kg		104	65 - 140	6	25
Bromoform	ND		39.8	44.2		ug/Kg		111	50 - 145	17	30
Bromomethane	ND		39.8	42.2		ug/Kg		106	60 - 155	16	25
Carbon disulfide	ND		39.8	39.5		ug/Kg		99	40 - 140	20	20
Carbon tetrachloride	ND		39.8	49.0		ug/Kg		123	60 - 145	18	25
Chlorobenzene	ND		39.8	41.1		ug/Kg		103	70 - 130	19	25
Chlorobromomethane	ND		39.8	48.7		ug/Kg		122	65 - 145	13	25
Chloroethane	ND		39.8	35.3		ug/Kg		89	60 - 150	12	25
Chloroform	ND		39.8	42.2		ug/Kg		106	65 - 135	15	20
Chloromethane	ND		39.8	36.1		ug/Kg		91	40 - 145	16	25
cis-1,2-Dichloroethene	ND		39.8	45.0		ug/Kg		113	65 - 135	15	25
cis-1,3-Dichloropropene	ND		39.8	38.7		ug/Kg		97	70 - 135	15	25
Chlorodibromomethane	ND		39.8	43.9		ug/Kg		110	60 - 145	15	25
Dibromomethane	ND		39.8	42.3		ug/Kg		106	65 - 140	17	25
Dichlorobromomethane	ND		39.8	41.4		ug/Kg		104	65 - 145	18	20
Dichlorodifluoromethane	ND		39.8	40.9		ug/Kg		103	30 - 160	17	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 524855

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	ND		39.8	37.1		ug/Kg		93	70 - 135	20	25
Hexachlorobutadiene	ND	F2	39.8	33.7	F4	ug/Kg		85	50 - 145	66	35
Isopropylbenzene	ND		39.8	37.7		ug/Kg		95	70 - 145	25	25
m-Xylene & p-Xylene	ND		39.8	37.8		ug/Kg		95	70 - 130	21	25
Methylene Chloride	ND		39.8	39.0		ug/Kg		98	55 - 145	15	25
Methyl tert-butyl ether	ND		39.8	42.4		ug/Kg		107	55 - 155	15	35
Naphthalene	ND		39.8	32.5		ug/Kg		82	40 - 150	25	40
n-Butylbenzene	ND	F2	39.8	31.2	F4	ug/Kg		78	55 - 145	37	30
N-Propylbenzene	ND		39.8	32.8		ug/Kg		82	65 - 140	14	25
o-Xylene	ND		39.8	38.6		ug/Kg		97	65 - 130	17	25
sec-Butylbenzene	ND		39.8	32.0		ug/Kg		80	60 - 135	24	25
Styrene	ND		39.8	33.8		ug/Kg		85	70 - 140	22	25
tert-Butylbenzene	ND		39.8	35.9		ug/Kg		90	60 - 140	17	25
Tetrachloroethene	ND		39.8	48.5		ug/Kg		122	65 - 135	21	25
Toluene	ND		39.8	37.4		ug/Kg		94	70 - 130	15	20
trans-1,2-Dichloroethene	ND		39.8	43.7		ug/Kg		110	70 - 135	17	25
trans-1,3-Dichloropropene	ND		39.8	37.4		ug/Kg		94	60 - 145	16	25
Trichloroethene	ND		39.8	49.7		ug/Kg		125	65 - 140	23	25
Trichlorofluoromethane	ND		39.8	44.8		ug/Kg		113	55 - 155	17	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		39.8	45.0		ug/Kg		113	60 - 140	17	40
Vinyl acetate	ND	F1 F2	39.8	11.5	F1	ug/Kg		29	40 - 150	NC	30
Vinyl chloride	ND		39.8	29.9		ug/Kg		75	55 - 140	2	30
Ethylene Dibromide	ND		39.8	36.9		ug/Kg		93	65 - 140	15	25
2-Butanone (MEK)	ND		39.8	33.0		ug/Kg		83	25 - 170	11	40
4-Methyl-2-pentanone (MIBK)	ND		39.8	29.3		ug/Kg		74	40 - 155	13	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 440-525143/4
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/26/19 12:11	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/26/19 12:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/26/19 12:11	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/26/19 12:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525143/4
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
2-Hexanone	ND		10	5.0	ug/Kg			01/26/19 12:11	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Benzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Bromoform	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/26/19 12:11	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Chloroform	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/26/19 12:11	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Styrene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Toluene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/26/19 12:11	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/26/19 12:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525143/4
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/26/19 12:11	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/26/19 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/26/19 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/26/19 12:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/26/19 12:11*	*1*

Lab Sample ID: LCS 440-525143/16
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	25.0	21.8		ug/Kg		87	60 - 135
1,1,1,2-Tetrachloroethane	25.0	27.0		ug/Kg		108	70 - 130
1,1,1-Trichloroethane	25.0	30.6		ug/Kg		123	65 - 135
1,1,2,2-Tetrachloroethane	25.0	18.6		ug/Kg		74	55 - 140
1,1,2-Trichloroethane	25.0	21.4		ug/Kg		86	65 - 135
1,1-Dichloroethane	25.0	25.4		ug/Kg		101	70 - 130
1,1-Dichloroethene	25.0	28.3		ug/Kg		113	70 - 125
1,1-Dichloropropene	25.0	26.3		ug/Kg		105	70 - 130
1,2,3-Trichlorobenzene	25.0	25.6		ug/Kg		102	60 - 130
1,2,4-Trichlorobenzene	25.0	27.6		ug/Kg		110	70 - 135
1,2,4-Trimethylbenzene	25.0	21.4		ug/Kg		86	70 - 125
1,2-Dibromo-3-Chloropropane	25.0	20.2		ug/Kg		81	50 - 135
1,2-Dichlorobenzene	25.0	26.1		ug/Kg		104	75 - 120
1,2-Dichloroethane	25.0	27.5		ug/Kg		110	60 - 140
1,2-Dichloropropane	25.0	24.7		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	25.0	21.4		ug/Kg		86	70 - 125
1,3-Dichlorobenzene	25.0	26.4		ug/Kg		105	75 - 125
1,3-Dichloropropane	25.0	21.7		ug/Kg		87	70 - 125
1,4-Dichlorobenzene	25.0	26.2		ug/Kg		105	75 - 120
2,2-Dichloropropane	25.0	29.9		ug/Kg		120	60 - 145
2-Chlorotoluene	25.0	21.2		ug/Kg		85	70 - 125
2-Hexanone	25.0	19.2		ug/Kg		77	40 - 150
4-Chlorotoluene	25.0	21.4		ug/Kg		85	75 - 125
4-Isopropyltoluene	25.0	23.9		ug/Kg		96	75 - 125
Benzene	25.0	24.2		ug/Kg		97	65 - 120
Bromobenzene	25.0	25.7		ug/Kg		103	75 - 120
Bromoform	25.0	28.9		ug/Kg		116	55 - 135
Bromomethane	25.0	26.5		ug/Kg		106	60 - 145
Carbon disulfide	25.0	25.5		ug/Kg		102	50 - 130
Carbon tetrachloride	25.0	32.2		ug/Kg		129	65 - 140
Chlorobenzene	25.0	25.5		ug/Kg		102	75 - 120
Chlorobromomethane	25.0	31.1		ug/Kg		124	70 - 135
Chloroethane	25.0	22.6		ug/Kg		90	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525143/16
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	27.4		ug/Kg		110	70 - 130
Chloromethane	25.0	24.0		ug/Kg		96	45 - 145
cis-1,2-Dichloroethene	25.0	28.9		ug/Kg		116	70 - 125
cis-1,3-Dichloropropene	25.0	23.5		ug/Kg		94	75 - 125
Chlorodibromomethane	25.0	27.2		ug/Kg		109	65 - 140
Dibromomethane	25.0	28.6		ug/Kg		114	70 - 130
Dichlorobromomethane	25.0	26.2		ug/Kg		105	70 - 135
Dichlorodifluoromethane	25.0	26.0		ug/Kg		104	35 - 160
Ethylbenzene	25.0	23.1		ug/Kg		92	70 - 125
Hexachlorobutadiene	25.0	27.3		ug/Kg		109	60 - 135
Isopropylbenzene	25.0	24.0		ug/Kg		96	75 - 130
m-Xylene & p-Xylene	25.0	23.4		ug/Kg		94	70 - 125
Methylene Chloride	25.0	24.4		ug/Kg		98	55 - 135
Methyl tert-butyl ether	25.0	27.7		ug/Kg		111	60 - 140
Naphthalene	25.0	23.6		ug/Kg		95	55 - 135
n-Butylbenzene	25.0	21.7		ug/Kg		87	70 - 130
N-Propylbenzene	25.0	21.1		ug/Kg		85	70 - 130
o-Xylene	25.0	24.2		ug/Kg		97	70 - 125
sec-Butylbenzene	25.0	21.4		ug/Kg		85	70 - 125
Styrene	25.0	21.0		ug/Kg		84	75 - 130
tert-Butylbenzene	25.0	23.2		ug/Kg		93	70 - 125
Tetrachloroethene	25.0	30.2		ug/Kg		121	70 - 125
Toluene	25.0	23.0		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	25.0	27.7		ug/Kg		111	70 - 125
trans-1,3-Dichloropropene	25.0	22.8		ug/Kg		91	70 - 135
Trichloroethene	25.0	31.6	*	ug/Kg		126	70 - 125
Trichlorofluoromethane	25.0	28.9		ug/Kg		116	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.4		ug/Kg		117	60 - 140
Vinyl acetate	25.0	25.6		ug/Kg		102	45 - 145
Vinyl chloride	25.0	22.5		ug/Kg		90	55 - 135
Ethylene Dibromide	25.0	23.4		ug/Kg		94	70 - 130
2-Butanone (MEK)	25.0	23.3		ug/Kg		93	40 - 145
4-Methyl-2-pentanone (MIBK)	25.0	19.7		ug/Kg		79	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*

Lab Sample ID: 720-90961-A-11-B MS
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		40.3	43.3		ug/Kg		108	50 - 150
1,1,1,2-Tetrachloroethane	ND		40.3	42.9		ug/Kg		107	65 - 145
1,1,1-Trichloroethane	ND		40.3	44.0		ug/Kg		109	65 - 145
1,1,2,2-Tetrachloroethane	ND		40.3	34.2		ug/Kg		85	40 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90961-A-11-B MS
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	ND		40.3	36.6		ug/Kg		91	65 - 140
1,1-Dichloroethane	ND		40.3	37.7		ug/Kg		94	65 - 135
1,1-Dichloroethene	ND		40.3	40.8		ug/Kg		101	65 - 135
1,1-Dichloropropene	ND		40.3	37.7		ug/Kg		94	65 - 135
1,2,3-Trichlorobenzene	ND		40.3	24.7		ug/Kg		61	45 - 145
1,2,4-Trichlorobenzene	ND		40.3	28.1		ug/Kg		70	50 - 140
1,2,4-Trimethylbenzene	ND		40.3	33.1		ug/Kg		82	65 - 140
1,2-Dibromo-3-Chloropropane	ND		40.3	34.9		ug/Kg		87	40 - 150
1,2-Dichlorobenzene	ND		40.3	37.4		ug/Kg		93	70 - 130
1,2-Dichloroethane	ND		40.3	41.5		ug/Kg		103	60 - 150
1,2-Dichloropropane	ND		40.3	36.8		ug/Kg		91	65 - 130
1,3,5-Trimethylbenzene	ND		40.3	33.4		ug/Kg		83	65 - 135
1,3-Dichlorobenzene	ND		40.3	38.0		ug/Kg		94	70 - 130
1,3-Dichloropropane	ND		40.3	36.8		ug/Kg		91	65 - 140
1,4-Dichlorobenzene	ND		40.3	38.9		ug/Kg		97	70 - 130
2,2-Dichloropropane	ND		40.3	41.9		ug/Kg		104	65 - 150
2-Chlorotoluene	ND		40.3	34.0		ug/Kg		85	60 - 135
2-Hexanone	ND		40.3	33.1		ug/Kg		82	35 - 160
4-Chlorotoluene	ND		40.3	33.5		ug/Kg		83	65 - 135
4-Isopropyltoluene	ND		40.3	33.6		ug/Kg		83	60 - 140
Benzene	ND		40.3	36.0		ug/Kg		90	65 - 130
Bromobenzene	ND		40.3	44.7		ug/Kg		111	65 - 140
Bromoform	ND		40.3	43.8		ug/Kg		109	50 - 145
Bromomethane	ND		40.3	39.9		ug/Kg		99	60 - 155
Carbon disulfide	ND		40.3	35.3		ug/Kg		88	40 - 140
Carbon tetrachloride	ND		40.3	45.2		ug/Kg		112	60 - 145
Chlorobenzene	ND		40.3	38.7		ug/Kg		96	70 - 130
Chlorobromomethane	ND		40.3	47.0		ug/Kg		117	65 - 145
Chloroethane	ND		40.3	34.2		ug/Kg		85	60 - 150
Chloroform	ND		40.3	39.7		ug/Kg		99	65 - 135
Chloromethane	ND		40.3	35.2		ug/Kg		87	40 - 145
cis-1,2-Dichloroethene	ND		40.3	42.6		ug/Kg		106	65 - 135
cis-1,3-Dichloropropene	ND		40.3	39.5		ug/Kg		98	70 - 135
Chlorodibromomethane	ND		40.3	44.1		ug/Kg		110	60 - 145
Dibromomethane	ND		40.3	41.3		ug/Kg		103	65 - 140
Dichlorobromomethane	ND		40.3	38.8		ug/Kg		96	65 - 145
Dichlorodifluoromethane	ND		40.3	38.5		ug/Kg		96	30 - 160
Ethylbenzene	ND		40.3	33.8		ug/Kg		84	70 - 135
Hexachlorobutadiene	ND		40.3	23.7		ug/Kg		59	50 - 145
Isopropylbenzene	ND		40.3	32.4		ug/Kg		80	70 - 145
m-Xylene & p-Xylene	ND		40.3	34.1		ug/Kg		85	70 - 130
Methylene Chloride	ND		40.3	37.0		ug/Kg		92	55 - 145
Methyl tert-butyl ether	ND		40.3	42.6		ug/Kg		106	55 - 155
Naphthalene	ND		40.3	29.4		ug/Kg		73	40 - 150
n-Butylbenzene	ND		40.3	26.7		ug/Kg		66	55 - 145
N-Propylbenzene	ND		40.3	33.2		ug/Kg		82	65 - 140
o-Xylene	ND		40.3	34.7		ug/Kg		86	65 - 130
sec-Butylbenzene	ND		40.3	30.2		ug/Kg		75	60 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90961-A-11-B MS
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		40.3	30.4		ug/Kg		75	70 - 140
tert-Butylbenzene	ND		40.3	35.9		ug/Kg		89	60 - 140
Tetrachloroethene	ND		40.3	45.7		ug/Kg		114	65 - 135
Toluene	ND		40.3	36.9		ug/Kg		92	70 - 130
trans-1,2-Dichloroethene	ND		40.3	39.9		ug/Kg		99	70 - 135
trans-1,3-Dichloropropene	ND		40.3	37.6		ug/Kg		93	60 - 145
Trichloroethene	ND	*	40.3	44.1		ug/Kg		110	65 - 140
Trichlorofluoromethane	ND		40.3	41.9		ug/Kg		104	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40.3	41.2		ug/Kg		102	60 - 140
Vinyl acetate	ND	F1	40.3	ND	F1	ug/Kg		0	40 - 150
Vinyl chloride	ND		40.3	33.4		ug/Kg		83	55 - 140
Ethylene Dibromide	ND		40.3	37.8		ug/Kg		94	65 - 140
2-Butanone (MEK)	ND		40.3	35.3		ug/Kg		88	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		40.3	34.3		ug/Kg		85	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*

Lab Sample ID: 720-90961-A-11-C MSD
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		41.5	43.3		ug/Kg		104	50 - 150	0	30
1,1,1,2-Tetrachloroethane	ND		41.5	44.4		ug/Kg		107	65 - 145	3	20
1,1,1-Trichloroethane	ND		41.5	46.1		ug/Kg		111	65 - 145	5	20
1,1,2,2-Tetrachloroethane	ND		41.5	35.1		ug/Kg		85	40 - 160	3	30
1,1,2-Trichloroethane	ND		41.5	37.8		ug/Kg		91	65 - 140	3	30
1,1-Dichloroethane	ND		41.5	39.2		ug/Kg		94	65 - 135	4	25
1,1-Dichloroethene	ND		41.5	42.4		ug/Kg		102	65 - 135	4	25
1,1-Dichloropropene	ND		41.5	39.4		ug/Kg		95	65 - 135	4	20
1,2,3-Trichlorobenzene	ND		41.5	32.5		ug/Kg		78	45 - 145	27	30
1,2,4-Trichlorobenzene	ND		41.5	35.3		ug/Kg		85	50 - 140	23	30
1,2,4-Trimethylbenzene	ND		41.5	32.8		ug/Kg		79	65 - 140	1	25
1,2-Dibromo-3-Chloropropane	ND		41.5	37.3		ug/Kg		90	40 - 150	7	30
1,2-Dichlorobenzene	ND		41.5	41.0		ug/Kg		99	70 - 130	9	25
1,2-Dichloroethane	ND		41.5	43.5		ug/Kg		105	60 - 150	5	25
1,2-Dichloropropane	ND		41.5	38.7		ug/Kg		93	65 - 130	5	20
1,3,5-Trimethylbenzene	ND		41.5	33.0		ug/Kg		80	65 - 135	1	25
1,3-Dichlorobenzene	ND		41.5	39.6		ug/Kg		95	70 - 130	4	25
1,3-Dichloropropane	ND		41.5	37.1		ug/Kg		89	65 - 140	1	25
1,4-Dichlorobenzene	ND		41.5	39.7		ug/Kg		96	70 - 130	2	25
2,2-Dichloropropane	ND		41.5	43.2		ug/Kg		104	65 - 150	3	25
2-Chlorotoluene	ND		41.5	33.4		ug/Kg		80	60 - 135	2	25
2-Hexanone	ND		41.5	33.8		ug/Kg		81	35 - 160	2	40
4-Chlorotoluene	ND		41.5	33.2		ug/Kg		80	65 - 135	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90961-A-11-C MSD
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Isopropyltoluene	ND		41.5	34.3		ug/Kg		83	60 - 140	2	25
Benzene	ND		41.5	37.5		ug/Kg		90	65 - 130	4	20
Bromobenzene	ND		41.5	44.1		ug/Kg		106	65 - 140	1	25
Bromoform	ND		41.5	47.5		ug/Kg		114	50 - 145	8	30
Bromomethane	ND		41.5	42.4		ug/Kg		102	60 - 155	6	25
Carbon disulfide	ND		41.5	37.4		ug/Kg		90	40 - 140	6	20
Carbon tetrachloride	ND		41.5	46.9		ug/Kg		113	60 - 145	4	25
Chlorobenzene	ND		41.5	38.7		ug/Kg		93	70 - 130	0	25
Chlorobromomethane	ND		41.5	49.3		ug/Kg		119	65 - 145	5	25
Chloroethane	ND		41.5	35.2		ug/Kg		85	60 - 150	3	25
Chloroform	ND		41.5	41.8		ug/Kg		101	65 - 135	5	20
Chloromethane	ND		41.5	36.8		ug/Kg		89	40 - 145	4	25
cis-1,2-Dichloroethene	ND		41.5	44.1		ug/Kg		106	65 - 135	3	25
cis-1,3-Dichloropropene	ND		41.5	40.3		ug/Kg		97	70 - 135	2	25
Chlorodibromomethane	ND		41.5	46.1		ug/Kg		111	60 - 145	4	25
Dibromomethane	ND		41.5	43.2		ug/Kg		104	65 - 140	4	25
Dichlorobromomethane	ND		41.5	41.0		ug/Kg		99	65 - 145	6	20
Dichlorodifluoromethane	ND		41.5	39.8		ug/Kg		96	30 - 160	3	35
Ethylbenzene	ND		41.5	34.7		ug/Kg		84	70 - 135	3	25
Hexachlorobutadiene	ND		41.5	27.5		ug/Kg		66	50 - 145	15	35
Isopropylbenzene	ND		41.5	34.2		ug/Kg		82	70 - 145	5	25
m-Xylene & p-Xylene	ND		41.5	35.0		ug/Kg		84	70 - 130	2	25
Methylene Chloride	ND		41.5	39.5		ug/Kg		95	55 - 145	6	25
Methyl tert-butyl ether	ND		41.5	45.4		ug/Kg		109	55 - 155	6	35
Naphthalene	ND		41.5	35.5		ug/Kg		85	40 - 150	19	40
n-Butylbenzene	ND		41.5	28.0		ug/Kg		67	55 - 145	5	30
N-Propylbenzene	ND		41.5	31.5		ug/Kg		76	65 - 140	5	25
o-Xylene	ND		41.5	36.9		ug/Kg		89	65 - 130	6	25
sec-Butylbenzene	ND		41.5	30.9		ug/Kg		74	60 - 135	2	25
Styrene	ND		41.5	31.3		ug/Kg		75	70 - 140	3	25
tert-Butylbenzene	ND		41.5	35.9		ug/Kg		86	60 - 140	0	25
Tetrachloroethene	ND		41.5	45.7		ug/Kg		110	65 - 135	0	25
Toluene	ND		41.5	36.9		ug/Kg		89	70 - 130	0	20
trans-1,2-Dichloroethene	ND		41.5	41.8		ug/Kg		101	70 - 135	5	25
trans-1,3-Dichloropropene	ND		41.5	38.1		ug/Kg		92	60 - 145	1	25
Trichloroethene	ND	*	41.5	46.1		ug/Kg		111	65 - 140	4	25
Trichlorofluoromethane	ND		41.5	43.7		ug/Kg		105	55 - 155	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		41.5	43.4		ug/Kg		105	60 - 140	5	40
Vinyl acetate	ND	F1	41.5	15.3	F1	ug/Kg		37	40 - 150	NC	30
Vinyl chloride	ND		41.5	34.3		ug/Kg		83	55 - 140	3	30
Ethylene Dibromide	ND		41.5	40.4		ug/Kg		97	65 - 140	7	25
2-Butanone (MEK)	ND		41.5	37.0		ug/Kg		89	25 - 170	5	40
4-Methyl-2-pentanone (MIBK)	ND		41.5	35.1		ug/Kg		85	40 - 155	2	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-524854/4
Matrix: Solid
Analysis Batch: 524854

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/25/19 08:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*		*01/25/19 08:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*01/25/19 08:01*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/25/19 08:01*	*1*

Lab Sample ID: LCS 440-524854/6
Matrix: Solid
Analysis Batch: 524854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	744		ug/Kg		74	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 440-231481-A-1 MS
Matrix: Solid
Analysis Batch: 524854

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		3460	3170		ug/Kg		92	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*60 - 120*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*
Toluene-d8 (Surr)	*93*		*79 - 123*

Lab Sample ID: 440-231481-A-1 MSD
Matrix: Solid
Analysis Batch: 524854

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3460	2850		ug/Kg		82	55 - 140	11	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*60 - 120*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*
Toluene-d8 (Surr)	*96*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-524856/4
Matrix: Solid
Analysis Batch: 524856

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/25/19 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*60 - 120*		*01/25/19 08:00*	*1*
4-Bromofluorobenzene (Surr)	*85*		*79 - 120*		*01/25/19 08:00*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/25/19 08:00*	*1*

Lab Sample ID: LCS 440-524856/6
Matrix: Solid
Analysis Batch: 524856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	962		ug/Kg		96	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*116*		*60 - 120*
4-Bromofluorobenzene (Surr)	*83*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 524856

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND	F2	2320	1910		ug/Kg		82	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*115*		*60 - 120*
4-Bromofluorobenzene (Surr)	*92*		*79 - 120*
Toluene-d8 (Surr)	*95*		*79 - 123*

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 524856

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 524903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND	F2	2750	2590	F4	ug/Kg		94	55 - 140	30	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*115*		*60 - 120*
4-Bromofluorobenzene (Surr)	*83*		*79 - 120*
Toluene-d8 (Surr)	*93*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-525144/4
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/26/19 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*60 - 120*		*01/26/19 12:11*	*1*
4-Bromofluorobenzene (Surr)	*85*		*79 - 120*		*01/26/19 12:11*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/26/19 12:11*	*1*

Lab Sample ID: LCS 440-525144/17
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	495		ug/Kg		99	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*116*		*60 - 120*
4-Bromofluorobenzene (Surr)	*84*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: 720-90961-A-11-B MS
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2780	2080		ug/Kg		75	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*117*		*60 - 120*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 720-90961-A-11-C MSD
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		2870	2370		ug/Kg		83	55 - 140	13	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*122*	*X*	*60 - 120*
4-Bromofluorobenzene (Surr)	*89*		*79 - 120*
Toluene-d8 (Surr)	*96*		*79 - 123*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-259327/1-A
Matrix: Solid
Analysis Batch: 259356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Anthracene	ND		5.0	2.0	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Chrysene	ND		5.0	1.4	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Fluorene	ND		5.0	2.2	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/28/19 10:50	01/29/19 10:11	1
Pyrene	ND		5.0	1.7	ug/Kg		01/28/19 10:50	01/29/19 10:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*33 - 120*	*01/28/19 10:50*	*01/29/19 10:11*	*1*
Terphenyl-d14	*110*		*35 - 146*	*01/28/19 10:50*	*01/29/19 10:11*	*1*

Lab Sample ID: LCS 720-259327/2-A
Matrix: Solid
Analysis Batch: 259356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	492		ug/Kg		74	46 - 110
Acenaphthene	667	490		ug/Kg		73	46 - 106
Acenaphthylene	667	454		ug/Kg		68	46 - 108
Anthracene	667	526		ug/Kg		79	55 - 103
Benzo[a]anthracene	667	569		ug/Kg		85	54 - 110
Benzo[a]pyrene	667	591		ug/Kg		89	62 - 111
Benzo[b]fluoranthene	667	605		ug/Kg		91	60 - 109
Benzo[g,h,i]perylene	667	598		ug/Kg		90	52 - 114
Benzo[k]fluoranthene	667	578		ug/Kg		87	58 - 109
Chrysene	667	648		ug/Kg		97	54 - 108
Dibenz(a,h)anthracene	667	576		ug/Kg		86	58 - 112
Fluoranthene	667	590		ug/Kg		89	59 - 109
Fluorene	667	531		ug/Kg		80	52 - 106
Indeno[1,2,3-cd]pyrene	667	587		ug/Kg		88	55 - 120
Naphthalene	667	458		ug/Kg		69	49 - 110
Phenanthrene	667	512		ug/Kg		77	57 - 110
Pyrene	667	594		ug/Kg		89	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*33 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-259327/2-A
Matrix: Solid
Analysis Batch: 259356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259327

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	*108*		*35 - 146*

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 259356

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259327

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	9.7		639	464		ug/Kg		71	46 - 110
Acenaphthene	3.0	J	639	448		ug/Kg		70	46 - 106
Acenaphthylene	4.6	J	639	432		ug/Kg		67	46 - 108
Anthracene	12		639	521		ug/Kg		80	55 - 103
Benzo[a]anthracene	40		639	583		ug/Kg		85	54 - 110
Benzo[a]pyrene	54		639	619		ug/Kg		88	62 - 111
Benzo[b]fluoranthene	78		639	636		ug/Kg		87	60 - 109
Benzo[g,h,i]perylene	60		639	444		ug/Kg		60	52 - 114
Benzo[k]fluoranthene	25		639	587		ug/Kg		88	58 - 109
Chrysene	62		639	658		ug/Kg		93	54 - 108
Dibenz(a,h)anthracene	9.9		639	424		ug/Kg		65	58 - 112
Fluoranthene	65		639	623		ug/Kg		87	59 - 109
Fluorene	ND		639	494		ug/Kg		77	52 - 106
Indeno[1,2,3-cd]pyrene	34		639	440		ug/Kg		63	55 - 120
Naphthalene	10		639	402		ug/Kg		61	49 - 110
Phenanthrene	28		639	522		ug/Kg		77	57 - 110
Pyrene	69		639	669		ug/Kg		94	50 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*84*		*33 - 120*
Terphenyl-d14	*109*		*35 - 146*

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 259356

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259327

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	9.7		642	455		ug/Kg		69	46 - 110	2	35
Acenaphthene	3.0	J	642	447		ug/Kg		69	46 - 106	0	35
Acenaphthylene	4.6	J	642	439		ug/Kg		68	46 - 108	2	35
Anthracene	12		642	551		ug/Kg		84	55 - 103	6	35
Benzo[a]anthracene	40		642	624		ug/Kg		91	54 - 110	7	35
Benzo[a]pyrene	54		642	679		ug/Kg		97	62 - 111	9	35
Benzo[b]fluoranthene	78		642	747		ug/Kg		104	60 - 109	16	35
Benzo[g,h,i]perylene	60		642	443		ug/Kg		60	52 - 114	0	35
Benzo[k]fluoranthene	25		642	620		ug/Kg		93	58 - 109	5	35
Chrysene	62		642	723		ug/Kg		103	54 - 108	9	35
Dibenz(a,h)anthracene	9.9		642	404		ug/Kg		61	58 - 112	5	35
Fluoranthene	65		642	675		ug/Kg		95	59 - 109	8	35
Fluorene	ND		642	499		ug/Kg		78	52 - 106	1	35
Indeno[1,2,3-cd]pyrene	34		642	432		ug/Kg		62	55 - 120	2	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 259356

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259327

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	10		642	398		ug/Kg		60	49 - 110	1	35
Phenanthrene	28		642	552		ug/Kg		82	57 - 110	6	35
Pyrene	69		642	743		ug/Kg		105	50 - 120	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*33 - 120*
Terphenyl-d14	*119*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-259142/1-A
Matrix: Solid
Analysis Batch: 259373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/24/19 12:51	01/29/19 17:58	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/24/19 12:51	01/29/19 17:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*128*		*40 - 130*	*01/24/19 12:51*	*01/29/19 17:58*	*1*

Lab Sample ID: LCS 720-259142/2-A
Matrix: Solid
Analysis Batch: 259373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	173		mg/Kg		104	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*124*		*40 - 130*

Lab Sample ID: 720-90976-A-2-J MS
Matrix: Solid
Analysis Batch: 259373

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259142

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	5.2		165	166		mg/Kg		97	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*111*		*40 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90976-A-2-K MSD
Matrix: Solid
Analysis Batch: 259373

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259142

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	5.2		164	172		mg/Kg		102	50 - 150	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*113*		*40 - 130*

Lab Sample ID: MB 720-259333/1-A
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/29/19 12:17	01/30/19 12:15	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/29/19 12:17	01/30/19 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*01/29/19 12:17*	*01/30/19 12:15*	*1*

Lab Sample ID: LCS 720-259333/2-A
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	184		mg/Kg		110	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*127*		*40 - 130*

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 259448

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	36		161	158		mg/Kg		75	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*93*		*40 - 130*

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 259448

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	36		158	189		mg/Kg		97	50 - 150	18	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 259448

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259333

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*95*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-259123/1-A
Matrix: Solid
Analysis Batch: 259372

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Aldrin	ND		2.0	0.50	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Endrin	ND		2.0	0.46	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/24/19 10:00	01/29/19 16:20	1
Toxaphene	ND		40	6.8	ug/Kg		01/24/19 10:00	01/29/19 16:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*21 - 136*	*01/24/19 10:00*	*01/29/19 16:20*	*1*
Tetrachloro-m-xylene	*74*		*21 - 145*	*01/24/19 10:00*	*01/29/19 16:20*	*1*

Lab Sample ID: LCS 720-259123/2-A
Matrix: Solid
Analysis Batch: 259372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	15.6		ug/Kg		94	75 - 128
4,4'-DDE	16.7	13.9		ug/Kg		84	76 - 126
4,4'-DDT	16.7	15.1		ug/Kg		91	63 - 127
Aldrin	16.7	13.7		ug/Kg		82	65 - 120
alpha-BHC	16.7	12.6		ug/Kg		76	46 - 122

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-259123/2-A
Matrix: Solid
Analysis Batch: 259372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-Chlordane	16.7	13.9		ug/Kg		83	70 - 120
beta-BHC	16.7	15.1		ug/Kg		90	78 - 136
delta-BHC	16.7	12.3		ug/Kg		74	43 - 125
Dieldrin	16.7	14.1		ug/Kg		84	72 - 120
Endosulfan I	16.7	14.2		ug/Kg		85	62 - 120
Endosulfan II	16.7	15.3		ug/Kg		92	65 - 120
Endosulfan sulfate	16.7	15.4		ug/Kg		93	72 - 121
Endrin	16.7	15.3		ug/Kg		92	68 - 120
Endrin aldehyde	16.7	17.7		ug/Kg		106	68 - 120
Endrin ketone	16.7	15.8		ug/Kg		95	75 - 136
gamma-BHC (Lindane)	16.7	13.4		ug/Kg		80	72 - 120
gamma-Chlordane	16.7	13.8		ug/Kg		83	68 - 120
Heptachlor	16.7	13.1		ug/Kg		78	69 - 120
Heptachlor epoxide	16.7	13.7		ug/Kg		82	68 - 120
Methoxychlor	16.7	16.1		ug/Kg		97	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*21 - 136*
Tetrachloro-m-xylene	*80*		*21 - 145*

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 259452

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	34	F1 F2	16.5	55.2	F1	ug/Kg		128	40 - 120
4,4'-DDE	91	F2	16.5	110	4	ug/Kg		112	40 - 120
4,4'-DDT	26	F1 F2	16.5	42.4		ug/Kg		99	17 - 144
Aldrin	ND		16.5	14.4		ug/Kg		87	53 - 120
alpha-BHC	ND		16.5	13.8		ug/Kg		84	40 - 120
alpha-Chlordane	ND		16.5	16.2		ug/Kg		98	40 - 120
beta-BHC	ND		16.5	15.6		ug/Kg		95	40 - 120
delta-BHC	ND		16.5	12.0		ug/Kg		72	40 - 120
Dieldrin	ND		16.5	15.8		ug/Kg		96	46 - 130
Endosulfan I	ND		16.5	15.2		ug/Kg		92	40 - 120
Endosulfan II	ND		16.5	15.3		ug/Kg		93	40 - 120
Endosulfan sulfate	ND	F1	16.5	19.3		ug/Kg		117	40 - 120
Endrin	ND		16.5	16.9		ug/Kg		102	32 - 143
Endrin aldehyde	ND		16.5	16.4		ug/Kg		100	40 - 120
Endrin ketone	ND	F1	16.5	15.0	p	ug/Kg		91	40 - 120
gamma-BHC (Lindane)	ND		16.5	15.7		ug/Kg		95	58 - 120
gamma-Chlordane	ND	F1	16.5	19.3		ug/Kg		117	40 - 120
Heptachlor	ND		16.5	14.5		ug/Kg		88	52 - 120
Heptachlor epoxide	ND		16.5	15.0		ug/Kg		91	40 - 120
Methoxychlor	ND	F1	16.5	17.3		ug/Kg		105	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 259452

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*21 - 136*
Tetrachloro-m-xylene	*85*		*21 - 145*

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 259452

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	34	F1 F2	16.4	97.3	F1 F2	ug/Kg		384	40 - 120	55	20
4,4'-DDE	91	F2	16.4	197	4 F2	ug/Kg		644	40 - 120	57	20
4,4'-DDT	26	F1 F2	16.4	78.8	F1 F2	ug/Kg		321	17 - 144	60	20
Aldrin	ND		16.4	13.9		ug/Kg		84	53 - 120	4	20
alpha-BHC	ND		16.4	13.5		ug/Kg		82	40 - 120	2	20
alpha-Chlordane	ND		16.4	16.0		ug/Kg		98	40 - 120	1	20
beta-BHC	ND		16.4	14.5		ug/Kg		88	40 - 120	8	20
delta-BHC	ND		16.4	11.5		ug/Kg		70	40 - 120	4	20
Dieldrin	ND		16.4	15.0		ug/Kg		91	46 - 130	5	20
Endosulfan I	ND		16.4	15.0		ug/Kg		91	40 - 120	2	20
Endosulfan II	ND		16.4	15.0		ug/Kg		91	40 - 120	2	30
Endosulfan sulfate	ND	F1	16.4	17.0	p	ug/Kg		103	40 - 120	13	20
Endrin	ND		16.4	15.6	p	ug/Kg		95	32 - 143	8	20
Endrin aldehyde	ND		16.4	16.3		ug/Kg		99	40 - 120	1	20
Endrin ketone	ND	F1	16.4	14.0	p	ug/Kg		85	40 - 120	7	20
gamma-BHC (Lindane)	ND		16.4	17.1		ug/Kg		104	58 - 120	8	20
gamma-Chlordane	ND	F1	16.4	17.4		ug/Kg		106	40 - 120	11	20
Heptachlor	ND		16.4	14.6		ug/Kg		89	52 - 120	1	20
Heptachlor epoxide	ND		16.4	14.3		ug/Kg		87	40 - 120	5	20
Methoxychlor	ND	F1	16.4	15.8	p	ug/Kg		96	40 - 120	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*83*		*21 - 136*
Tetrachloro-m-xylene	*90*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-524461/1-A
Matrix: Solid
Analysis Batch: 524711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1221	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1232	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1242	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1248	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1254	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1
Aroclor 1260	ND		50	17	ug/Kg		01/23/19 14:51	01/24/19 16:24	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-524461/1-A
Matrix: Solid
Analysis Batch: 524711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524461

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	96		45 - 120	01/23/19 14:51	01/24/19 16:24	1

Lab Sample ID: LCS 440-524461/2-A
Matrix: Solid
Analysis Batch: 524711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524461

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	249		ug/Kg		93	65 - 115		
Aroclor 1260			267	252		ug/Kg		94	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	99		45 - 120

Lab Sample ID: 720-90948-E-7-G MS
Matrix: Solid
Analysis Batch: 524939

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		264	172		ug/Kg		65	50 - 120		
Aroclor 1260	ND		264	168		ug/Kg		64	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	71		45 - 120

Lab Sample ID: 720-90948-E-7-H MSD
Matrix: Solid
Analysis Batch: 524939

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	199		ug/Kg		75	50 - 120	14	30
Aroclor 1260	ND		266	154		ug/Kg		58	50 - 125	9	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	79		45 - 120

Lab Sample ID: MB 440-524723/1-A
Matrix: Solid
Analysis Batch: 524938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1260	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-524723/1-A
Matrix: Solid
Analysis Batch: 524938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524723

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	92		45 - 120	01/24/19 13:46	01/25/19 12:05	1

Lab Sample ID: LCS 440-524723/2-A
Matrix: Solid
Analysis Batch: 524938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524723

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	224		ug/Kg		84	65 - 115		
Aroclor 1260			267	231		ug/Kg		87	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	97		45 - 120

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 524938

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 524723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		263	197		ug/Kg		75	50 - 120		
Aroclor 1260	ND		263	217		ug/Kg		83	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	86		45 - 120

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 524938

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 524723

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		261	205		ug/Kg		78	50 - 120	4	30
Aroclor 1260	ND		261	244		ug/Kg		93	50 - 125	12	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	89		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259050/1-A
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Arsenic	ND		1.0	0.085	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Barium	0.154	J	0.50	0.071	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Beryllium	ND		0.10	0.033	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Cadmium	ND		0.13	0.012	mg/Kg		01/24/19 09:37	01/29/19 18:08	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259050/1-A
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.115	J	0.50	0.053	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Cobalt	ND		0.20	0.020	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Copper	ND		1.5	0.71	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Lead	0.298	J	0.50	0.11	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Nickel	ND		0.50	0.051	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Selenium	ND		1.0	0.15	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Silver	ND		0.25	0.051	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Thallium	ND		0.50	0.15	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Vanadium	ND		0.50	0.068	mg/Kg		01/24/19 09:37	01/29/19 18:08	1
Zinc	ND		1.5	0.64	mg/Kg		01/24/19 09:37	01/29/19 18:08	1

Lab Sample ID: LCS 720-259050/2-A
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.5		mg/Kg		97	80 - 120
Arsenic	50.0	48.5		mg/Kg		97	80 - 120
Barium	50.0	48.4		mg/Kg		97	80 - 120
Beryllium	50.0	48.4		mg/Kg		97	80 - 120
Cadmium	50.0	49.2		mg/Kg		98	80 - 120
Chromium	50.0	49.5		mg/Kg		99	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	50.0	49.7		mg/Kg		99	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Molybdenum	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	49.6		mg/Kg		99	80 - 120
Selenium	50.0	48.1		mg/Kg		96	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	49.3		mg/Kg		99	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: 720-90948-D-7-C MSD
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.2	F1 F2	45.0	11.1	F1 F2	mg/Kg		18	75 - 125	57	20
Arsenic	15	F1	45.0	59.0		mg/Kg		99	75 - 125	19	20
Barium	250	B F2	45.0	305	4 F2	mg/Kg		131	75 - 125	22	20
Beryllium	0.19	J	45.0	43.7		mg/Kg		97	75 - 125	2	20
Cadmium	0.80		45.0	44.0		mg/Kg		96	75 - 125	2	20
Chromium	18	B	45.0	60.5		mg/Kg		94	75 - 125	7	20
Cobalt	7.1		45.0	51.2		mg/Kg		98	75 - 125	1	20
Copper	160	F1	45.0	228	F1	mg/Kg		156	75 - 125	19	20
Lead	540	B	45.0	899	4	mg/Kg		798	75 - 125	17	20
Molybdenum	0.64	J	45.0	41.8		mg/Kg		91	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90948-D-7-C MSD
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	20		45.0	65.3		mg/Kg		101	75 - 125	6	20
Selenium	1.1	J	45.0	43.3		mg/Kg		94	75 - 125	2	20
Silver	1.1		22.5	23.4		mg/Kg		99	75 - 125	0	20
Thallium	ND		45.0	40.3		mg/Kg		89	75 - 125	4	20
Vanadium	60	F1	45.0	117	F1	mg/Kg		127	75 - 125	14	20
Zinc	400		45.0	481	4	mg/Kg		184	75 - 125	1	20

Lab Sample ID: 720-90948-E-7-E MS
Matrix: Solid
Analysis Batch: 259443

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.2	F1 F2	44.2	20.0	F1	mg/Kg		38	75 - 125
Arsenic	15	F1	44.2	71.1	F1	mg/Kg		128	75 - 125
Barium	250	B F2	44.2	245	4	mg/Kg		-2	75 - 125
Beryllium	0.19	J	44.2	43.1		mg/Kg		97	75 - 125
Cadmium	0.80		44.2	43.3		mg/Kg		96	75 - 125
Chromium	18	B	44.2	65.1		mg/Kg		106	75 - 125
Cobalt	7.1		44.2	52.0		mg/Kg		101	75 - 125
Copper	160	F1	44.2	275	F1	mg/Kg		264	75 - 125
Lead	540	B	44.2	755	4	mg/Kg		487	75 - 125
Molybdenum	0.64	J	44.2	41.4		mg/Kg		92	75 - 125
Nickel	20		44.2	69.2		mg/Kg		112	75 - 125
Selenium	1.1	J	44.2	42.5		mg/Kg		93	75 - 125
Silver	1.1		22.1	23.2		mg/Kg		100	75 - 125
Thallium	ND		44.2	38.6		mg/Kg		87	75 - 125
Vanadium	60	F1	44.2	101		mg/Kg		94	75 - 125
Zinc	400		44.2	486	4	mg/Kg		198	75 - 125

Lab Sample ID: MB 720-259069/1-A
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0830	J	0.50	0.083	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Arsenic	ND		1.0	0.085	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Barium	ND		0.50	0.071	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Beryllium	ND		0.10	0.033	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Cadmium	ND		0.13	0.012	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Chromium	0.0792	J	0.50	0.053	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Cobalt	0.0265	J	0.20	0.020	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Copper	ND		1.5	0.71	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Lead	ND		0.50	0.11	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Nickel	0.0975	J	0.50	0.051	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Selenium	0.248	J	1.0	0.15	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Silver	ND		0.25	0.051	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Thallium	ND		0.50	0.15	mg/Kg		01/24/19 09:37	01/30/19 17:26	1
Vanadium	ND		0.50	0.068	mg/Kg		01/24/19 09:37	01/30/19 17:26	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259069/1-A
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		1.5	0.64	mg/Kg		01/24/19 09:37	01/30/19 17:26	1

Lab Sample ID: LCS 720-259069/2-A
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	55.4		mg/Kg		111	80 - 120
Arsenic	50.0	56.6		mg/Kg		113	80 - 120
Barium	50.0	54.9		mg/Kg		110	80 - 120
Beryllium	50.0	56.0		mg/Kg		112	80 - 120
Cadmium	50.0	56.4		mg/Kg		113	80 - 120
Chromium	50.0	56.9		mg/Kg		114	80 - 120
Cobalt	50.0	58.5		mg/Kg		117	80 - 120
Copper	50.0	59.1		mg/Kg		118	80 - 120
Lead	50.0	57.1		mg/Kg		114	80 - 120
Molybdenum	50.0	58.7		mg/Kg		117	80 - 120
Nickel	50.0	57.0		mg/Kg		114	80 - 120
Selenium	50.0	54.2		mg/Kg		108	80 - 120
Silver	25.0	27.0		mg/Kg		108	80 - 120
Thallium	50.0	57.0		mg/Kg		114	80 - 120
Vanadium	50.0	56.3		mg/Kg		113	80 - 120
Zinc	50.0	56.2		mg/Kg		112	80 - 120

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 259534

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.9	F1 B	27.6	9.97	F1	mg/Kg		25	75 - 125
Arsenic	9.9		27.6	40.6		mg/Kg		111	75 - 125
Barium	83	F1 F2	27.6	192	F1	mg/Kg		394	75 - 125
Beryllium	ND		27.6	29.8		mg/Kg		108	75 - 125
Cadmium	1.1		27.6	32.7		mg/Kg		114	75 - 125
Chromium	30	B	27.6	64.1		mg/Kg		122	75 - 125
Cobalt	8.9	B	27.6	38.8		mg/Kg		108	75 - 125
Copper	120		27.6	180	4	mg/Kg		223	75 - 125
Lead	170	F2	27.6	274	4	mg/Kg		380	75 - 125
Molybdenum	1.1		27.6	31.2		mg/Kg		109	75 - 125
Nickel	30	B	27.6	63.7		mg/Kg		121	75 - 125
Selenium	ND		27.6	27.9		mg/Kg		101	75 - 125
Silver	0.41	J	13.8	14.6		mg/Kg		102	75 - 125
Thallium	0.38	J ^	27.6	30.5		mg/Kg		109	75 - 125
Vanadium	43	F1	27.6	82.5	F1	mg/Kg		143	75 - 125
Zinc	270	F2	27.6	366	4	mg/Kg		338	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90949-6 MSD — **Client Sample ID: DG-AL9S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259534 — **Prep Batch: 259069**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.9	F1 B	27.5	8.32	F1	mg/Kg		20	75 - 125	18	20
Arsenic	9.9		27.5	40.3		mg/Kg		111	75 - 125	1	20
Barium	83	F1 F2	27.5	123	F1 F2	mg/Kg		143	75 - 125	44	20
Beryllium	ND		27.5	30.8		mg/Kg		112	75 - 125	3	20
Cadmium	1.1		27.5	31.8		mg/Kg		112	75 - 125	3	20
Chromium	30	B	27.5	63.2		mg/Kg		119	75 - 125	1	20
Cobalt	8.9	B	27.5	39.5		mg/Kg		111	75 - 125	2	20
Copper	120		27.5	154	4	mg/Kg		128	75 - 125	16	20
Lead	170	F2	27.5	191	4 F2	mg/Kg		83	75 - 125	35	20
Molybdenum	1.1		27.5	31.2		mg/Kg		109	75 - 125	0	20
Nickel	30	B	27.5	61.4		mg/Kg		113	75 - 125	4	20
Selenium	ND		27.5	29.3		mg/Kg		107	75 - 125	5	20
Silver	0.41	J	13.7	14.8		mg/Kg		105	75 - 125	1	20
Thallium	0.38	J ^	27.5	30.4		mg/Kg		109	75 - 125	1	20
Vanadium	43	F1	27.5	72.2		mg/Kg		106	75 - 125	13	20
Zinc	270	F2	27.5	276	4 F2	mg/Kg		10	75 - 125	28	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259049/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259475 — **Prep Batch: 259049**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0120	J	0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 16:53	1

Lab Sample ID: LCS 720-259049/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259475 — **Prep Batch: 259049**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.815		mg/Kg		98	80 - 120

Lab Sample ID: 720-90948-D-7-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259475 — **Prep Batch: 259049**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.31	B	0.833	1.15		mg/Kg		101	75 - 125	5	20

Lab Sample ID: 720-90948-E-7-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259475 — **Prep Batch: 259049**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.31	B	0.820	1.09		mg/Kg		96	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 720-259074/1-A
Matrix: Solid
Analysis Batch: 259474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/29/19 12:33	01/29/19 15:47	1

Lab Sample ID: LCS 720-259074/2-A
Matrix: Solid
Analysis Batch: 259474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259074

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.797		mg/Kg		96	80 - 120		

Lab Sample ID: 720-90949-6 MS
Matrix: Solid
Analysis Batch: 259474

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.19		0.794	0.915		mg/Kg		91	75 - 125		

Lab Sample ID: 720-90949-6 MSD
Matrix: Solid
Analysis Batch: 259474

Client Sample ID: DG-AL9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259074

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19		0.806	1.02		mg/Kg		103	75 - 125	11	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90948-E-1 DU
Matrix: Solid
Analysis Batch: 259030

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16.0			15.3		%				4	20

Lab Sample ID: 720-90949-12 DU
Matrix: Solid
Analysis Batch: 259034

Client Sample ID: DUP-76
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.6			10.1		%				5	20

GC/MS VOA

Analysis Batch: 524853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-11	DUP-64	Total/NA	Solid	8260B	524903
720-90949-12	DUP-76	Total/NA	Solid	8260B	524903
MB 440-524853/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-524853/5	Lab Control Sample	Total/NA	Solid	8260B	
440-231481-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-231481-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 524854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-11	DUP-64	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-12	DUP-76	Total/NA	Solid	8260B/CA_LUFT MS	524903
MB 440-524854/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-524854/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-231481-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-231481-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 524855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	8260B	524903
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	8260B	524903
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	8260B	524903
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	8260B	524903
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	8260B	524903
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	8260B	524903
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	8260B	524903
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	8260B	524903
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	8260B	524903
MB 440-524855/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-524855/5	Lab Control Sample	Total/NA	Solid	8260B	
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	8260B	524903
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	8260B	524903

Analysis Batch: 524856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	8260B/CA_LUFT MS	524903

GC/MS VOA (Continued)

Analysis Batch: 524856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	524903
MB 440-524856/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-524856/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	524903
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	524903

Prep Batch: 524903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	5035	
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	5035	
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	5035	
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	5035	
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	5035	
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	5035	
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	5035	
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	5035	
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	5035	
720-90949-11	DUP-64	Total/NA	Solid	5035	
720-90949-12	DUP-76	Total/NA	Solid	5035	
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	5035	
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 525143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	8260B	525161
MB 440-525143/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-525143/16	Lab Control Sample	Total/NA	Solid	8260B	
720-90961-A-11-B MS	Matrix Spike	Total/NA	Solid	8260B	525161
720-90961-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	525161

Analysis Batch: 525144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	8260B/CA_LUFT MS	525161
MB 440-525144/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525144/17	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90961-A-11-B MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	525161

Prep Batch: 525161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 525161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-A-11-B MS	Matrix Spike	Total/NA	Solid	5035	
720-90961-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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Prep Batch: 259327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	3546	
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	3546	
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	3546	
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	3546	
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	3546	
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	3546	
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	3546	
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	3546	
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	3546	
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	3546	
720-90949-11	DUP-64	Total/NA	Solid	3546	
720-90949-12	DUP-76	Total/NA	Solid	3546	
MB 720-259327/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259327/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	3546	
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 259356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	8270C SIM	259327
MB 720-259327/1-A	Method Blank	Total/NA	Solid	8270C SIM	259327
LCS 720-259327/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259327
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	8270C SIM	259327
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	8270C SIM	259327

Analysis Batch: 259682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	8270C SIM	259327
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	8270C SIM	259327
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	8270C SIM	259327
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	8270C SIM	259327
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	8270C SIM	259327
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	8270C SIM	259327
720-90949-11	DUP-64	Total/NA	Solid	8270C SIM	259327

Analysis Batch: 259739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	8270C SIM	259327
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	8270C SIM	259327
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	8270C SIM	259327
720-90949-12	DUP-76	Total/NA	Solid	8270C SIM	259327

GC Semi VOA

Prep Batch: 259123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	3546	
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	3546	
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	3546	
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	3546	
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	3546	
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	3546	
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	3546	
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	3546	
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	3546	
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	3546	
720-90949-11	DUP-64	Total/NA	Solid	3546	
720-90949-12	DUP-76	Total/NA	Solid	3546	
MB 720-259123/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259123/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	3546	
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 259142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	3546	
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	3546	
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	3546	
MB 720-259142/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259142/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90976-A-2-J MS	Matrix Spike	Total/NA	Solid	3546	
720-90976-A-2-K MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 259333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	3546	
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	3546	
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	3546	
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	3546	
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	3546	
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	3546	
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	3546	
720-90949-11	DUP-64	Total/NA	Solid	3546	
720-90949-12	DUP-76	Total/NA	Solid	3546	
MB 720-259333/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259333/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	3546	
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 259372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259123/1-A	Method Blank	Total/NA	Solid	8081A	259123
LCS 720-259123/2-A	Lab Control Sample	Total/NA	Solid	8081A	259123

Analysis Batch: 259373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259142/1-A	Method Blank	Total/NA	Solid	8015B	259142

GC Semi VOA (Continued)

Analysis Batch: 259373 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-259142/2-A	Lab Control Sample	Total/NA	Solid	8015B	259142
720-90976-A-2-J MS	Matrix Spike	Total/NA	Solid	8015B	259142
720-90976-A-2-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	259142

Analysis Batch: 259447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	8015B	259142
MB 720-259333/1-A	Method Blank	Total/NA	Solid	8015B	259333
LCS 720-259333/2-A	Lab Control Sample	Total/NA	Solid	8015B	259333

Analysis Batch: 259448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	8015B	259333
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	8015B	259333
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	8015B	259333

Analysis Batch: 259452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	8081A	259123
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	8081A	259123
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	8081A	259123

Analysis Batch: 259527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	8015B	259142

Analysis Batch: 259607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	8081A	259123
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	8081A	259123
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	8081A	259123
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	8081A	259123
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	8081A	259123
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	8081A	259123
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	8081A	259123
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	8081A	259123

Analysis Batch: 259620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	8015B	259333
720-90949-12	DUP-76	Total/NA	Solid	8015B	259333

Analysis Batch: 259704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	8081A	259123
720-90949-11	DUP-64	Total/NA	Solid	8081A	259123
720-90949-12	DUP-76	Total/NA	Solid	8081A	259123

Analysis Batch: 259725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	8015B	259142

GC Semi VOA (Continued)

Analysis Batch: 259725 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	8015B	259333
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	8015B	259333
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	8015B	259333
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	8015B	259333
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	8015B	259333
720-90949-11	DUP-64	Total/NA	Solid	8015B	259333

Prep Batch: 524461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	3546	
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	3546	
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	3546	
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	3546	
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	3546	
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	3546	
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	3546	
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	3546	
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	3546	
720-90949-11	DUP-64	Total/NA	Solid	3546	
720-90949-12	DUP-76	Total/NA	Solid	3546	
MB 440-524461/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-524461/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90948-E-7-G MS	Matrix Spike	Total/NA	Solid	3546	
720-90948-E-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 524711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	8082	524461
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	8082	524461
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	8082	524461
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	8082	524461
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	8082	524461
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	8082	524461
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	8082	524461
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	8082	524461
720-90949-11	DUP-64	Total/NA	Solid	8082	524461
720-90949-12	DUP-76	Total/NA	Solid	8082	524461
MB 440-524461/1-A	Method Blank	Total/NA	Solid	8082	524461
LCS 440-524461/2-A	Lab Control Sample	Total/NA	Solid	8082	524461

Prep Batch: 524723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	3546	
MB 440-524723/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-524723/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	3546	
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 524938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	8082	524723

GC Semi VOA (Continued)

Analysis Batch: 524938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-524723/1-A	Method Blank	Total/NA	Solid	8082	524723
LCS 440-524723/2-A	Lab Control Sample	Total/NA	Solid	8082	524723
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	8082	524723
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	8082	524723

Analysis Batch: 524939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	8082	524461
720-90948-E-7-G MS	Matrix Spike	Total/NA	Solid	8082	524461
720-90948-E-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	524461

Metals

Prep Batch: 259049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	7471A	
MB 720-259049/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259049/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90948-D-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
720-90948-E-7-C MS	Matrix Spike	Total/NA	Solid	7471A	

Prep Batch: 259050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	3050B	
MB 720-259050/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259050/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90948-D-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
720-90948-E-7-E MS	Matrix Spike	Total/NA	Solid	3050B	

Prep Batch: 259069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	3050B	
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	3050B	
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	3050B	
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	3050B	
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	3050B	
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	3050B	
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	3050B	
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	3050B	
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	3050B	
720-90949-11	DUP-64	Total/NA	Solid	3050B	
720-90949-12	DUP-76	Total/NA	Solid	3050B	
MB 720-259069/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259069/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	3050B	
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	7471A	
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	7471A	
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	7471A	
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	7471A	
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	7471A	
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	7471A	
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	7471A	
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	7471A	
720-90949-11	DUP-64	Total/NA	Solid	7471A	
720-90949-12	DUP-76	Total/NA	Solid	7471A	
MB 720-259074/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259074/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	7471A	
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	7471A	

Analysis Batch: 259443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	6010B	259050
MB 720-259050/1-A	Method Blank	Total/NA	Solid	6010B	259050
LCS 720-259050/2-A	Lab Control Sample	Total/NA	Solid	6010B	259050
720-90948-D-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259050
720-90948-E-7-E MS	Matrix Spike	Total/NA	Solid	6010B	259050

Analysis Batch: 259474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	7471A	259074
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	7471A	259074
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	7471A	259074
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	7471A	259074
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	7471A	259074
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	7471A	259074
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	7471A	259074
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	7471A	259074
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	7471A	259074
720-90949-11	DUP-64	Total/NA	Solid	7471A	259074
720-90949-12	DUP-76	Total/NA	Solid	7471A	259074
MB 720-259074/1-A	Method Blank	Total/NA	Solid	7471A	259074
LCS 720-259074/2-A	Lab Control Sample	Total/NA	Solid	7471A	259074
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	7471A	259074
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	7471A	259074

Analysis Batch: 259475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	7471A	259049
MB 720-259049/1-A	Method Blank	Total/NA	Solid	7471A	259049
LCS 720-259049/2-A	Lab Control Sample	Total/NA	Solid	7471A	259049
720-90948-D-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259049
720-90948-E-7-C MS	Matrix Spike	Total/NA	Solid	7471A	259049

Metals (Continued)

Analysis Batch: 259534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	6010B	259069
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	6010B	259069
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	6010B	259069
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	6010B	259069
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	6010B	259069
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	6010B	259069
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	6010B	259069
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	6010B	259069
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	6010B	259069
720-90949-11	DUP-64	Total/NA	Solid	6010B	259069
720-90949-12	DUP-76	Total/NA	Solid	6010B	259069
MB 720-259069/1-A	Method Blank	Total/NA	Solid	6010B	259069
LCS 720-259069/2-A	Lab Control Sample	Total/NA	Solid	6010B	259069
720-90949-6 MS	DG-AL9S-0.5-1	Total/NA	Solid	6010B	259069
720-90949-6 MSD	DG-AL9S-0.5-1	Total/NA	Solid	6010B	259069

Analysis Batch: 259566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	6010B	259050

Analysis Batch: 259656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	6010B	259069

General Chemistry

Analysis Batch: 259030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-1	DG-AP9S-0.5-1	Total/NA	Solid	Moisture	
720-90949-2	DG-AP9S-3.5-4	Total/NA	Solid	Moisture	
720-90949-3	DG-AN9S-0.5-1	Total/NA	Solid	Moisture	
720-90949-4	DG-AN9S-3.5-4	Total/NA	Solid	Moisture	
720-90949-5	DG-AN9S-7-7.5	Total/NA	Solid	Moisture	
720-90949-6	DG-AL9S-0.5-1	Total/NA	Solid	Moisture	
720-90949-7	DG-AL9S-3.5-4	Total/NA	Solid	Moisture	
720-90949-8	DG-AL9S-7-7.5	Total/NA	Solid	Moisture	
720-90949-9	DG-Y11S-0.5-1	Total/NA	Solid	Moisture	
720-90949-10	DG-Y11S-3.5-4	Total/NA	Solid	Moisture	
720-90949-11	DUP-64	Total/NA	Solid	Moisture	
720-90948-E-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 259034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90949-12	DUP-76	Total/NA	Solid	Moisture	
720-90949-12 DU	DUP-76	Total/NA	Solid	Moisture	

Client Sample ID: DG-AP9S-0.5-1

Lab Sample ID: 720-90949-1

Date Collected: 01/21/19 08:40

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 16:28	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 16:28	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	259682	02/01/19 22:38	LPL	TAL PLS
Total/NA	Prep	3546			259142	01/24/19 12:51	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259447	01/30/19 18:14	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 10:06	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 19:18	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:09	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AP9S-3.5-4

Lab Sample ID: 720-90949-2

Date Collected: 01/21/19 08:40

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 16:54	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 16:54	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	259682	02/01/19 23:01	LPL	TAL PLS
Total/NA	Prep	3546			259142	01/24/19 12:51	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259527	01/31/19 17:14	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 10:22	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 19:33	D1D	TAL IRV
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		20	259566	01/31/19 12:12	OBI	TAL PLS
Total/NA	Prep	3050B			259050	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259443	01/29/19 20:07	OBI	TAL PLS
Total/NA	Prep	7471A			259049	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259475	01/29/19 17:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AN9S-0.5-1

Lab Sample ID: 720-90949-3

Date Collected: 01/21/19 09:50

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 17:20	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 17:20	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	259682	02/01/19 23:25	LPL	TAL PLS
Total/NA	Prep	3546			259142	01/24/19 12:51	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259725	02/04/19 15:51	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 10:39	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 19:47	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:23	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AN9S-3.5-4

Lab Sample ID: 720-90949-4

Date Collected: 01/21/19 09:50

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 17:47	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 17:47	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	259682	02/01/19 23:49	LPL	TAL PLS
Total/NA	Prep	3546			259333	01/29/19 12:17	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259725	02/04/19 16:50	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 10:55	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 20:02	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:28	OBI	TAL PLS
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		10	259656	02/01/19 11:12	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AN9S-7-7.5

Lab Sample ID: 720-90949-5

Date Collected: 01/21/19 09:50

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 17:10	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 17:10	GK	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	259682	02/02/19 00:12	LPL	TAL PLS
Total/NA	Prep	3546			259333	01/29/19 12:17	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259725	02/04/19 17:19	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 11:11	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 20:16	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:32	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AL9S-0.5-1

Lab Sample ID: 720-90949-6

Date Collected: 01/21/19 10:10

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 10:16	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 10:16	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	259356	01/29/19 10:58	LPL	TAL PLS
Total/NA	Prep	3546			259333	01/29/19 12:17	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259448	01/30/19 19:12	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259452	01/30/19 17:10	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	524938	01/25/19 12:59	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 17:55	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 15:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90949-1

Client Sample ID: DG-AL9S-3.5-4

Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 11:36	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 11:36	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	259739	02/04/19 11:04	LPL	TAL PLS
Total/NA	Prep	3546			259333	01/29/19 12:17	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259725	02/04/19 16:21	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 11:27	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524939	01/25/19 14:18	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:37	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-AL9S-7-7.5

Date Collected: 01/21/19 10:10
Date Received: 01/21/19 17:50

Lab Sample ID: 720-90949-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 12:03	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 12:03	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	259682	02/02/19 00:59	LPL	TAL PLS
Total/NA	Prep	3546			259333	01/29/19 12:17	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259725	02/04/19 17:49	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 13:28	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 21:00	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:42	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-Y11S-0.5-1

Lab Sample ID: 720-90949-9

Date Collected: 01/21/19 11:20

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 12:29	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 12:29	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		20	259739	02/04/19 11:27	LPL	TAL PLS
Total/NA	Prep	3546			259333	01/29/19 12:17	KLM	TAL PLS
Total/NA	Analysis	8015B		50	259620	02/01/19 18:18	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		10	259607	02/01/19 13:44	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 21:14	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:47	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DG-Y11S-3.5-4

Lab Sample ID: 720-90949-10

Date Collected: 01/21/19 11:20

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524855	01/25/19 12:56	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524856	01/25/19 12:56	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		2	259739	02/04/19 11:51	LPL	TAL PLS
Total/NA	Prep	3546			259333	01/29/19 12:17	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259725	02/04/19 15:22	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259704	02/02/19 19:20	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 21:29	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:51	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DUP-64

Lab Sample ID: 720-90949-11

Date Collected: 01/21/19 00:00

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524853	01/25/19 11:42	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524854	01/25/19 11:42	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	259682	02/02/19 02:10	LPL	TAL PLS
Total/NA	Prep	3546			259333	01/29/19 12:17	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259725	02/04/19 18:18	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259704	02/02/19 19:04	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 21:43	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 18:56	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259030	01/23/19 10:10	TNL	TAL PLS

Client Sample ID: DUP-76

Lab Sample ID: 720-90949-12

Date Collected: 01/21/19 00:00

Matrix: Solid

Date Received: 01/21/19 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	524853	01/25/19 12:10	AYL	TAL IRV
Total/NA	Prep	5035			524903	01/21/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	524854	01/25/19 12:10	AYL	TAL IRV
Total/NA	Prep	3546			259327	01/28/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		2	259739	02/04/19 12:15	LPL	TAL PLS
Total/NA	Prep	3546			259333	01/29/19 12:17	KLM	TAL PLS
Total/NA	Analysis	8015B		2	259620	02/01/19 12:37	JXL	TAL PLS
Total/NA	Prep	3546			259123	01/24/19 10:00	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259704	02/02/19 19:36	MQL	TAL PLS
Total/NA	Prep	3546			524461	01/23/19 14:51	EGC	TAL IRV
Total/NA	Analysis	8082		1	524711	01/24/19 21:57	D1D	TAL IRV
Total/NA	Prep	3050B			259069	01/24/19 09:37	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259534	01/30/19 19:01	OBI	TAL PLS
Total/NA	Prep	7471A			259074	01/29/19 12:33	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259474	01/29/19 16:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259034	01/23/19 10:35	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90949-1

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90949-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3546	Solid	Chlordane (n.o.s.)
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90949-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90949-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90949-1	DG-AP9S-0.5-1	Solid	01/21/19 08:40	01/21/19 17:50
720-90949-2	DG-AP9S-3.5-4	Solid	01/21/19 08:40	01/21/19 17:50
720-90949-3	DG-AN9S-0.5-1	Solid	01/21/19 09:50	01/21/19 17:50
720-90949-4	DG-AN9S-3.5-4	Solid	01/21/19 09:50	01/21/19 17:50
720-90949-5	DG-AN9S-7-7.5	Solid	01/21/19 09:50	01/21/19 17:50
720-90949-6	DG-AL9S-0.5-1	Solid	01/21/19 10:10	01/21/19 17:50
720-90949-7	DG-AL9S-3.5-4	Solid	01/21/19 10:10	01/21/19 17:50
720-90949-8	DG-AL9S-7-7.5	Solid	01/21/19 10:10	01/21/19 17:50
720-90949-9	DG-Y11S-0.5-1	Solid	01/21/19 11:20	01/21/19 17:50
720-90949-10	DG-Y11S-3.5-4	Solid	01/21/19 11:20	01/21/19 17:50
720-90949-11	DUP-64	Solid	01/21/19 00:00	01/21/19 17:50
720-90949-12	DUP-76	Solid	01/21/19 00:00	01/21/19 17:50

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A191388
Received: 01/23/2019
Reported: 2/01/2019
Analyst: Candace Burrus

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DS-AP9S-0.5-1 (720-90949-1)	A20146	No	None Detected	0.00
DS-AP9S-3.5-4 (720-90949-2)	A20147	No	None Detected	0.00
DS-AN9S-0.5-1 (720-90949-3)	A20148	No	None Detected	0.00
DS-AN9S-3.5-4 (720-90949-4)	A20149	No	None Detected	0.00
DS-AN9S-7-7.5 (720-90949-5)	A20150	No	None Detected	0.00
DS-AL9S-0.5-1 (720-90949-6)	A20151	No	None Detected	0.00
DS-AL9S-3.5-4 (720-90949-7)	A20152	No	None Detected	0.00
DS-AL9S-7-7.5 (720-90949-8)	A20153	No	None Detected	0.00
DS-Y11S-0.5-1 (720-90949-9)	A20154	No	None Detected	0.00
DS-Y11S-3.5-4 (720-90949-10)	A20155	No	None Detected	0.00
DUP-64 (720-90949-11)	A20156	No	None Detected	0.00
DUP-76 (720-90949-12)	A20157	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

eurofins | CEI

REVIEWED BY: _____

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

A191388 (12) A20146-A20157

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40912.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/4/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DS-AP9S-0.5-1 (720-90949-1)	1/21/19	08:40 Pacific		Solid			X	1	
DS-AP9S-3.5-4 (720-90949-2)	1/21/19	08:40 Pacific		Solid			X	1	
DS-AN9S-0.5-1 (720-90949-3)	1/21/19	09:50 Pacific		Solid			X	1	
DS-AN9S-3.5-4 (720-90949-4)	1/21/19	09:50 Pacific		Solid			X	1	
DS-AN9S-7-7.5 (720-90949-5)	1/21/19	09:05 Pacific		Solid			X	1	
DS-AL9S-0.5-1 (720-90949-6)	1/21/19	10:10 Pacific		Solid			X	1	EUROFINS CEI, INC
DS-AL9S-3.5-4 (720-90949-7)	1/21/19	10:10 Pacific		Solid			X	1	SAMPLES ACCEPTED
DS-AL9S-7-7.5 (720-90949-8)	1/21/19	10:10 Pacific		Solid			X	1	
DS-Y11S-0.5-1 (720-90949-9)	1/21/19	11:20 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/22/19 1304	Company TAL-S	Received by:	Date/Time: 1/23 9:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

A191388

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40912.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/4/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DS-Y11S-3.5-4 (720-90949-10)	1/21/19	11:20 Pacific		Solid			X	1	
DUP-64 (720-90949-11)	1/21/19	Pacific		Solid			X	1	
DUP-76 (720-90949-12)	1/21/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/22/19 1304	Company TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90949

Chain of Custody Record

188021

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 21 JAN 2019 (2018)	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	____ of ____ COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90949 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-AP9S-0.5-1	1/21/2019	0940	G	S	7	N	N	X	X	X	X	X	X	X	Chromium and PCBs
2	DG-AP9S-3.5-4	1/21/2019	0940			7		N								Short hold
3	DG-AN9S-0.5-1		0950			7		N								
4	DG-AN9S-3.5-4		0950			7		N								
5	DG-AN9S-7-7.5		0950			7		N								
6	DG-AL9S-0.5-1		1010			7 (10)		Y								
7	DG-AL9S-3.5-4		1010			7		N								
8	DG-AL9S-7-7.5		1010			7		N								
9	DG-Y11S-0.5-1		1120			7 (10)		N								
10	DG-Y11S-3.5-4		1120			7		N								
11	DUP-64		—			7		N								
12	DUP-76	↓	—	↓	↓	7	↓	N	↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
0.3°C, 2.5°C 0.8°C 1.7°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No ____			
Relinquished by	Company Geosyntec	Date/Time 1/21/2019 1600	Received by	Company TA-PLS	Date/Time 1/21/19 16:00
Relinquished by	Company TA-PLS	Date/Time 1-21-19 1713	Received by	Company	Date/Time
Relinquished by:	Company.	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/21/19 1750

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/14/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40913.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B_LL/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
DS-AP9S-0.5-1 (720-90949-1)	1/21/19	08:40 Pacific		Solid	X	X	3	
DS-AP9S-3.5-4 (720-90949-2)	1/21/19	08:40 Pacific		Solid	X	X		
DS-AN9S-0.5-1 (720-90949-3)	1/21/19	09:50 Pacific		Solid	X	X		
DS-AN9S-3.5-4 (720-90949-4)	1/21/19	09:50 Pacific		Solid	X	X		
DS-AN9S-7-7.5 (720-90949-5)	1/21/19	09:05 Pacific		Solid	X	X		
DS-AL9S-0.5-1 (720-90949-6)	1/21/19	10:10 Pacific		Solid	X	X	2	
DS-AL9S-0.5-1 (720-90949-6MS)	1/21/19	10:10 Pacific	MS	Solid	X	X	2	
DS-AL9S-0.5-1 (720-90949-6MSD)	1/21/19	10:10 Pacific	MSD	Solid	X	X	2	
DS-AL9S-3.5-4 (720-90949-7)	1/21/19	10:10 Pacific		Solid	X	X	3	

720-90949 Chain of Custody

1/21/19

Samples Transferred From: Frozen Time: 1630 Initials: USA
Samples Received: Time: 1630 Initials:

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX 3/0
Relinquished by:	Date/Time: 1/21/19 4:40 PM	Company: TA-PLS	Received by:	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/22/19 1130	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 4978 4974 2807 | Cooler Temperature(s) °C and Other Remarks: 2.1 | 1.5 | 1.0

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40913.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Special Instructions/Note:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_PW_7 8260B(MOD) VOCs + GRO	8260SCA_LUFTMS/5035A_F_PW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers
DS-AL9S-7-7.5 (720-90949-8)	1/21/19	10:10 Pacific		Solid	X	X	
DS-Y11S-0.5-1 (720-90949-9)	1/21/19	11:20 Pacific		Solid	X	X	
DS-Y11S-3.5-4 (720-90949-10)	1/21/19	11:20 Pacific		Solid	X	X	
DUP-64 (720-90949-11)	1/21/19	Pacific		Solid	X	X	
DUP-76 (720-90949-12)	1/21/19	Pacific		Solid	X	X	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment: FED-EX 1/0	
Relinquished by:	Date/Time: 1/21/19 4:40PM	Company TAPLS	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90949

Chain of Custody Record

188021

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 21 JAN 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	of COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90949 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
1	DG-AP9s-0.5-1	1/21/2019	0840	G	S	7	N	N	X	X	X	X	X	X	X	Chromium and PCBs
2	DG-AP9s-3.5-4	1/21/2019	0840			7		N								Short hold
3	DG-AN9s-0.5-1		0950			7		N								
4	DG-AN9s-3.5-4		0950			7		N								
5	DG-AN9s-7-7.5		0950			7		N								
6	DG-AL9s-0.5-1		1010			7		Y								
7	DG-AL9s-3.5-4		1010			7		N								
8	DG-AL9s-7-7.5		1010			7		N								
9	DG-Y11s-0.5-1		1120			7		N								
10	DG-Y11s-3.5-4		1120			7		N								
11	DUP-64		—			7		N								
12	DUP-76		—			7		N								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

0.3°C, 2.3°C 0.8°C 1.7°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No.:		
Relinquished by:	Company: Geosyntec	Date/Time: 1/21/2019 1600	Received by:	Company: TA-PLS	Date/Time: 1/21/19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 1/21/19 1758	Received by:	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/21/19 17:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No 720-40913.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 17461 Derian Ave, Suite 100.	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7-8260-(MOD)-VOCs+ GRO	8260B/CA_LUFTMS/5035A_F_FW_7-8260-C4-C12 volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DS-AP9S-0.5-1 (720-90949-1)	1/21/19	08:40 Pacific		Solid			X	X	X	5	1
DS-AP9S-3.5-4 (720-90949-2)	1/21/19	08:40 Pacific		Solid			X	X	X	5	
DS-AN9S-0.5-1 (720-90949-3)	1/21/19	09:50 Pacific		Solid			X	X	X	5	
DS-AN9S-3.5-4 (720-90949-4)	1/21/19	09:50 Pacific		Solid			X	X	X	5	
DS-AN9S-7-7 5 (720-90949-5)	1/21/19	09:05 Pacific		Solid			X	X	X	5	
DS-AL9S-0.5-1 (720-90949-6)	1/21/19	10.10 Pacific		Solid			X	X	X	4	
DS-AL9S-0.5-1 (720-90949-6MS)	1/21/19	10:10 Pacific	MS	Solid			X	X	X	4	
DS-AL9S-0.5-1 (720-90949-6MSD)	1/21/19	10:10 Pacific	MSD	Solid			X	X	X	3	
DS-AL9S-3.5-4 (720-90949-7)	1/21/19	10:10 Pacific		Solid			X	X	X	5	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
		1/22/19 1304	TAPL			
	Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by	Date/Time: 1/23/19 1000	Company TA PLV

Custody Seals Intact. Δ Yes Δ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks: 2.9/1.4

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No. 720-40913.2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LV/5035A_F_FW_7 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DS-AL9S-7-7.5 (720-90949-8)	1/21/19	10:10 Pacific		Solid			X	X	X	3	(1)
DS-Y11S-0.5-1 (720-90949-9)	1/21/19	11:20 Pacific		Solid			X	X	X	3	
DS-Y11S-3.5-4 (720-90949-10)	1/21/19	11:20 Pacific		Solid			X	X	X	3	
DUP-64 (720-90949-11)	1/21/19	Pacific		Solid			X	X	X	3	
DUP-76 (720-90949-12)	1/21/19	Pacific		Solid			X	X	X	3	1/21/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/22/19 1304	Company: TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/23/19 1000	Company: TA IPV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1866 2.9/1.4

Ver: 09/20/2016

2/14/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90949-1

Login Number: 90949
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90949-1

Login Number: 90949
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/22/19 04:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90959-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/18/2019 8:23:57 AM
Laura Turpen, Project Manager I
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Designee for

Urvashi Patel, Manager of Project Management
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LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90959-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90959-1

Comments
No additional comments.

Receipt
The samples were received on 1/22/2019 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 1.8º C, 2.2º C and 3.8º C.

Receipt Exceptions
The following sample was listed on the Chain of Custody (COC); however, no sample container was received: TB-0122S. (720-90959-7). This sample was later noted as having been received with login 720-90961, and at client direction was logged in as 720-90959-7.

GC/MS VOA
Method 8260B/CA_LUFTMS: The method blank for analytical batch 440-525180 contained Gasoline Range Organics (GRO) C4-C12 above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260B: The matrix spike and matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 440-525179 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-526188 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples required a dilution due to the nature of the sample matrix: DG-AE11W (720-90959-2), DG-AG11W (720-90959-3) and DG-Y11W (720-90959-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information. Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-524927 and analytical batch 440-525323. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-524927/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-525296 and analytical batch 440-525278. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-525296/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 3005A: The reference method requires samples to be preserved to a pH of 2. The following samples were received with insufficient preservation at a pH of 7: DG-AG11W (720-90959-3) and DG-Y11W (720-90959-4). The samples were preserved to the appropriate pH in the laboratory.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target elements passed recoveries.

Method 6010B: The method blank for preparation batch 720-259288 and analytical batch 720-259445 contained Barium above the method

Job ID: 720-90959-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB (ICSA 720-259497/7) and (ICSAB 720-259497/8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Due to the matrix, the following sample could not be concentrated to the final 8015B_DRO method required volume:DG-AE11W (720-90959-2). The reporting limits (RLs) are elevated proportionately.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8015B_DRO preparation batch 440-525296. LCS was performed in duplicate to provide precision of data.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C SIM preparation batch 440-524927. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Client Sample ID: DG-AL9W — Lab Sample ID: 720-90959-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.90		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	130	J	530	110	ug/L	1		8015B	Total/NA
Arsenic	9.7	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	140	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.0	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.7	J	2.0	0.68	ug/L	1		6010B	Dissolved
Nickel	2.0	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	13		10	3.5	ug/L	1		6010B	Dissolved
Zinc	21		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AE11W — Lab Sample ID: 720-90959-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	190		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Acetone	12	J	20	10	ug/L	1		8260B	Total/NA
Benzene	0.78		0.50	0.25	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.48	J	1.0	0.40	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.28	J	0.50	0.25	ug/L	1		8260B	Total/NA
Ethylbenzene	0.27	J	0.50	0.25	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.98		0.50	0.25	ug/L	1		8260B	Total/NA
4-Isopropyltoluene	0.29	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	2.2		1.0	0.40	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.2		0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	0.35	J	0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.25	J	0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	0.59	J	1.0	0.50	ug/L	1		8260B	Total/NA
Naphthalene	4.3		2.1	1.0	ug/L	10		8270C SIM	Total/NA
Acenaphthene	3.0		2.1	1.0	ug/L	10		8270C SIM	Total/NA
Fluorene	5.5		2.1	1.0	ug/L	10		8270C SIM	Total/NA
Phenanthrene	10		2.1	1.0	ug/L	10		8270C SIM	Total/NA
Anthracene	2.2		2.1	1.0	ug/L	10		8270C SIM	Total/NA
Chrysene	1.5	J	2.1	1.0	ug/L	10		8270C SIM	Total/NA
Fluoranthene	1.0	J	2.1	1.0	ug/L	10		8270C SIM	Total/NA
Pyrene	4.2		2.1	1.0	ug/L	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	11000		1000	210	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1700		1000	210	ug/L	1		8015B	Total/NA
Arsenic	27		10	2.9	ug/L	1		6010B	Dissolved
Barium	1200	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.77	J	10	0.70	ug/L	1		6010B	Dissolved
Molybdenum	5.3	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	7.6	J	10	1.0	ug/L	1		6010B	Dissolved
Thallium	6.0	J	10	3.5	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AG11W — Lab Sample ID: 720-90959-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	390		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	1.5		0.50	0.25	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.50	J	1.0	0.40	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Client Sample ID: DG-AG11W (Continued) — Lab Sample ID: 720-90959-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	0.49	J	0.50	0.25	ug/L	1		8260B	Total/NA
Isopropylbenzene	1.4		0.50	0.25	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.3		0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	0.39	J	0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.29	J	0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	0.69	J	1.0	0.50	ug/L	1		8260B	Total/NA
Acenaphthene	2.3	J	4.2	2.1	ug/L	20		8270C SIM	Total/NA
Fluorene	5.6		4.2	2.1	ug/L	20		8270C SIM	Total/NA
Phenanthrene	10		4.2	2.1	ug/L	20		8270C SIM	Total/NA
Fluoranthene	2.7	J	4.2	2.1	ug/L	20		8270C SIM	Total/NA
Pyrene	5.2		4.2	2.1	ug/L	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	7400		540	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1300		540	110	ug/L	1		8015B	Total/NA
Arsenic	28		10	2.9	ug/L	1		6010B	Dissolved
Barium	1900	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.1	J	10	0.70	ug/L	1		6010B	Dissolved
Nickel	1.8	J	10	1.0	ug/L	1		6010B	Dissolved

Client Sample ID: DG-Y11W — Lab Sample ID: 720-90959-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	1200		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	0.49	J	0.50	0.25	ug/L	1		8260B	Total/NA
Acenaphthene	3.2		2.0	1.0	ug/L	10		8270C SIM	Total/NA
Fluorene	3.1		2.0	1.0	ug/L	10		8270C SIM	Total/NA
Phenanthrene	4.7		2.0	1.0	ug/L	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	6900		510	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	530		510	100	ug/L	1		8015B	Total/NA
Arsenic	4.1	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	910	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	2.3	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	4.5		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.8	J	20	3.7	ug/L	1		6010B	Dissolved
Nickel	100		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.2	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	57		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: FB-01.22.19 — Lab Sample ID: 720-90959-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	45		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: TB-01.22.19 — Lab Sample ID: 720-90959-6

No Detections.

Client Sample ID: TB-01.22.19-S — Lab Sample ID: 720-90959-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL9W

Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-1

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/31/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*01/31/19 20:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/31/19 20:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/31/19 20:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.90**		0.50	0.25	ug/L			01/31/19 20:41	1
Acetone	ND	F1	20	10	ug/L			01/31/19 20:41	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 20:41	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 20:41	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 20:41	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 20:41	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 20:41	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 20:41	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 20:41	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 20:41	1

Client Sample ID: DG-AL9W
Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/31/19 20:41	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 20:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/31/19 20:41	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 20:41	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 20:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 20:41	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 20:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 20:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 20:41	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 20:41	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 20:41	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*01/31/19 20:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*01/31/19 20:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Acenaphthene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Fluorene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Phenanthrene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Anthracene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Chrysene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Fluoranthene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Pyrene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/25/19 10:03	01/28/19 16:08	1

Client Sample ID: DG-AL9W

Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*	*01/25/19 10:03*	*01/28/19 16:08*	*1*
Nitrobenzene-d5	*99*		*10 - 120*	*01/25/19 10:03*	*01/28/19 16:08*	*1*
Terphenyl-d14	*80*		*21 - 120*	*01/25/19 10:03*	*01/28/19 16:08*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**	**J**	530	110	ug/L		01/28/19 09:49	01/29/19 00:46	1
Motor Oil Range Organics [C24-C36]	ND		530	110	ug/L		01/28/19 09:49	01/29/19 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*74*		*45 - 120*	*01/28/19 09:49*	*01/29/19 00:46*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 17:24	1
Arsenic	**9.7**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 17:24	1
Barium	**140**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 17:24	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 17:24	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 17:24	1
Chromium	**1.0**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 17:24	1
Cobalt	**1.7**	**J**	2.0	0.68	ug/L		01/26/19 10:40	01/29/19 17:24	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 17:24	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 17:24	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 17:24	1
Nickel	**2.0**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 17:24	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 17:24	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 17:24	1
Thallium	**13**		10	3.5	ug/L		01/26/19 10:40	01/29/19 17:24	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 17:24	1
Zinc	**21**		20	7.4	ug/L		01/26/19 10:40	01/29/19 17:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 15:39	01/29/19 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/22/19 20:40	1

Client Sample ID: DG-AE11W

Date Collected: 01/22/19 13:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-2

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**190**		50	35	ug/L			01/31/19 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*01/31/19 21:57*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*01/31/19 21:57*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/31/19 21:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Acetone	**12**	**J**	20	10	ug/L			01/31/19 21:57	1
Benzene	**0.78**		0.50	0.25	ug/L			01/31/19 21:57	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 21:57	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 21:57	1
n-Butylbenzene	**0.48**	**J**	1.0	0.40	ug/L			01/31/19 21:57	1
sec-Butylbenzene	**0.28**	**J**	0.50	0.25	ug/L			01/31/19 21:57	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 21:57	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 21:57	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 21:57	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 21:57	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Ethylbenzene	**0.27**	**J**	0.50	0.25	ug/L			01/31/19 21:57	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 21:57	1

Client Sample ID: DG-AE11W

Date Collected: 01/22/19 13:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/31/19 21:57	1
Isopropylbenzene	**0.98**		0.50	0.25	ug/L			01/31/19 21:57	1
4-Isopropyltoluene	**0.29**	**J**	0.50	0.25	ug/L			01/31/19 21:57	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 21:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/31/19 21:57	1
Naphthalene	**2.2**		1.0	0.40	ug/L			01/31/19 21:57	1
N-Propylbenzene	**1.2**		0.50	0.25	ug/L			01/31/19 21:57	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Toluene	**0.35**	**J**	0.50	0.25	ug/L			01/31/19 21:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 21:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 21:57	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 21:57	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 21:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 21:57	1
1,2,4-Trimethylbenzene	**0.25**	**J**	0.50	0.25	ug/L			01/31/19 21:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 21:57	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 21:57	1
Xylenes, Total	**0.59**	**J**	1.0	0.50	ug/L			01/31/19 21:57	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*01/31/19 21:57*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/31/19 21:57*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**4.3**		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Acenaphthene	**3.0**		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Acenaphthylene	ND		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Fluorene	**5.5**		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Phenanthrene	**10**		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Anthracene	**2.2**		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Benzo[a]anthracene	ND		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Chrysene	**1.5**	**J**	2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Benzo[a]pyrene	ND		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Benzo[b]fluoranthene	ND		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Benzo[k]fluoranthene	ND		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Benzo[g,h,i]perylene	ND		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Indeno[1,2,3-cd]pyrene	ND		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Fluoranthene	**1.0**	**J**	2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Pyrene	**4.2**		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10
Dibenz(a,h)anthracene	ND		2.1	1.0	ug/L		01/25/19 10:03	01/28/19 16:32	10

Client Sample ID: DG-AE11W

Date Collected: 01/22/19 13:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*46*		*38 - 120*	*01/25/19 10:03*	*01/28/19 16:32*	*10*
Nitrobenzene-d5	*154*	*X*	*10 - 120*	*01/25/19 10:03*	*01/28/19 16:32*	*10*
Terphenyl-d14	*82*		*21 - 120*	*01/25/19 10:03*	*01/28/19 16:32*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11000**		1000	210	ug/L		01/28/19 09:49	01/28/19 20:49	1
Motor Oil Range Organics [C24-C36]	**1700**		1000	210	ug/L		01/28/19 09:49	01/28/19 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*83*		*45 - 120*	*01/28/19 09:49*	*01/28/19 20:49*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 17:29	1
Arsenic	**27**		10	2.9	ug/L		01/26/19 10:40	01/29/19 17:29	1
Barium	**1200**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 17:29	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 17:29	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 17:29	1
Chromium	**0.77**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 17:29	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 17:29	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 17:29	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 17:29	1
Molybdenum	**5.3**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 17:29	1
Nickel	**7.6**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 17:29	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 17:29	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 17:29	1
Thallium	**6.0**	**J**	10	3.5	ug/L		01/26/19 10:40	01/29/19 17:29	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 17:29	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 17:29	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 15:39	01/29/19 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/22/19 20:40	1

Client Sample ID: DG-AG11W

Date Collected: 01/22/19 14:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-3

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**390**		50	35	ug/L			01/31/19 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*01/31/19 22:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/19 22:23*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 22:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Acetone	ND		20	10	ug/L			01/31/19 22:23	1
Benzene	**1.5**		0.50	0.25	ug/L			01/31/19 22:23	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 22:23	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 22:23	1
n-Butylbenzene	**0.50**	**J**	1.0	0.40	ug/L			01/31/19 22:23	1
sec-Butylbenzene	**0.49**	**J**	0.50	0.25	ug/L			01/31/19 22:23	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 22:23	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 22:23	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 22:23	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 22:23	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 22:23	1

Client Sample ID: DG-AG11W

Date Collected: 01/22/19 14:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/31/19 22:23	1
Isopropylbenzene	**1.4**		0.50	0.25	ug/L			01/31/19 22:23	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 22:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/31/19 22:23	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 22:23	1
N-Propylbenzene	**1.3**		0.50	0.25	ug/L			01/31/19 22:23	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Toluene	**0.39**	**J**	0.50	0.25	ug/L			01/31/19 22:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 22:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 22:23	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 22:23	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 22:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 22:23	1
1,2,4-Trimethylbenzene	**0.29**	**J**	0.50	0.25	ug/L			01/31/19 22:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 22:23	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 22:23	1
Xylenes, Total	**0.69**	**J**	1.0	0.50	ug/L			01/31/19 22:23	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*01/31/19 22:23*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 22:23*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Acenaphthene	**2.3**	**J**	4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Acenaphthylene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Fluorene	**5.6**		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Phenanthrene	**10**		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Anthracene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Benzo[a]anthracene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Chrysene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Benzo[a]pyrene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Benzo[b]fluoranthene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Benzo[k]fluoranthene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Benzo[g,h,i]perylene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Indeno[1,2,3-cd]pyrene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Fluoranthene	**2.7**	**J**	4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Pyrene	**5.2**		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20
Dibenz(a,h)anthracene	ND		4.2	2.1	ug/L		01/25/19 10:03	01/28/19 16:57	20

Client Sample ID: DG-AG11W

Date Collected: 01/22/19 14:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*38 - 120*	*01/25/19 10:03*	*01/28/19 16:57*	*20*
Nitrobenzene-d5	*247*	*X*	*10 - 120*	*01/25/19 10:03*	*01/28/19 16:57*	*20*
Terphenyl-d14	*84*		*21 - 120*	*01/25/19 10:03*	*01/28/19 16:57*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7400**		540	110	ug/L		01/28/19 09:49	01/28/19 21:11	1
Motor Oil Range Organics [C24-C36]	**1300**		540	110	ug/L		01/28/19 09:49	01/28/19 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*45 - 120*	*01/28/19 09:49*	*01/28/19 21:11*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 17:44	1
Arsenic	**28**		10	2.9	ug/L		01/26/19 10:40	01/29/19 17:44	1
Barium	**1900**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 17:44	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 17:44	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 17:44	1
Chromium	**1.1**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 17:44	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 17:44	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 17:44	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 17:44	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 17:44	1
Nickel	**1.8**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 17:44	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 17:44	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 17:44	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 17:44	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 17:44	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 17:44	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 15:39	01/29/19 13:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/22/19 20:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Client Sample ID: DG-Y11W
Date Collected: 01/22/19 10:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	1200		50	35	ug/L			01/31/19 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*01/31/19 22:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/19 22:48*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 22:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Acetone	ND		20	10	ug/L			01/31/19 22:48	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 22:48	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 22:48	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 22:48	1
sec-Butylbenzene	0.49	J	0.50	0.25	ug/L			01/31/19 22:48	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 22:48	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 22:48	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 22:48	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 22:48	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 22:48	1

Client Sample ID: DG-Y11W

Date Collected: 01/22/19 10:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/31/19 22:48	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 22:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/31/19 22:48	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 22:48	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 22:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 22:48	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 22:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 22:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 22:48	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 22:48	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 22:48	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/31/19 22:48*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 22:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Acenaphthene	**3.2**		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Acenaphthylene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Fluorene	**3.1**		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Phenanthrene	**4.7**		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Anthracene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Benzo[a]anthracene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Chrysene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Benzo[a]pyrene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Benzo[b]fluoranthene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Benzo[k]fluoranthene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Benzo[g,h,i]perylene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Indeno[1,2,3-cd]pyrene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Fluoranthene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Pyrene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10
Dibenz(a,h)anthracene	ND		2.0	1.0	ug/L		01/25/19 10:03	01/28/19 17:21	10

Client Sample ID: DG-Y11W

Date Collected: 01/22/19 10:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*38 - 120*	*01/25/19 10:03*	*01/28/19 17:21*	*10*
Nitrobenzene-d5	*0*	*X*	*10 - 120*	*01/25/19 10:03*	*01/28/19 17:21*	*10*
Terphenyl-d14	*83*		*21 - 120*	*01/25/19 10:03*	*01/28/19 17:21*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6900**		510	100	ug/L		01/28/19 09:49	01/28/19 21:32	1
Motor Oil Range Organics [C24-C36]	**530**		510	100	ug/L		01/28/19 09:49	01/28/19 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*45 - 120*	*01/28/19 09:49*	*01/28/19 21:32*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 17:49	1
Arsenic	**4.1**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 17:49	1
Barium	**910**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 17:49	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 17:49	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 17:49	1
Chromium	**2.3**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 17:49	1
Cobalt	**4.5**		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 17:49	1
Copper	**6.8**	**J**	20	3.7	ug/L		01/26/19 10:40	01/29/19 17:49	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 17:49	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 17:49	1
Nickel	**100**		10	1.0	ug/L		01/26/19 10:40	01/29/19 17:49	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 17:49	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 17:49	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/30/19 12:49	1
Vanadium	**2.2**	**J**	10	0.87	ug/L		01/26/19 10:40	01/29/19 17:49	1
Zinc	**57**		20	7.4	ug/L		01/26/19 10:40	01/29/19 17:49	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 15:39	01/29/19 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/22/19 20:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Client Sample ID: FB-01.22.19
Date Collected: 01/22/19 16:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/27/19 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*01/27/19 18:28*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*01/27/19 18:28*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*01/27/19 18:28*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Acetone	**45**		20	10	ug/L			01/27/19 18:28	1
Benzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Bromobenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Bromoform	ND		1.0	0.40	ug/L			01/27/19 18:28	1
Bromomethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/27/19 18:28	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/27/19 18:28	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/27/19 18:28	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Chloroethane	ND		1.0	0.40	ug/L			01/27/19 18:28	1
Chloroform	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Chloromethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/27/19 18:28	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Dibromomethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/27/19 18:28	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/27/19 18:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Client Sample ID: FB-01.22.19
Date Collected: 01/22/19 16:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/27/19 18:28	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/27/19 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/27/19 18:28	1
Naphthalene	ND		1.0	0.40	ug/L			01/27/19 18:28	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Styrene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Toluene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 18:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 18:28	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Trichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/27/19 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/27/19 18:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/27/19 18:28	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/27/19 18:28	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/27/19 18:28	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/27/19 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*01/27/19 18:28*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*01/27/19 18:28*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Client Sample ID: TB-01.22.19
Date Collected: 01/22/19 16:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/27/19 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*01/27/19 18:56*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*01/27/19 18:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/27/19 18:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Acetone	ND		20	10	ug/L			01/27/19 18:56	1
Benzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Bromobenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Bromoform	ND		1.0	0.40	ug/L			01/27/19 18:56	1
Bromomethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/27/19 18:56	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/27/19 18:56	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/27/19 18:56	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Chloroethane	ND		1.0	0.40	ug/L			01/27/19 18:56	1
Chloroform	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Chloromethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/27/19 18:56	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Dibromomethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/27/19 18:56	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/27/19 18:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Client Sample ID: TB-01.22.19
Date Collected: 01/22/19 16:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/27/19 18:56	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/27/19 18:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/27/19 18:56	1
Naphthalene	ND		1.0	0.40	ug/L			01/27/19 18:56	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Styrene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Toluene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 18:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 18:56	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Trichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/27/19 18:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/27/19 18:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/27/19 18:56	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/27/19 18:56	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/27/19 18:56	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/27/19 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*01/27/19 18:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*01/27/19 18:56*	*1*

Client Sample ID: TB-01.22.19-S
Date Collected: 01/22/19 16:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/01/19 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/01/19 05:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/01/19 05:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/01/19 05:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Acetone	ND		20	10	ug/L			02/01/19 05:35	1
Benzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Bromobenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Bromoform	ND		1.0	0.40	ug/L			02/01/19 05:35	1
Bromomethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/01/19 05:35	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/01/19 05:35	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/19 05:35	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Chloroethane	ND		1.0	0.40	ug/L			02/01/19 05:35	1
Chloroform	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Chloromethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/01/19 05:35	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Dibromomethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/01/19 05:35	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/01/19 05:35	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Client Sample ID: TB-01.22.19-S
Date Collected: 01/22/19 16:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/01/19 05:35	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/01/19 05:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/01/19 05:35	1
Naphthalene	ND		1.0	0.40	ug/L			02/01/19 05:35	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Styrene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Toluene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 05:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 05:35	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Trichloroethene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/01/19 05:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/01/19 05:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/01/19 05:35	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/01/19 05:35	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/01/19 05:35	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/01/19 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/01/19 05:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/01/19 05:35*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-231090-B-9 MS	Matrix Spike	86	96
440-231090-B-9 MSD	Matrix Spike Duplicate	90	99
720-90959-1	DG-AL9W	96	102
720-90959-1 MS	DG-AL9W	96	99
720-90959-1 MSD	DG-AL9W	98	97
720-90959-2	DG-AE11W	97	101
720-90959-3	DG-AG11W	97	100
720-90959-4	DG-Y11W	100	100
720-90959-5	FB-01.22.19	96	95
720-90959-6	TB-01.22.19	94	98
720-90959-7	TB-01.22.19-S	100	99
LCS 440-525179/6	Lab Control Sample	85	101
LCS 440-526188/5	Lab Control Sample	94	97
MB 440-525179/5	Method Blank	88	101
MB 440-526188/4	Method Blank	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-231090-B-9 MS	Matrix Spike	103	95	96
440-231090-B-9 MSD	Matrix Spike Duplicate	100	97	99
720-90959-1	DG-AL9W	101	99	102
720-90959-1 MS	DG-AL9W	99	100	99
720-90959-1 MSD	DG-AL9W	101	97	97
720-90959-2	DG-AE11W	100	95	101
720-90959-3	DG-AG11W	98	98	100
720-90959-4	DG-Y11W	102	98	100
720-90959-5	FB-01.22.19	105	93	95
720-90959-6	TB-01.22.19	104	94	98
720-90959-7	TB-01.22.19-S	101	98	99
LCS 440-525180/7	Lab Control Sample	101	97	102
LCS 440-526189/6	Lab Control Sample	100	99	100
MB 440-525180/5	Method Blank	99	99	101
MB 440-526189/4	Method Blank	100	98	100

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-90959-1	DG-AL9W	93	99	80
720-90959-2	DG-AE11W	46	154 X	82
720-90959-3	DG-AG11W	92	247 X	84
720-90959-4	DG-Y11W	85	0 X	83
LCS 440-524927/2-A	Lab Control Sample	102	94	115
LCSD 440-524927/3-A	Lab Control Sample Dup	88	80	107
MB 440-524927/1-A	Method Blank	93	91	111

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-90959-1	DG-AL9W	74
720-90959-2	DG-AE11W	83
720-90959-3	DG-AG11W	87
720-90959-4	DG-Y11W	77
LCS 440-525296/2-A	Lab Control Sample	79
LCSD 440-525296/3-A	Lab Control Sample Dup	75
MB 440-525296/1-A	Method Blank	82

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-525179/5
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Acetone	ND		20	10	ug/L			01/27/19 10:37	1
Benzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Bromobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Bromoform	ND		1.0	0.40	ug/L			01/27/19 10:37	1
Bromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/27/19 10:37	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/27/19 10:37	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/27/19 10:37	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chloroethane	ND		1.0	0.40	ug/L			01/27/19 10:37	1
Chloroform	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chloromethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/27/19 10:37	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Dibromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/27/19 10:37	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
2-Hexanone	ND		5.0	2.5	ug/L			01/27/19 10:37	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/27/19 10:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/27/19 10:37	1
Naphthalene	ND		1.0	0.40	ug/L			01/27/19 10:37	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Styrene	ND		0.50	0.25	ug/L			01/27/19 10:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525179/5
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Toluene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 10:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 10:37	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Trichloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/27/19 10:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/27/19 10:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/27/19 10:37	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/27/19 10:37	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/27/19 10:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*01/27/19 10:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/27/19 10:37*	*1*

Lab Sample ID: LCS 440-525179/6
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	23.8		ug/L		95	63 - 131
Acetone	25.0	20.7		ug/L		83	10 - 150
Benzene	25.0	24.2		ug/L		97	68 - 130
Dichlorobromomethane	25.0	22.0		ug/L		88	70 - 132
Bromobenzene	25.0	25.8		ug/L		103	70 - 130
Chlorobromomethane	25.0	27.5		ug/L		110	70 - 130
Bromoform	25.0	24.5		ug/L		98	60 - 148
Bromomethane	25.0	28.1		ug/L		112	64 - 139
2-Butanone (MEK)	25.0	26.6		ug/L		106	44 - 150
n-Butylbenzene	25.0	24.7		ug/L		99	65 - 150
sec-Butylbenzene	25.0	25.7		ug/L		103	70 - 138
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
Carbon disulfide	25.0	22.9		ug/L		92	52 - 136
Carbon tetrachloride	25.0	22.2		ug/L		89	60 - 150
Chlorobenzene	25.0	23.9		ug/L		95	70 - 130
Chloroethane	25.0	26.2		ug/L		105	64 - 135
Chloroform	25.0	23.5		ug/L		94	70 - 130
Chloromethane	25.0	21.4		ug/L		86	47 - 140
2-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130
4-Chlorotoluene	25.0	23.9		ug/L		96	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525179/6
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	23.0		ug/L		92	69 - 145
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichloropropane	25.0	22.7		ug/L		91	70 - 130
1,1-Dichloropropene	25.0	22.8		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.3		ug/L		89	52 - 140
Ethylene Dibromide	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	22.2		ug/L		89	70 - 130
Dichlorodifluoromethane	25.0	18.5		ug/L		74	29 - 150
1,1-Dichloroethane	25.0	22.7		ug/L		91	64 - 130
1,2-Dichloroethane	25.0	20.0		ug/L		80	57 - 138
1,1-Dichloroethene	25.0	27.4		ug/L		110	70 - 130
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 133
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130
1,2-Dichloropropane	25.0	22.5		ug/L		90	67 - 130
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 133
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 132
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	27.4		ug/L		110	10 - 150
2-Hexanone	25.0	19.6		ug/L		78	10 - 150
Isopropylbenzene	25.0	25.4		ug/L		102	70 - 136
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 132
Methylene Chloride	25.0	25.3		ug/L		101	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	20.3		ug/L		81	59 - 149
Naphthalene	25.0	23.4		ug/L		94	60 - 140
N-Propylbenzene	25.0	24.9		ug/L		99	67 - 139
Styrene	25.0	24.8		ug/L		99	70 - 134
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	60 - 141
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	63 - 130
Tetrachloroethene	25.0	26.6		ug/L		106	70 - 130
Toluene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	60 - 140
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		102	60 - 140
1,1,1-Trichloroethane	25.0	21.6		ug/L		86	70 - 130
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	70 - 130
Trichloroethene	25.0	25.6		ug/L		102	70 - 130
Trichlorofluoromethane	25.0	22.8		ug/L		91	60 - 150
1,2,3-Trichloropropane	25.0	22.6		ug/L		90	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.7		ug/L		107	60 - 140
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 135
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 136
Vinyl acetate	25.0	23.5		ug/L		94	48 - 140
Vinyl chloride	25.0	23.5		ug/L		94	59 - 133
m-Xylene & p-Xylene	25.0	25.5		ug/L		102	70 - 130
o-Xylene	25.0	25.1		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	23.1		ug/L		93	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525179/6
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-231090-B-9 MS
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	24.5		ug/L		98	70 - 130
Acetone	15	J	25.0	31.9		ug/L		68	10 - 150
Benzene	ND		25.0	24.2		ug/L		97	66 - 130
Dichlorobromomethane	0.28	J	25.0	22.3		ug/L		88	70 - 138
Bromobenzene	ND		25.0	24.4		ug/L		98	70 - 130
Chlorobromomethane	ND		25.0	26.7		ug/L		107	70 - 130
Bromoform	5.3		25.0	29.3		ug/L		96	59 - 150
Bromomethane	ND		25.0	28.4		ug/L		114	62 - 131
2-Butanone (MEK)	ND		25.0	25.6		ug/L		102	48 - 140
n-Butylbenzene	ND		25.0	23.8		ug/L		95	61 - 149
sec-Butylbenzene	ND		25.0	23.8		ug/L		95	67 - 134
tert-Butylbenzene	ND		25.0	24.8		ug/L		99	70 - 130
Carbon disulfide	ND		25.0	23.2		ug/L		93	49 - 140
Carbon tetrachloride	ND		25.0	22.5		ug/L		90	60 - 150
Chlorobenzene	ND		25.0	23.2		ug/L		93	70 - 130
Chloroethane	ND		25.0	26.5		ug/L		106	68 - 130
Chloroform	ND		25.0	24.0		ug/L		96	70 - 130
Chloromethane	ND		25.0	23.9		ug/L		96	39 - 144
2-Chlorotoluene	ND		25.0	23.2		ug/L		93	70 - 130
4-Chlorotoluene	ND		25.0	23.0		ug/L		92	70 - 130
Chlorodibromomethane	2.0		25.0	24.8		ug/L		91	70 - 148
1,2-Dichlorobenzene	ND		25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	ND		25.0	23.9		ug/L		95	70 - 130
1,4-Dichlorobenzene	ND		25.0	23.9		ug/L		95	70 - 130
1,3-Dichloropropane	ND		25.0	22.0		ug/L		88	70 - 130
1,1-Dichloropropene	ND		25.0	22.5		ug/L		90	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	21.3		ug/L		85	48 - 140
Ethylene Dibromide	ND		25.0	23.2		ug/L		93	70 - 131
Dibromomethane	ND		25.0	22.1		ug/L		89	70 - 130
Dichlorodifluoromethane	ND		25.0	18.5		ug/L		74	25 - 142
1,1-Dichloroethane	ND		25.0	21.9		ug/L		88	65 - 130
1,2-Dichloroethane	ND		25.0	21.0		ug/L		84	56 - 146
1,1-Dichloroethene	ND		25.0	27.9		ug/L		111	70 - 130
cis-1,2-Dichloroethene	ND		25.0	24.4		ug/L		98	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.8		ug/L		103	70 - 130
1,2-Dichloropropane	ND		25.0	23.2		ug/L		93	69 - 130
cis-1,3-Dichloropropene	ND		25.0	24.2		ug/L		97	70 - 133
trans-1,3-Dichloropropene	ND		25.0	23.5		ug/L		94	70 - 138
Ethylbenzene	ND		25.0	23.2		ug/L		93	70 - 130
Hexachlorobutadiene	ND		25.0	25.6		ug/L		102	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231090-B-9 MS
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	18.7		ug/L		75	10 - 150
Isopropylbenzene	ND		25.0	24.2		ug/L		97	70 - 132
4-Isopropyltoluene	ND		25.0	23.4		ug/L		93	70 - 130
Methylene Chloride	ND		25.0	25.6		ug/L		102	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	19.6		ug/L		78	52 - 150
Naphthalene	ND	F1 F2	25.0	11.9	F1	ug/L		48	60 - 140
N-Propylbenzene	ND		25.0	23.5		ug/L		94	66 - 135
Styrene	ND	F1	25.0	ND	F1	ug/L		0	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	22.6		ug/L		90	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	21.3		ug/L		85	63 - 130
Tetrachloroethene	ND		25.0	25.2		ug/L		101	70 - 137
Toluene	ND		25.0	23.7		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	25.5		ug/L		102	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		25.0	22.1		ug/L		88	70 - 130
1,1,2-Trichloroethane	ND		25.0	23.7		ug/L		95	70 - 130
Trichloroethene	ND		25.0	24.8		ug/L		99	70 - 130
Trichlorofluoromethane	ND		25.0	22.7		ug/L		91	60 - 150
1,2,3-Trichloropropane	ND		25.0	22.5		ug/L		90	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.7		ug/L		107	60 - 140
1,2,4-Trimethylbenzene	ND	F1 F2	25.0	4.51	F1	ug/L		18	70 - 130
1,3,5-Trimethylbenzene	ND	F1 F2	25.0	2.92	F1	ug/L		12	70 - 130
Vinyl acetate	ND	F1	25.0	ND	F1	ug/L		0	23 - 150
Vinyl chloride	ND		25.0	21.3		ug/L		85	50 - 137
m-Xylene & p-Xylene	ND	F1 F2	25.0	15.3	F1	ug/L		61	70 - 133
o-Xylene	ND		25.0	23.3		ug/L		93	70 - 133
2,2-Dichloropropane	ND		25.0	23.2		ug/L		93	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231090-B-9 MSD
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	24.5		ug/L		98	70 - 130	0	25
Acetone	15	J	25.0	34.3		ug/L		78	10 - 150	7	35
Benzene	ND		25.0	25.0		ug/L		100	66 - 130	3	20
Dichlorobromomethane	0.28	J	25.0	22.5		ug/L		89	70 - 138	1	20
Bromobenzene	ND		25.0	25.7		ug/L		103	70 - 130	5	20
Chlorobromomethane	ND		25.0	28.2		ug/L		113	70 - 130	5	25
Bromoform	5.3		25.0	30.4		ug/L		100	59 - 150	4	25
Bromomethane	ND		25.0	29.6		ug/L		118	62 - 131	4	25
2-Butanone (MEK)	ND		25.0	25.8		ug/L		103	48 - 140	1	40
n-Butylbenzene	ND		25.0	24.6		ug/L		99	61 - 149	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231090-B-9 MSD
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	25.2		ug/L		101	67 - 134	6	20
tert-Butylbenzene	ND		25.0	25.4		ug/L		102	70 - 130	2	20
Carbon disulfide	ND		25.0	23.6		ug/L		94	49 - 140	2	20
Carbon tetrachloride	ND		25.0	23.6		ug/L		94	60 - 150	5	25
Chlorobenzene	ND		25.0	23.9		ug/L		95	70 - 130	3	20
Chloroethane	ND		25.0	26.2		ug/L		105	68 - 130	1	25
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130	1	20
Chloromethane	ND		25.0	21.8		ug/L		87	39 - 144	9	25
2-Chlorotoluene	ND		25.0	23.7		ug/L		95	70 - 130	2	20
4-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 130	4	20
Chlorodibromomethane	2.0		25.0	26.4		ug/L		97	70 - 148	6	25
1,2-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130	3	20
1,4-Dichlorobenzene	ND		25.0	24.5		ug/L		98	70 - 130	3	20
1,3-Dichloropropane	ND		25.0	23.5		ug/L		94	70 - 130	6	25
1,1-Dichloropropene	ND		25.0	23.6		ug/L		95	64 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		25.0	21.9		ug/L		88	48 - 140	3	30
Ethylene Dibromide	ND		25.0	23.8		ug/L		95	70 - 131	3	25
Dibromomethane	ND		25.0	23.1		ug/L		92	70 - 130	4	25
Dichlorodifluoromethane	ND		25.0	18.9		ug/L		76	25 - 142	2	30
1,1-Dichloroethane	ND		25.0	23.1		ug/L		92	65 - 130	5	20
1,2-Dichloroethane	ND		25.0	20.8		ug/L		83	56 - 146	1	20
1,1-Dichloroethene	ND		25.0	27.4		ug/L		110	70 - 130	2	20
cis-1,2-Dichloroethene	ND		25.0	25.3		ug/L		101	70 - 130	4	20
trans-1,2-Dichloroethene	ND		25.0	27.5		ug/L		110	70 - 130	6	20
1,2-Dichloropropane	ND		25.0	23.0		ug/L		92	69 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	70 - 133	4	20
trans-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	70 - 138	5	25
Ethylbenzene	ND		25.0	23.7		ug/L		95	70 - 130	2	20
Hexachlorobutadiene	ND		25.0	27.1		ug/L		108	10 - 150	6	20
2-Hexanone	ND		25.0	19.3		ug/L		77	10 - 150	3	35
Isopropylbenzene	ND		25.0	25.4		ug/L		102	70 - 132	5	20
4-Isopropyltoluene	ND		25.0	24.7		ug/L		99	70 - 130	5	20
Methylene Chloride	ND		25.0	26.4		ug/L		106	52 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	20.3		ug/L		81	52 - 150	3	35
Naphthalene	ND	F1 F2	25.0	23.3	F2	ug/L		93	60 - 140	64	30
N-Propylbenzene	ND		25.0	24.4		ug/L		97	66 - 135	3	20
Styrene	ND	F1	25.0	3.70	F1	ug/L		15	29 - 150	NC	35
1,1,1,2-Tetrachloroethane	ND		25.0	24.1		ug/L		97	60 - 149	7	20
1,1,2,2-Tetrachloroethane	ND		25.0	22.8		ug/L		91	63 - 130	7	30
Tetrachloroethene	ND		25.0	25.9		ug/L		103	70 - 137	3	20
Toluene	ND		25.0	24.6		ug/L		98	70 - 130	4	20
1,2,3-Trichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	26.0		ug/L		104	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	22.4		ug/L		89	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	24.9		ug/L		100	70 - 130	5	25
Trichloroethene	ND		25.0	26.1		ug/L		104	70 - 130	5	20
Trichlorofluoromethane	ND		25.0	23.6		ug/L		94	60 - 150	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231090-B-9 MSD
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	23.4		ug/L		94	60 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.0		ug/L		108	60 - 140	1	20
1,2,4-Trimethylbenzene	ND	F1 F2	25.0	22.8	F2	ug/L		91	70 - 130	134	25
1,3,5-Trimethylbenzene	ND	F1 F2	25.0	17.8	F2	ug/L		71	70 - 130	144	20
Vinyl acetate	ND	F1	25.0	12.2		ug/L		49	23 - 150	NC	30
Vinyl chloride	ND		25.0	23.4		ug/L		93	50 - 137	9	30
m-Xylene & p-Xylene	ND	F1 F2	25.0	25.8	F2	ug/L		103	70 - 133	51	25
o-Xylene	ND		25.0	25.3		ug/L		101	70 - 133	8	20
2,2-Dichloropropane	ND		25.0	23.5		ug/L		94	69 - 138	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: MB 440-526188/4
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Acetone	ND		20	10	ug/L			01/31/19 19:25	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 19:25	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 19:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 19:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 19:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 19:25	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 19:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 19:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526188/4
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 19:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
2-Hexanone	ND		5.0	2.5	ug/L			01/31/19 19:25	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/31/19 19:25	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 19:25	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 19:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 19:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 19:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 19:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 19:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*01/31/19 19:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 19:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526188/5
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	9.72		ug/L		97	63 - 131
Acetone	10.0	ND		ug/L		53	10 - 150
Benzene	10.0	9.99		ug/L		100	68 - 130
Dichlorobromomethane	10.0	9.56		ug/L		96	70 - 132
Bromobenzene	10.0	10.6		ug/L		106	70 - 130
Chlorobromomethane	10.0	10.3		ug/L		103	70 - 130
Bromoform	10.0	9.62		ug/L		96	60 - 148
Bromomethane	10.0	9.68		ug/L		97	64 - 139
2-Butanone (MEK)	10.0	9.12		ug/L		91	44 - 150
n-Butylbenzene	10.0	10.1		ug/L		101	65 - 150
sec-Butylbenzene	10.0	9.90		ug/L		99	70 - 138
tert-Butylbenzene	10.0	10.4		ug/L		104	70 - 130
Carbon disulfide	10.0	9.38		ug/L		94	52 - 136
Carbon tetrachloride	10.0	9.26		ug/L		93	60 - 150
Chlorobenzene	10.0	10.2		ug/L		102	70 - 130
Chloroethane	10.0	9.01		ug/L		90	64 - 135
Chloroform	10.0	9.95		ug/L		99	70 - 130
Chloromethane	10.0	8.49		ug/L		85	47 - 140
2-Chlorotoluene	10.0	10.1		ug/L		101	70 - 130
4-Chlorotoluene	10.0	10.4		ug/L		104	70 - 130
Chlorodibromomethane	10.0	10.1		ug/L		101	69 - 145
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
1,3-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,3-Dichloropropane	10.0	10.1		ug/L		101	70 - 130
1,1-Dichloropropene	10.0	9.89		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	9.63		ug/L		96	52 - 140
Ethylene Dibromide	10.0	10.4		ug/L		104	70 - 130
Dibromomethane	10.0	10.1		ug/L		101	70 - 130
Dichlorodifluoromethane	10.0	8.18		ug/L		82	29 - 150
1,1-Dichloroethane	10.0	9.61		ug/L		96	64 - 130
1,2-Dichloroethane	10.0	9.40		ug/L		94	57 - 138
1,1-Dichloroethene	10.0	9.73		ug/L		97	70 - 130
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 133
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	70 - 130
1,2-Dichloropropane	10.0	10.3		ug/L		103	67 - 130
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	70 - 133
trans-1,3-Dichloropropene	10.0	9.71		ug/L		97	70 - 132
Ethylbenzene	10.0	9.78		ug/L		98	70 - 130
Hexachlorobutadiene	10.0	10.2		ug/L		102	10 - 150
2-Hexanone	10.0	8.37		ug/L		84	10 - 150
Isopropylbenzene	10.0	9.76		ug/L		98	70 - 136
4-Isopropyltoluene	10.0	10.3		ug/L		103	70 - 132
Methylene Chloride	10.0	8.44		ug/L		84	52 - 130
4-Methyl-2-pentanone (MIBK)	10.0	8.43		ug/L		84	59 - 149
Naphthalene	10.0	10.1		ug/L		101	60 - 140
N-Propylbenzene	10.0	9.89		ug/L		99	67 - 139
Styrene	10.0	9.63		ug/L		96	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526188/5
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	60 - 141
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	63 - 130
Tetrachloroethene	10.0	9.93		ug/L		99	70 - 130
Toluene	10.0	9.58		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	10.0	10.3		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	10.0	10.7		ug/L		107	60 - 140
1,1,1-Trichloroethane	10.0	9.70		ug/L		97	70 - 130
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	70 - 130
Trichloroethene	10.0	10.1		ug/L		101	70 - 130
Trichlorofluoromethane	10.0	9.50		ug/L		95	60 - 150
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.70		ug/L		97	60 - 140
1,2,4-Trimethylbenzene	10.0	10.2		ug/L		102	70 - 135
1,3,5-Trimethylbenzene	10.0	10.2		ug/L		102	70 - 136
Vinyl acetate	10.0	9.66		ug/L		97	48 - 140
Vinyl chloride	10.0	9.20		ug/L		92	59 - 133
m-Xylene & p-Xylene	10.0	9.93		ug/L		99	70 - 130
o-Xylene	10.0	10.2		ug/L		102	70 - 130
2,2-Dichloropropane	10.0	9.62		ug/L		96	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 720-90959-1 MS
Matrix: Water
Analysis Batch: 526188

Client Sample ID: DG-AL9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	0.90		10.0	10.8		ug/L		99	70 - 130
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150
Benzene	ND		10.0	10.4		ug/L		104	66 - 130
Dichlorobromomethane	ND		10.0	9.95		ug/L		100	70 - 138
Bromobenzene	ND		10.0	10.6		ug/L		106	70 - 130
Chlorobromomethane	ND		10.0	11.0		ug/L		110	70 - 130
Bromoform	ND		10.0	9.88		ug/L		99	59 - 150
Bromomethane	ND		10.0	10.4		ug/L		104	62 - 131
2-Butanone (MEK)	ND		10.0	9.72		ug/L		97	48 - 140
n-Butylbenzene	ND		10.0	10.6		ug/L		106	61 - 149
sec-Butylbenzene	ND		10.0	10.5		ug/L		105	67 - 134
tert-Butylbenzene	ND		10.0	10.8		ug/L		108	70 - 130
Carbon disulfide	ND		10.0	10.4		ug/L		104	49 - 140
Carbon tetrachloride	ND		10.0	10.3		ug/L		103	60 - 150
Chlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130
Chloroethane	ND		10.0	10.0		ug/L		100	68 - 130
Chloroform	ND		10.0	10.0		ug/L		100	70 - 130
Chloromethane	ND		10.0	9.44		ug/L		94	39 - 144

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90959-1 MS
Matrix: Water
Analysis Batch: 526188

Client Sample ID: DG-AL9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		10.0	10.4		ug/L		104	70 - 130
4-Chlorotoluene	ND		10.0	10.6		ug/L		106	70 - 130
Chlorodibromomethane	ND		10.0	10.2		ug/L		102	70 - 148
1,2-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.6		ug/L		106	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,3-Dichloropropane	ND		10.0	10.4		ug/L		104	70 - 130
1,1-Dichloropropene	ND		10.0	10.6		ug/L		106	64 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	9.96		ug/L		100	48 - 140
Ethylene Dibromide	ND		10.0	10.6		ug/L		106	70 - 131
Dibromomethane	ND		10.0	10.3		ug/L		103	70 - 130
Dichlorodifluoromethane	ND		10.0	10.2		ug/L		102	25 - 142
1,1-Dichloroethane	ND		10.0	9.96		ug/L		100	65 - 130
1,2-Dichloroethane	ND		10.0	9.57		ug/L		96	56 - 146
1,1-Dichloroethene	ND		10.0	10.6		ug/L		106	70 - 130
cis-1,2-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.9		ug/L		109	70 - 130
1,2-Dichloropropane	ND		10.0	10.4		ug/L		104	69 - 130
cis-1,3-Dichloropropene	ND		10.0	10.3		ug/L		103	70 - 133
trans-1,3-Dichloropropene	ND		10.0	10.0		ug/L		100	70 - 138
Ethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130
Hexachlorobutadiene	ND		10.0	10.5		ug/L		105	10 - 150
2-Hexanone	ND		10.0	9.78		ug/L		98	10 - 150
Isopropylbenzene	ND		10.0	10.1		ug/L		101	70 - 132
4-Isopropyltoluene	ND		10.0	10.9		ug/L		109	70 - 130
Methylene Chloride	ND		10.0	8.56		ug/L		86	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.29		ug/L		93	52 - 150
Naphthalene	ND		10.0	10.1		ug/L		101	60 - 140
N-Propylbenzene	ND		10.0	10.4		ug/L		104	66 - 135
Styrene	ND		10.0	9.32		ug/L		93	29 - 150
1,1,1,2-Tetrachloroethane	ND		10.0	9.97		ug/L		100	60 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	63 - 130
Tetrachloroethene	ND		10.0	10.6		ug/L		106	70 - 137
Toluene	ND		10.0	10.1		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	ND		10.0	10.2		ug/L		102	60 - 140
1,2,4-Trichlorobenzene	ND		10.0	10.5		ug/L		105	60 - 140
1,1,1-Trichloroethane	ND		10.0	10.4		ug/L		104	70 - 130
1,1,2-Trichloroethane	ND		10.0	10.6		ug/L		106	70 - 130
Trichloroethene	ND		10.0	10.7		ug/L		107	70 - 130
Trichlorofluoromethane	ND		10.0	10.7		ug/L		107	60 - 150
1,2,3-Trichloropropane	ND		10.0	11.3		ug/L		113	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.7		ug/L		107	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	ND		10.0	10.4		ug/L		104	70 - 130
Vinyl acetate	ND		10.0	9.98		ug/L		100	23 - 150
Vinyl chloride	ND		10.0	10.3		ug/L		103	50 - 137
m-Xylene & p-Xylene	ND		10.0	10.3		ug/L		103	70 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90959-1 MS
Matrix: Water
Analysis Batch: 526188

Client Sample ID: DG-AL9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	ND		10.0	10.3		ug/L		103	70 - 133
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-90959-1 MSD
Matrix: Water
Analysis Batch: 526188

Client Sample ID: DG-AL9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.90		10.0	11.7		ug/L		108	70 - 130	8	25
Acetone	ND	F1	10.0	10.6	J	ug/L		106	10 - 150	NC	35
Benzene	ND		10.0	10.9		ug/L		109	66 - 130	4	20
Dichlorobromomethane	ND		10.0	10.3		ug/L		103	70 - 138	3	20
Bromobenzene	ND		10.0	10.8		ug/L		108	70 - 130	2	20
Chlorobromomethane	ND		10.0	11.4		ug/L		114	70 - 130	3	25
Bromoform	ND		10.0	10.5		ug/L		105	59 - 150	6	25
Bromomethane	ND		10.0	10.9		ug/L		109	62 - 131	4	25
2-Butanone (MEK)	ND		10.0	11.4		ug/L		114	48 - 140	15	40
n-Butylbenzene	ND		10.0	10.9		ug/L		109	61 - 149	2	20
sec-Butylbenzene	ND		10.0	10.8		ug/L		108	67 - 134	3	20
tert-Butylbenzene	ND		10.0	11.1		ug/L		111	70 - 130	3	20
Carbon disulfide	ND		10.0	10.9		ug/L		109	49 - 140	5	20
Carbon tetrachloride	ND		10.0	10.6		ug/L		106	60 - 150	3	25
Chlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	3	20
Chloroethane	ND		10.0	10.3		ug/L		103	68 - 130	3	25
Chloroform	ND		10.0	10.7		ug/L		107	70 - 130	6	20
Chloromethane	ND		10.0	10.3		ug/L		103	39 - 144	9	25
2-Chlorotoluene	ND		10.0	10.5		ug/L		105	70 - 130	1	20
4-Chlorotoluene	ND		10.0	10.8		ug/L		108	70 - 130	2	20
Chlorodibromomethane	ND		10.0	10.8		ug/L		108	70 - 148	5	25
1,2-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130	5	20
1,3-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130	4	20
1,4-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	5	20
1,3-Dichloropropane	ND		10.0	10.4		ug/L		104	70 - 130	1	25
1,1-Dichloropropene	ND		10.0	11.0		ug/L		110	64 - 130	4	20
1,2-Dibromo-3-Chloropropane	ND		10.0	10.5		ug/L		105	48 - 140	6	30
Ethylene Dibromide	ND		10.0	10.8		ug/L		108	70 - 131	2	25
Dibromomethane	ND		10.0	11.1		ug/L		111	70 - 130	7	25
Dichlorodifluoromethane	ND		10.0	10.4		ug/L		104	25 - 142	2	30
1,1-Dichloroethane	ND		10.0	10.7		ug/L		107	65 - 130	7	20
1,2-Dichloroethane	ND		10.0	10.1		ug/L		101	56 - 146	5	20
1,1-Dichloroethene	ND		10.0	10.9		ug/L		109	70 - 130	3	20
cis-1,2-Dichloroethene	ND		10.0	11.1		ug/L		111	70 - 130	6	20
trans-1,2-Dichloroethene	ND		10.0	11.2		ug/L		112	70 - 130	3	20
1,2-Dichloropropane	ND		10.0	11.0		ug/L		110	69 - 130	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90959-1 MSD
Matrix: Water
Analysis Batch: 526188

Client Sample ID: DG-AL9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND		10.0	10.9		ug/L		109	70 - 133	5	20
trans-1,3-Dichloropropene	ND		10.0	10.3		ug/L		103	70 - 138	3	25
Ethylbenzene	ND		10.0	10.2		ug/L		102	70 - 130	1	20
Hexachlorobutadiene	ND		10.0	11.3		ug/L		113	10 - 150	7	20
2-Hexanone	ND		10.0	9.78		ug/L		98	10 - 150	0	35
Isopropylbenzene	ND		10.0	10.6		ug/L		106	70 - 132	5	20
4-Isopropyltoluene	ND		10.0	11.2		ug/L		112	70 - 130	3	20
Methylene Chloride	ND		10.0	9.58		ug/L		96	52 - 130	11	20
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.42		ug/L		94	52 - 150	1	35
Naphthalene	ND		10.0	10.7		ug/L		107	60 - 140	5	30
N-Propylbenzene	ND		10.0	10.6		ug/L		106	66 - 135	2	20
Styrene	ND		10.0	9.81		ug/L		98	29 - 150	5	35
1,1,1,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	60 - 149	7	20
1,1,2,2-Tetrachloroethane	ND		10.0	10.8		ug/L		108	63 - 130	1	30
Tetrachloroethene	ND		10.0	10.9		ug/L		109	70 - 137	3	20
Toluene	ND		10.0	10.3		ug/L		103	70 - 130	2	20
1,2,3-Trichlorobenzene	ND		10.0	11.0		ug/L		110	60 - 140	7	20
1,2,4-Trichlorobenzene	ND		10.0	11.2		ug/L		112	60 - 140	6	20
1,1,1-Trichloroethane	ND		10.0	10.6		ug/L		106	70 - 130	2	20
1,1,2-Trichloroethane	ND		10.0	11.0		ug/L		110	70 - 130	3	25
Trichloroethene	ND		10.0	11.2		ug/L		112	70 - 130	4	20
Trichlorofluoromethane	ND		10.0	11.2		ug/L		112	60 - 150	5	25
1,2,3-Trichloropropane	ND		10.0	11.3		ug/L		113	60 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.0		ug/L		110	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		10.0	10.6		ug/L		106	70 - 130	3	25
1,3,5-Trimethylbenzene	ND		10.0	10.7		ug/L		107	70 - 130	3	20
Vinyl acetate	ND		10.0	10.4		ug/L		104	23 - 150	4	30
Vinyl chloride	ND		10.0	10.8		ug/L		108	50 - 137	5	30
m-Xylene & p-Xylene	ND		10.0	10.5		ug/L		105	70 - 133	2	25
o-Xylene	ND		10.0	10.8		ug/L		108	70 - 133	5	20
2,2-Dichloropropane	ND		10.0	10.6		ug/L		106	69 - 138	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-525180/5
Matrix: Water
Analysis Batch: 525180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	52.1		50	35	ug/L			01/27/19 10:37	1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-525180/5
Matrix: Water
Analysis Batch: 525180

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		76 - 132		01/27/19 10:37	1
4-Bromofluorobenzene (Surr)	99		80 - 120		01/27/19 10:37	1
Toluene-d8 (Surr)	101		80 - 128		01/27/19 10:37	1

Lab Sample ID: LCS 440-525180/7
Matrix: Water
Analysis Batch: 525180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	415		ug/L		83	55 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		76 - 132
4-Bromofluorobenzene (Surr)	97		80 - 120
Toluene-d8 (Surr)	102		80 - 128

Lab Sample ID: 440-231090-B-9 MS
Matrix: Water
Analysis Batch: 525180

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1340		ug/L		77	50 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	103		76 - 132
4-Bromofluorobenzene (Surr)	95		80 - 120
Toluene-d8 (Surr)	96		80 - 128

Lab Sample ID: 440-231090-B-9 MSD
Matrix: Water
Analysis Batch: 525180

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1470		ug/L		85	50 - 145	9	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	100		76 - 132
4-Bromofluorobenzene (Surr)	97		80 - 120
Toluene-d8 (Surr)	99		80 - 128

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-526189/4
Matrix: Water
Analysis Batch: 526189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/31/19 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*01/31/19 19:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/19 19:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 19:25*	*1*

Lab Sample ID: LCS 440-526189/6
Matrix: Water
Analysis Batch: 526189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	448		ug/L		90	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-90959-1 MS
Matrix: Water
Analysis Batch: 526189

Client Sample ID: DG-AL9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		690	703		ug/L		102	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-90959-1 MSD
Matrix: Water
Analysis Batch: 526189

Client Sample ID: DG-AL9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		690	724		ug/L		105	50 - 145	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-524927/1-A
Matrix: Water
Analysis Batch: 525323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Acenaphthene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Fluorene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Phenanthrene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Anthracene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Chrysene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Fluoranthene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Pyrene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/25/19 10:03	01/28/19 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*	*01/25/19 10:03*	*01/28/19 11:40*	*1*
Nitrobenzene-d5	*91*		*10 - 120*	*01/25/19 10:03*	*01/28/19 11:40*	*1*
Terphenyl-d14	*111*		*21 - 120*	*01/25/19 10:03*	*01/28/19 11:40*	*1*

Lab Sample ID: LCS 440-524927/2-A
Matrix: Water
Analysis Batch: 525323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.908		ug/L		91	50 - 120
Acenaphthene	1.00	1.03		ug/L		103	55 - 120
Acenaphthylene	1.00	1.06		ug/L		106	53 - 120
Fluorene	1.00	1.14		ug/L		114	56 - 120
Phenanthrene	1.00	1.06		ug/L		106	56 - 120
Anthracene	1.00	0.984		ug/L		98	54 - 120
Benzo[a]anthracene	1.00	0.955		ug/L		96	53 - 120
Chrysene	1.00	0.912		ug/L		91	56 - 120
Benzo[a]pyrene	1.00	0.977		ug/L		98	44 - 120
Benzo[b]fluoranthene	1.00	1.04		ug/L		104	48 - 120
Benzo[k]fluoranthene	1.00	1.03		ug/L		103	47 - 121
Benzo[g,h,i]perylene	1.00	0.999		ug/L		100	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.958		ug/L		96	38 - 120
Fluoranthene	1.00	1.20		ug/L		120	59 - 120
Pyrene	1.00	1.18		ug/L		118	59 - 120
Dibenz(a,h)anthracene	1.00	0.941		ug/L		94	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*102*		*38 - 120*
Nitrobenzene-d5	*94*		*10 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-524927/2-A
Matrix: Water
Analysis Batch: 525323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524927

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	*115*		*21 - 120*

Lab Sample ID: LCSD 440-524927/3-A
Matrix: Water
Analysis Batch: 525323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 524927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.00	0.754		ug/L		75	50 - 120	19	35
Acenaphthene			1.00	0.883		ug/L		88	55 - 120	15	35
Acenaphthylene			1.00	0.888		ug/L		89	53 - 120	18	35
Fluorene			1.00	1.01		ug/L		101	56 - 120	12	35
Phenanthrene			1.00	0.936		ug/L		94	56 - 120	12	35
Anthracene			1.00	0.862		ug/L		86	54 - 120	13	35
Benzo[a]anthracene			1.00	0.870		ug/L		87	53 - 120	9	35
Chrysene			1.00	0.868		ug/L		87	56 - 120	5	35
Benzo[a]pyrene			1.00	0.859		ug/L		86	44 - 120	13	35
Benzo[b]fluoranthene			1.00	0.924		ug/L		92	48 - 120	12	35
Benzo[k]fluoranthene			1.00	0.904		ug/L		90	47 - 121	13	35
Benzo[g,h,i]perylene			1.00	0.876		ug/L		88	41 - 123	13	35
Indeno[1,2,3-cd]pyrene			1.00	0.771		ug/L		77	38 - 120	22	35
Fluoranthene			1.00	1.05		ug/L		105	59 - 120	13	35
Pyrene			1.00	1.06		ug/L		106	59 - 120	11	35
Dibenz(a,h)anthracene			1.00	0.849		ug/L		85	38 - 122	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	*88*		*38 - 120*
Nitrobenzene-d5	*80*		*10 - 120*
Terphenyl-d14	*107*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-525296/1-A
Matrix: Water
Analysis Batch: 525278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/28/19 09:49	01/28/19 15:48	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/28/19 09:49	01/28/19 15:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*82*		*45 - 120*	*01/28/19 09:49*	*01/28/19 15:48*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-525296/2-A
Matrix: Water
Analysis Batch: 525278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525296

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	716		ug/L		72	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*79*		*45 - 120*

Lab Sample ID: LCSD 440-525296/3-A
Matrix: Water
Analysis Batch: 525278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525296

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	626		ug/L		63	40 - 115	13	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*75*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259288/1-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 16:46	1
Arsenic	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 16:46	1
Barium	2.23	J	50	1.6	ug/L		01/26/19 10:40	01/29/19 16:46	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 16:46	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 16:46	1
Chromium	ND		10	0.70	ug/L		01/26/19 10:40	01/29/19 16:46	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 16:46	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 16:46	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 16:46	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 16:46	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 16:46	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 16:46	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 16:46	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 16:46	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 16:46	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 16:46	1

Lab Sample ID: LCS 720-259288/2-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			1000	936		ug/L		94	80 - 120		
Arsenic			1000	933		ug/L		93	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259288/2-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1000	937		ug/L		94	80 - 120
Beryllium	1000	943		ug/L		94	80 - 120
Cadmium	1000	947		ug/L		95	80 - 120
Chromium	1000	933		ug/L		93	80 - 120
Cobalt	1000	950		ug/L		95	80 - 120
Copper	1000	946		ug/L		95	80 - 120
Lead	1000	957		ug/L		96	80 - 120
Molybdenum	1000	941		ug/L		94	80 - 120
Nickel	1000	943		ug/L		94	80 - 120
Selenium	1000	942		ug/L		94	80 - 120
Silver	500	470		ug/L		94	80 - 120
Thallium	1000	818		ug/L		82	80 - 120
Vanadium	1000	941		ug/L		94	80 - 120
Zinc	1000	942		ug/L		94	80 - 120

Lab Sample ID: 720-90947-I-1-A MS
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	917		ug/L		92	75 - 125
Arsenic	ND		1000	931		ug/L		93	75 - 125
Barium	140	B	1000	1070		ug/L		94	75 - 125
Beryllium	ND		1000	968		ug/L		97	75 - 125
Cadmium	0.74	J	1000	896		ug/L		90	75 - 125
Chromium	1.5	J	1000	887		ug/L		89	75 - 125
Cobalt	3.8		1000	889		ug/L		89	75 - 125
Copper	17	J	1000	906		ug/L		89	75 - 125
Lead	ND		1000	876		ug/L		88	75 - 125
Molybdenum	3.8	J	1000	925		ug/L		92	75 - 125
Nickel	4.0	J	1000	874		ug/L		87	75 - 125
Selenium	ND		1000	908		ug/L		91	75 - 125
Silver	ND		500	450		ug/L		90	75 - 125
Thallium	14		1000	820		ug/L		81	75 - 125
Vanadium	ND		1000	923		ug/L		92	75 - 125
Zinc	78		1000	967		ug/L		89	75 - 125

Lab Sample ID: 720-90947-I-1-B MSD
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	944		ug/L		94	75 - 125	3	20
Arsenic	ND		1000	960		ug/L		96	75 - 125	3	20
Barium	140	B	1000	1100		ug/L		96	75 - 125	2	20
Beryllium	ND		1000	990		ug/L		99	75 - 125	2	20
Cadmium	0.74	J	1000	924		ug/L		92	75 - 125	3	20
Chromium	1.5	J	1000	909		ug/L		91	75 - 125	2	20
Cobalt	3.8		1000	916		ug/L		91	75 - 125	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90947-I-1-B MSD
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	17	J	1000	929		ug/L		91	75 - 125	3	20
Lead	ND		1000	904		ug/L		90	75 - 125	3	20
Molybdenum	3.8	J	1000	954		ug/L		95	75 - 125	3	20
Nickel	4.0	J	1000	900		ug/L		90	75 - 125	3	20
Selenium	ND		1000	950		ug/L		95	75 - 125	4	20
Silver	ND		500	462		ug/L		92	75 - 125	3	20
Thallium	14		1000	894		ug/L		88	75 - 125	9	20
Vanadium	ND		1000	945		ug/L		95	75 - 125	2	20
Zinc	78		1000	997		ug/L		92	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259346/1-A
Matrix: Water
Analysis Batch: 259402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 15:39	01/29/19 12:36	1

Lab Sample ID: LCS 720-259346/2-A
Matrix: Water
Analysis Batch: 259402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.96		ug/L		100	85 - 115

Lab Sample ID: 720-90938-D-1-B MS
Matrix: Water
Analysis Batch: 259402

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	10.1		ug/L		101	75 - 125

Lab Sample ID: 720-90938-D-1-C MSD
Matrix: Water
Analysis Batch: 259402

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	10.1		ug/L		101	75 - 125	0	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-258999/9
Matrix: Water
Analysis Batch: 258999

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/22/19 20:40	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 720-258999/10
Matrix: Water
Analysis Batch: 258999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	257		ug/L		103	90 - 110		

Lab Sample ID: LCSD 720-258999/11
Matrix: Water
Analysis Batch: 258999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	257		ug/L		103	90 - 110	0	20

Lab Sample ID: 720-90959-1 MS
Matrix: Water
Analysis Batch: 258999

Client Sample ID: DG-AL9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	249		ug/L		100	85 - 115		

Lab Sample ID: 720-90959-1 MSD
Matrix: Water
Analysis Batch: 258999

Client Sample ID: DG-AL9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	250		ug/L		100	85 - 115	0	20

GC/MS VOA

Analysis Batch: 525179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-5	FB-01.22.19	Total/NA	Water	8260B	
720-90959-6	TB-01.22.19	Total/NA	Water	8260B	
MB 440-525179/5	Method Blank	Total/NA	Water	8260B	
LCS 440-525179/6	Lab Control Sample	Total/NA	Water	8260B	
440-231090-B-9 MS	Matrix Spike	Total/NA	Water	8260B	
440-231090-B-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 525180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-5	FB-01.22.19	Total/NA	Water	8260B/CA_LUFT MS	
720-90959-6	TB-01.22.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-525180/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-525180/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-231090-B-9 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-231090-B-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 526188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Total/NA	Water	8260B	
720-90959-2	DG-AE11W	Total/NA	Water	8260B	
720-90959-3	DG-AG11W	Total/NA	Water	8260B	
720-90959-4	DG-Y11W	Total/NA	Water	8260B	
720-90959-7	TB-01.22.19-S	Total/NA	Water	8260B	
MB 440-526188/4	Method Blank	Total/NA	Water	8260B	
LCS 440-526188/5	Lab Control Sample	Total/NA	Water	8260B	
720-90959-1 MS	DG-AL9W	Total/NA	Water	8260B	
720-90959-1 MSD	DG-AL9W	Total/NA	Water	8260B	

Analysis Batch: 526189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90959-2	DG-AE11W	Total/NA	Water	8260B/CA_LUFT MS	
720-90959-3	DG-AG11W	Total/NA	Water	8260B/CA_LUFT MS	
720-90959-4	DG-Y11W	Total/NA	Water	8260B/CA_LUFT MS	
720-90959-7	TB-01.22.19-S	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-526189/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-526189/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90959-1 MS	DG-AL9W	Total/NA	Water	8260B/CA_LUFT MS	
720-90959-1 MSD	DG-AL9W	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 524927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Total/NA	Water	3520C	
720-90959-2	DG-AE11W	Total/NA	Water	3520C	
720-90959-3	DG-AG11W	Total/NA	Water	3520C	
720-90959-4	DG-Y11W	Total/NA	Water	3520C	
MB 440-524927/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-524927/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-524927/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 525323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Total/NA	Water	8270C SIM	524927
720-90959-2	DG-AE11W	Total/NA	Water	8270C SIM	524927
720-90959-3	DG-AG11W	Total/NA	Water	8270C SIM	524927
720-90959-4	DG-Y11W	Total/NA	Water	8270C SIM	524927
MB 440-524927/1-A	Method Blank	Total/NA	Water	8270C SIM	524927
LCS 440-524927/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	524927
LCSD 440-524927/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	524927

GC Semi VOA

Analysis Batch: 525278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Total/NA	Water	8015B	525296
720-90959-2	DG-AE11W	Total/NA	Water	8015B	525296
720-90959-3	DG-AG11W	Total/NA	Water	8015B	525296
720-90959-4	DG-Y11W	Total/NA	Water	8015B	525296
MB 440-525296/1-A	Method Blank	Total/NA	Water	8015B	525296
LCS 440-525296/2-A	Lab Control Sample	Total/NA	Water	8015B	525296
LCSD 440-525296/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	525296

Prep Batch: 525296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Total/NA	Water	3510C	
720-90959-2	DG-AE11W	Total/NA	Water	3510C	
720-90959-3	DG-AG11W	Total/NA	Water	3510C	
720-90959-4	DG-Y11W	Total/NA	Water	3510C	
MB 440-525296/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-525296/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-525296/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Metals

Prep Batch: 259288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Dissolved	Water	3005A	
720-90959-2	DG-AE11W	Dissolved	Water	3005A	
720-90959-3	DG-AG11W	Dissolved	Water	3005A	
720-90959-4	DG-Y11W	Dissolved	Water	3005A	
MB 720-259288/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-259288/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 259288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90947-I-1-A MS	Matrix Spike	Dissolved	Water	3005A	
720-90947-I-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 259346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Dissolved	Water	7470A	
720-90959-2	DG-AE11W	Dissolved	Water	7470A	
720-90959-3	DG-AG11W	Dissolved	Water	7470A	
720-90959-4	DG-Y11W	Dissolved	Water	7470A	
MB 720-259346/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259346/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90938-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	
720-90938-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 259402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Dissolved	Water	7470A	259346
720-90959-2	DG-AE11W	Dissolved	Water	7470A	259346
720-90959-3	DG-AG11W	Dissolved	Water	7470A	259346
720-90959-4	DG-Y11W	Dissolved	Water	7470A	259346
MB 720-259346/1-A	Method Blank	Total/NA	Water	7470A	259346
LCS 720-259346/2-A	Lab Control Sample	Total/NA	Water	7470A	259346
720-90938-D-1-B MS	Matrix Spike	Total/NA	Water	7470A	259346
720-90938-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	259346

Analysis Batch: 259445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Dissolved	Water	6010B	259288
720-90959-2	DG-AE11W	Dissolved	Water	6010B	259288
720-90959-3	DG-AG11W	Dissolved	Water	6010B	259288
720-90959-4	DG-Y11W	Dissolved	Water	6010B	259288
MB 720-259288/1-A	Method Blank	Total Recoverable	Water	6010B	259288
LCS 720-259288/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259288
720-90947-I-1-A MS	Matrix Spike	Dissolved	Water	6010B	259288
720-90947-I-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	259288

Analysis Batch: 259497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-4	DG-Y11W	Dissolved	Water	6010B	259288

General Chemistry

Analysis Batch: 258999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90959-1	DG-AL9W	Total/NA	Water	7196A	
720-90959-2	DG-AE11W	Total/NA	Water	7196A	
720-90959-3	DG-AG11W	Total/NA	Water	7196A	
720-90959-4	DG-Y11W	Total/NA	Water	7196A	
MB 720-258999/9	Method Blank	Total/NA	Water	7196A	
LCS 720-258999/10	Lab Control Sample	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 258999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-258999/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-90959-1 MS	DG-AL9W	Total/NA	Water	7196A	
720-90959-1 MSD	DG-AL9W	Total/NA	Water	7196A	

Client Sample ID: DG-AL9W

Lab Sample ID: 720-90959-1

Date Collected: 01/22/19 08:20

Matrix: Water

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	01/31/19 20:41	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	01/31/19 20:41	OH1	TAL IRV
Total/NA	Prep	3520C			524927	01/25/19 10:03	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	525323	01/28/19 16:08	L1B	TAL IRV
Total/NA	Prep	3510C			525296	01/28/19 09:49	HCK	TAL IRV
Total/NA	Analysis	8015B		1	525278	01/29/19 00:46	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 17:24	OBI	TAL PLS
Dissolved	Prep	7470A			259346	01/28/19 15:39	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259402	01/29/19 13:11	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258999	01/22/19 20:40	ECB	TAL PLS

Client Sample ID: DG-AE11W

Lab Sample ID: 720-90959-2

Date Collected: 01/22/19 13:30

Matrix: Water

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	01/31/19 21:57	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	01/31/19 21:57	OH1	TAL IRV
Total/NA	Prep	3520C			524927	01/25/19 10:03	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		10	525323	01/28/19 16:32	L1B	TAL IRV
Total/NA	Prep	3510C			525296	01/28/19 09:49	HCK	TAL IRV
Total/NA	Analysis	8015B		1	525278	01/28/19 20:49	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 17:29	OBI	TAL PLS
Dissolved	Prep	7470A			259346	01/28/19 15:39	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259402	01/29/19 13:14	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258999	01/22/19 20:40	ECB	TAL PLS

Client Sample ID: DG-AG11W

Lab Sample ID: 720-90959-3

Date Collected: 01/22/19 14:20

Matrix: Water

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	01/31/19 22:23	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	01/31/19 22:23	OH1	TAL IRV
Total/NA	Prep	3520C			524927	01/25/19 10:03	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		20	525323	01/28/19 16:57	L1B	TAL IRV
Total/NA	Prep	3510C			525296	01/28/19 09:49	HCK	TAL IRV
Total/NA	Analysis	8015B		1	525278	01/28/19 21:11	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 17:44	OBI	TAL PLS

Client Sample ID: DG-AG11W

Lab Sample ID: 720-90959-3

Date Collected: 01/22/19 14:20

Matrix: Water

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			259346	01/28/19 15:39	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259402	01/29/19 13:16	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258999	01/22/19 20:40	ECB	TAL PLS

Client Sample ID: DG-Y11W

Lab Sample ID: 720-90959-4

Date Collected: 01/22/19 10:40

Matrix: Water

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	01/31/19 22:48	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	01/31/19 22:48	OH1	TAL IRV
Total/NA	Prep	3520C			524927	01/25/19 10:03	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		10	525323	01/28/19 17:21	L1B	TAL IRV
Total/NA	Prep	3510C			525296	01/28/19 09:49	HCK	TAL IRV
Total/NA	Analysis	8015B		1	525278	01/28/19 21:32	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 17:49	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 12:49	OBI	TAL PLS
Dissolved	Prep	7470A			259346	01/28/19 15:39	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259402	01/29/19 13:18	MAG	TAL PLS
Total/NA	Analysis	7196A		1	258999	01/22/19 20:42	ECB	TAL PLS

Client Sample ID: FB-01.22.19

Lab Sample ID: 720-90959-5

Date Collected: 01/22/19 16:00

Matrix: Water

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525179	01/27/19 18:28	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525180	01/27/19 18:28	JB	TAL IRV

Client Sample ID: TB-01.22.19

Lab Sample ID: 720-90959-6

Date Collected: 01/22/19 16:00

Matrix: Water

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525179	01/27/19 18:56	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525180	01/27/19 18:56	JB	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Client Sample ID: TB-01.22.19-S
Date Collected: 01/22/19 16:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90959-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	02/01/19 05:35	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	02/01/19 05:35	OH1	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90959-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90959-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90959-1	DG-AL9W	Water	01/22/19 08:20	01/22/19 18:40
720-90959-2	DG-AE11W	Water	01/22/19 13:30	01/22/19 18:40
720-90959-3	DG-AG11W	Water	01/22/19 14:20	01/22/19 18:40
720-90959-4	DG-Y11W	Water	01/22/19 10:40	01/22/19 18:40
720-90959-5	FB-01.22.19	Water	01/22/19 16:00	01/22/19 18:40
720-90959-6	TB-01.22.19	Water	01/22/19 16:00	01/22/19 18:40
720-90959-7	TB-01.22.19-S	Water	01/22/19 16:00	01/22/19 18:40

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

720-90959

188045

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 22 JAN 2019	COC No 188045
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	2 weeks			
Project Name. Brisbane OU2 Investigation	1 week			
Site. Brisbane OU2	2 days			
P O # WG2619/ TA project # 72013947	1 day			

720-90959 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1. DG-AL9W	1/22/2019	0820	G	GW	9	Y	N	X	X	X	X	X	Metals and chromium samples filtered
2. ~~DG-AMHW~~ DG-AE11W	↓	1330	↓	↓	9	Y	N	↓	↓	↓	↓	↓	↓
3 DG-AG11W	↓	1420	↓	↓	9	Y	N	↓	↓	↓	↓	↓	↓
DG-Y11W	↓	1040	↓	↓	9	Y	N	↓	↓	↓	↓	↓	↓
FB 0122	↓	1600	↓	↓	2	Y	N	↓	↓	↓	↓	↓ (5)	↓
TB 0122	↓	1600	↓	↓	1	Y	N	↓	↓	↓	↓	↓ (5)	↓
TB-0122-2	↓	1600	↓	↓	1	Y	N	↓	↓	↓	↓	↓ (5)	

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd _____ Corr'd _____	Therm ID No. _____
Relinquished by	Company GEOSYN	Date/Time 1/22/2019 1630	Received by	Company TA-PLS Date/Time 1/22/19 1630
Relinquished by	Company TA-PLS	Date/Time 1/22/19 1840	Received by	Company Date/Time
Relinquished by	Company	Date/Time 1/22/19	Received in Laboratory by	Company TA-PLS Date/Time 1/22/19 1840

2.2/1.3/1.8/3.8 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/18/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 778645742613	COC No: 720-40919.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90959-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	O - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AL9W (720-90959-1)	1/22/19	08:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AE11W (720-90959-2)	1/22/19	13:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AG11W (720-90959-3)	1/22/19	14:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Y11W (720-90959-4)	1/22/19	10:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-0122 (720-90959-5)	1/22/19	16:00 Pacific		Water			X	X			2	check for 2 phases
TB-0122 (720-90959-6)	1/22/19	16:00 Pacific		Water			X	X			1	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/23/19 1259	TAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/24/19 9:45	Company TA-IRV

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4/1.8 IR93 05/0.9 IR-93

Ver: 09/20/2016

2/18/2019

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Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90959-1

Login Number: 90959
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90959-1

Login Number: 90959
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/24/19 12:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90959-1

Login Number: 90959
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/24/19 01:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90959-1

Login Number: 90959
List Number: 4
Creator: Escalante, Maria I

List Source: TestAmerica Irvine
List Creation: 02/05/19 10:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Friday, January 25, 2019 10:07 AM
To: Patel, Urvashi; Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith
Subject: RE: PLEASE READ-missing TB

-External Email-

Hi Urvashi,

Thanks for the reminder, yes please add it to job 720-90959.

Thank you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Friday, January 25, 2019 10:05 AM
To: Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: PLEASE READ-missing TB

Hi Miranda
Should we add this TB to job 720-90959?

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

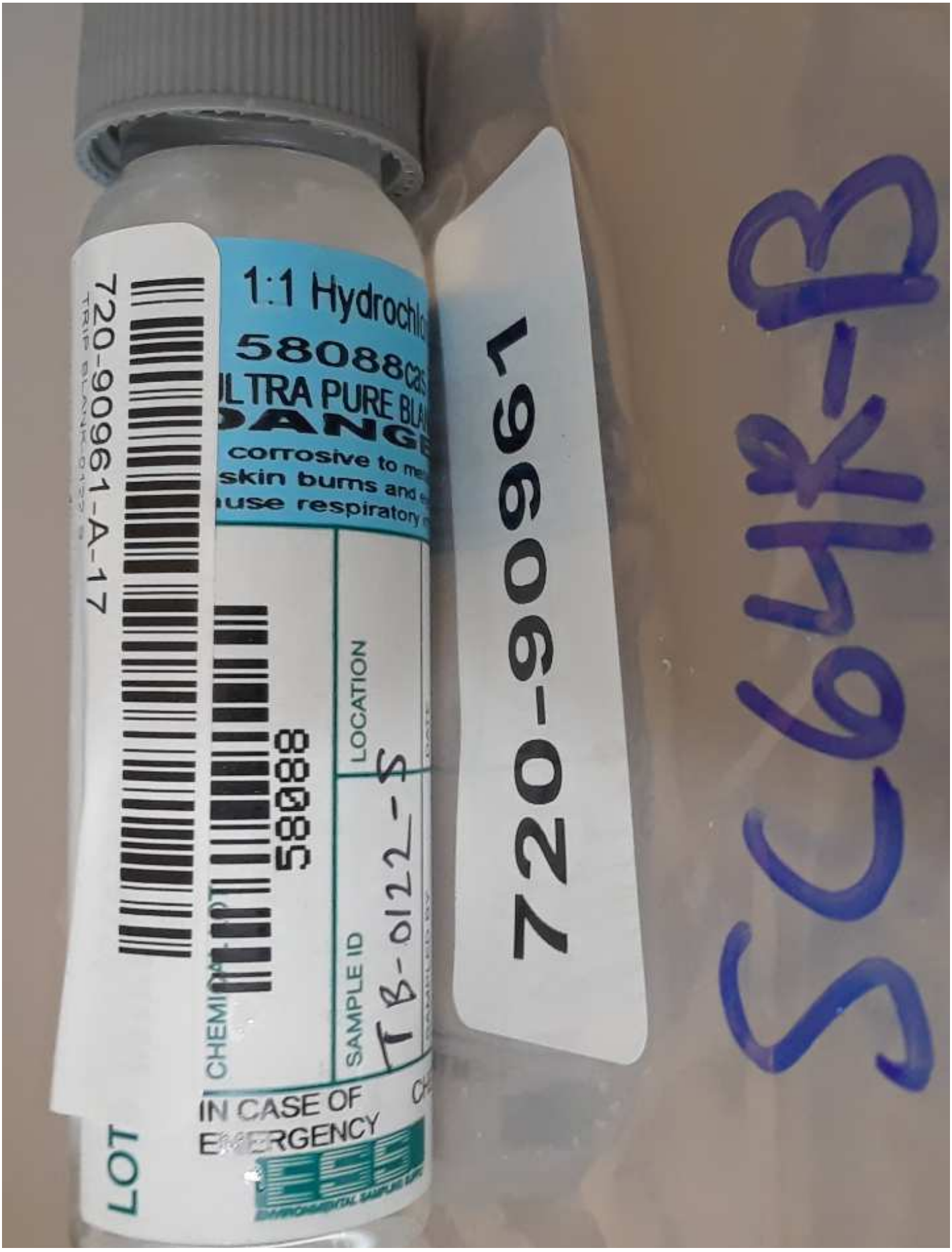
17461 Derian Ave, Suite #100

Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Patel, Urvashi
Sent: Thursday, January 24, 2019 1:44 PM
To: Bondoc, Christian M.; Bill Chen; Mr. Krys Jesionek; Miranda Kahrilas; Mr. Tony Smith
Subject: RE: PLEASE READ-missing TB

Miranda
The TB that was missing from job 90959 may have been submitted under 90961. Irvine received a TB that was not listed on the COC for 720-90961 (see below). How would you like us to proceed? Login under 90961 or 90959?


720-90961-A-17
TRIP BLANK 0122
1:1 Hydrochlo
58088
ULTRA PURE BLA
DANGE
corrosive to me
skin burns and
use respiratory
LOCATION
SAMPLE ID
TB-0122-S
IN CASE OF
EMERGENCY
LOT
720-90961
SCGHR-B

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bondoc, Christian M.
Sent: Wednesday, January 23, 2019 11:25 AM
To: Bill Chen; Mr. Krys Jesionek; Miranda Kahrilas; Mr. Tony Smith; Patel, Urvashi
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90959-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90959-1; Brisbane OU-2 Data Gap Investigation

Sample IDs were adjusted per project specific naming conventions.

Please note that sample TB-0122S was listed on the COC however no sample was received.
We will proceed with all other tests unless otherwise notified.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [497102]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90960-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/16/2019 4:35:33 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90960-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90960-1

Comments
No additional comments.

Receipt
The samples were received on 1/22/2019 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 1.8º C, 2.2º C and 3.8º C.

Metals
Method 7471A: The method blank for preparation batch 720-259166 and analytical batch 720-259511 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: : DG-AV12S-0.5-1 (720-90960-1), DG-AV12S-3.5-4 (720-90960-2), DG-AV12S-19.5-20 (720-90960-3), DG-AP14S-0.5-1 (720-90960-4), DG-AP14S-3.5-4 (720-90960-5), DG-AM14S-1-1.5 (720-90960-6), DG-AL14S-0.5-1 (720-90960-7), DG-AL14S-3.5-4 (720-90960-8), DG-AK14S-0.5-1 (720-90960-9), DG-AK14S-3.5-4 (720-90960-10), DG-AK16S-0.5-1 (720-90960-11), DG-AL16S-0.5-1 (720-90960-13), DG-AL15S-1-1.5 (720-90960-14), DG-AJ14S-0.5-1 (720-90960-15), DG-AJ14S-3.5-4 (720-90960-16), DG-AJ15S-0.5-1 (720-90960-17), DG-AJ15S-3.5-4 (720-90960-18), DG-AI16S-1-1.5 (720-90960-19), DG-AI17S-0.5-1 (720-90960-20), DG-AI17S-3.5-4 (720-90960-21), DG-AH15S-0.5-1 (720-90960-22), DG-AH16S-0.5-1 (720-90960-23), DG-AH16S-3.5-4 (720-90960-24), DUP-104 (720-90960-25), DUP-103 (720-90960-26), DUP-120 (720-90960-27), DG-AG16S-0.5-1 (720-90960-28) and DG-AG16S-3.5-4 (720-90960-29). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259167 and analytical batch 720-259583 contained Barium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259167 and analytical batch 720-259583 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259583 was outside control limits for Cobalt-14%, Chromium-11%, and Lead-13%: (720-90960-A-12-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AK16S-3.5-4 (720-90960-12), DG-AK16S-3.5-4 (720-90960-12[MS]), DG-AK16S-3.5-4 (720-90960-12[MSD]), (720-90960-A-12-F PDS) and (720-90960-A-12-F SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259583 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a “^” symbol .

Method 6010B: Internal standard responses were outside of acceptance limits for the following samples: (ICSA 720-259535/7) and (ICSAB 720-259535/8). The associated sample internal standard recoveries were all within limits.

Method 6010B: The method blank for preparation batch 720-259153 and analytical batch 720-259616 contained Silver, Nickel, Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259153 and analytical batch 720-259616 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Job ID: 720-90960-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The post digestion spike % recovery for Barium-157%, Beryllium-127%, Chromium- 132%,Copper-170%, Lead-126%, Vanadium-126%, Zinc-139% associated with batch 720-259616 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259616 was outside control limits for Arsenic-14%, Barium-18%, Cadmium-44%, Chromium-18%,Copper-17%, Vanadium-22%: (720-90956-A-9-H SD)

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target analyte recoveries passed criteria: (ICSA 720-259656/7) and (ICSAB 720-259656/8).

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259661 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 720-259661/5). Affected sample results for these compounds have been qualified with a “^” symbol .

Method 6010B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DG-AV12S-0.5-1 (720-90960-1) and DG-AP14S-3.5-4 (720-90960-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Client Sample ID: DG-AV12S-0.5-1 — Lab Sample ID: 720-90960-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.2		3.6	0.60	mg/Kg	10		6010B	Total/NA
Arsenic	21		7.2	0.62	mg/Kg	10		6010B	Total/NA
Barium	310		1.4	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.81		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.91	0.090	mg/Kg	10		6010B	Total/NA
Chromium	730		3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	19		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	180		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	230		3.6	0.76	mg/Kg	10		6010B	Total/NA
Molybdenum	3.5		1.4	0.19	mg/Kg	4		6010B	Total/NA
Nickel	55	B	3.6	0.37	mg/Kg	10		6010B	Total/NA
Selenium	1.7	J B	7.2	1.1	mg/Kg	10		6010B	Total/NA
Vanadium	55		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	750		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	0.60		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV12S-3.5-4 — Lab Sample ID: 720-90960-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.81	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	9.9		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	100		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.28	0.091	mg/Kg	4		6010B	Total/NA
Cadmium	0.095	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	70		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	48		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	6.3		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	48	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J B	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	0.17	J B	0.70	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	48		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.082		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV12S-19.5-20 — Lab Sample ID: 720-90960-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	9.3		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	150		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	51		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	35		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	6.7		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	48	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J B	2.4	0.36	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV12S-19.5-20 (Continued) — Lab Sample ID: 720-90960-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.22	J B	0.60	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	87		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP14S-0.5-1 — Lab Sample ID: 720-90960-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	96		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.24	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.16	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	50		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	27		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	42		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	33	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.83	J B	2.4	0.35	mg/Kg	4		6010B	Total/NA
Silver	0.23	J B	0.59	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	62		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.061		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP14S-3.5-4 — Lab Sample ID: 720-90960-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	73		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.32	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	42		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	5.5		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	69		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	12		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.63	J B	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	34		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.098		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM14S-1-1.5 — Lab Sample ID: 720-90960-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.50	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	5.4		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	47		1.5	0.21	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM14S-1-1.5 (Continued) — Lab Sample ID: 720-90960-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.12	J	0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	77		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	32		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	12		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	41	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	34		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.021		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL14S-0.5-1 — Lab Sample ID: 720-90960-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	61		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.86		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	53		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	30		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	5.1		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	4.3		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	38	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J B	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.48	J B	0.80	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	63		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.032		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL14S-3.5-4 — Lab Sample ID: 720-90960-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	3.7		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	80		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.10	J	0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	67		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	21		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	11		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	36	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.46	J B	2.9	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	35		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK14S-0.5-1 — Lab Sample ID: 720-90960-9

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK14S-0.5-1 (Continued) — Lab Sample ID: 720-90960-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.7		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	19		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	130		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	390		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	130		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	230		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	27	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.37	J B	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	330		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.29		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK14S-3.5-4 — Lab Sample ID: 720-90960-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.91	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	1.7	J	3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	110		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	42		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	42		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	11		1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	35	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J B	3.7	0.56	mg/Kg	4		6010B	Total/NA
Silver	0.24	J B	0.93	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	65		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.051		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK16S-0.5-1 — Lab Sample ID: 720-90960-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	63		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.25	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	63		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.0		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	21		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	50		1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	33	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.20	J B	0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	46		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	91		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK16S-3.5-4 — Lab Sample ID: 720-90960-12

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK16S-3.5-4 (Continued) — Lab Sample ID: 720-90960-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	F1	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	130	F2 B	1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.35		0.25	0.080	mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	48		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	25		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	49	F2 F1 B ^	1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.23	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	30		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.84	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Thallium	0.46	J	1.2	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	76	F1	3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.19	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL16S-0.5-1 — Lab Sample ID: 720-90960-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.4		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	5.9		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	150	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.30	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	160		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	49		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	390	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	4.9		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	44		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	3.4		0.80	0.16	mg/Kg	4		6010B	Total/NA
Thallium	17		1.6	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	320		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.14	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL15S-1-1.5 — Lab Sample ID: 720-90960-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.6		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	5.0		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	170	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.32		0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.63		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	230		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	57		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	87	B	1.1	0.23	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL15S-1-1.5 (Continued) — Lab Sample ID: 720-90960-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.18	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	36		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.64	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Thallium	17		1.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	250		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.28	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ14S-0.5-1 — Lab Sample ID: 720-90960-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	5.4		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	92	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.40		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	90		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	27		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	27	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	100		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.82	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Thallium	27		1.4	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	56		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.052	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ14S-3.5-4 — Lab Sample ID: 720-90960-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	2.0		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	80	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.20	0.066	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	56		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	6.1		0.40	0.040	mg/Kg	4		6010B	Total/NA
Copper	7.6		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	5.6	B	1.0	0.21	mg/Kg	4		6010B	Total/NA
Nickel	20		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	0.98	J	2.0	0.30	mg/Kg	4		6010B	Total/NA
Thallium	21		1.0	0.29	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	25		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.014	J B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ15S-0.5-1 — Lab Sample ID: 720-90960-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.3		1.7	0.28	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ15S-0.5-1 (Continued) — Lab Sample ID: 720-90960-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1	J	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	160	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	41		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	48		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	6.3	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	32		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Thallium	46		1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	71		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.057	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ15S-3.5-4 — Lab Sample ID: 720-90960-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	2.2	J	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	66	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.41		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	88		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	6.3		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	13		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	2.6	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	31		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Thallium	25		1.6	0.45	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	50		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.068	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI16S-1-1.5 — Lab Sample ID: 720-90960-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	0.89	J	2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	370	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	0.43		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	37		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	75		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	5.4	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	31		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Thallium	32		1.3	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	82		1.3	0.18	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AI16S-1-1.5 (Continued) — Lab Sample ID: 720-90960-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	57		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.16	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI17S-0.5-1 — Lab Sample ID: 720-90960-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.1		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	15		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	92	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	1.0		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.72		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	48		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	49		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	25	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	47		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Thallium	23		1.7	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	180		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.029	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI17S-3.5-4 — Lab Sample ID: 720-90960-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	9.1		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	26	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.94		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.94		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	36		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	59		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	230	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	37		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	3.4	0.52	mg/Kg	4		6010B	Total/NA
Thallium	14		1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	1500		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.19	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH15S-0.5-1 — Lab Sample ID: 720-90960-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	8.6		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	170	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.78		0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	0.44		0.38	0.038	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH15S-0.5-1 (Continued) — Lab Sample ID: 720-90960-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	37		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	38		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	62	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	35		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Thallium	23		1.5	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	73		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.28	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH16S-0.5-1 — Lab Sample ID: 720-90960-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	9.5		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	190	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.64		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.53		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	47		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	78		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	110	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	43		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	3.6	0.55	mg/Kg	4		6010B	Total/NA
Thallium	22		1.8	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	130		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.19	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH16S-3.5-4 — Lab Sample ID: 720-90960-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	5.8		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	70	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.66		0.22	0.072	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.28	0.027	mg/Kg	4		6010B	Total/NA
Chromium	37		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	26		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	32	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	21		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Thallium	20		1.1	0.32	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	95		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.075	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-104 — Lab Sample ID: 720-90960-25

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-104 (Continued) — Lab Sample ID: 720-90960-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	7.7		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	51	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.92		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.35		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	39		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	38		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	4.7	B	1.2	0.26	mg/Kg	4		6010B	Total/NA
Nickel	29		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	2.4	0.37	mg/Kg	4		6010B	Total/NA
Silver	0.18	J	0.61	0.12	mg/Kg	4		6010B	Total/NA
Thallium	22		1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	55		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	55		3.7	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.025	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-103 — Lab Sample ID: 720-90960-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.1		1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	17		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	99	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.85		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.86		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	180		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	94		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	76	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	33		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	2.4	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Thallium	25		1.5	0.45	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	210		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.47	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-120 — Lab Sample ID: 720-90960-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.3		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	9.8		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	130	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.25	0.080	mg/Kg	4		6010B	Total/NA
Cadmium	0.53		0.31	0.030	mg/Kg	4		6010B	Total/NA
Chromium	52		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	45		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	66	B	1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.16	J	1.2	0.16	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-120 (Continued) — Lab Sample ID: 720-90960-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	32		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Thallium	21		1.2	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	110		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.16	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG16S-0.5-1 — Lab Sample ID: 720-90960-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	6.5		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.89		0.26	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.35		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	37		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	32		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	18	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	35		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	2.2	J	2.6	0.38	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Thallium	21		1.3	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	58		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.065	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG16S-3.5-4 — Lab Sample ID: 720-90960-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	6.6		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	56	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	38		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	16		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	20	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	32		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.82	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Thallium	14		1.4	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	33		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.18	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV12S-0.5-1

Date Collected: 01/22/19 08:45
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2		3.6	0.60	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Arsenic	21		7.2	0.62	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Barium	310		1.4	0.21	mg/Kg		01/25/19 09:46	01/31/19 19:15	4
Beryllium	0.81		0.29	0.094	mg/Kg		01/25/19 09:46	01/31/19 19:15	4
Cadmium	1.1		0.91	0.090	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Chromium	730		3.6	0.38	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Cobalt	19		1.4	0.14	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Copper	180		11	5.2	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Lead	230		3.6	0.76	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Molybdenum	3.5		1.4	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:15	4
Nickel	55	B	3.6	0.37	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Selenium	1.7	J B	7.2	1.1	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Silver	ND		1.8	0.37	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Thallium	ND	^	3.6	1.1	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Vanadium	55		3.6	0.49	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Zinc	750		11	4.6	mg/Kg		01/25/19 09:46	02/01/19 12:14	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.60		0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.2		0.1	0.05	%			01/24/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Client Sample ID: DG-AV12S-3.5-4

Date Collected: 01/22/19 08:45
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.81	J	1.4	0.23	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Arsenic	9.9		2.8	0.24	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Barium	100		1.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Beryllium	0.40		0.28	0.091	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Cadmium	0.095	J	0.35	0.035	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Chromium	70		1.4	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Cobalt	8.7		0.56	0.056	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Copper	48		4.2	2.0	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Lead	6.3		1.4	0.29	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Nickel	48	B	1.4	0.14	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Selenium	0.54	J B	2.8	0.42	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Silver	0.17	J B	0.70	0.14	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Thallium	ND		1.4	0.41	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Vanadium	74		1.4	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Zinc	48		4.2	1.8	mg/Kg		01/25/19 09:46	01/31/19 19:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.082		0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.7		0.1	0.05	%			01/24/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Client Sample ID: DG-AV12S-19.5-20
Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-3
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.2	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Arsenic	9.3		2.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Barium	150		1.2	0.17	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Beryllium	0.46		0.24	0.078	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Cadmium	0.21	J	0.30	0.030	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Chromium	51		1.2	0.13	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Cobalt	22		0.48	0.048	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Copper	35		3.6	1.7	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Lead	6.7		1.2	0.25	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Molybdenum	0.19	J	1.2	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Nickel	48	B	1.2	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Selenium	1.2	J B	2.4	0.36	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Silver	0.22	J B	0.60	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Thallium	ND		1.2	0.35	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Vanadium	67		1.2	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Zinc	87		3.6	1.5	mg/Kg		01/25/19 09:46	01/31/19 19:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.2		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AP14S-0.5-1

Date Collected: 01/22/19 09:45
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.2	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Arsenic	11		2.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Barium	96		1.2	0.17	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Beryllium	0.49		0.24	0.076	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Cadmium	0.16	J	0.29	0.029	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Chromium	50		1.2	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Cobalt	9.8		0.47	0.047	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Copper	27		3.5	1.7	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Lead	42		1.2	0.25	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Molybdenum	0.20	J	1.2	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Nickel	33	B	1.2	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Selenium	0.83	J B	2.4	0.35	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Silver	0.23	J B	0.59	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Thallium	ND		1.2	0.34	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Vanadium	51		1.2	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Zinc	62		3.5	1.5	mg/Kg		01/25/19 09:46	01/31/19 19:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.015	0.0021	mg/Kg		01/30/19 10:38	01/30/19 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AP14S-3.5-4

Date Collected: 01/22/19 09:45
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.8	0.30	mg/Kg		01/25/19 09:46	02/01/19 12:18	4
Arsenic	16		3.6	0.31	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Barium	73		1.8	0.26	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Beryllium	0.32	J	0.36	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Cadmium	0.13	J	0.45	0.045	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Chromium	42		1.8	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Cobalt	5.5		0.72	0.072	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Copper	69		5.4	2.6	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Lead	12		1.8	0.38	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Molybdenum	0.27	J	1.8	0.23	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Nickel	24	B	1.8	0.18	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Selenium	0.63	J B	3.6	0.54	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Silver	ND		0.90	0.18	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Thallium	ND		1.8	0.52	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Vanadium	59		1.8	0.25	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Zinc	34		5.4	2.3	mg/Kg		01/25/19 09:46	01/31/19 19:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.098		0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.0		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AM14S-1-1.5

Date Collected: 01/22/19 10:05
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.5	0.25	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Arsenic	5.4		3.0	0.26	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Barium	47		1.5	0.21	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Beryllium	ND		0.30	0.098	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Cadmium	0.12	J	0.38	0.037	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Chromium	77		1.5	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Cobalt	9.3		0.60	0.060	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Copper	32		4.5	2.1	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Lead	12		1.5	0.32	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Molybdenum	ND		1.5	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Nickel	41	B	1.5	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Selenium	ND		3.0	0.45	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Silver	ND		0.75	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Thallium	ND		1.5	0.44	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Vanadium	60		1.5	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Zinc	34		4.5	1.9	mg/Kg		01/25/19 09:46	01/31/19 19:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AL14S-0.5-1

Date Collected: 01/22/19 10:15
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.6	0.27	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Arsenic	13		3.2	0.27	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Barium	61		1.6	0.23	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Beryllium	0.86		0.32	0.10	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Cadmium	0.19	J	0.40	0.040	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Chromium	53		1.6	0.17	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Cobalt	17		0.64	0.064	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Copper	30		4.8	2.3	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Lead	5.1		1.6	0.34	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Molybdenum	4.3		1.6	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Nickel	38	B	1.6	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Selenium	1.3	J B	3.2	0.48	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Silver	0.48	J B	0.80	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Thallium	ND		1.6	0.46	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Vanadium	57		1.6	0.22	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Zinc	63		4.8	2.0	mg/Kg		01/25/19 09:46	01/31/19 19:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.015	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AL14S-3.5-4

Date Collected: 01/22/19 10:15
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.4	0.24	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Arsenic	3.7		2.9	0.24	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Barium	80		1.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Beryllium	0.10	J	0.29	0.093	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Cadmium	0.14	J	0.36	0.035	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Chromium	67		1.4	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Cobalt	8.8		0.57	0.057	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Copper	21		4.3	2.0	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Lead	11		1.4	0.30	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Nickel	36	B	1.4	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Selenium	0.46	J B	2.9	0.43	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Silver	ND		0.71	0.14	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Thallium	ND		1.4	0.41	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Vanadium	62		1.4	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Zinc	35		4.3	1.8	mg/Kg		01/25/19 09:46	01/31/19 19:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AK14S-0.5-1

Date Collected: 01/22/19 10:50
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7		1.4	0.23	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Arsenic	19		2.8	0.23	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Barium	130		1.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Beryllium	ND		0.28	0.090	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Cadmium	1.0		0.34	0.034	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Chromium	390		1.4	0.15	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Cobalt	8.8		0.55	0.055	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Copper	130		4.1	2.0	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Lead	230		1.4	0.29	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Nickel	27	B	1.4	0.14	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Selenium	ND		2.8	0.41	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Silver	0.37	J B	0.69	0.14	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Thallium	ND		1.4	0.40	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Vanadium	59		1.4	0.19	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Zinc	330		4.1	1.8	mg/Kg		01/25/19 09:46	01/31/19 20:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.016	0.0024	mg/Kg		01/30/19 10:38	01/30/19 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.05	%			01/24/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Client Sample ID: DG-AK14S-3.5-4

Date Collected: 01/22/19 10:50
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.91	J	1.9	0.31	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Arsenic	1.7	J	3.7	0.32	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Barium	110		1.9	0.27	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Beryllium	ND		0.37	0.12	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Cadmium	0.24	J	0.47	0.046	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Chromium	42		1.9	0.20	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Cobalt	22		0.75	0.075	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Copper	42		5.6	2.7	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Lead	11		1.9	0.39	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Nickel	35	B	1.9	0.19	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Selenium	1.2	J B	3.7	0.56	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Silver	0.24	J B	0.93	0.19	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Thallium	ND		1.9	0.54	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Vanadium	120		1.9	0.25	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Zinc	65		5.6	2.4	mg/Kg		01/25/19 09:46	01/31/19 20:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.2		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AK16S-0.5-1

Date Collected: 01/22/19 11:35
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.29	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Arsenic	**4.5**		3.5	0.30	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Barium	**63**		1.8	0.25	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Beryllium	ND		0.35	0.12	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Cadmium	**0.25**	**J**	0.44	0.044	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Chromium	**63**		1.8	0.19	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Cobalt	**7.0**		0.71	0.071	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Copper	**21**		5.3	2.5	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Lead	**50**		1.8	0.37	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Nickel	**33**	**B**	1.8	0.18	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Selenium	ND		3.5	0.53	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Silver	**0.20**	**J B**	0.88	0.18	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Thallium	ND		1.8	0.51	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Vanadium	**46**		1.8	0.24	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Zinc	**91**		5.3	2.2	mg/Kg		01/25/19 09:46	01/31/19 20:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.015	0.0023	mg/Kg		01/30/19 10:38	01/30/19 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AK16S-3.5-4

Date Collected: 01/22/19 11:35
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	F1	1.2	0.20	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Arsenic	11		2.5	0.21	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Barium	130	F2 B	1.2	0.18	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Beryllium	0.35		0.25	0.080	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Cadmium	0.46		0.31	0.031	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Chromium	48		1.2	0.13	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Cobalt	13		0.49	0.049	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Copper	25		3.7	1.8	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Lead	49	F2 F1 B ^	1.2	0.26	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Molybdenum	0.23	J	1.2	0.16	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Nickel	30		1.2	0.13	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Selenium	0.84	J	2.5	0.37	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Silver	ND		0.62	0.12	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Thallium	0.46	J	1.2	0.36	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Vanadium	49		1.2	0.17	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Zinc	76	F1	3.7	1.6	mg/Kg		01/26/19 11:54	01/31/19 14:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.016	0.0024	mg/Kg		01/30/19 10:38	01/30/19 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AL16S-0.5-1

Date Collected: 01/22/19 11:50
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.4		1.6	0.27	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Arsenic	5.9		3.2	0.27	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Barium	150	B	1.6	0.23	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Beryllium	0.30	J	0.32	0.10	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Cadmium	1.5		0.40	0.040	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Chromium	160		1.6	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Cobalt	9.8		0.64	0.064	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Copper	49		4.8	2.3	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Lead	390	B	1.6	0.34	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Molybdenum	4.9		1.6	0.20	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Nickel	44		1.6	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Selenium	1.2	J	3.2	0.48	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Silver	3.4		0.80	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Thallium	17		1.6	0.46	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Vanadium	44		1.6	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Zinc	320		4.8	2.0	mg/Kg		01/26/19 11:54	02/06/19 23:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14	B	0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.6		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AL15S-1-1.5

Date Collected: 01/22/19 11:55
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.6		1.1	0.19	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Arsenic	5.0		2.2	0.19	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Barium	170	B	1.1	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Beryllium	0.32		0.22	0.073	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Cadmium	0.63		0.28	0.028	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Chromium	230		1.1	0.12	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Cobalt	9.2		0.45	0.045	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Copper	57		3.4	1.6	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Lead	87	B	1.1	0.23	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Molybdenum	0.18	J	1.1	0.14	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Nickel	36		1.1	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Selenium	0.64	J	2.2	0.34	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Silver	ND		0.56	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Thallium	17		1.1	0.32	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Vanadium	45		1.1	0.15	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Zinc	250		3.4	1.4	mg/Kg		01/26/19 11:54	02/06/19 23:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28	B	0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AJ14S-0.5-1

Date Collected: 01/22/19 13:15
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.4	0.24	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Arsenic	5.4		2.9	0.24	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Barium	92	B	1.4	0.20	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Beryllium	0.41		0.29	0.094	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Cadmium	0.40		0.36	0.036	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Chromium	90		1.4	0.15	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Cobalt	15		0.58	0.058	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Copper	27		4.3	2.0	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Lead	27	B	1.4	0.30	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Nickel	100		1.4	0.15	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Selenium	0.82	J	2.9	0.43	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Silver	ND		0.72	0.15	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Thallium	27		1.4	0.42	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Vanadium	69		1.4	0.20	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Zinc	56		4.3	1.8	mg/Kg		01/26/19 11:54	02/06/19 23:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052	B	0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			01/24/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Client Sample ID: DG-AJ14S-3.5-4
Date Collected: 01/22/19 13:15
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-16
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.0	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Arsenic	2.0		2.0	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Barium	80	B	1.0	0.14	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Beryllium	0.17	J	0.20	0.066	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Cadmium	0.18	J	0.25	0.025	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Chromium	56		1.0	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Cobalt	6.1		0.40	0.040	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Copper	7.6		3.0	1.4	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Lead	5.6	B	1.0	0.21	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Molybdenum	ND		1.0	0.13	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Nickel	20		1.0	0.10	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Selenium	0.98	J	2.0	0.30	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Silver	ND		0.51	0.10	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Thallium	21		1.0	0.29	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Vanadium	54		1.0	0.14	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Zinc	25		3.0	1.3	mg/Kg		01/26/19 11:54	02/06/19 23:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J B	0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AJ15S-0.5-1

Date Collected: 01/22/19 13:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.3		1.7	0.28	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Arsenic	3.1	J	3.4	0.29	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Barium	160	B	1.7	0.24	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Beryllium	0.40		0.34	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Cadmium	0.46		0.43	0.042	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Chromium	41		1.7	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Cobalt	22		0.68	0.068	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Copper	48		5.1	2.4	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Lead	6.3	B	1.7	0.36	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Nickel	32		1.7	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Selenium	2.1	J	3.4	0.51	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Silver	ND		0.85	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Thallium	46		1.7	0.50	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Vanadium	120		1.7	0.23	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Zinc	71		5.1	2.2	mg/Kg		01/26/19 11:54	02/06/19 23:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057	B	0.015	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.1	0.05	%			01/24/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Client Sample ID: DG-AJ15S-3.5-4
Date Collected: 01/22/19 13:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-18
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.6	0.26	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Arsenic	2.2	J	3.1	0.26	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Barium	66	B	1.6	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Beryllium	0.21	J	0.31	0.10	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Cadmium	0.41		0.39	0.038	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Chromium	88		1.6	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Cobalt	6.3		0.62	0.062	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Copper	13		4.7	2.2	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Lead	2.6	B	1.6	0.33	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Nickel	31		1.6	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Selenium	1.1	J	3.1	0.47	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Silver	ND		0.78	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Thallium	25		1.6	0.45	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Vanadium	64		1.6	0.21	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Zinc	50		4.7	2.0	mg/Kg		01/26/19 11:54	02/06/19 23:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068	B	0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AI16S-1-1.5

Date Collected: 01/22/19 13:50
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.3	0.21	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Arsenic	0.89	J	2.6	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Barium	370	B	1.3	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Beryllium	0.49		0.26	0.084	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Cadmium	0.43		0.32	0.032	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Chromium	37		1.3	0.14	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Cobalt	16		0.52	0.052	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Copper	75		3.9	1.8	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Lead	5.4	B	1.3	0.27	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Molybdenum	ND		1.3	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Nickel	31		1.3	0.13	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Selenium	1.8	J	2.6	0.39	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Silver	ND		0.65	0.13	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Thallium	32		1.3	0.37	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Vanadium	82		1.3	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Zinc	57		3.9	1.6	mg/Kg		01/26/19 11:54	02/06/19 23:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	B	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AI17S-0.5-1

Date Collected: 01/22/19 14:10
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.1		1.7	0.28	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Arsenic	15		3.4	0.29	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Barium	92	B	1.7	0.24	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Beryllium	1.0		0.34	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Cadmium	0.72		0.42	0.042	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Chromium	48		1.7	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Cobalt	18		0.68	0.068	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Copper	49		5.1	2.4	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Lead	25	B	1.7	0.36	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Molybdenum	0.26	J	1.7	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Nickel	47		1.7	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Selenium	2.3	J	3.4	0.51	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Silver	ND		0.85	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Thallium	23		1.7	0.49	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Vanadium	59		1.7	0.23	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Zinc	180		5.1	2.2	mg/Kg		01/26/19 11:54	02/06/19 23:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	B	0.015	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AI17S-3.5-4

Date Collected: 01/22/19 14:10
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.7	0.29	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Arsenic	9.1		3.4	0.29	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Barium	26	B	1.7	0.24	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Beryllium	0.94		0.34	0.11	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Cadmium	0.94		0.43	0.043	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Chromium	36		1.7	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Cobalt	19		0.69	0.069	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Copper	59		5.2	2.5	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Lead	230	B	1.7	0.36	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Nickel	37		1.7	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Selenium	2.0	J	3.4	0.52	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Silver	ND		0.86	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Thallium	14		1.7	0.50	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Vanadium	37		1.7	0.23	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Zinc	1500		5.2	2.2	mg/Kg		01/26/19 11:54	02/07/19 00:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.4		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AH15S-0.5-1

Date Collected: 01/22/19 14:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.5	0.25	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Arsenic	8.6		3.1	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Barium	170	B	1.5	0.22	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Beryllium	0.78		0.31	0.099	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Cadmium	0.44		0.38	0.038	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Chromium	37		1.5	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Cobalt	13		0.61	0.061	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Copper	38		4.6	2.2	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Lead	62	B	1.5	0.32	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Molybdenum	ND		1.5	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Nickel	35		1.5	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Selenium	1.6	J	3.1	0.46	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Silver	ND		0.76	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Thallium	23		1.5	0.44	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Vanadium	59		1.5	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Zinc	73		4.6	1.9	mg/Kg		01/26/19 11:54	02/07/19 00:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28	B	0.016	0.0024	mg/Kg		01/30/19 10:38	01/30/19 16:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AH16S-0.5-1

Date Collected: 01/22/19 14:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.8	0.30	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Arsenic	9.5		3.6	0.31	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Barium	190	B	1.8	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Beryllium	0.64		0.36	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Cadmium	0.53		0.45	0.045	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Chromium	47		1.8	0.19	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Cobalt	13		0.73	0.073	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Copper	78		5.5	2.6	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Lead	110	B	1.8	0.38	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Nickel	43		1.8	0.19	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Selenium	2.3	J	3.6	0.55	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Silver	ND		0.91	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Thallium	22		1.8	0.53	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Vanadium	56		1.8	0.25	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Zinc	130		5.5	2.3	mg/Kg		01/26/19 11:54	02/07/19 00:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.4		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AH16S-3.5-4

Date Collected: 01/22/19 14:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.1	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Arsenic	5.8		2.2	0.19	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Barium	70	B	1.1	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Beryllium	0.66		0.22	0.072	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Cadmium	0.20	J	0.28	0.027	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Chromium	37		1.1	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Cobalt	7.5		0.44	0.044	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Copper	26		3.3	1.6	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Lead	32	B	1.1	0.23	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Nickel	21		1.1	0.11	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Selenium	1.4	J	2.2	0.33	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Silver	ND		0.55	0.11	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Thallium	20		1.1	0.32	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Vanadium	50		1.1	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Zinc	95		3.3	1.4	mg/Kg		01/26/19 11:54	02/07/19 00:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075	B	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 16:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.0		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DUP-104

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.2	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Arsenic	7.7		2.4	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Barium	51	B	1.2	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Beryllium	0.92		0.24	0.079	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Cadmium	0.35		0.30	0.030	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Chromium	39		1.2	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Cobalt	14		0.49	0.049	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Copper	38		3.7	1.7	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Lead	4.7	B	1.2	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Molybdenum	ND		1.2	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Nickel	29		1.2	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Selenium	2.0	J	2.4	0.37	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Silver	0.18	J	0.61	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Thallium	22		1.2	0.35	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Vanadium	55		1.2	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Zinc	55		3.7	1.5	mg/Kg		01/26/19 11:54	02/07/19 00:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025	B	0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DUP-103

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.1		1.5	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Arsenic	17		3.1	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Barium	99	B	1.5	0.22	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Beryllium	0.85		0.31	0.10	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Cadmium	0.86		0.38	0.038	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Chromium	180		1.5	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Cobalt	14		0.62	0.062	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Copper	94		4.6	2.2	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Lead	76	B	1.5	0.32	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Molybdenum	0.40	J	1.5	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Nickel	33		1.5	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Selenium	2.4	J	3.1	0.46	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Silver	ND		0.77	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Thallium	25		1.5	0.45	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Vanadium	63		1.5	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Zinc	210		4.6	2.0	mg/Kg		01/26/19 11:54	02/07/19 00:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.47	B	0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 16:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DUP-120

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.3		1.2	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Arsenic	9.8		2.5	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Barium	130	B	1.2	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Beryllium	0.50		0.25	0.080	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Cadmium	0.53		0.31	0.030	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Chromium	52		1.2	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Cobalt	16		0.49	0.049	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Copper	45		3.7	1.7	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Lead	66	B	1.2	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Molybdenum	0.16	J	1.2	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Nickel	32		1.2	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Selenium	1.6	J	2.5	0.37	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Silver	ND		0.61	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Thallium	21		1.2	0.36	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Vanadium	53		1.2	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Zinc	110		3.7	1.6	mg/Kg		01/26/19 11:54	02/07/19 00:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	B	0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.5		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AG16S-0.5-1

Date Collected: 01/22/19 15:10
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1		1.3	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Arsenic	6.5		2.6	0.22	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Barium	110	B	1.3	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Beryllium	0.89		0.26	0.083	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Cadmium	0.35		0.32	0.032	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Chromium	37		1.3	0.14	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Cobalt	15		0.51	0.051	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Copper	32		3.8	1.8	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Lead	18	B	1.3	0.27	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Molybdenum	0.20	J	1.3	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Nickel	35		1.3	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Selenium	2.2	J	2.6	0.38	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Silver	0.17	J	0.64	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Thallium	21		1.3	0.37	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Vanadium	54		1.3	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Zinc	58		3.8	1.6	mg/Kg		01/26/19 11:54	02/07/19 00:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065	B	0.016	0.0024	mg/Kg		01/30/19 10:38	01/30/19 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AG16S-3.5-4

Date Collected: 01/22/19 15:10
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.4	0.24	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Arsenic	6.6		2.9	0.24	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Barium	56	B	1.4	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Beryllium	0.21	J	0.29	0.094	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Cadmium	0.22	J	0.36	0.036	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Chromium	38		1.4	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Cobalt	8.2		0.58	0.058	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Copper	16		4.3	2.0	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Lead	20	B	1.4	0.30	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Nickel	32		1.4	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Selenium	0.82	J	2.9	0.43	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Silver	ND		0.72	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Thallium	14		1.4	0.42	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Vanadium	35		1.4	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Zinc	33		4.3	1.8	mg/Kg		01/26/19 11:54	02/07/19 00:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18	B	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.7		0.1	0.05	%			01/24/19 14:24	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259153/1-A
Matrix: Solid
Analysis Batch: 259616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Arsenic	ND		1.0	0.085	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Barium	ND		0.50	0.071	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Beryllium	ND		0.10	0.033	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Cadmium	ND		0.13	0.012	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Chromium	ND		0.50	0.053	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Cobalt	ND		0.20	0.020	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Copper	ND		1.5	0.71	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Lead	ND		0.50	0.11	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Nickel	0.0946	J	0.50	0.051	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Selenium	0.218	J	1.0	0.15	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Silver	0.0532	J	0.25	0.051	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Thallium	ND		0.50	0.15	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Vanadium	ND		0.50	0.068	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Zinc	ND		1.5	0.64	mg/Kg		01/25/19 09:46	01/31/19 17:54	1

Lab Sample ID: LCS 720-259153/2-A
Matrix: Solid
Analysis Batch: 259616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.1		mg/Kg		100	80 - 120
Arsenic	50.0	49.6		mg/Kg		99	80 - 120
Barium	50.0	50.4		mg/Kg		101	80 - 120
Beryllium	50.0	52.4		mg/Kg		105	80 - 120
Cadmium	50.0	53.6		mg/Kg		107	80 - 120
Chromium	50.0	51.5		mg/Kg		103	80 - 120
Cobalt	50.0	54.9		mg/Kg		110	80 - 120
Copper	50.0	51.2		mg/Kg		102	80 - 120
Lead	50.0	53.7		mg/Kg		107	80 - 120
Molybdenum	50.0	51.1		mg/Kg		102	80 - 120
Nickel	50.0	53.4		mg/Kg		107	80 - 120
Selenium	50.0	51.0		mg/Kg		102	80 - 120
Silver	25.0	24.2		mg/Kg		97	80 - 120
Thallium	50.0	53.0		mg/Kg		106	80 - 120
Vanadium	50.0	50.4		mg/Kg		101	80 - 120
Zinc	50.0	52.7		mg/Kg		105	80 - 120

Lab Sample ID: 720-90956-A-9-F MS
Matrix: Solid
Analysis Batch: 259616

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.2	F1	45.0	18.2	F1	mg/Kg		31	75 - 125
Arsenic	49	F1	45.0	108	F1	mg/Kg		131	75 - 125
Barium	200		45.0	330	4	mg/Kg		280	75 - 125
Beryllium	0.40	F1	45.0	62.6	F1	mg/Kg		138	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90956-A-9-F MS
Matrix: Solid
Analysis Batch: 259616

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	3.4	F1	45.0	60.0	F1	mg/Kg		126	75 - 125
Chromium	110	F1	45.0	127	F1	mg/Kg		43	75 - 125
Cobalt	16	F1	45.0	74.8	F1	mg/Kg		132	75 - 125
Copper	410		45.0	428	4	mg/Kg		32	75 - 125
Lead	190		45.0	202	4	mg/Kg		28	75 - 125
Molybdenum	3.3		45.0	51.6		mg/Kg		107	75 - 125
Nickel	68	B	45.0	114		mg/Kg		102	75 - 125
Selenium	8.2	B F1 F2	45.0	55.1		mg/Kg		104	75 - 125
Silver	1.8	B	22.5	29.5		mg/Kg		123	75 - 125
Thallium	0.64	J	45.0	52.1		mg/Kg		114	75 - 125
Vanadium	51	F1	45.0	124	F1	mg/Kg		162	75 - 125
Zinc	470		45.0	523	4	mg/Kg		106	75 - 125

Lab Sample ID: 720-90956-A-9-G MSD
Matrix: Solid
Analysis Batch: 259616

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259153

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.2	F1	45.0	15.5	F1	mg/Kg		25	75 - 125	16	20
Arsenic	49	F1	45.0	92.0		mg/Kg		95	75 - 125	16	20
Barium	200		45.0	340	4	mg/Kg		301	75 - 125	3	20
Beryllium	0.40	F1	45.0	58.5	F1	mg/Kg		129	75 - 125	7	20
Cadmium	3.4	F1	45.0	58.2		mg/Kg		122	75 - 125	3	20
Chromium	110	F1	45.0	129	F1	mg/Kg		47	75 - 125	1	20
Cobalt	16	F1	45.0	72.5	F1	mg/Kg		126	75 - 125	3	20
Copper	410		45.0	490	4	mg/Kg		170	75 - 125	14	20
Lead	190		45.0	237	4	mg/Kg		106	75 - 125	16	20
Molybdenum	3.3		45.0	49.8		mg/Kg		103	75 - 125	4	20
Nickel	68	B	45.0	121		mg/Kg		117	75 - 125	6	20
Selenium	8.2	B F1 F2	45.0	135	F1 F2	mg/Kg		282	75 - 125	84	20
Silver	1.8	B	22.5	29.1		mg/Kg		121	75 - 125	1	20
Thallium	0.64	J	45.0	49.7		mg/Kg		109	75 - 125	5	20
Vanadium	51	F1	45.0	121	F1	mg/Kg		155	75 - 125	3	20
Zinc	470		45.0	572	4	mg/Kg		215	75 - 125	9	20

Lab Sample ID: MB 720-259167/1-A
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Arsenic	ND		1.0	0.085	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Barium	0.165	J	0.50	0.071	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Beryllium	ND		0.10	0.033	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Cadmium	ND		0.13	0.012	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Chromium	ND		0.50	0.053	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Cobalt	ND		0.20	0.020	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Copper	ND		1.5	0.71	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Lead	0.247	J	0.50	0.11	mg/Kg		01/26/19 11:54	01/31/19 14:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259167/1-A
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Nickel	ND		0.50	0.051	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Selenium	ND		1.0	0.15	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Silver	ND		0.25	0.051	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Thallium	ND		0.50	0.15	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Vanadium	ND		0.50	0.068	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Zinc	ND		1.5	0.64	mg/Kg		01/26/19 11:54	01/31/19 14:23	1

Lab Sample ID: LCS 720-259167/2-A
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.4		mg/Kg		97	80 - 120
Arsenic	50.0	48.2		mg/Kg		96	80 - 120
Barium	50.0	45.6		mg/Kg		91	80 - 120
Beryllium	50.0	45.5		mg/Kg		91	80 - 120
Cadmium	50.0	50.6		mg/Kg		101	80 - 120
Chromium	50.0	49.6		mg/Kg		99	80 - 120
Cobalt	50.0	51.3		mg/Kg		103	80 - 120
Copper	50.0	49.1		mg/Kg		98	80 - 120
Lead	50.0	52.4		mg/Kg		105	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	52.3		mg/Kg		105	80 - 120
Selenium	50.0	49.4		mg/Kg		99	80 - 120
Silver	25.0	24.4		mg/Kg		98	80 - 120
Thallium	50.0	51.9		mg/Kg		104	80 - 120
Vanadium	50.0	49.4		mg/Kg		99	80 - 120
Zinc	50.0	51.2		mg/Kg		102	80 - 120

Lab Sample ID: 720-90960-12 MS
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: DG-AK16S-3.5-4
Prep Type: Total/NA
Prep Batch: 259167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.2	F1	31.1	9.22	F1	mg/Kg		26	75 - 125
Arsenic	11		31.1	36.2		mg/Kg		82	75 - 125
Barium	130	F2 B	31.1	130	4	mg/Kg		2	75 - 125
Beryllium	0.35		31.1	28.6		mg/Kg		91	75 - 125
Cadmium	0.46		31.1	30.0		mg/Kg		95	75 - 125
Chromium	48		31.1	77.5		mg/Kg		94	75 - 125
Cobalt	13		31.1	42.9		mg/Kg		96	75 - 125
Copper	25		31.1	53.9		mg/Kg		95	75 - 125
Lead	49	F2 F1 B ^	31.1	70.0	F1	mg/Kg		68	75 - 125
Molybdenum	0.23	J	31.1	25.0		mg/Kg		80	75 - 125
Nickel	30		31.1	59.7		mg/Kg		94	75 - 125
Selenium	0.84	J	31.1	27.6		mg/Kg		86	75 - 125
Silver	ND		15.5	15.5		mg/Kg		100	75 - 125
Thallium	0.46	J	31.1	29.9		mg/Kg		95	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90960-12 MS
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: DG-AK16S-3.5-4
Prep Type: Total/NA
Prep Batch: 259167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	49		31.1	80.5		mg/Kg		100	75 - 125
Zinc	76	F1	31.1	96.6	F1	mg/Kg		65	75 - 125

Lab Sample ID: 720-90960-12 MSD
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: DG-AK16S-3.5-4
Prep Type: Total/NA
Prep Batch: 259167

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.2	F1	31.1	9.80	F1	mg/Kg		28	75 - 125	6	20
Arsenic	11		31.1	38.8		mg/Kg		90	75 - 125	7	20
Barium	130	F2 B	31.1	229	4 F2	mg/Kg		319	75 - 125	55	20
Beryllium	0.35		31.1	29.7		mg/Kg		94	75 - 125	4	20
Cadmium	0.46		31.1	30.6		mg/Kg		97	75 - 125	2	20
Chromium	48		31.1	82.0		mg/Kg		108	75 - 125	6	20
Cobalt	13		31.1	42.1		mg/Kg		94	75 - 125	2	20
Copper	25		31.1	56.8		mg/Kg		104	75 - 125	5	20
Lead	49	F2 F1 B ^	31.1	103	F1 F2	mg/Kg		175	75 - 125	38	20
Molybdenum	0.23	J	31.1	25.7		mg/Kg		82	75 - 125	3	20
Nickel	30		31.1	60.0		mg/Kg		95	75 - 125	0	20
Selenium	0.84	J	31.1	28.6		mg/Kg		89	75 - 125	3	20
Silver	ND		15.5	15.4		mg/Kg		99	75 - 125	1	20
Thallium	0.46	J	31.1	30.6		mg/Kg		97	75 - 125	2	20
Vanadium	49		31.1	79.9		mg/Kg		98	75 - 125	1	20
Zinc	76	F1	31.1	110		mg/Kg		110	75 - 125	13	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259152/1-A
Matrix: Solid
Analysis Batch: 259510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259152

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 13:58	1

Lab Sample ID: LCS 720-259152/2-A
Matrix: Solid
Analysis Batch: 259510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.743		mg/Kg		89	80 - 120

Lab Sample ID: MB 720-259166/1-A
Matrix: Solid
Analysis Batch: 259511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259166

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0123	J	0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 15:26	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-259166/2-A
Matrix: Solid
Analysis Batch: 259511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.762		mg/Kg		91	80 - 120

Lab Sample ID: 720-90960-12 MS
Matrix: Solid
Analysis Batch: 259511

Client Sample ID: DG-AK16S-3.5-4
Prep Type: Total/NA
Prep Batch: 259166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.19	B	0.794	0.834		mg/Kg		81	75 - 125

Lab Sample ID: 720-90960-12 MSD
Matrix: Solid
Analysis Batch: 259511

Client Sample ID: DG-AK16S-3.5-4
Prep Type: Total/NA
Prep Batch: 259166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19	B	0.806	0.848		mg/Kg		82	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90960-1 DU
Matrix: Solid
Analysis Batch: 259151

Client Sample ID: DG-AV12S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.2		13.7		%		4	20

Lab Sample ID: 720-90960-20 DU
Matrix: Solid
Analysis Batch: 259155

Client Sample ID: DG-AI17S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.9		10.5		%		4	20

Metals

Prep Batch: 259152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	7471A	
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	7471A	
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	7471A	
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	7471A	
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	7471A	
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	7471A	
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	7471A	
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	7471A	
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	7471A	
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	7471A	
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	7471A	
MB 720-259152/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259152/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 259153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	3050B	
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	3050B	
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	3050B	
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	3050B	
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	3050B	
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	3050B	
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	3050B	
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	3050B	
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	3050B	
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	3050B	
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	3050B	
MB 720-259153/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259153/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90956-A-9-F MS	Matrix Spike	Total/NA	Solid	3050B	
720-90956-A-9-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	7471A	
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	7471A	
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	7471A	
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	7471A	
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	7471A	
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	7471A	
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	7471A	
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	7471A	
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	7471A	
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	7471A	
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	7471A	
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	7471A	
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	7471A	
720-90960-25	DUP-104	Total/NA	Solid	7471A	
720-90960-26	DUP-103	Total/NA	Solid	7471A	
720-90960-27	DUP-120	Total/NA	Solid	7471A	
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259166 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	7471A	
MB 720-259166/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259166/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90960-12 MS	DG-AK16S-3.5-4	Total/NA	Solid	7471A	
720-90960-12 MSD	DG-AK16S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 259167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	3050B	
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	3050B	
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	3050B	
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	3050B	
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	3050B	
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	3050B	
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	3050B	
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	3050B	
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	3050B	
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	3050B	
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	3050B	
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	3050B	
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	3050B	
720-90960-25	DUP-104	Total/NA	Solid	3050B	
720-90960-26	DUP-103	Total/NA	Solid	3050B	
720-90960-27	DUP-120	Total/NA	Solid	3050B	
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	3050B	
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	3050B	
MB 720-259167/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259167/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90960-12 MS	DG-AK16S-3.5-4	Total/NA	Solid	3050B	
720-90960-12 MSD	DG-AK16S-3.5-4	Total/NA	Solid	3050B	

Analysis Batch: 259510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	7471A	259152
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	7471A	259152
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	7471A	259152
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	7471A	259152
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	7471A	259152
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	7471A	259152
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	7471A	259152
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	7471A	259152
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	7471A	259152
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	7471A	259152
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	7471A	259152
MB 720-259152/1-A	Method Blank	Total/NA	Solid	7471A	259152
LCS 720-259152/2-A	Lab Control Sample	Total/NA	Solid	7471A	259152

Analysis Batch: 259511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	7471A	259166

Metals (Continued)

Analysis Batch: 259511 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	7471A	259166
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	7471A	259166
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-25	DUP-104	Total/NA	Solid	7471A	259166
720-90960-26	DUP-103	Total/NA	Solid	7471A	259166
720-90960-27	DUP-120	Total/NA	Solid	7471A	259166
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	7471A	259166
MB 720-259166/1-A	Method Blank	Total/NA	Solid	7471A	259166
LCS 720-259166/2-A	Lab Control Sample	Total/NA	Solid	7471A	259166
720-90960-12 MS	DG-AK16S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-12 MSD	DG-AK16S-3.5-4	Total/NA	Solid	7471A	259166

Analysis Batch: 259583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	6010B	259167
MB 720-259167/1-A	Method Blank	Total/NA	Solid	6010B	259167
LCS 720-259167/2-A	Lab Control Sample	Total/NA	Solid	6010B	259167
720-90960-12 MS	DG-AK16S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-12 MSD	DG-AK16S-3.5-4	Total/NA	Solid	6010B	259167

Analysis Batch: 259616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	6010B	259153
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	6010B	259153
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	6010B	259153
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	6010B	259153
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	6010B	259153
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	6010B	259153
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	6010B	259153
MB 720-259153/1-A	Method Blank	Total/NA	Solid	6010B	259153
LCS 720-259153/2-A	Lab Control Sample	Total/NA	Solid	6010B	259153
720-90956-A-9-F MS	Matrix Spike	Total/NA	Solid	6010B	259153
720-90956-A-9-G MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259153

Analysis Batch: 259661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	6010B	259153

Analysis Batch: 259951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	6010B	259167
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	6010B	259167
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-25	DUP-104	Total/NA	Solid	6010B	259167
720-90960-26	DUP-103	Total/NA	Solid	6010B	259167
720-90960-27	DUP-120	Total/NA	Solid	6010B	259167
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	6010B	259167

General Chemistry

Analysis Batch: 259151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	Moisture	
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	Moisture	
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	Moisture	
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	Moisture	
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	Moisture	
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	Moisture	
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	Moisture	
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	Moisture	
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	Moisture	
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	Moisture	
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	Moisture	
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	Moisture	
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	Moisture	
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	Moisture	
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	Moisture	
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	Moisture	
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	Moisture	
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	Moisture	
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	Moisture	
720-90960-1 DU	DG-AV12S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 259155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	Moisture	
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	Moisture	
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	Moisture	
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	Moisture	
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	Moisture	
720-90960-25	DUP-104	Total/NA	Solid	Moisture	
720-90960-26	DUP-103	Total/NA	Solid	Moisture	
720-90960-27	DUP-120	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259155 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	Moisture	
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	Moisture	
720-90960-20 DU	DG-AI17S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Client Sample ID: DG-AV12S-0.5-1

Lab Sample ID: 720-90960-1

Date Collected: 01/22/19 08:45

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259661	02/01/19 12:14	OBI	TAL PLS
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:15	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AV12S-3.5-4

Lab Sample ID: 720-90960-2

Date Collected: 01/22/19 08:45

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:20	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AV12S-19.5-20

Lab Sample ID: 720-90960-3

Date Collected: 01/22/19 09:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:25	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AP14S-0.5-1

Lab Sample ID: 720-90960-4

Date Collected: 01/22/19 09:45

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:29	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AP14S-3.5-4

Lab Sample ID: 720-90960-5

Date Collected: 01/22/19 09:45

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259661	02/01/19 12:18	OBI	TAL PLS
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:34	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AM14S-1-1.5

Lab Sample ID: 720-90960-6

Date Collected: 01/22/19 10:05

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:48	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AL14S-0.5-1

Lab Sample ID: 720-90960-7

Date Collected: 01/22/19 10:15

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:53	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AL14S-3.5-4

Lab Sample ID: 720-90960-8

Date Collected: 01/22/19 10:15

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:58	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AK14S-0.5-1

Lab Sample ID: 720-90960-9

Date Collected: 01/22/19 10:50

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 20:03	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AK14S-3.5-4

Lab Sample ID: 720-90960-10

Date Collected: 01/22/19 10:50

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 20:07	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AK16S-0.5-1

Lab Sample ID: 720-90960-11

Date Collected: 01/22/19 11:35

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 20:12	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 15:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AK16S-3.5-4

Lab Sample ID: 720-90960-12

Date Collected: 01/22/19 11:35

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259583	01/31/19 14:51	MAG	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AL16S-0.5-1

Lab Sample ID: 720-90960-13

Date Collected: 01/22/19 11:50

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:12	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AL15S-1-1.5

Lab Sample ID: 720-90960-14

Date Collected: 01/22/19 11:55

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:17	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AJ14S-0.5-1

Lab Sample ID: 720-90960-15

Date Collected: 01/22/19 13:15

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:22	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AJ14S-3.5-4

Lab Sample ID: 720-90960-16

Date Collected: 01/22/19 13:15

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:27	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AJ15S-0.5-1

Lab Sample ID: 720-90960-17

Date Collected: 01/22/19 13:30

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:31	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AJ15S-3.5-4

Lab Sample ID: 720-90960-18

Date Collected: 01/22/19 13:30

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:36	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AI16S-1-1.5

Lab Sample ID: 720-90960-19

Date Collected: 01/22/19 13:50

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:51	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AI17S-0.5-1

Lab Sample ID: 720-90960-20

Date Collected: 01/22/19 14:10

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:56	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Client Sample ID: DG-AI17S-3.5-4

Lab Sample ID: 720-90960-21

Date Collected: 01/22/19 14:10

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:00	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AH15S-0.5-1

Lab Sample ID: 720-90960-22

Date Collected: 01/22/19 14:30

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:05	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AH16S-0.5-1

Lab Sample ID: 720-90960-23

Date Collected: 01/22/19 14:40

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:10	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AH16S-3.5-4

Lab Sample ID: 720-90960-24

Date Collected: 01/22/19 14:40

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:15	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DUP-104

Lab Sample ID: 720-90960-25

Date Collected: 01/22/19 00:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:20	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DUP-103

Lab Sample ID: 720-90960-26

Date Collected: 01/22/19 00:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:25	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DUP-120

Lab Sample ID: 720-90960-27

Date Collected: 01/22/19 00:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:30	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AG16S-0.5-1

Lab Sample ID: 720-90960-28

Date Collected: 01/22/19 15:10

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:34	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Client Sample ID: DG-AG16S-3.5-4

Date Collected: 01/22/19 15:10
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90960-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:49	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90960-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90960-1	DG-AV12S-0.5-1	Solid	01/22/19 08:45	01/22/19 18:40
720-90960-2	DG-AV12S-3.5-4	Solid	01/22/19 08:45	01/22/19 18:40
720-90960-3	DG-AV12S-19.5-20	Solid	01/22/19 09:00	01/22/19 18:40
720-90960-4	DG-AP14S-0.5-1	Solid	01/22/19 09:45	01/22/19 18:40
720-90960-5	DG-AP14S-3.5-4	Solid	01/22/19 09:45	01/22/19 18:40
720-90960-6	DG-AM14S-1-1.5	Solid	01/22/19 10:05	01/22/19 18:40
720-90960-7	DG-AL14S-0.5-1	Solid	01/22/19 10:15	01/22/19 18:40
720-90960-8	DG-AL14S-3.5-4	Solid	01/22/19 10:15	01/22/19 18:40
720-90960-9	DG-AK14S-0.5-1	Solid	01/22/19 10:50	01/22/19 18:40
720-90960-10	DG-AK14S-3.5-4	Solid	01/22/19 10:50	01/22/19 18:40
720-90960-11	DG-AK16S-0.5-1	Solid	01/22/19 11:35	01/22/19 18:40
720-90960-12	DG-AK16S-3.5-4	Solid	01/22/19 11:35	01/22/19 18:40
720-90960-13	DG-AL16S-0.5-1	Solid	01/22/19 11:50	01/22/19 18:40
720-90960-14	DG-AL15S-1-1.5	Solid	01/22/19 11:55	01/22/19 18:40
720-90960-15	DG-AJ14S-0.5-1	Solid	01/22/19 13:15	01/22/19 18:40
720-90960-16	DG-AJ14S-3.5-4	Solid	01/22/19 13:15	01/22/19 18:40
720-90960-17	DG-AJ15S-0.5-1	Solid	01/22/19 13:30	01/22/19 18:40
720-90960-18	DG-AJ15S-3.5-4	Solid	01/22/19 13:30	01/22/19 18:40
720-90960-19	DG-AI16S-1-1.5	Solid	01/22/19 13:50	01/22/19 18:40
720-90960-20	DG-AI17S-0.5-1	Solid	01/22/19 14:10	01/22/19 18:40
720-90960-21	DG-AI17S-3.5-4	Solid	01/22/19 14:10	01/22/19 18:40
720-90960-22	DG-AH15S-0.5-1	Solid	01/22/19 14:30	01/22/19 18:40
720-90960-23	DG-AH16S-0.5-1	Solid	01/22/19 14:40	01/22/19 18:40
720-90960-24	DG-AH16S-3.5-4	Solid	01/22/19 14:40	01/22/19 18:40
720-90960-25	DUP-104	Solid	01/22/19 00:00	01/22/19 18:40
720-90960-26	DUP-103	Solid	01/22/19 00:00	01/22/19 18:40
720-90960-27	DUP-120	Solid	01/22/19 00:00	01/22/19 18:40
720-90960-28	DG-AG16S-0.5-1	Solid	01/22/19 15:10	01/22/19 18:40
720-90960-29	DG-AG16S-3.5-4	Solid	01/22/19 15:10	01/22/19 18:40

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

720-90960

1886047

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/22/19	COC No 1886047
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James-Kavanagh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90960 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG AV12S-0.5-1	1/22/19	845	G	S	1	N		X	
2	DG AV12S-3.5-4		845							
3	DG AV12S-19.5-20		900							
4	DG-AP14S-0.5-1		945							
5	DG AP14S-3.5-4		945							
6	DG-AM14S-1-1.5		1005							
7	DG-AL14S-0.5-1		1015							
8	DG AL14S-3.5-4		1015							
9	DG-AK14S-0.5-1		1050							
10	DG-AK14S-3.5-4		1050							
11	DG-AK16S-0.5-1		1135							
12	DG AK16S-3.5-4	↓	1135	↓	↓	↓		Y	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C): Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company Geosyntec	Date/Time 1551 22 Jan 2019	Received by	Company TAPLS	Date/Time 1/22/19 1551
Relinquished by	Company TAPLS	Date/Time 1/22/19 1840	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/22/19 1840

2-2 1.3/1-8/13.8 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/16/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1866047

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 22 January 2019	COC No 1866047
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Dylan James - Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client.
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AL16s-0.5-1	22 Jan. 2019	1150	G	S	1	N		X	
14	DG-AL15s-1-1.5		1155							
15	DG-AJ14s-0.5-1		1315							
16	DG-AJ14s-3.5-4		1315							
17	DG-AJ15s-0.5-1		1330							
18	DG-AJ15s-3.5-4		1330							
19	DG-AI16s-1-1.5		1350							
20	DG-AI17s-0.5-1		1410							
21	DG-AI17s-3.5-4		1410							
22	DG-AH15s-0.5-1		1430							
23	DG-AH16s-0.5-1		1440							
24	DG-AH16s-3.5-4	↓	1440	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company: Geosyntec	Date/Time: 1551 22 Jan. 2019	Received by	Company	Date/Time
Relinquished by	Company: TA-PLS	Date/Time: 1/22/19 1840	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/22/19 1840

2.2 / 1.3 / 1.8 / 3.8C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/16/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188047

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 22 January 2019	COC No 188047
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James-Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25 DUP-104	1/22/19	—	G	S	1	N		X	
26 DUP-103	↓	—	↓	↓	↓			↓	
27 DUP-120		—							
28 DG-AG16s-0.5-1		1510							
29 DG-AG16s-3.5-4	↓	1510	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company Geosyntec	Date/Time 1551 22 Jan 2019	Received by	Company TAPLS	Date/Time 1/22/19 1551
Relinquished by	Company TAPLS	Date/Time 1/22/19 1640	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/22/19 1840

2-2/1-3/1-8/3-8/C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/16/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90960-1

Login Number: 90960
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90961-1

Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/16/2019 4:54:59 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90961-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90961-1

Comments
No additional comments.

Receipt
The samples were received on 1/22/2019 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 1.8º C, 2.2º C and 3.8º C.

Receipt Exceptions
Received a Trip Blank not listed on the chain-of-custody (COC). Trip was added to job 720-90959 per client request (see Correspondence email).

GC/MS VOA
Method 8260B/CA_LUFTMS: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: DG-X13S-0.5-1 (720-90961-11[MSD]). The matrix spike and parent sample surrogate recovery was within limits. The MSD sample has been qualified and reported. Matrix interference is suspected.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-525143 recovered outside control limits for the following analyte: Trichloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a "*" symbol.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-525161 and analytical batch 440-525143 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AO11S-0.5-1 (720-90961-5), DG-AA15S-0.5-1 (720-90961-10) and DG-X13S-3.5-4 (720-90961-13). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The laboratory control sample (LCS) for preparation batch 720-259467 and analytical batch 720-259713 recovered outside control limits for the following analytes: Chrysene. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a "*" symbol

Method 8270C SIM: Surrogate recovery for the following samples were outside control limits: DG-AO11S-0.5-1 (720-90961-5), DG-AA15S-0.5-1 (720-90961-10) and DG-X13S-3.5-4 (720-90961-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: DG-X13S-0.5-1 (720-90961-11), DG-X13S-0.5-1 (720-90961-11[MS]) and DG-X13S-0.5-1 (720-90961-11[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: Internal standard responses were outside of acceptance limits for the following samples: DG-AA15S-0.5-1 (720-90961-10) and DG-X13S-3.5-4 (720-90961-13). The samples show evidence of matrix interference; confirmed by re-analysis. Affected analytes have been qualified with a "*" symbol.

Method 8270C SIM: The method blank for preparation batch 720-259774 and analytical batch 720-259797 contained Benzo[a]pyrene and Benzo[k]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-259467 and analytical batch 720-259713 contained Benzo[b]fluoranthene

Job ID: 720-90961-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: (720-91048-E-19-J MS) and (720-91048-E-19-K MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The matrix spike (MS) recoveries for preparation batch 720-259774 and analytical batch 720-259797 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: Surrogate recoveries for the following samples were outside control limits: DG-AK11S-0.5-1 (720-90961-1), DG-AO11S-3.5-4 (720-90961-6), DG-X13S-0.5-1 (720-90961-11) and DUP-110 (720-90961-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AK11S-0.5-1 (720-90961-1), DG-AK11S-3.5-4 (720-90961-2), DG-AM11S-3.5-4 (720-90961-4), DG-AO11S-3.5-4 (720-90961-6), DG-AB13S-0.5-1 (720-90961-7), DG-AB13S-13.5-14 (720-90961-9), DG-X13S-0.5-1 (720-90961-11), DG-R9S-0.5-1 (720-90961-14) and DUP-110 (720-90961-16). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following samples required a dilution due to the nature of the sample matrix: DG-AK11S-3.5-4 (720-90961-2) and DG-AB13S-13.5-14 (720-90961-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: Internal standard responses were outside of acceptance limits for the following samples: DG-AO11S-3.5-4 (720-90961-6) and DUP-110 (720-90961-16). The samples show evidence of matrix interference; confirmed by re-analysis. Affected analytes have been qualified with a "*" symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: (720-90948-E-7-M), (720-90948-E-7-L MS) and (720-90948-D-7-H MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: Due to the high concentration of Diesel Range Organics [C10-C28], the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-259352 and analytical batch 720-259447 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-X13S-0.5-1 (720-90961-11), DG-X13S-0.5-1 (720-90961-11[MS]), DG-X13S-0.5-1 (720-90961-11[MSD]), DG-R9S-0.5-1 (720-90961-14) and DUP-110 (720-90961-16). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: DG-AK11S-0.5-1 (720-90961-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The following samples required a dilution due to the nature of the sample matrix: DG-AK11S-3.5-4 (720-90961-2) and DG-AB13S-13.5-14 (720-90961-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: Surrogate recovery for the following sample was outside the upper control limit: DG-AB13S-0.5-1 (720-90961-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 720-90961-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 8081A: The following samples were diluted due to color: DG-AK11S-3.5-4 (720-90961-2), DG-AM11S-3.5-4 (720-90961-4), DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6) and DG-AB13S-13.5-14 (720-90961-9). Elevated reporting limits (RL) are provided.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-AK11S-3.5-4 (720-90961-2), DG-AM11S-3.5-4 (720-90961-4), DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6), DG-AB13S-0.5-1 (720-90961-7), DG-AB13S-13.5-14 (720-90961-9) and DG-AA15S-0.5-1 (720-90961-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259253 and analytical batch 720-259371 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8082: Surrogate recovery for the following sample was outside the upper control limit: DG-AB13S-0.5-1 (720-90961-7). This sample did not contain any target analytes; therefore, re-extraction and re-analysis was not performed. Secondary surrogate was within acceptance limits.

Method 8082: Surrogate recovery for the following sample was outside control limits: DG-AK11S-3.5-4 (720-90961-2). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

Method 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AK11S-3.5-4 (720-90961-2), DG-AO11S-3.5-4 (720-90961-6) and DG-AB13S-13.5-14 (720-90961-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 7471A: The following sample was diluted to bring the concentration of target analytes within the calibration range: DG-R9S-3.5-4 (720-90961-15). Elevated reporting limits (RLs) are provided.

Method 7471A: The method blank for preparation batch 720-259166 and analytical batch 720-259511 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-259216 and analytical batch 720-259533 contained Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AM11S-0.5-1 (720-90961-3), DG-AM11S-3.5-4 (720-90961-4), DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6), DG-AB13S-0.5-1 (720-90961-7), DG-AB13S-3.5-4 (720-90961-8), DG-AB13S-13.5-14 (720-90961-9), DG-AA15S-0.5-1 (720-90961-10), DG-X13S-0.5-1 (720-90961-11), DG-X13S-0.5-1 (720-90961-11[MS]), DG-X13S-0.5-1 (720-90961-11[MSD]), DUP-77 (720-90961-12), DG-X13S-3.5-4 (720-90961-13), DG-R9S-0.5-1 (720-90961-14), DG-R9S-3.5-4 (720-90961-15), DUP-110 (720-90961-16), (720-90961-E-11-C PDS) and (720-90961-E-11-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259216 and analytical batch 720-259533 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259533 was outside control limits for Barium-26%, Cobalt-34%, Chromium-17%, Copper-27%, Nickel-22%, Lead-25%, Vanadium-26%, Zinc-24%: (720-90961-E-11-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AK11S-0.5-1 (720-90961-1) and DG-AK11S-3.5-4 (720-90961-2). Elevated reporting limits (RLs) are provided.

Job ID: 720-90961-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 6010B: The method blank for preparation batch 720-259167 and analytical batch 720-259583 contained Barium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259167 and analytical batch 720-259583 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259583 was outside control limits for Cobalt-14%, Chromium-11%, and Lead-13%: (720-90960-A-12-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: (720-90960-A-12-F), (720-90960-A-12-D MS), (720-90960-A-12-E MSD), (720-90960-A-12-F PDS) and (720-90960-A-12-F SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259583 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: Internal standard responses were outside of acceptance limits for the following samples: (ICSA 720-259535/7) and (ICSAB 720-259535/8).

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6), DG-X13S-0.5-1 (720-90961-11) and DG-R9S-3.5-4 (720-90961-15). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: 8015_3546: Due to the matrix, the following samples could not be concentrated to the final method required volume and were volumed to 5 mL. DG-AK11S-3.5-4 (720-90961-2), DG-AM11S-3.5-4 (720-90961-4) and DG-AO11S-3.5-4 (720-90961-6). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8015_3546: Due to the matrix, the following sample could not be concentrated to the final method required volume and was volumed to 10 mL. DG-AB13S-13.5-14 (720-90961-9). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM_3546: Due to the matrix, the following samples could not be concentrated to the final method required volume and were volumed to 2 mL. DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6) and DG-AA15S-0.5-1 (720-90961-10). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM_3546: Due to the matrix, the following samples could not be concentrated to the final method required volume and were volumed to 5 mL. DG-AK11S-3.5-4 (720-90961-2) and DG-AB13S-13.5-14 (720-90961-9). The reporting limits (RLs) are elevated proportionately.

Method 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AK11S-3.5-4 (720-90961-2) and DG-AB13S-13.5-14 (720-90961-9). The reporting limits (RLs) are elevated proportionately. The sample720-90961-E-2 was volumed up to 5mL and the sample 720-90961-E-9 was volumed up to 10 mL.

Method 3546: The following sample was diluted due to the nature of the sample matrix: DG-AB13S-13.5-14 (720-90961-9). Elevated reporting limits (RLs) are provided. 8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 720-90961-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work

Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Client Sample ID: DG-AK11S-0.5-1 — Lab Sample ID: 720-90961-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	750		88	61	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
4-Isopropyltoluene	0.82	J	0.88	0.44	ug/Kg	1		8260B	Total/NA
Isopropylbenzene	2.0		0.88	0.44	ug/Kg	1		8260B	Total/NA
Naphthalene	1.1	J	1.8	0.88	ug/Kg	1		8260B	Total/NA
n-Butylbenzene	0.90	J	1.8	0.88	ug/Kg	1		8260B	Total/NA
N-Propylbenzene	0.66	J	0.88	0.44	ug/Kg	1		8260B	Total/NA
Xylenes, Total	1.3	J	1.8	1.1	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	550		390	200	ug/Kg	40		8270C SIM	Total/NA
Anthracene	210		200	79	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]anthracene	66	J	200	59	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]pyrene	150	J B	200	75	ug/Kg	40		8270C SIM	Total/NA
Benzo[b]fluoranthene	110	J	200	83	ug/Kg	40		8270C SIM	Total/NA
Benzo[k]fluoranthene	85	J B	200	83	ug/Kg	40		8270C SIM	Total/NA
Chrysene	180	J	200	55	ug/Kg	40		8270C SIM	Total/NA
Fluoranthene	82	J	200	55	ug/Kg	40		8270C SIM	Total/NA
Fluorene	160	J	200	87	ug/Kg	40		8270C SIM	Total/NA
Phenanthrene	590		200	71	ug/Kg	40		8270C SIM	Total/NA
Pyrene	390		200	67	ug/Kg	40		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	460		9.9	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	510		250	49	mg/Kg	5		8015B	Total/NA
Antimony	0.22	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Barium	15	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	84		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	74		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	2.3	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	7.6		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	47		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.049	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK11S-3.5-4 — Lab Sample ID: 720-90961-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	100000		30000	21000	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Anthracene	5600		4700	1900	ug/Kg	200		8270C SIM	Total/NA
Benzo[a]anthracene	3300	J	4700	1400	ug/Kg	200		8270C SIM	Total/NA
Benzo[a]pyrene	4200	J B	4700	1800	ug/Kg	200		8270C SIM	Total/NA
Benzo[b]fluoranthene	3800	J	4700	2000	ug/Kg	200		8270C SIM	Total/NA
Chrysene	6300		4700	1300	ug/Kg	200		8270C SIM	Total/NA
Fluoranthene	2700	J	4700	1300	ug/Kg	200		8270C SIM	Total/NA
Fluorene	3000	J	4700	2100	ug/Kg	200		8270C SIM	Total/NA
Phenanthrene	6500		4700	1700	ug/Kg	200		8270C SIM	Total/NA
Pyrene	16000		4700	1600	ug/Kg	200		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	34000		470	180	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	38000		12000	2400	mg/Kg	100		8015B	Total/NA
Antimony	15		4.3	0.72	mg/Kg	10		6010B	Total/NA
Arsenic	31		8.7	0.74	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK11S-3.5-4 (Continued)

Lab Sample ID: 720-90961-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	490	B	4.3	0.62	mg/Kg	10		6010B	Total/NA
Cadmium	7.3		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	47		4.3	0.46	mg/Kg	10		6010B	Total/NA
Cobalt	10		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	580		13	6.2	mg/Kg	10		6010B	Total/NA
Lead	1800	B	4.3	0.91	mg/Kg	10		6010B	Total/NA
Molybdenum	1.3	J	4.3	0.56	mg/Kg	10		6010B	Total/NA
Nickel	53		4.3	0.44	mg/Kg	10		6010B	Total/NA
Silver	0.99	J	2.2	0.44	mg/Kg	10		6010B	Total/NA
Vanadium	44		4.3	0.59	mg/Kg	10		6010B	Total/NA
Zinc	1300		13	5.5	mg/Kg	10		6010B	Total/NA
Mercury	0.25	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM11S-0.5-1

Lab Sample ID: 720-90961-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	3.1	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	2.6	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.2	J	4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.3	J B	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	1.5	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	2.4	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	3.9	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	22		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	79		48	9.5	mg/Kg	1		8015B	Total/NA
Barium	15		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.082	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	8.4		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	76		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	1.9		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.36	J	1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	5.5	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Thallium	1.7	J	1.8	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	96		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	46		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.044		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM11S-3.5-4

Lab Sample ID: 720-90961-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.45	J	0.78	0.39	ug/Kg	1		8260B	Total/NA
Pyrene	200	J	500	170	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1600		49	18	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	3300		1200	250	mg/Kg	10		8015B	Total/NA
Antimony	12		2.6	0.43	mg/Kg	10		6010B	Total/NA
Arsenic	12		5.2	0.44	mg/Kg	10		6010B	Total/NA
Barium	300		2.6	0.37	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM11S-3.5-4 (Continued) — Lab Sample ID: 720-90961-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.45	J	0.52	0.17	mg/Kg	10		6010B	Total/NA
Cadmium	1.4		0.64	0.064	mg/Kg	10		6010B	Total/NA
Chromium	47		2.6	0.27	mg/Kg	10		6010B	Total/NA
Cobalt	9.0		1.0	0.10	mg/Kg	10		6010B	Total/NA
Copper	1500		7.7	3.7	mg/Kg	10		6010B	Total/NA
Lead	700		2.6	0.54	mg/Kg	10		6010B	Total/NA
Nickel	32	B	2.6	0.26	mg/Kg	10		6010B	Total/NA
Selenium	1.7	J	5.2	0.77	mg/Kg	10		6010B	Total/NA
Silver	3.5		1.3	0.26	mg/Kg	10		6010B	Total/NA
Vanadium	37		2.6	0.35	mg/Kg	10		6010B	Total/NA
Zinc	1300		7.7	3.3	mg/Kg	10		6010B	Total/NA
Mercury	0.13		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO11S-0.5-1 — Lab Sample ID: 720-90961-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	230	J	240	92	ug/Kg	25		8270C SIM	Total/NA
Benzo[b]fluoranthene	250		240	100	ug/Kg	25		8270C SIM	Total/NA
Benzo[k]fluoranthene	140	J B	240	100	ug/Kg	25		8270C SIM	Total/NA
Chrysene	69	J *	240	68	ug/Kg	25		8270C SIM	Total/NA
Fluoranthene	120	J	240	68	ug/Kg	25		8270C SIM	Total/NA
Pyrene	240		240	82	ug/Kg	25		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	370		19	7.2	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	970		480	96	mg/Kg	10		8015B	Total/NA
Antimony	0.64	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	18		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	62		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.24	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.33		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	36		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	60		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	71		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.32	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	63	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.60	J	1.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	97		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO11S-3.5-4 — Lab Sample ID: 720-90961-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	270000		30000	21000	ug/Kg	200		8260B/CA_LUFT MS	Total/NA
Anthracene	720		500	200	ug/Kg	100		8270C SIM	Total/NA
Benzo[a]anthracene	240	J	500	150	ug/Kg	100		8270C SIM	Total/NA
Benzo[a]pyrene	490	J B *	500	190	ug/Kg	100		8270C SIM	Total/NA
Benzo[b]fluoranthene	390	J *	500	210	ug/Kg	100		8270C SIM	Total/NA
Chrysene	660		500	140	ug/Kg	100		8270C SIM	Total/NA
Fluoranthene	340	J	500	140	ug/Kg	100		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AO11S-3.5-4 (Continued) — Lab Sample ID: 720-90961-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	1700		500	170	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	14000		250	93	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	15000		6200	1200	mg/Kg	50		8015B	Total/NA
Antimony	24		3.7	0.61	mg/Kg	10		6010B	Total/NA
Arsenic	150		7.4	0.63	mg/Kg	10		6010B	Total/NA
Barium	350		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.52		0.30	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.35	J	0.93	0.092	mg/Kg	10		6010B	Total/NA
Chromium	28		3.7	0.39	mg/Kg	10		6010B	Total/NA
Cobalt	18		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	310		11	5.3	mg/Kg	10		6010B	Total/NA
Lead	1700		3.7	0.78	mg/Kg	10		6010B	Total/NA
Molybdenum	0.98	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	49	B	3.7	0.38	mg/Kg	10		6010B	Total/NA
Silver	0.86	J	1.9	0.37	mg/Kg	10		6010B	Total/NA
Vanadium	30		3.7	0.50	mg/Kg	10		6010B	Total/NA
Zinc	430		11	4.7	mg/Kg	10		6010B	Total/NA
Mercury	0.12		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB13S-0.5-1 — Lab Sample ID: 720-90961-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	48	J	120	47	ug/Kg	25		8270C SIM	Total/NA
Benzo[a]pyrene	91	J B	120	45	ug/Kg	25		8270C SIM	Total/NA
Benzo[b]fluoranthene	140		120	50	ug/Kg	25		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110	J	120	100	ug/Kg	25		8270C SIM	Total/NA
Benzo[k]fluoranthene	71	J B	120	50	ug/Kg	25		8270C SIM	Total/NA
Chrysene	71	J	120	33	ug/Kg	25		8270C SIM	Total/NA
Fluoranthene	57	J	120	33	ug/Kg	25		8270C SIM	Total/NA
Phenanthrene	81	J	120	42	ug/Kg	25		8270C SIM	Total/NA
Pyrene	110	J	120	40	ug/Kg	25		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	610		19	7.1	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1300		480	95	mg/Kg	10		8015B	Total/NA
Antimony	540		3.6	0.59	mg/Kg	10		6010B	Total/NA
Arsenic	22		7.1	0.61	mg/Kg	10		6010B	Total/NA
Barium	180		3.6	0.51	mg/Kg	10		6010B	Total/NA
Cadmium	1.8		0.89	0.089	mg/Kg	10		6010B	Total/NA
Chromium	76		3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	19		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	3000		11	5.1	mg/Kg	10		6010B	Total/NA
Lead	7400		3.6	0.75	mg/Kg	10		6010B	Total/NA
Molybdenum	6.2		3.6	0.46	mg/Kg	10		6010B	Total/NA
Nickel	170	B	3.6	0.36	mg/Kg	10		6010B	Total/NA
Selenium	3.2	J	7.1	1.1	mg/Kg	10		6010B	Total/NA
Vanadium	74		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	1300		11	4.5	mg/Kg	10		6010B	Total/NA
Mercury	0.35		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB13S-3.5-4 — Lab Sample ID: 720-90961-8

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB13S-3.5-4 (Continued)

Lab Sample ID: 720-90961-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3.0	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	1.8	J	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.4	J	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	5.3		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.8		4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.0	J B	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	3.3	J *	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.6	J	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	4.7	J	4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	7.5		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	54		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120		48	9.7	mg/Kg	1		8015B	Total/NA
Antimony	37		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	30		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.25	J	0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	19		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	3.0		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	120		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	480		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	23	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	10		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	100		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.028		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB13S-13.5-14

Lab Sample ID: 720-90961-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	2400000		120000	84000	ug/Kg	500		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	8600		1200	600	ug/Kg	500		8260B	Total/NA
1,3,5-Trimethylbenzene	1800		1200	600	ug/Kg	500		8260B	Total/NA
4-Isopropyltoluene	2100		1200	600	ug/Kg	500		8260B	Total/NA
Ethylbenzene	730	J	1200	600	ug/Kg	500		8260B	Total/NA
Isopropylbenzene	1200		1200	600	ug/Kg	500		8260B	Total/NA
Naphthalene	7400		3000	1200	ug/Kg	500		8260B	Total/NA
n-Butylbenzene	3800		3000	1200	ug/Kg	500		8260B	Total/NA
N-Propylbenzene	2100		1200	600	ug/Kg	500		8260B	Total/NA
sec-Butylbenzene	1000	J	3000	600	ug/Kg	500		8260B	Total/NA
Xylenes, Total	7600		2400	1200	ug/Kg	500		8260B	Total/NA
2-Methylnaphthalene	76000		20000	10000	ug/Kg	200		8270C SIM	Total/NA
Acenaphthene	25000		10000	5600	ug/Kg	200		8270C SIM	Total/NA
Acenaphthylene	6200	J	10000	4800	ug/Kg	200		8270C SIM	Total/NA
Anthracene	32000		10000	4000	ug/Kg	200		8270C SIM	Total/NA
Benzo[a]anthracene	19000		10000	3000	ug/Kg	200		8270C SIM	Total/NA
Benzo[a]pyrene	14000	B	10000	3800	ug/Kg	200		8270C SIM	Total/NA
Benzo[b]fluoranthene	8400	J	10000	4200	ug/Kg	200		8270C SIM	Total/NA
Benzo[k]fluoranthene	4700	J B	10000	4200	ug/Kg	200		8270C SIM	Total/NA
Chrysene	31000		10000	2800	ug/Kg	200		8270C SIM	Total/NA
Fluoranthene	10000		10000	2800	ug/Kg	200		8270C SIM	Total/NA
Fluorene	33000		10000	4400	ug/Kg	200		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB13S-13.5-14 (Continued) — Lab Sample ID: 720-90961-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	13000		10000	7000	ug/Kg	200		8270C SIM	Total/NA
Phenanthrene	100000		10000	3600	ug/Kg	200		8270C SIM	Total/NA
Pyrene	63000		10000	3400	ug/Kg	200		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	94000		970	370	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	86000		24000	4900	mg/Kg	100		8015B	Total/NA
Antimony	2.3		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	8.9		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	35		1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.42		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	25		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	44		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	62		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	40	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Thallium	0.79	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	84		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.0070	J	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA15S-0.5-1 — Lab Sample ID: 720-90961-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	130	J *	200	75	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	160	J *	200	83	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	110	J B *	200	83	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	78	J	200	55	ug/Kg	20		8270C SIM	Total/NA
Pyrene	130	J	200	67	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1400		39	14	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	3100		960	190	mg/Kg	20		8015B	Total/NA
Antimony	1.7		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	3.6		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	38		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	27		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	5.5		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	74		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	120		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	26	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	53		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X13S-0.5-1 — Lab Sample ID: 720-90961-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	100	J	190	77	ug/Kg	40		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X13S-0.5-1 (Continued)

Lab Sample ID: 720-90961-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	180	J	190	58	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]pyrene	240	B	190	73	ug/Kg	40		8270C SIM	Total/NA
Benzo[b]fluoranthene	590		190	81	ug/Kg	40		8270C SIM	Total/NA
Benzo[g,h,i]perylene	210	F1	190	170	ug/Kg	40		8270C SIM	Total/NA
Benzo[k]fluoranthene	210	B	190	81	ug/Kg	40		8270C SIM	Total/NA
Chrysene	270		190	54	ug/Kg	40		8270C SIM	Total/NA
Fluoranthene	130	J	190	54	ug/Kg	40		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	200		190	160	ug/Kg	40		8270C SIM	Total/NA
Pyrene	210		190	66	ug/Kg	40		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	490		9.7	3.6	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1300		240	48	mg/Kg	5		8015B	Total/NA
Aroclor 1260	22	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	7.0	F1	2.9	0.49	mg/Kg	10		6010B	Total/NA
Arsenic	6.6		5.8	0.50	mg/Kg	10		6010B	Total/NA
Barium	230		2.9	0.42	mg/Kg	10		6010B	Total/NA
Cadmium	2.3		0.73	0.073	mg/Kg	10		6010B	Total/NA
Chromium	35		2.9	0.31	mg/Kg	10		6010B	Total/NA
Cobalt	10		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	240	F2	8.8	4.2	mg/Kg	10		6010B	Total/NA
Lead	950	F2	2.9	0.61	mg/Kg	10		6010B	Total/NA
Molybdenum	1.2	J	2.9	0.37	mg/Kg	10		6010B	Total/NA
Nickel	34	B	2.9	0.30	mg/Kg	10		6010B	Total/NA
Selenium	1.8	J	5.8	0.88	mg/Kg	10		6010B	Total/NA
Silver	1.4	J	1.5	0.30	mg/Kg	10		6010B	Total/NA
Vanadium	65		2.9	0.40	mg/Kg	10		6010B	Total/NA
Zinc	530		8.8	3.7	mg/Kg	10		6010B	Total/NA
Mercury	0.33		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-77

Lab Sample ID: 720-90961-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.6	J	4.8	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	3.5	J	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	6.2	B	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	6.9		4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.3	J	4.8	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.9	J B	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	4.4	J	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	5.6		4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	4.5	J	4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.8		4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	35		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	95		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	15		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	3.4		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	22		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	14		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	1.9		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	43		4.7	2.2	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-77 (Continued) — Lab Sample ID: 720-90961-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	160		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	13	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	8.2		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	35		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.020		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X13S-3.5-4 — Lab Sample ID: 720-90961-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	32	J	49	24	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	30	J *	49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	43	J *	49	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	27	J B *	49	21	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	16	J	49	14	ug/Kg	10		8270C SIM	Total/NA
Pyrene	28	J	49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	180		5.7	2.1	mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	280		140	28	mg/Kg	3		8015B	Total/NA
Antimony	1.2	J	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	3.7		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	55		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.29	0.095	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	24		1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	60		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	7.8		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.30	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	22	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Thallium	0.77	J	1.5	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	65		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	37		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.038		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R9S-0.5-1 — Lab Sample ID: 720-90961-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	120		120	59	ug/Kg	25		8270C SIM	Total/NA
Anthracene	190		120	49	ug/Kg	25		8270C SIM	Total/NA
Benzo[a]anthracene	98	J	120	37	ug/Kg	25		8270C SIM	Total/NA
Benzo[a]pyrene	220	B	120	47	ug/Kg	25		8270C SIM	Total/NA
Benzo[b]fluoranthene	300		120	51	ug/Kg	25		8270C SIM	Total/NA
Benzo[g,h,i]perylene	140		120	110	ug/Kg	25		8270C SIM	Total/NA
Benzo[k]fluoranthene	110	J B	120	51	ug/Kg	25		8270C SIM	Total/NA
Chrysene	100	J	120	34	ug/Kg	25		8270C SIM	Total/NA
Fluoranthene	220		120	34	ug/Kg	25		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	120		120	100	ug/Kg	25		8270C SIM	Total/NA
Naphthalene	130		120	86	ug/Kg	25		8270C SIM	Total/NA
Phenanthrene	140		120	44	ug/Kg	25		8270C SIM	Total/NA
Pyrene	260		120	42	ug/Kg	25		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	320		9.6	3.6	mg/Kg	5		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R9S-0.5-1 (Continued)

Lab Sample ID: 720-90961-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	390		240	48	mg/Kg	5		8015B	Total/NA
Antimony	2.1		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	41		2.6	0.23	mg/Kg	4		6010B	Total/NA
Barium	44		1.3	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	17		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	96		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	120		1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.21	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	63	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.56	J	2.6	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	77		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R9S-3.5-4

Lab Sample ID: 720-90961-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	4.7		4.7	2.3	ug/Kg	1		8270C SIM	Total/NA
Anthracene	4.9		4.7	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	11		4.7	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	15	B	4.7	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	28		4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	10		4.7	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	7.3	B	4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	16		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.5	J	4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	14		4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	8.6		4.7	4.0	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	5.1		4.7	3.3	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	19		4.7	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	20		4.7	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	39		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	44	J	47	9.4	mg/Kg	1		8015B	Total/NA
Antimony	0.87	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	240		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	96		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.47		0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	86		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	38		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	15		2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	120	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	59		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	70		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	3.4		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: DUP-110

Lab Sample ID: 720-90961-16

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-110 (Continued)

Lab Sample ID: 720-90961-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	53		49	23	ug/Kg	10		8270C SIM	Total/NA
Anthracene	28	J	49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	52	* B	49	18	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	100	*	49	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110	*	49	42	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	38	J * B	49	20	ug/Kg	10		8270C SIM	Total/NA
Chrysene	26	J	49	14	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	31	J	49	14	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	59	*	49	41	ug/Kg	10		8270C SIM	Total/NA
Pyrene	86		49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	860		19	7.1	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1300		470	95	mg/Kg	10		8015B	Total/NA
Antimony	4.6		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	9.8		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	88		1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.32	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	12		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	150		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	970		1.7	0.37	mg/Kg	4		6010B	Total/NA
Nickel	33	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.94	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Thallium	0.52	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	200		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.077		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK11S-0.5-1

Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	750		88	61	ug/Kg		01/26/19 12:50	01/26/19 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*60 - 120*	*01/26/19 12:50*	*01/26/19 18:02*	*1*
4-Bromofluorobenzene (Surr)	*88*		*79 - 120*	*01/26/19 12:50*	*01/26/19 18:02*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/26/19 12:50*	*01/26/19 18:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
2-Hexanone	ND		8.8	4.4	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
4-Isopropyltoluene	0.82	J	0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Benzene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Bromobenzene	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Bromoform	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Bromomethane	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Chloroethane	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Chloroform	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Chloromethane	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Dibromomethane	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1

Client Sample ID: DG-AK11S-0.5-1
Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Isopropylbenzene	**2.0**		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Naphthalene	**1.1**	**J**	1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
n-Butylbenzene	**0.90**	**J**	1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
N-Propylbenzene	**0.66**	**J**	0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Styrene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Tetrachloroethene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Toluene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Trichloroethene	ND	*	0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Xylenes, Total	**1.3**	**J**	1.8	1.1	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		01/26/19 12:50	01/26/19 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/26/19 12:50	01/26/19 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/26/19 12:50*	*01/26/19 18:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/26/19 12:50*	*01/26/19 18:02*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**550**		390	200	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Acenaphthene	ND		200	110	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Acenaphthylene	ND		200	94	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Anthracene	**210**		200	79	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Benzo[a]anthracene	**66**	**J**	200	59	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Benzo[a]pyrene	**150**	**J B**	200	75	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Benzo[b]fluoranthene	**110**	**J**	200	83	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Benzo[g,h,i]perylene	ND		200	170	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Benzo[k]fluoranthene	**85**	**J B**	200	83	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Chrysene	**180**	**J**	200	55	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Dibenz(a,h)anthracene	ND		200	140	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Fluoranthene	**82**	**J**	200	55	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Fluorene	**160**	**J**	200	87	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Indeno[1,2,3-cd]pyrene	ND		200	170	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Naphthalene	ND		200	140	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Phenanthrene	**590**		200	71	ug/Kg		02/04/19 19:08	02/05/19 14:27	40
Pyrene	**390**		200	67	ug/Kg		02/04/19 19:08	02/05/19 14:27	40

Client Sample ID: DG-AK11S-0.5-1

Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-1

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		33 - 120	02/04/19 19:08	02/05/19 14:27	40
Terphenyl-d14	149	X	35 - 146	02/04/19 19:08	02/05/19 14:27	40

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	460		9.9	3.7	mg/Kg		01/28/19 15:35	02/05/19 11:51	5
Motor Oil Range Organics [C24-C36]	510		250	49	mg/Kg		01/28/19 15:35	02/05/19 11:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	D X	40 - 130	01/28/19 15:35	02/05/19 11:51	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Aldrin	ND		2.0	0.49	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Chlordane (n.o.s.)	ND		39	2.9	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Endrin	ND		2.0	0.45	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/25/19 13:57	02/05/19 10:45	1
Toxaphene	ND		39	6.7	ug/Kg		01/25/19 13:57	02/05/19 10:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		21 - 136	01/25/19 13:57	02/05/19 10:45	1
Tetrachloro-m-xylene	87		21 - 145	01/25/19 13:57	02/05/19 10:45	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 13:53	1
Aroclor 1221	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 13:53	1
Aroclor 1232	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 13:53	1
Aroclor 1242	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 13:53	1
Aroclor 1248	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 13:53	1
Aroclor 1254	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 13:53	1
Aroclor 1260	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 13:53	1

Client Sample ID: DG-AK11S-0.5-1

Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*45 - 120*	*01/24/19 13:46*	*01/25/19 13:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.22**	**J**	1.3	0.21	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Arsenic	ND		2.6	0.22	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Barium	**15**	**B**	1.3	0.18	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Beryllium	ND		0.26	0.083	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Cadmium	**0.13**	**J**	0.32	0.032	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Chromium	**84**		1.3	0.14	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Cobalt	**12**		0.51	0.051	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Copper	**74**		3.8	1.8	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Lead	**2.3**	**B**	1.3	0.27	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Molybdenum	ND		1.3	0.16	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Nickel	**7.6**		1.3	0.13	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Selenium	ND		2.6	0.38	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Silver	ND		0.64	0.13	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Thallium	ND		1.3	0.37	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Vanadium	**84**		1.3	0.17	mg/Kg		01/26/19 11:54	01/30/19 22:11	4
Zinc	**47**		3.8	1.6	mg/Kg		01/26/19 11:54	01/30/19 22:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.049**	**B**	0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.8**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-AK11S-3.5-4

Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	100000		30000	21000	ug/Kg		01/26/19 12:35	01/26/19 18:41	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*55 - 140*	*01/26/19 12:35*	*01/26/19 18:41*	*100*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*	*01/26/19 12:35*	*01/26/19 18:41*	*100*
Toluene-d8 (Surr)	*101*		*60 - 140*	*01/26/19 12:35*	*01/26/19 18:41*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1500	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,1,1,2-Tetrachloroethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,1,1-Trichloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,1,2,2-Tetrachloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,1,2-Trichloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,1-Dichloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,1-Dichloroethene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,1-Dichloropropene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,2,3-Trichlorobenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,2,4-Trichlorobenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,2,4-Trimethylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,2-Dibromo-3-Chloropropane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,2-Dichlorobenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,2-Dichloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,2-Dichloropropane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,3,5-Trimethylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,3-Dichlorobenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,3-Dichloropropane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,4-Dichlorobenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
2,2-Dichloropropane	ND		590	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
2-Chlorotoluene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
2-Hexanone	ND		3700	1500	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
4-Chlorotoluene	ND		740	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
4-Isopropyltoluene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Benzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Bromobenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Bromoform	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Bromomethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Carbon disulfide	ND		740	370	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Carbon tetrachloride	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Chlorobenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Chlorobromomethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Chloroethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Chloroform	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Chloromethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
cis-1,2-Dichloroethene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
cis-1,3-Dichloropropene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Chlorodibromomethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Dibromomethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Dichlorobromomethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100

Client Sample ID: DG-AK11S-3.5-4
Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Ethylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Hexachlorobutadiene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Isopropylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Methylene Chloride	ND		3000	1500	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Methyl tert-butyl ether	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Naphthalene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
n-Butylbenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
N-Propylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
sec-Butylbenzene	ND		740	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Styrene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
tert-Butylbenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Tetrachloroethene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Toluene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
trans-1,2-Dichloroethene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
trans-1,3-Dichloropropene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Trichloroethene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Trichlorofluoromethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1500	590	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Vinyl acetate	ND		1500	740	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Vinyl chloride	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Xylenes, Total	ND		590	300	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
Ethylene Dibromide	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
2-Butanone (MEK)	ND		3000	1500	ug/Kg		01/26/19 12:35	01/26/19 18:41	100
4-Methyl-2-pentanone (MIBK)	ND		1500	590	ug/Kg		01/26/19 12:35	01/26/19 18:41	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*60 - 140*	*01/26/19 12:35*	*01/26/19 18:41*	*100*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 140*	*01/26/19 12:35*	*01/26/19 18:41*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9500	4700	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Acenaphthene	ND		4700	2700	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Acenaphthylene	ND		4700	2300	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Anthracene	**5600**		4700	1900	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Benzo[a]anthracene	**3300**	**J**	4700	1400	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Benzo[a]pyrene	**4200**	**J B**	4700	1800	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Benzo[b]fluoranthene	**3800**	**J**	4700	2000	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Benzo[g,h,i]perylene	ND		4700	4100	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Benzo[k]fluoranthene	ND		4700	2000	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Chrysene	**6300**		4700	1300	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Dibenz(a,h)anthracene	ND		4700	3300	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Fluoranthene	**2700**	**J**	4700	1300	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Fluorene	**3000**	**J**	4700	2100	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Indeno[1,2,3-cd]pyrene	ND		4700	4000	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Naphthalene	ND		4700	3300	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Phenanthrene	**6500**		4700	1700	ug/Kg		02/04/19 19:08	02/05/19 14:51	200
Pyrene	**16000**		4700	1600	ug/Kg		02/04/19 19:08	02/05/19 14:51	200

Client Sample ID: DG-AK11S-3.5-4

Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	X	33 - 120	02/04/19 19:08	02/05/19 14:51	200
Terphenyl-d14	0	X	35 - 146	02/04/19 19:08	02/05/19 14:51	200

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	34000		470	180	mg/Kg		01/28/19 15:35	02/05/19 03:37	100
Motor Oil Range Organics [C24-C36]	38000		12000	2400	mg/Kg		01/28/19 15:35	02/05/19 03:37	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/05/19 03:37	100

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		38	12	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
4,4'-DDE	ND		38	8.0	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
4,4'-DDT	ND		38	7.8	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Aldrin	ND		38	9.6	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
alpha-BHC	ND		38	11	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
alpha-Chlordane	ND		38	7.6	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
beta-BHC	ND		38	6.9	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Chlordane (n.o.s.)	ND		760	55	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Chlordane (technical)	ND		760	61	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
delta-BHC	ND		38	8.4	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Dieldrin	ND		38	11	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Endosulfan I	ND		38	6.1	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Endosulfan II	ND		38	9.4	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Endosulfan sulfate	ND		38	7.3	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Endrin	ND		38	8.8	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Endrin aldehyde	ND		38	12	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Endrin ketone	ND		38	6.3	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
gamma-BHC (Lindane)	ND		38	12	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
gamma-Chlordane	ND		38	8.8	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Heptachlor	ND		38	8.8	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Heptachlor epoxide	ND		38	6.7	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Methoxychlor	ND		38	13	ug/Kg		01/25/19 13:57	02/05/19 11:01	20
Toxaphene	ND		760	130	ug/Kg		01/25/19 13:57	02/05/19 11:01	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X D	21 - 136	01/25/19 13:57	02/05/19 11:01	20
Tetrachloro-m-xylene	0	X D	21 - 145	01/25/19 13:57	02/05/19 11:01	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 15:34	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 15:34	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 15:34	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 15:34	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 15:34	1
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 15:34	1
Aroclor 1260	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 15:34	1

Client Sample ID: DG-AK11S-3.5-4
Date Collected: 01/22/19 08:20
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-2
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*37*	*X*	*45 - 120*	*01/24/19 13:46*	*01/28/19 15:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**15**		4.3	0.72	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Arsenic	**31**		8.7	0.74	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Barium	**490**	**B**	4.3	0.62	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Beryllium	ND		0.87	0.28	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Cadmium	**7.3**		1.1	0.11	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Chromium	**47**		4.3	0.46	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Cobalt	**10**		1.7	0.17	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Copper	**580**		13	6.2	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Lead	**1800**	**B**	4.3	0.91	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Molybdenum	**1.3**	**J**	4.3	0.56	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Nickel	**53**		4.3	0.44	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Selenium	ND		8.7	1.3	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Silver	**0.99**	**J**	2.2	0.44	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Thallium	ND		4.3	1.3	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Vanadium	**44**		4.3	0.59	mg/Kg		01/26/19 11:54	01/30/19 22:15	10
Zinc	**1300**		13	5.5	mg/Kg		01/26/19 11:54	01/30/19 22:15	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**	**B**	0.015	0.0021	mg/Kg		01/30/19 10:38	01/30/19 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.8**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-AM11S-0.5-1

Date Collected: 01/22/19 08:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	52	ug/Kg		01/26/19 12:50	01/26/19 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*118*		*60 - 120*	*01/26/19 12:50*	*01/26/19 18:29*	*1*
4-Bromofluorobenzene (Surr)	*90*		*79 - 120*	*01/26/19 12:50*	*01/26/19 18:29*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/26/19 12:50*	*01/26/19 18:29*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,1,1-Trichloroethane	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
2-Hexanone	ND		7.5	3.7	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
4-Isopropyltoluene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Benzene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Bromobenzene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Bromoform	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Bromomethane	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Chloroethane	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Chloroform	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Chloromethane	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Dibromomethane	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1

Client Sample ID: DG-AM11S-0.5-1
Date Collected: 01/22/19 08:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Naphthalene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
N-Propylbenzene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Styrene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Tetrachloroethene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Toluene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Trichloroethene	ND	*	0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		01/26/19 12:50	01/26/19 18:29	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/26/19 12:50	01/26/19 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/26/19 12:50*	*01/26/19 18:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/26/19 12:50*	*01/26/19 18:29*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Acenaphthene	ND		4.9	2.8	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Anthracene	ND		4.9	2.0	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Benzo[a]pyrene	**3.1**	**J**	4.9	1.9	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Benzo[b]fluoranthene	**2.6**	**J**	4.9	2.1	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Benzo[g,h,i]perylene	**4.2**	**J**	4.9	4.2	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Benzo[k]fluoranthene	**2.3**	**J B**	4.9	2.1	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Chrysene	ND	*	4.9	1.4	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Fluoranthene	**1.5**	**J**	4.9	1.4	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Fluorene	ND		4.9	2.2	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Naphthalene	ND		4.9	3.4	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Phenanthrene	**2.4**	**J**	4.9	1.8	ug/Kg		01/30/19 10:14	02/02/19 14:12	1
Pyrene	**3.9**	**J**	4.9	1.7	ug/Kg		01/30/19 10:14	02/02/19 14:12	1

Client Sample ID: DG-AM11S-0.5-1

Date Collected: 01/22/19 08:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*33 - 120*	*01/30/19 10:14*	*02/02/19 14:12*	*1*
Terphenyl-d14	*134*		*35 - 146*	*01/30/19 10:14*	*02/02/19 14:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22		1.9	0.72	mg/Kg		01/28/19 15:35	02/05/19 12:20	1
Motor Oil Range Organics [C24-C36]	79		48	9.5	mg/Kg		01/28/19 15:35	02/05/19 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*103*		*40 - 130*	*01/28/19 15:35*	*02/05/19 12:20*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Aldrin	ND		1.9	0.48	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Endrin	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/25/19 13:57	02/05/19 11:17	1
Toxaphene	ND		38	6.5	ug/Kg		01/25/19 13:57	02/05/19 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*21 - 136*	*01/25/19 13:57*	*02/05/19 11:17*	*1*
Tetrachloro-m-xylene	*97*		*21 - 145*	*01/25/19 13:57*	*02/05/19 11:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 14:21	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 14:21	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 14:21	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 14:21	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 14:21	1
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 14:21	1
Aroclor 1260	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 14:21	1

Client Sample ID: DG-AM11S-0.5-1

Date Collected: 01/22/19 08:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*01/24/19 13:46*	*01/25/19 14:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.29	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Arsenic	ND		3.5	0.30	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Barium	**15**		1.8	0.25	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Beryllium	**0.20**	**J**	0.35	0.11	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Cadmium	**0.082**	**J**	0.44	0.044	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Chromium	**8.4**		1.8	0.19	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Cobalt	**13**		0.70	0.070	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Copper	**76**		5.3	2.5	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Lead	**1.9**		1.8	0.37	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Molybdenum	**0.36**	**J**	1.8	0.22	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Nickel	**5.5**	**B**	1.8	0.18	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Selenium	**1.5**	**J**	3.5	0.53	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Silver	ND		0.88	0.18	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Thallium	**1.7**	**J**	1.8	0.51	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Vanadium	**96**		1.8	0.24	mg/Kg		01/25/19 08:59	01/30/19 21:12	4
Zinc	**46**		5.3	2.2	mg/Kg		01/25/19 08:59	01/30/19 21:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.044**		0.015	0.0022	mg/Kg		01/30/19 09:46	01/30/19 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.8**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-AM11S-3.5-4

Date Collected: 01/22/19 08:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	54	ug/Kg		01/26/19 12:50	01/26/19 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*60 - 120*	*01/26/19 12:50*	*01/26/19 18:55*	*1*
4-Bromofluorobenzene (Surr)	*90*		*79 - 120*	*01/26/19 12:50*	*01/26/19 18:55*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*	*01/26/19 12:50*	*01/26/19 18:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Benzene	**0.45**	**J**	0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Bromoform	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Chloroform	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1

Client Sample ID: DG-AM11S-3.5-4

Date Collected: 01/22/19 08:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Styrene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Toluene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Trichloroethene	ND	*	0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/26/19 12:50	01/26/19 18:55	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		01/26/19 12:50	01/26/19 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*	*01/26/19 12:50*	*01/26/19 18:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/26/19 12:50*	*01/26/19 18:55*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		990	500	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Acenaphthene	ND		500	280	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Acenaphthylene	ND		500	240	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Anthracene	ND		500	200	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Benzo[a]anthracene	ND		500	150	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Benzo[a]pyrene	ND		500	190	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Benzo[b]fluoranthene	ND		500	210	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Benzo[g,h,i]perylene	ND		500	430	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Benzo[k]fluoranthene	ND		500	210	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Chrysene	ND		500	140	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Dibenz(a,h)anthracene	ND		500	350	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Fluoranthene	ND		500	140	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Fluorene	ND		500	220	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Indeno[1,2,3-cd]pyrene	ND		500	420	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Naphthalene	ND		500	350	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Phenanthrene	ND		500	180	ug/Kg		01/31/19 12:10	02/05/19 10:56	100
Pyrene	**200**	**J**	500	170	ug/Kg		01/31/19 12:10	02/05/19 10:56	100

Client Sample ID: DG-AM11S-3.5-4

Date Collected: 01/22/19 08:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-4

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		33 - 120	01/31/19 12:10	02/05/19 10:56	100
Terphenyl-d14	108		35 - 146	01/31/19 12:10	02/05/19 10:56	100

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1600		49	18	mg/Kg		01/28/19 15:35	02/05/19 04:06	10
Motor Oil Range Organics [C24-C36]	3300		1200	250	mg/Kg		01/28/19 15:35	02/05/19 04:06	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/05/19 04:06	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.0	1.2	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
4,4'-DDE	ND		4.0	0.83	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
4,4'-DDT	ND		4.0	0.81	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Aldrin	ND		4.0	0.99	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
alpha-BHC	ND		4.0	1.1	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
alpha-Chlordane	ND		4.0	0.79	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
beta-BHC	ND		4.0	0.71	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Chlordane (n.o.s.)	ND		79	5.8	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Chlordane (technical)	ND		79	6.3	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
delta-BHC	ND		4.0	0.87	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Dieldrin	ND		4.0	1.2	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Endosulfan I	ND		4.0	0.63	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Endosulfan II	ND		4.0	0.97	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Endosulfan sulfate	ND		4.0	0.75	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Endrin	ND		4.0	0.91	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Endrin aldehyde	ND		4.0	1.2	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Endrin ketone	ND		4.0	0.65	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
gamma-BHC (Lindane)	ND		4.0	1.2	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
gamma-Chlordane	ND		4.0	0.91	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Heptachlor	ND		4.0	0.91	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Heptachlor epoxide	ND		4.0	0.69	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Methoxychlor	ND		4.0	1.3	ug/Kg		01/25/19 13:57	02/05/19 11:34	2
Toxaphene	ND		79	14	ug/Kg		01/25/19 13:57	02/05/19 11:34	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		21 - 136	01/25/19 13:57	02/05/19 11:34	2
Tetrachloro-m-xylene	96		21 - 145	01/25/19 13:57	02/05/19 11:34	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:32	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:32	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:32	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:32	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:32	1
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:32	1
Aroclor 1260	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Client Sample ID: DG-AM11S-3.5-4

Date Collected: 01/22/19 08:40
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*01/24/19 13:46*	*01/28/19 13:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12		2.6	0.43	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Arsenic	12		5.2	0.44	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Barium	300		2.6	0.37	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Beryllium	0.45	J	0.52	0.17	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Cadmium	1.4		0.64	0.064	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Chromium	47		2.6	0.27	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Cobalt	9.0		1.0	0.10	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Copper	1500		7.7	3.7	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Lead	700		2.6	0.54	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Molybdenum	ND		2.6	0.33	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Nickel	32	B	2.6	0.26	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Selenium	1.7	J	5.2	0.77	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Silver	3.5		1.3	0.26	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Thallium	ND		2.6	0.75	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Vanadium	37		2.6	0.35	mg/Kg		01/25/19 08:59	01/30/19 21:17	10
Zinc	1300		7.7	3.3	mg/Kg		01/25/19 08:59	01/30/19 21:17	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.016	0.0024	mg/Kg		01/30/19 09:46	01/30/19 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-AO11S-0.5-1
Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-5
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/26/19 12:50	01/26/19 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*60 - 120*	*01/26/19 12:50*	*01/26/19 19:21*	*1*
4-Bromofluorobenzene (Surr)	*91*		*79 - 120*	*01/26/19 12:50*	*01/26/19 19:21*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/26/19 12:50*	*01/26/19 19:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,1,1-Trichloroethane	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,1,2-Trichloroethane	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,1-Dichloroethane	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,1-Dichloropropene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,2,4-Trichlorobenzene	ND		4.0	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,2-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,2-Dichloroethane	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,2-Dichloropropane	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,3-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,3-Dichloropropane	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,4-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
2-Hexanone	ND		7.9	4.0	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
4-Isopropyltoluene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Benzene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Bromoform	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Chlorobenzene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Chloroform	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
cis-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
cis-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Chlorodibromomethane	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Dibromomethane	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Dichlorobromomethane	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1

Client Sample ID: DG-AO11S-0.5-1
Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Ethylbenzene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Isopropylbenzene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Methylene Chloride	ND		7.9	4.0	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
N-Propylbenzene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Styrene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Tetrachloroethene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Toluene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
trans-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
trans-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Trichloroethene	ND	*	0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	4.0	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
Ethylene Dibromide	ND		0.79	0.40	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
2-Butanone (MEK)	ND		7.9	4.0	ug/Kg		01/26/19 12:50	01/26/19 19:21	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/26/19 12:50	01/26/19 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/26/19 12:50*	*01/26/19 19:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/26/19 12:50*	*01/26/19 19:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		480	240	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Acenaphthene	ND		240	140	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Acenaphthylene	ND		240	120	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Anthracene	ND		240	97	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Benzo[a]anthracene	ND		240	73	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Benzo[a]pyrene	**230**	**J**	240	92	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Benzo[b]fluoranthene	**250**		240	100	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Benzo[g,h,i]perylene	ND		240	210	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Benzo[k]fluoranthene	**140**	**J B**	240	100	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Chrysene	**69**	**J ***	240	68	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Dibenz(a,h)anthracene	ND		240	170	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Fluoranthene	**120**	**J**	240	68	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Fluorene	ND		240	110	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Indeno[1,2,3-cd]pyrene	ND		240	200	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Naphthalene	ND		240	170	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Phenanthrene	ND		240	87	ug/Kg		01/30/19 10:14	02/04/19 17:45	25
Pyrene	**240**		240	82	ug/Kg		01/30/19 10:14	02/04/19 17:45	25

Client Sample ID: DG-AO11S-0.5-1

Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-5

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		33 - 120	01/30/19 10:14	02/04/19 17:45	25
Terphenyl-d14	177	X	35 - 146	01/30/19 10:14	02/04/19 17:45	25

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	370		19	7.2	mg/Kg		01/28/19 15:35	02/05/19 04:36	10
Motor Oil Range Organics [C24-C36]	970		480	96	mg/Kg		01/28/19 15:35	02/05/19 04:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/05/19 04:36	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	1.2	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
4,4'-DDE	ND		3.8	0.80	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
4,4'-DDT	ND		3.8	0.78	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Aldrin	ND		3.8	0.95	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
alpha-BHC	ND		3.8	1.0	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
alpha-Chlordane	ND		3.8	0.76	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
beta-BHC	ND		3.8	0.68	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Chlordane (n.o.s.)	ND		76	5.5	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Chlordane (technical)	ND		76	6.1	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
delta-BHC	ND		3.8	0.83	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Dieldrin	ND		3.8	1.1	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Endosulfan I	ND		3.8	0.61	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Endosulfan II	ND		3.8	0.93	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Endosulfan sulfate	ND		3.8	0.72	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Endrin	ND		3.8	0.87	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Endrin aldehyde	ND		3.8	1.2	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Endrin ketone	ND		3.8	0.63	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
gamma-BHC (Lindane)	ND		3.8	1.2	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
gamma-Chlordane	ND		3.8	0.87	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Heptachlor	ND		3.8	0.87	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Heptachlor epoxide	ND		3.8	0.66	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Methoxychlor	ND		3.8	1.3	ug/Kg		01/25/19 13:57	02/05/19 11:50	2
Toxaphene	ND		76	13	ug/Kg		01/25/19 13:57	02/05/19 11:50	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		21 - 136	01/25/19 13:57	02/05/19 11:50	2
Tetrachloro-m-xylene	86		21 - 145	01/25/19 13:57	02/05/19 11:50	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 14:48	1
Aroclor 1221	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 14:48	1
Aroclor 1232	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 14:48	1
Aroclor 1242	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 14:48	1
Aroclor 1248	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 14:48	1
Aroclor 1254	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 14:48	1
Aroclor 1260	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 14:48	1

Client Sample ID: DG-AO11S-0.5-1

Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*01/24/19 13:46*	*01/25/19 14:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.2	0.20	mg/Kg		01/25/19 08:59	01/31/19 14:43	4
Arsenic	18		2.4	0.20	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Barium	62		1.2	0.17	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Beryllium	0.19	J	0.24	0.076	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Cadmium	0.33		0.29	0.029	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Chromium	36		1.2	0.12	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Cobalt	10		0.47	0.047	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Copper	60		3.5	1.7	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Lead	71		1.2	0.25	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Molybdenum	0.32	J	1.2	0.15	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Nickel	63	B	1.2	0.12	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Selenium	ND		2.4	0.35	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Silver	ND		0.59	0.12	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Thallium	0.60	J	1.2	0.34	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Vanadium	51		1.2	0.16	mg/Kg		01/25/19 08:59	01/30/19 21:22	4
Zinc	97		3.5	1.5	mg/Kg		01/25/19 08:59	01/30/19 21:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.015	0.0023	mg/Kg		01/30/19 09:46	01/30/19 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			01/23/19 15:43	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Client Sample ID: DG-AO11S-3.5-4
Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-6
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	270000		30000	21000	ug/Kg		01/26/19 12:35	01/26/19 19:09	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*55 - 140*	*01/26/19 12:35*	*01/26/19 19:09*	*200*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*	*01/26/19 12:35*	*01/26/19 19:09*	*200*
Toluene-d8 (Surr)	*102*		*60 - 140*	*01/26/19 12:35*	*01/26/19 19:09*	*200*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1500	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,1,1,2-Tetrachloroethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,1,1-Trichloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,1,2,2-Tetrachloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,1,2-Trichloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,1-Dichloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,1-Dichloroethene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,1-Dichloropropene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,2,3-Trichlorobenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,2,4-Trichlorobenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,2,4-Trimethylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,2-Dibromo-3-Chloropropane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,2-Dichlorobenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,2-Dichloroethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,2-Dichloropropane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,3,5-Trimethylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,3-Dichlorobenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,3-Dichloropropane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,4-Dichlorobenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
2,2-Dichloropropane	ND		590	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
2-Chlorotoluene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
2-Hexanone	ND		3700	1500	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
4-Chlorotoluene	ND		740	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
4-Isopropyltoluene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Benzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Bromobenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Bromoform	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Bromomethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Carbon disulfide	ND		740	370	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Carbon tetrachloride	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Chlorobenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Chlorobromomethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Chloroethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Chloroform	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Chloromethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
cis-1,2-Dichloroethene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
cis-1,3-Dichloropropene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Chlorodibromomethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Dibromomethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Dichlorobromomethane	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200

Client Sample ID: DG-AO11S-3.5-4
Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Ethylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Hexachlorobutadiene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Isopropylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Methylene Chloride	ND		3000	1500	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Methyl tert-butyl ether	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Naphthalene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
n-Butylbenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
N-Propylbenzene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
sec-Butylbenzene	ND		740	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Styrene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
tert-Butylbenzene	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Tetrachloroethene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Toluene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
trans-1,2-Dichloroethene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
trans-1,3-Dichloropropene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Trichloroethene	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Trichlorofluoromethane	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1500	590	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Vinyl acetate	ND		1500	740	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Vinyl chloride	ND		740	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Xylenes, Total	ND		590	300	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
Ethylene Dibromide	ND		300	150	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
2-Butanone (MEK)	ND		3000	1500	ug/Kg		01/26/19 12:35	01/26/19 19:09	200
4-Methyl-2-pentanone (MIBK)	ND		1500	590	ug/Kg		01/26/19 12:35	01/26/19 19:09	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*60 - 140*	*01/26/19 12:35*	*01/26/19 19:09*	*200*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*	*01/26/19 12:35*	*01/26/19 19:09*	*200*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		1000	500	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Acenaphthene	ND		500	280	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Acenaphthylene	ND		500	240	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Anthracene	**720**		500	200	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Benzo[a]anthracene	**240**	**J**	500	150	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Benzo[a]pyrene	**490**	**J B ***	500	190	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Benzo[b]fluoranthene	**390**	**J ***	500	210	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Benzo[g,h,i]perylene	ND	*	500	430	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Benzo[k]fluoranthene	ND	*	500	210	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Chrysene	**660**		500	140	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Dibenz(a,h)anthracene	ND	*	500	350	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Fluoranthene	**340**	**J**	500	140	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Fluorene	ND		500	220	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Indeno[1,2,3-cd]pyrene	ND	*	500	420	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Naphthalene	ND		500	350	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Phenanthrene	ND		500	180	ug/Kg		02/04/19 19:08	02/05/19 15:14	100
Pyrene	**1700**		500	170	ug/Kg		02/04/19 19:08	02/05/19 15:14	100

Client Sample ID: DG-AO11S-3.5-4

Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-6

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		33 - 120	02/04/19 19:08	02/05/19 15:14	100
Terphenyl-d14	147	X	35 - 146	02/04/19 19:08	02/05/19 15:14	100

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14000		250	93	mg/Kg		01/28/19 15:35	02/04/19 23:42	50
Motor Oil Range Organics [C24-C36]	15000		6200	1200	mg/Kg		01/28/19 15:35	02/04/19 23:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/04/19 23:42	50

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.5	2.9	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
4,4'-DDE	ND		9.5	2.0	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
4,4'-DDT	ND		9.5	1.9	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Aldrin	ND		9.5	2.4	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
alpha-BHC	ND		9.5	2.6	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
alpha-Chlordane	ND		9.5	1.9	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
beta-BHC	ND		9.5	1.7	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Chlordane (n.o.s.)	ND		190	14	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Chlordane (technical)	ND		190	15	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
delta-BHC	ND		9.5	2.1	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Dieldrin	ND		9.5	2.8	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Endosulfan I	ND		9.5	1.5	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Endosulfan II	ND		9.5	2.3	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Endosulfan sulfate	ND		9.5	1.8	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Endrin	ND		9.5	2.2	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Endrin aldehyde	ND		9.5	3.0	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Endrin ketone	ND		9.5	1.6	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
gamma-BHC (Lindane)	ND		9.5	3.0	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
gamma-Chlordane	ND		9.5	2.2	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Heptachlor	ND		9.5	2.2	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Heptachlor epoxide	ND		9.5	1.7	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Methoxychlor	ND		9.5	3.2	ug/Kg		01/25/19 13:57	02/05/19 12:07	5
Toxaphene	ND		190	32	ug/Kg		01/25/19 13:57	02/05/19 12:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		21 - 136	01/25/19 13:57	02/05/19 12:07	5
Tetrachloro-m-xylene	61	p	21 - 145	01/25/19 13:57	02/05/19 12:07	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 15:07	1
Aroclor 1221	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 15:07	1
Aroclor 1232	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 15:07	1
Aroclor 1242	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 15:07	1
Aroclor 1248	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 15:07	1
Aroclor 1254	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 15:07	1
Aroclor 1260	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 15:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Client Sample ID: DG-AO11S-3.5-4

Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*01/24/19 13:46*	*01/28/19 15:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**24**		3.7	0.61	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Arsenic	**150**		7.4	0.63	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Barium	**350**		1.5	0.21	mg/Kg		01/25/19 08:59	01/30/19 21:27	4
Beryllium	**0.52**		0.30	0.096	mg/Kg		01/25/19 08:59	01/30/19 21:27	4
Cadmium	**0.35**	**J**	0.93	0.092	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Chromium	**28**		3.7	0.39	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Cobalt	**18**		1.5	0.15	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Copper	**310**		11	5.3	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Lead	**1700**		3.7	0.78	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Molybdenum	**0.98**	**J**	1.5	0.19	mg/Kg		01/25/19 08:59	01/30/19 21:27	4
Nickel	**49**	**B**	3.7	0.38	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Selenium	ND		7.4	1.1	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Silver	**0.86**	**J**	1.9	0.37	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Thallium	ND		3.7	1.1	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Vanadium	**30**		3.7	0.50	mg/Kg		01/25/19 08:59	01/31/19 14:47	10
Zinc	**430**		11	4.7	mg/Kg		01/25/19 08:59	01/31/19 14:47	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.016	0.0024	mg/Kg		01/30/19 09:46	01/30/19 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.3**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-AB13S-0.5-1

Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		01/26/19 12:50	01/26/19 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*60 - 120*	*01/26/19 12:50*	*01/26/19 19:48*	*1*
4-Bromofluorobenzene (Surr)	*89*		*79 - 120*	*01/26/19 12:50*	*01/26/19 19:48*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/26/19 12:50*	*01/26/19 19:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,1,1-Trichloroethane	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,1,2-Trichloroethane	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,1-Dichloroethane	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,1-Dichloropropene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,2,4-Trichlorobenzene	ND		3.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,2-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,2-Dichloroethane	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,2-Dichloropropane	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,3-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,3-Dichloropropane	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,4-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
2-Hexanone	ND		6.9	3.4	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
4-Isopropyltoluene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Benzene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Bromoform	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Chlorobenzene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Chloroform	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
cis-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
cis-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Chlorodibromomethane	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Dibromomethane	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Dichlorobromomethane	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1

Client Sample ID: DG-AB13S-0.5-1
Date Collected: 01/22/19 11:00
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Lab Sample ID: 720-90961-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Ethylbenzene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Isopropylbenzene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Methylene Chloride	ND		6.9	3.4	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
N-Propylbenzene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Styrene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Tetrachloroethene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Toluene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
trans-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
trans-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Trichloroethene	ND	*	0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.4	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
Ethylene Dibromide	ND		0.69	0.34	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
2-Butanone (MEK)	ND		6.9	3.4	ug/Kg		01/26/19 12:50	01/26/19 19:48	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/26/19 12:50	01/26/19 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/26/19 12:50*	*01/26/19 19:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/26/19 12:50*	*01/26/19 19:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		240	120	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Acenaphthene	ND		120	66	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Acenaphthylene	ND		120	57	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Anthracene	**48**	**J**	120	47	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Benzo[a]anthracene	ND		120	35	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Benzo[a]pyrene	**91**	**J B**	120	45	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Benzo[b]fluoranthene	**140**		120	50	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Benzo[g,h,i]perylene	**110**	**J**	120	100	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Benzo[k]fluoranthene	**71**	**J B**	120	50	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Chrysene	**71**	**J**	120	33	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Dibenz(a,h)anthracene	ND		120	83	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Fluoranthene	**57**	**J**	120	33	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Fluorene	ND		120	52	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Indeno[1,2,3-cd]pyrene	ND		120	99	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Naphthalene	ND		120	83	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Phenanthrene	**81**	**J**	120	42	ug/Kg		02/04/19 19:08	02/05/19 15:38	25
Pyrene	**110**	**J**	120	40	ug/Kg		02/04/19 19:08	02/05/19 15:38	25

Client Sample ID: DG-AB13S-0.5-1

Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*33 - 120*	*02/04/19 19:08*	*02/05/19 15:38*	*25*
Terphenyl-d14	*135*		*35 - 146*	*02/04/19 19:08*	*02/05/19 15:38*	*25*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**610**		19	7.1	mg/Kg		01/28/19 15:35	02/05/19 00:12	10
Motor Oil Range Organics [C24-C36]	**1300**		480	95	mg/Kg		01/28/19 15:35	02/05/19 00:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/28/19 15:35*	*02/05/19 00:12*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Aldrin	ND		1.9	0.48	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Endrin	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/25/19 13:57	02/05/19 12:23	1
Toxaphene	ND		39	6.6	ug/Kg		01/25/19 13:57	02/05/19 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*540*	*X*	*21 - 136*	*01/25/19 13:57*	*02/05/19 12:23*	*1*
Tetrachloro-m-xylene	*84*		*21 - 145*	*01/25/19 13:57*	*02/05/19 12:23*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 15:15	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 15:15	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 15:15	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 15:15	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 15:15	1
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 15:15	1
Aroclor 1260	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 15:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Client Sample ID: DG-AB13S-0.5-1

Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*311*	*X*	*45 - 120*	*01/24/19 13:46*	*01/25/19 15:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**540**		3.6	0.59	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Arsenic	**22**		7.1	0.61	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Barium	**180**		3.6	0.51	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Beryllium	ND		0.71	0.23	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Cadmium	**1.8**		0.89	0.089	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Chromium	**76**		3.6	0.38	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Cobalt	**19**		1.4	0.14	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Copper	**3000**		11	5.1	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Lead	**7400**		3.6	0.75	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Molybdenum	**6.2**		3.6	0.46	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Nickel	**170**	**B**	3.6	0.36	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Selenium	**3.2**	**J**	7.1	1.1	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Silver	ND		1.8	0.36	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Thallium	ND		3.6	1.0	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Vanadium	**74**		3.6	0.49	mg/Kg		01/25/19 08:59	01/30/19 21:31	10
Zinc	**1300**		11	4.5	mg/Kg		01/25/19 08:59	01/30/19 21:31	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.35**		0.016	0.0023	mg/Kg		01/30/19 09:46	01/30/19 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-AB13S-3.5-4

Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		81	57	ug/Kg		01/26/19 12:50	01/26/19 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*60 - 120*	*01/26/19 12:50*	*01/26/19 20:14*	*1*
4-Bromofluorobenzene (Surr)	*87*		*79 - 120*	*01/26/19 12:50*	*01/26/19 20:14*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/26/19 12:50*	*01/26/19 20:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.1	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,1,1-Trichloroethane	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,1,2-Trichloroethane	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,1-Dichloroethane	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,1-Dichloroethene	ND		1.6	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,1-Dichloropropene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,2,3-Trichlorobenzene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,2,4-Trichlorobenzene	ND		4.1	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,2,4-Trimethylbenzene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,2-Dichlorobenzene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,2-Dichloroethane	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,2-Dichloropropane	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,3,5-Trimethylbenzene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,3-Dichlorobenzene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,3-Dichloropropane	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,4-Dichlorobenzene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
2,2-Dichloropropane	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
2-Chlorotoluene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
2-Hexanone	ND		8.1	4.1	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
4-Chlorotoluene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
4-Isopropyltoluene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Benzene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Bromobenzene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Bromoform	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Bromomethane	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Carbon disulfide	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Carbon tetrachloride	ND		1.6	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Chlorobenzene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Chlorobromomethane	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Chloroethane	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Chloroform	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Chloromethane	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
cis-1,2-Dichloroethene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
cis-1,3-Dichloropropene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Chlorodibromomethane	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Dibromomethane	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Dichlorobromomethane	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1

Client Sample ID: DG-AB13S-3.5-4
Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Ethylbenzene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Hexachlorobutadiene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Isopropylbenzene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Methylene Chloride	ND		8.1	4.1	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Methyl tert-butyl ether	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Naphthalene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
n-Butylbenzene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
N-Propylbenzene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
sec-Butylbenzene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Styrene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
tert-Butylbenzene	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Tetrachloroethene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Toluene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
trans-1,2-Dichloroethene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
trans-1,3-Dichloropropene	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Trichloroethene	ND	*	0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Trichlorofluoromethane	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.1	4.1	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Vinyl acetate	ND		6.5	3.2	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Vinyl chloride	ND		1.6	0.81	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Xylenes, Total	ND		1.6	1.1	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
Ethylene Dibromide	ND		0.81	0.41	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
2-Butanone (MEK)	ND		8.1	4.1	ug/Kg		01/26/19 12:50	01/26/19 20:14	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.0	ug/Kg		01/26/19 12:50	01/26/19 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/26/19 12:50*	*01/26/19 20:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/26/19 12:50*	*01/26/19 20:14*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.6	4.8	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Anthracene	**3.0**	**J**	4.8	1.9	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Benzo[a]anthracene	**1.8**	**J**	4.8	1.4	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Benzo[a]pyrene	**4.4**	**J**	4.8	1.8	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Benzo[b]fluoranthene	**5.3**		4.8	2.0	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Benzo[g,h,i]perylene	**5.8**		4.8	4.1	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Benzo[k]fluoranthene	**3.0**	**J B**	4.8	2.0	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Chrysene	**3.3**	**J ***	4.8	1.3	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Fluoranthene	**4.6**	**J**	4.8	1.3	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Fluorene	ND		4.8	2.1	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.0	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Naphthalene	ND		4.8	3.4	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Phenanthrene	**4.7**	**J**	4.8	1.7	ug/Kg		01/30/19 10:14	02/02/19 14:35	1
Pyrene	**7.5**		4.8	1.6	ug/Kg		01/30/19 10:14	02/02/19 14:35	1

Client Sample ID: DG-AB13S-3.5-4

Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-8

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		33 - 120	01/30/19 10:14	02/02/19 14:35	1
Terphenyl-d14	134		35 - 146	01/30/19 10:14	02/02/19 14:35	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	54		1.9	0.73	mg/Kg		01/28/19 15:35	02/01/19 02:29	1
Motor Oil Range Organics [C24-C36]	120		48	9.7	mg/Kg		01/28/19 15:35	02/01/19 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	87		40 - 130	01/28/19 15:35	02/01/19 02:29	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Aldrin	ND		1.9	0.48	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Endrin	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/25/19 13:57	02/05/19 12:39	1
Toxaphene	ND		38	6.5	ug/Kg		01/25/19 13:57	02/05/19 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		21 - 136	01/25/19 13:57	02/05/19 12:39	1
Tetrachloro-m-xylene	101		21 - 145	01/25/19 13:57	02/05/19 12:39	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 15:28	1
Aroclor 1221	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 15:28	1
Aroclor 1232	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 15:28	1
Aroclor 1242	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 15:28	1
Aroclor 1248	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 15:28	1
Aroclor 1254	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 15:28	1
Aroclor 1260	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 15:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Client Sample ID: DG-AB13S-3.5-4

Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*01/24/19 13:46*	*01/25/19 15:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**37**		1.6	0.26	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Arsenic	**12**		3.1	0.26	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Barium	**30**		1.6	0.22	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Beryllium	ND		0.31	0.10	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Cadmium	**0.25**	**J**	0.39	0.038	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Chromium	**19**		1.6	0.16	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Cobalt	**3.0**		0.62	0.062	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Copper	**120**		4.7	2.2	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Lead	**480**		1.6	0.33	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Nickel	**23**	**B**	1.6	0.16	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Selenium	ND		3.1	0.47	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Silver	ND		0.78	0.16	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Thallium	ND		1.6	0.45	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Vanadium	**10**		1.6	0.21	mg/Kg		01/25/19 08:59	01/30/19 21:36	4
Zinc	**100**		4.7	2.0	mg/Kg		01/25/19 08:59	01/30/19 21:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.015	0.0023	mg/Kg		01/30/19 09:46	01/30/19 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.8**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-AB13S-13.5-14

Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**2400000**		120000	84000	ug/Kg		01/26/19 12:35	01/26/19 19:36	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*55 - 140*	*01/26/19 12:35*	*01/26/19 19:36*	*500*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*	*01/26/19 12:35*	*01/26/19 19:36*	*500*
Toluene-d8 (Surr)	*103*		*60 - 140*	*01/26/19 12:35*	*01/26/19 19:36*	*500*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,1,1,2-Tetrachloroethane	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,1,1-Trichloroethane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,1,2,2-Tetrachloroethane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,1,2-Trichloroethane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,1-Dichloroethane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,1-Dichloroethene	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,1-Dichloropropene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,2,3-Trichlorobenzene	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,2,4-Trichlorobenzene	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,2,4-Trimethylbenzene	**8600**		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,2-Dibromo-3-Chloropropane	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,2-Dichlorobenzene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,2-Dichloroethane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,2-Dichloropropane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,3,5-Trimethylbenzene	**1800**		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,3-Dichlorobenzene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,3-Dichloropropane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,4-Dichlorobenzene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
2,2-Dichloropropane	ND		2400	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
2-Chlorotoluene	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
2-Hexanone	ND		15000	6000	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
4-Chlorotoluene	ND		3000	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
4-Isopropyltoluene	**2100**		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Benzene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Bromobenzene	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Bromoform	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Bromomethane	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Carbon disulfide	ND		3000	1500	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Carbon tetrachloride	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Chlorobenzene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Chlorobromomethane	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Chloroethane	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Chloroform	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Chloromethane	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
cis-1,2-Dichloroethene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
cis-1,3-Dichloropropene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Chlorodibromomethane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Dibromomethane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Dichlorobromomethane	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500

Client Sample ID: DG-AB13S-13.5-14
Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Ethylbenzene	**730**	**J**	1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Hexachlorobutadiene	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Isopropylbenzene	**1200**		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Methylene Chloride	ND		12000	6000	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Methyl tert-butyl ether	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Naphthalene	**7400**		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
n-Butylbenzene	**3800**		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
N-Propylbenzene	**2100**		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
sec-Butylbenzene	**1000**	**J**	3000	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Styrene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
tert-Butylbenzene	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Tetrachloroethene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Toluene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
trans-1,2-Dichloroethene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
trans-1,3-Dichloropropene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Trichloroethene	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Trichlorofluoromethane	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6000	2400	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Vinyl acetate	ND		6000	3000	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Vinyl chloride	ND		3000	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Xylenes, Total	**7600**		2400	1200	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
Ethylene Dibromide	ND		1200	600	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
2-Butanone (MEK)	ND		12000	6000	ug/Kg		01/26/19 12:35	01/26/19 19:36	500
4-Methyl-2-pentanone (MIBK)	ND		6000	2400	ug/Kg		01/26/19 12:35	01/26/19 19:36	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*60 - 140*	*01/26/19 12:35*	*01/26/19 19:36*	*500*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*	*01/26/19 12:35*	*01/26/19 19:36*	*500*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**76000**		20000	10000	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Acenaphthene	**25000**		10000	5600	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Acenaphthylene	**6200**	**J**	10000	4800	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Anthracene	**32000**		10000	4000	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Benzo[a]anthracene	**19000**		10000	3000	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Benzo[a]pyrene	**14000**	**B**	10000	3800	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Benzo[b]fluoranthene	**8400**	**J**	10000	4200	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Benzo[g,h,i]perylene	ND		10000	8600	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Benzo[k]fluoranthene	**4700**	**J B**	10000	4200	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Chrysene	**31000**		10000	2800	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Dibenz(a,h)anthracene	ND		10000	7000	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Fluoranthene	**10000**		10000	2800	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Fluorene	**33000**		10000	4400	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Indeno[1,2,3-cd]pyrene	ND		10000	8400	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Naphthalene	**13000**		10000	7000	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Phenanthrene	**100000**		10000	3600	ug/Kg		02/04/19 19:08	02/05/19 16:01	200
Pyrene	**63000**		10000	3400	ug/Kg		02/04/19 19:08	02/05/19 16:01	200

Client Sample ID: DG-AB13S-13.5-14

Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-9

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	X	33 - 120	02/04/19 19:08	02/05/19 16:01	200
Terphenyl-d14	0	X	35 - 146	02/04/19 19:08	02/05/19 16:01	200

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	94000		970	370	mg/Kg		01/28/19 15:35	02/05/19 00:41	100
Motor Oil Range Organics [C24-C36]	86000		24000	4900	mg/Kg		01/28/19 15:35	02/05/19 00:41	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/05/19 00:41	100

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		38	12	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
4,4'-DDE	ND		38	8.0	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
4,4'-DDT	ND		38	7.8	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Aldrin	ND		38	9.5	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
alpha-BHC	ND		38	10	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
alpha-Chlordane	ND		38	7.6	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
beta-BHC	ND		38	6.9	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Chlordane (n.o.s.)	ND		760	55	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Chlordane (technical)	ND		760	61	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
delta-BHC	ND		38	8.4	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Dieldrin	ND		38	11	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Endosulfan I	ND		38	6.1	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Endosulfan II	ND		38	9.3	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Endosulfan sulfate	ND		38	7.2	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Endrin	ND		38	8.8	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Endrin aldehyde	ND		38	12	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Endrin ketone	ND		38	6.3	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
gamma-BHC (Lindane)	ND		38	12	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
gamma-Chlordane	ND		38	8.8	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Heptachlor	ND		38	8.8	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Heptachlor epoxide	ND		38	6.7	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Methoxychlor	ND		38	13	ug/Kg		01/25/19 13:57	02/05/19 12:55	20
Toxaphene	ND		760	130	ug/Kg		01/25/19 13:57	02/05/19 12:55	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X D	21 - 136	01/25/19 13:57	02/05/19 12:55	20
Tetrachloro-m-xylene	0	X D	21 - 145	01/25/19 13:57	02/05/19 12:55	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		430	150	ug/Kg		01/24/19 13:46	01/28/19 14:40	1
Aroclor 1221	ND		430	150	ug/Kg		01/24/19 13:46	01/28/19 14:40	1
Aroclor 1232	ND		430	150	ug/Kg		01/24/19 13:46	01/28/19 14:40	1
Aroclor 1242	ND		430	150	ug/Kg		01/24/19 13:46	01/28/19 14:40	1
Aroclor 1248	ND		430	150	ug/Kg		01/24/19 13:46	01/28/19 14:40	1
Aroclor 1254	ND		430	150	ug/Kg		01/24/19 13:46	01/28/19 14:40	1
Aroclor 1260	ND		430	150	ug/Kg		01/24/19 13:46	01/28/19 14:40	1

Client Sample ID: DG-AB13S-13.5-14

Date Collected: 01/22/19 11:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*	*01/24/19 13:46*	*01/28/19 14:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.3**		1.7	0.29	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Arsenic	**8.9**		3.5	0.30	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Barium	**35**		1.7	0.25	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Beryllium	**0.42**		0.35	0.11	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Cadmium	**0.20**	**J**	0.43	0.043	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Chromium	**25**		1.7	0.18	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Cobalt	**10**		0.70	0.070	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Copper	**44**		5.2	2.5	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Lead	**62**		1.7	0.37	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Molybdenum	**1.1**	**J**	1.7	0.22	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Nickel	**40**	**B**	1.7	0.18	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Selenium	ND		3.5	0.52	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Silver	ND		0.87	0.18	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Thallium	**0.79**	**J**	1.7	0.50	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Vanadium	**41**		1.7	0.24	mg/Kg		01/25/19 08:59	01/30/19 21:41	4
Zinc	**84**		5.2	2.2	mg/Kg		01/25/19 08:59	01/30/19 21:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0070**	**J**	0.015	0.0022	mg/Kg		01/30/19 09:46	01/30/19 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-AA15S-0.5-1

Date Collected: 01/22/19 13:45
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/26/19 12:50	01/26/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*60 - 120*	*01/26/19 12:50*	*01/26/19 20:41*	*1*
4-Bromofluorobenzene (Surr)	*93*		*79 - 120*	*01/26/19 12:50*	*01/26/19 20:41*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/26/19 12:50*	*01/26/19 20:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,1,1-Trichloroethane	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,1,2-Trichloroethane	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,1-Dichloroethane	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,1-Dichloropropene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,2,4-Trichlorobenzene	ND		3.9	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,2-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,2-Dichloroethane	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,2-Dichloropropane	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,3-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,3-Dichloropropane	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,4-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
2-Hexanone	ND		7.9	3.9	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
4-Isopropyltoluene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Benzene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Bromoform	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Chlorobenzene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Chloroform	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
cis-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
cis-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Chlorodibromomethane	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Dibromomethane	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Dichlorobromomethane	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1

Client Sample ID: DG-AA15S-0.5-1

Date Collected: 01/22/19 13:45
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Ethylbenzene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Isopropylbenzene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Methylene Chloride	ND		7.9	3.9	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
N-Propylbenzene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Styrene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Tetrachloroethene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Toluene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
trans-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
trans-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Trichloroethene	ND	*	0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	3.9	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Vinyl acetate	ND		6.3	3.1	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
Ethylene Dibromide	ND		0.79	0.39	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
2-Butanone (MEK)	ND		7.9	3.9	ug/Kg		01/26/19 12:50	01/26/19 20:41	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/26/19 12:50	01/26/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/26/19 12:50*	*01/26/19 20:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/26/19 12:50*	*01/26/19 20:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		390	200	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Acenaphthene	ND		200	110	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Acenaphthylene	ND		200	95	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Anthracene	ND		200	79	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Benzo[a]anthracene	ND		200	59	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Benzo[a]pyrene	**130**	**J ***	200	75	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Benzo[b]fluoranthene	**160**	**J ***	200	83	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Benzo[g,h,i]perylene	ND	*	200	170	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Benzo[k]fluoranthene	**110**	**J B ***	200	83	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Chrysene	ND	*	200	55	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Dibenz(a,h)anthracene	ND	*	200	140	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Fluoranthene	**78**	**J**	200	55	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Fluorene	ND		200	87	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Indeno[1,2,3-cd]pyrene	ND	*	200	170	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Naphthalene	ND		200	140	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Phenanthrene	ND		200	71	ug/Kg		01/30/19 10:14	02/04/19 19:20	20
Pyrene	**130**	**J**	200	67	ug/Kg		01/30/19 10:14	02/04/19 19:20	20

Client Sample ID: DG-AA15S-0.5-1

Date Collected: 01/22/19 13:45
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-10

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		33 - 120	01/30/19 10:14	02/04/19 19:20	20
Terphenyl-d14	174	X	35 - 146	01/30/19 10:14	02/04/19 19:20	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400		39	14	mg/Kg		01/28/19 15:35	02/05/19 01:11	20
Motor Oil Range Organics [C24-C36]	3100		960	190	mg/Kg		01/28/19 15:35	02/05/19 01:11	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/28/19 15:35	02/05/19 01:11	20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	1.1	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
4,4'-DDE	ND		3.8	0.79	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
4,4'-DDT	ND		3.8	0.77	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Aldrin	ND		3.8	0.94	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
alpha-BHC	ND		3.8	1.0	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
alpha-Chlordane	ND		3.8	0.75	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
beta-BHC	ND		3.8	0.68	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Chlordane (n.o.s.)	ND		75	5.5	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Chlordane (technical)	ND		75	6.0	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
delta-BHC	ND		3.8	0.83	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Dieldrin	ND		3.8	1.1	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Endosulfan I	ND		3.8	0.60	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Endosulfan II	ND		3.8	0.92	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Endosulfan sulfate	ND		3.8	0.71	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Endrin	ND		3.8	0.87	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Endrin aldehyde	ND		3.8	1.2	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Endrin ketone	ND		3.8	0.62	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
gamma-BHC (Lindane)	ND		3.8	1.2	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
gamma-Chlordane	ND		3.8	0.87	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Heptachlor	ND		3.8	0.87	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Heptachlor epoxide	ND		3.8	0.66	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Methoxychlor	ND		3.8	1.3	ug/Kg		01/28/19 14:12	02/01/19 12:23	2
Toxaphene	ND		75	13	ug/Kg		01/28/19 14:12	02/01/19 12:23	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92	p	21 - 136	01/28/19 14:12	02/01/19 12:23	2
Tetrachloro-m-xylene	89		21 - 145	01/28/19 14:12	02/01/19 12:23	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:46	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:46	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:46	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:46	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:46	1
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:46	1
Aroclor 1260	ND		50	17	ug/Kg		01/24/19 13:46	01/28/19 13:46	1

Client Sample ID: DG-AA15S-0.5-1
Date Collected: 01/22/19 13:45
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-10
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*01/24/19 13:46*	*01/28/19 13:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.7**		1.4	0.24	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Arsenic	**3.6**		2.9	0.24	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Barium	**38**		1.4	0.20	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Beryllium	**0.13**	**J**	0.29	0.094	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Cadmium	**0.26**	**J**	0.36	0.036	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Chromium	**27**		1.4	0.15	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Cobalt	**5.5**		0.58	0.058	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Copper	**74**		4.3	2.0	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Lead	**120**		1.4	0.30	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Molybdenum	**0.20**	**J**	1.4	0.18	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Nickel	**26**	**B**	1.4	0.15	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Selenium	ND		2.9	0.43	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Silver	ND		0.72	0.15	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Thallium	ND		1.4	0.42	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Vanadium	**36**		1.4	0.20	mg/Kg		01/25/19 08:59	01/30/19 21:46	4
Zinc	**53**		4.3	1.8	mg/Kg		01/25/19 08:59	01/30/19 21:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.016	0.0023	mg/Kg		01/30/19 09:46	01/30/19 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.3**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-X13S-0.5-1

Date Collected: 01/22/19 14:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		110	74	ug/Kg		01/26/19 12:50	01/26/19 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*60 - 120*	*01/26/19 12:50*	*01/26/19 13:30*	*1*
4-Bromofluorobenzene (Surr)	*88*		*79 - 120*	*01/26/19 12:50*	*01/26/19 13:30*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/26/19 12:50*	*01/26/19 13:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,1,1,2-Tetrachloroethane	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,1,1-Trichloroethane	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,1,2-Trichloroethane	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,1-Dichloroethane	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,1-Dichloroethene	ND		2.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,1-Dichloropropene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,2,3-Trichlorobenzene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,2,4-Trichlorobenzene	ND		5.3	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,2,4-Trimethylbenzene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,2-Dichlorobenzene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,2-Dichloroethane	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,2-Dichloropropane	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,3,5-Trimethylbenzene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,3-Dichlorobenzene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,3-Dichloropropane	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,4-Dichlorobenzene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
2,2-Dichloropropane	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
2-Chlorotoluene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
2-Hexanone	ND		11	5.3	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
4-Chlorotoluene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
4-Isopropyltoluene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Benzene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Bromobenzene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Bromoform	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Bromomethane	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Carbon disulfide	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Carbon tetrachloride	ND		2.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Chlorobenzene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Chlorobromomethane	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Chloroethane	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Chloroform	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Chloromethane	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
cis-1,2-Dichloroethene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
cis-1,3-Dichloropropene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Chlorodibromomethane	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Dibromomethane	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Dichlorobromomethane	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1

Client Sample ID: DG-X13S-0.5-1

Date Collected: 01/22/19 14:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Ethylbenzene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Hexachlorobutadiene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Isopropylbenzene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Methylene Chloride	ND		11	5.3	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Methyl tert-butyl ether	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Naphthalene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
n-Butylbenzene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
N-Propylbenzene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
sec-Butylbenzene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Styrene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
tert-Butylbenzene	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Tetrachloroethene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Toluene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
trans-1,2-Dichloroethene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
trans-1,3-Dichloropropene	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Trichloroethene	ND	*	1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Trichlorofluoromethane	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.3	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Vinyl acetate	ND	F1	8.5	4.2	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Vinyl chloride	ND		2.1	1.1	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Xylenes, Total	ND		2.1	1.4	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
Ethylene Dibromide	ND		1.1	0.53	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
2-Butanone (MEK)	ND		11	5.3	ug/Kg		01/26/19 12:50	01/26/19 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.3	2.6	ug/Kg		01/26/19 12:50	01/26/19 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/26/19 12:50*	*01/26/19 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/26/19 12:50*	*01/26/19 13:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		390	190	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Acenaphthene	ND		190	110	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Acenaphthylene	ND		190	93	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Anthracene	**100**	**J**	190	77	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Benzo[a]anthracene	**180**	**J**	190	58	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Benzo[a]pyrene	**240**	**B**	190	73	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Benzo[b]fluoranthene	**590**		190	81	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Benzo[g,h,i]perylene	**210**	**F1**	190	170	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Benzo[k]fluoranthene	**210**	**B**	190	81	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Chrysene	**270**		190	54	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Dibenz(a,h)anthracene	ND		190	130	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Fluoranthene	**130**	**J**	190	54	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Fluorene	ND		190	85	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Indeno[1,2,3-cd]pyrene	**200**		190	160	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Naphthalene	ND		190	130	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Phenanthrene	ND		190	69	ug/Kg		02/04/19 19:08	02/05/19 14:04	40
Pyrene	**210**		190	66	ug/Kg		02/04/19 19:08	02/05/19 14:04	40

Client Sample ID: DG-X13S-0.5-1

Date Collected: 01/22/19 14:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*33 - 120*	*01/30/19 10:14*	*02/04/19 16:35*	*20*
2-Fluorobiphenyl	*79*		*33 - 120*	*02/04/19 19:08*	*02/05/19 14:04*	*40*
Terphenyl-d14	*171*	*X*	*35 - 146*	*01/30/19 10:14*	*02/04/19 16:35*	*20*
Terphenyl-d14	*155*	*X*	*35 - 146*	*02/04/19 19:08*	*02/05/19 14:04*	*40*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**490**		9.7	3.6	mg/Kg		01/30/19 10:50	02/01/19 11:24	5
Motor Oil Range Organics [C24-C36]	**1300**		240	48	mg/Kg		01/30/19 10:50	02/01/19 11:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/30/19 10:50*	*02/01/19 11:24*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1	2.0	0.60	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Aldrin	ND		2.0	0.49	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Endrin	ND		2.0	0.45	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/28/19 14:12	02/01/19 12:05	1
Toxaphene	ND		39	6.6	ug/Kg		01/28/19 14:12	02/01/19 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*	*p*	*21 - 136*	*01/28/19 14:12*	*02/01/19 12:05*	*1*
Tetrachloro-m-xylene	*50*	*p*	*21 - 145*	*01/28/19 14:12*	*02/01/19 12:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 13:40	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 13:40	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 13:40	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 13:40	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 13:40	1

Client Sample ID: DG-X13S-0.5-1

Date Collected: 01/22/19 14:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-11

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 13:40	1
Aroclor 1260	**22**	**J**	50	17	ug/Kg		01/24/19 13:46	01/25/19 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*01/24/19 13:46*	*01/25/19 13:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**7.0**	**F1**	2.9	0.49	mg/Kg		01/25/19 08:59	01/31/19 14:38	10
Arsenic	**6.6**		5.8	0.50	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Barium	**230**		2.9	0.42	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Beryllium	ND		0.58	0.19	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Cadmium	**2.3**		0.73	0.073	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Chromium	**35**		2.9	0.31	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Cobalt	**10**		1.2	0.12	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Copper	**240**	**F2**	8.8	4.2	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Lead	**950**	**F2**	2.9	0.61	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Molybdenum	**1.2**	**J**	2.9	0.37	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Nickel	**34**	**B**	2.9	0.30	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Selenium	**1.8**	**J**	5.8	0.88	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Silver	**1.4**	**J**	1.5	0.30	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Thallium	ND		2.9	0.85	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Vanadium	**65**		2.9	0.40	mg/Kg		01/25/19 08:59	01/30/19 21:08	10
Zinc	**530**		8.8	3.7	mg/Kg		01/25/19 08:59	01/30/19 21:08	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.016	0.0024	mg/Kg		01/30/19 09:46	01/30/19 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.8**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DUP-77

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-12

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		94	66	ug/Kg		01/22/19 19:00	01/29/19 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/22/19 19:00*	*01/29/19 13:09*	*1*
4-Bromofluorobenzene (Surr)	*87*		*79 - 120*	*01/22/19 19:00*	*01/29/19 13:09*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/22/19 19:00*	*01/29/19 13:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.4	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,1,1-Trichloroethane	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,1,2-Trichloroethane	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,1-Dichloroethane	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,1-Dichloropropene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,2,3-Trichlorobenzene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,2,4-Trichlorobenzene	ND		4.7	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,2,4-Trimethylbenzene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,2-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,2-Dichloroethane	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,2-Dichloropropane	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,3,5-Trimethylbenzene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,3-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,3-Dichloropropane	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,4-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
2-Chlorotoluene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
2-Hexanone	ND		9.4	4.7	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
4-Chlorotoluene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
4-Isopropyltoluene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Benzene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Bromobenzene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Bromoform	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Bromomethane	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Carbon disulfide	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Chlorobenzene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Chlorobromomethane	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Chloroethane	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Chloroform	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Chloromethane	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
cis-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
cis-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Chlorodibromomethane	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Dibromomethane	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Dichlorobromomethane	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1

Client Sample ID: DUP-77

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Ethylbenzene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Hexachlorobutadiene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Isopropylbenzene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Methylene Chloride	ND		9.4	4.7	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Methyl tert-butyl ether	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Naphthalene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
n-Butylbenzene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
N-Propylbenzene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
sec-Butylbenzene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Styrene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
tert-Butylbenzene	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Tetrachloroethene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Toluene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
trans-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
trans-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Trichloroethene	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Trichlorofluoromethane	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.4	4.7	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Vinyl acetate	ND		7.5	3.8	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Vinyl chloride	ND		1.9	0.94	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
Ethylene Dibromide	ND		0.94	0.47	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		01/22/19 19:00	01/29/19 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.4	ug/Kg		01/22/19 19:00	01/29/19 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/22/19 19:00*	*01/29/19 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*01/22/19 19:00*	*01/29/19 13:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.6	4.8	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Acenaphthene	ND		4.8	2.7	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Anthracene	**2.6**	**J**	4.8	1.9	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Benzo[a]anthracene	**3.5**	**J**	4.8	1.4	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Benzo[a]pyrene	**6.2**	**B**	4.8	1.8	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Benzo[b]fluoranthene	**6.9**		4.8	2.0	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Benzo[g,h,i]perylene	**4.3**	**J**	4.8	4.1	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Benzo[k]fluoranthene	**3.9**	**J B**	4.8	2.0	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Chrysene	**4.4**	**J**	4.8	1.3	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Dibenz(a,h)anthracene	ND		4.8	3.3	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Fluoranthene	**5.6**		4.8	1.3	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Fluorene	ND		4.8	2.1	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.0	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Naphthalene	ND		4.8	3.3	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Phenanthrene	**4.5**	**J**	4.8	1.7	ug/Kg		02/04/19 19:08	02/05/19 12:53	1
Pyrene	**8.8**		4.8	1.6	ug/Kg		02/04/19 19:08	02/05/19 12:53	1

Client Sample ID: DUP-77

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*02/04/19 19:08*	*02/05/19 12:53*	*1*
Terphenyl-d14	*116*		*35 - 146*	*02/04/19 19:08*	*02/05/19 12:53*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**35**		2.0	0.74	mg/Kg		01/28/19 15:35	02/05/19 12:49	1
Motor Oil Range Organics [C24-C36]	**95**		49	9.8	mg/Kg		01/28/19 15:35	02/05/19 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*100*		*40 - 130*	*01/28/19 15:35*	*02/05/19 12:49*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Aldrin	ND		2.0	0.49	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Endrin	ND		2.0	0.45	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/28/19 14:12	02/01/19 13:28	1
Toxaphene	ND		39	6.7	ug/Kg		01/28/19 14:12	02/01/19 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*	*p*	*21 - 136*	*01/28/19 14:12*	*02/01/19 13:28*	*1*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/28/19 14:12*	*02/01/19 13:28*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 16:09	1
Aroclor 1221	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 16:09	1
Aroclor 1232	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 16:09	1
Aroclor 1242	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 16:09	1
Aroclor 1248	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 16:09	1
Aroclor 1254	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 16:09	1
Aroclor 1260	ND		49	17	ug/Kg		01/24/19 13:46	01/25/19 16:09	1

Client Sample ID: DUP-77

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*01/24/19 13:46*	*01/25/19 16:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**15**		1.6	0.26	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Arsenic	**3.4**		3.1	0.27	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Barium	**22**		1.6	0.22	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Beryllium	ND		0.31	0.10	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Cadmium	**0.12**	**J**	0.39	0.039	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Chromium	**14**		1.6	0.17	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Cobalt	**1.9**		0.63	0.063	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Copper	**43**		4.7	2.2	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Lead	**160**		1.6	0.33	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Nickel	**13**	**B**	1.6	0.16	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Selenium	ND		3.1	0.47	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Silver	ND		0.78	0.16	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Thallium	ND		1.6	0.45	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Vanadium	**8.2**		1.6	0.21	mg/Kg		01/25/19 08:59	01/30/19 22:00	4
Zinc	**35**		4.7	2.0	mg/Kg		01/25/19 08:59	01/30/19 22:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.016	0.0023	mg/Kg		01/30/19 09:46	01/30/19 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.0**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-X13S-3.5-4

Date Collected: 01/22/19 14:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		01/22/19 19:00	01/29/19 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*60 - 120*	*01/22/19 19:00*	*01/29/19 13:36*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/22/19 19:00*	*01/29/19 13:36*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/22/19 19:00*	*01/29/19 13:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Benzene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Bromoform	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Chloroform	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1

Client Sample ID: DG-X13S-3.5-4
Date Collected: 01/22/19 14:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Styrene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Toluene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Vinyl acetate	ND		6.3	3.1	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/22/19 19:00	01/29/19 13:36	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/22/19 19:00	01/29/19 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/22/19 19:00*	*01/29/19 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*01/22/19 19:00*	*01/29/19 13:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		98	49	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Acenaphthene	ND		49	27	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Acenaphthylene	**32**	**J**	49	24	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Anthracene	ND		49	20	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Benzo[a]anthracene	ND		49	15	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Benzo[a]pyrene	**30**	**J ***	49	19	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Benzo[b]fluoranthene	**43**	**J ***	49	21	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Benzo[g,h,i]perylene	ND	*	49	42	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Benzo[k]fluoranthene	**27**	**J B ***	49	21	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Chrysene	ND	*	49	14	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Dibenz(a,h)anthracene	ND	*	49	34	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Fluoranthene	**16**	**J**	49	14	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Fluorene	ND		49	22	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Indeno[1,2,3-cd]pyrene	ND	*	49	41	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Naphthalene	ND		49	34	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Phenanthrene	ND		49	18	ug/Kg		01/30/19 10:14	02/04/19 19:44	10
Pyrene	**28**	**J**	49	17	ug/Kg		01/30/19 10:14	02/04/19 19:44	10

Client Sample ID: DG-X13S-3.5-4

Date Collected: 01/22/19 14:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-13

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		33 - 120	01/30/19 10:14	02/04/19 19:44	10
Terphenyl-d14	162	X	35 - 146	01/30/19 10:14	02/04/19 19:44	10

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	180		5.7	2.1	mg/Kg		01/28/19 15:35	02/05/19 11:51	3
Motor Oil Range Organics [C24-C36]	280		140	28	mg/Kg		01/28/19 15:35	02/05/19 11:51	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	90		40 - 130	01/28/19 15:35	02/05/19 11:51	3

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Aldrin	ND		1.9	0.48	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Endrin	ND		1.9	0.44	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/28/19 14:12	02/01/19 13:45	1
Toxaphene	ND		38	6.5	ug/Kg		01/28/19 14:12	02/01/19 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110	p	21 - 136	01/28/19 14:12	02/01/19 13:45	1
Tetrachloro-m-xylene	80		21 - 145	01/28/19 14:12	02/01/19 13:45	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 13:59	1
Aroclor 1221	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 13:59	1
Aroclor 1232	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 13:59	1
Aroclor 1242	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 13:59	1
Aroclor 1248	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 13:59	1
Aroclor 1254	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 13:59	1
Aroclor 1260	ND		49	17	ug/Kg		01/24/19 13:46	01/28/19 13:59	1

Client Sample ID: DG-X13S-3.5-4

Date Collected: 01/22/19 14:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*54*		*45 - 120*	*01/24/19 13:46*	*01/28/19 13:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.5	0.24	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Arsenic	3.7		2.9	0.25	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Barium	55		1.5	0.21	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Beryllium	0.40		0.29	0.095	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Cadmium	0.14	J	0.36	0.036	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Chromium	24		1.5	0.15	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Cobalt	13		0.58	0.058	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Copper	60		4.4	2.1	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Lead	7.8		1.5	0.31	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Molybdenum	0.30	J	1.5	0.19	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Nickel	22	B	1.5	0.15	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Selenium	ND		2.9	0.44	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Silver	ND		0.73	0.15	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Thallium	0.77	J	1.5	0.42	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Vanadium	65		1.5	0.20	mg/Kg		01/25/19 08:59	01/30/19 22:05	4
Zinc	37		4.4	1.9	mg/Kg		01/25/19 08:59	01/30/19 22:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.016	0.0024	mg/Kg		01/30/19 09:46	01/30/19 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.0		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-R9S-0.5-1

Date Collected: 01/22/19 15:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-14

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg		01/22/19 19:00	01/29/19 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/22/19 19:00*	*01/29/19 14:04*	*1*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*	*01/22/19 19:00*	*01/29/19 14:04*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/22/19 19:00*	*01/29/19 14:04*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
2-Hexanone	ND		10	5.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Benzene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Bromobenzene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Bromoform	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Bromomethane	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Carbon disulfide	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Chlorobenzene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Chloroethane	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Chloroform	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Chloromethane	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Dibromomethane	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1

Client Sample ID: DG-R9S-0.5-1

Date Collected: 01/22/19 15:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-14

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Ethylbenzene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Methylene Chloride	ND		10	5.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Naphthalene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Styrene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Toluene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Trichloroethene	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Vinyl acetate	ND		8.0	4.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Vinyl chloride	ND		2.0	1.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg		01/22/19 19:00	01/29/19 14:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg		01/22/19 19:00	01/29/19 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/22/19 19:00*	*01/29/19 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*01/22/19 19:00*	*01/29/19 14:04*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		240	120	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Acenaphthene	ND		120	69	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Acenaphthylene	**120**		120	59	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Anthracene	**190**		120	49	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Benzo[a]anthracene	**98**	**J**	120	37	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Benzo[a]pyrene	**220**	**B**	120	47	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Benzo[b]fluoranthene	**300**		120	51	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Benzo[g,h,i]perylene	**140**		120	110	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Benzo[k]fluoranthene	**110**	**J B**	120	51	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Chrysene	**100**	**J**	120	34	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Dibenz(a,h)anthracene	ND		120	86	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Fluoranthene	**220**		120	34	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Fluorene	ND		120	54	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Indeno[1,2,3-cd]pyrene	**120**		120	100	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Naphthalene	**130**		120	86	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Phenanthrene	**140**		120	44	ug/Kg		02/04/19 19:08	02/05/19 16:24	25
Pyrene	**260**		120	42	ug/Kg		02/04/19 19:08	02/05/19 16:24	25

Client Sample ID: DG-R9S-0.5-1

Date Collected: 01/22/19 15:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*02/04/19 19:08*	*02/05/19 16:24*	*25*
Terphenyl-d14	*127*		*35 - 146*	*02/04/19 19:08*	*02/05/19 16:24*	*25*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**320**		9.6	3.6	mg/Kg		01/30/19 10:50	02/01/19 18:48	5
Motor Oil Range Organics [C24-C36]	**390**		240	48	mg/Kg		01/30/19 10:50	02/01/19 18:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/30/19 10:50*	*02/01/19 18:48*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Aldrin	ND		1.9	0.48	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Chlordane (n.o.s.)	ND		38	2.8	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Endrin	ND		1.9	0.44	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/28/19 14:12	02/01/19 09:17	1
Toxaphene	ND		38	6.5	ug/Kg		01/28/19 14:12	02/01/19 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*21 - 136*	*01/28/19 14:12*	*02/01/19 09:17*	*1*
Tetrachloro-m-xylene	*86*		*21 - 145*	*01/28/19 14:12*	*02/01/19 09:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/24/19 13:49	01/28/19 14:13	1
Aroclor 1221	ND		49	17	ug/Kg		01/24/19 13:49	01/28/19 14:13	1
Aroclor 1232	ND		49	17	ug/Kg		01/24/19 13:49	01/28/19 14:13	1
Aroclor 1242	ND		49	17	ug/Kg		01/24/19 13:49	01/28/19 14:13	1
Aroclor 1248	ND		49	17	ug/Kg		01/24/19 13:49	01/28/19 14:13	1
Aroclor 1254	ND		49	17	ug/Kg		01/24/19 13:49	01/28/19 14:13	1
Aroclor 1260	ND		49	17	ug/Kg		01/24/19 13:49	01/28/19 14:13	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Client Sample ID: DG-R9S-0.5-1

Date Collected: 01/22/19 15:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*01/24/19 13:49*	*01/28/19 14:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.1**		1.3	0.22	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Arsenic	**41**		2.6	0.23	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Barium	**44**		1.3	0.19	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Beryllium	ND		0.26	0.086	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Cadmium	**0.29**	**J**	0.33	0.033	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Chromium	**17**		1.3	0.14	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Cobalt	**13**		0.53	0.053	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Copper	**96**		4.0	1.9	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Lead	**120**		1.3	0.28	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Molybdenum	**0.21**	**J**	1.3	0.17	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Nickel	**63**	**B**	1.3	0.14	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Selenium	**0.56**	**J**	2.6	0.40	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Silver	ND		0.66	0.13	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Thallium	ND		1.3	0.38	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Vanadium	**25**		1.3	0.18	mg/Kg		01/25/19 08:59	01/30/19 22:10	4
Zinc	**77**		4.0	1.7	mg/Kg		01/25/19 08:59	01/30/19 22:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.016	0.0024	mg/Kg		01/30/19 09:46	01/30/19 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DG-R9S-3.5-4

Date Collected: 01/22/19 15:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	60	ug/Kg		01/22/19 19:00	01/29/19 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*	*01/22/19 19:00*	*01/29/19 14:32*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/22/19 19:00*	*01/29/19 14:32*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/22/19 19:00*	*01/29/19 14:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,1,1-Trichloroethane	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,1,2-Trichloroethane	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,1-Dichloroethane	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,1-Dichloropropene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,2,4-Trichlorobenzene	ND		4.3	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,2-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,2-Dichloroethane	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,2-Dichloropropane	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,3-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,3-Dichloropropane	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,4-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
2-Hexanone	ND		8.5	4.3	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
4-Isopropyltoluene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Benzene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Bromobenzene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Bromoform	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Bromomethane	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Chlorobenzene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Chloroethane	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Chloroform	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Chloromethane	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
cis-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
cis-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Chlorodibromomethane	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Dibromomethane	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Dichlorobromomethane	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1

Client Sample ID: DG-R9S-3.5-4
Date Collected: 01/22/19 15:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Ethylbenzene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Isopropylbenzene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Methylene Chloride	ND		8.5	4.3	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Naphthalene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
N-Propylbenzene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Styrene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Tetrachloroethene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Toluene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
trans-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
trans-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Trichloroethene	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.3	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
Ethylene Dibromide	ND		0.85	0.43	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
2-Butanone (MEK)	ND		8.5	4.3	ug/Kg		01/22/19 19:00	01/29/19 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		01/22/19 19:00	01/29/19 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/22/19 19:00*	*01/29/19 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*01/22/19 19:00*	*01/29/19 14:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.5	4.7	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Acenaphthene	ND		4.7	2.7	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Acenaphthylene	**4.7**		4.7	2.3	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Anthracene	**4.9**		4.7	1.9	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Benzo[a]anthracene	**11**		4.7	1.4	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Benzo[a]pyrene	**15**	**B**	4.7	1.8	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Benzo[b]fluoranthene	**28**		4.7	2.0	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Benzo[g,h,i]perylene	**10**		4.7	4.1	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Benzo[k]fluoranthene	**7.3**	**B**	4.7	2.0	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Chrysene	**16**		4.7	1.3	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Dibenz(a,h)anthracene	**4.5**	**J**	4.7	3.3	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Fluoranthene	**14**		4.7	1.3	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Fluorene	ND		4.7	2.1	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Indeno[1,2,3-cd]pyrene	**8.6**		4.7	4.0	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Naphthalene	**5.1**		4.7	3.3	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Phenanthrene	**19**		4.7	1.7	ug/Kg		02/04/19 19:08	02/05/19 12:30	1
Pyrene	**20**		4.7	1.6	ug/Kg		02/04/19 19:08	02/05/19 12:30	1

Client Sample ID: DG-R9S-3.5-4

Date Collected: 01/22/19 15:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-15

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		33 - 120	02/04/19 19:08	02/05/19 12:30	1
Terphenyl-d14	114		35 - 146	02/04/19 19:08	02/05/19 12:30	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	39		1.9	0.71	mg/Kg		01/30/19 10:50	02/05/19 13:18	1
Motor Oil Range Organics [C24-C36]	44	J	47	9.4	mg/Kg		01/30/19 10:50	02/05/19 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	105		40 - 130	01/30/19 10:50	02/05/19 13:18	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Aldrin	ND		1.9	0.48	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Chlordane (n.o.s.)	ND		39	2.8	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
delta-BHC	ND		1.9	0.43	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Dieldrin	ND		1.9	0.57	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Endrin	ND		1.9	0.45	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Heptachlor	ND		1.9	0.45	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Methoxychlor	ND		1.9	0.66	ug/Kg		01/28/19 14:12	02/01/19 09:34	1
Toxaphene	ND		39	6.6	ug/Kg		01/28/19 14:12	02/01/19 09:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106	p	21 - 136	01/28/19 14:12	02/01/19 09:34	1
Tetrachloro-m-xylene	90		21 - 145	01/28/19 14:12	02/01/19 09:34	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:49	01/25/19 16:50	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:49	01/25/19 16:50	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:49	01/25/19 16:50	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:49	01/25/19 16:50	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:49	01/25/19 16:50	1
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:49	01/25/19 16:50	1
Aroclor 1260	ND		50	17	ug/Kg		01/24/19 13:49	01/25/19 16:50	1

Client Sample ID: DG-R9S-3.5-4

Date Collected: 01/22/19 15:30
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*01/24/19 13:49*	*01/25/19 16:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.87**	**J**	2.0	0.33	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Arsenic	**240**		4.0	0.34	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Barium	**96**		2.0	0.28	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Beryllium	**0.47**		0.40	0.13	mg/Kg		01/25/19 08:59	01/31/19 14:52	4
Cadmium	**0.20**	**J**	0.50	0.050	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Chromium	**86**		2.0	0.21	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Cobalt	**16**		0.80	0.080	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Copper	**38**		6.0	2.8	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Lead	**15**		2.0	0.42	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Molybdenum	ND		2.0	0.26	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Nickel	**120**	**B**	2.0	0.20	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Selenium	ND		4.0	0.60	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Silver	ND		1.0	0.20	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Thallium	ND		2.0	0.58	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Vanadium	**59**		2.0	0.27	mg/Kg		01/25/19 08:59	01/30/19 22:15	4
Zinc	**70**		6.0	2.5	mg/Kg		01/25/19 08:59	01/30/19 22:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**3.4**		0.15	0.022	mg/Kg		01/30/19 09:46	01/30/19 12:37	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.05	%			01/23/19 15:43	1

Client Sample ID: DUP-110

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		68	47	ug/Kg		01/22/19 19:00	01/29/19 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/22/19 19:00*	*01/29/19 14:59*	*1*
4-Bromofluorobenzene (Surr)	*89*		*79 - 120*	*01/22/19 19:00*	*01/29/19 14:59*	*1*
Toluene-d8 (Surr)	*94*		*79 - 123*	*01/22/19 19:00*	*01/29/19 14:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.8	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,1,1-Trichloroethane	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,1,2-Trichloroethane	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,1-Dichloroethane	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,1-Dichloropropene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,2,3-Trichlorobenzene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,2,4-Trichlorobenzene	ND		3.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,2,4-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,2-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,2-Dichloroethane	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,2-Dichloropropane	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,3,5-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,3-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,3-Dichloropropane	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,4-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
2,2-Dichloropropane	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
2-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
2-Hexanone	ND		6.8	3.4	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
4-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
4-Isopropyltoluene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Benzene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Bromobenzene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Bromoform	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Bromomethane	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Carbon disulfide	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Chlorobenzene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Chlorobromomethane	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Chloroethane	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Chloroform	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Chloromethane	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
cis-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
cis-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Chlorodibromomethane	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Dibromomethane	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Dichlorobromomethane	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1

Client Sample ID: DUP-110

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-16

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Ethylbenzene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Hexachlorobutadiene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Isopropylbenzene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Methylene Chloride	ND		6.8	3.4	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Methyl tert-butyl ether	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Naphthalene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
n-Butylbenzene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
N-Propylbenzene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
sec-Butylbenzene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Styrene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
tert-Butylbenzene	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Tetrachloroethene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Toluene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
trans-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
trans-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Trichloroethene	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Trichlorofluoromethane	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	3.4	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Vinyl chloride	ND		1.4	0.68	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Xylenes, Total	ND		1.4	0.88	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
Ethylene Dibromide	ND		0.68	0.34	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
2-Butanone (MEK)	ND		6.8	3.4	ug/Kg		01/22/19 19:00	01/29/19 14:59	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/22/19 19:00	01/29/19 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*79 - 123*	*01/22/19 19:00*	*01/29/19 14:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*01/22/19 19:00*	*01/29/19 14:59*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		97	49	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Acenaphthene	ND		49	27	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Acenaphthylene	**53**		49	23	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Anthracene	**28**	**J**	49	19	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Benzo[a]anthracene	ND		49	15	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Benzo[a]pyrene	**52**	*** B**	49	18	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Benzo[b]fluoranthene	**100**	*****	49	20	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Benzo[g,h,i]perylene	**110**	*****	49	42	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Benzo[k]fluoranthene	**38**	**J * B**	49	20	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Chrysene	**26**	**J**	49	14	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Dibenz(a,h)anthracene	ND	*	49	34	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Fluoranthene	**31**	**J**	49	14	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Fluorene	ND		49	21	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Indeno[1,2,3-cd]pyrene	**59**	*****	49	41	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Naphthalene	ND		49	34	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Phenanthrene	ND		49	17	ug/Kg		02/04/19 19:13	02/05/19 16:48	10
Pyrene	**86**		49	17	ug/Kg		02/04/19 19:13	02/05/19 16:48	10

Client Sample ID: DUP-110

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-16

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		33 - 120	02/04/19 19:13	02/05/19 16:48	10
Terphenyl-d14	152	X	35 - 146	02/04/19 19:13	02/05/19 16:48	10

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	860		19	7.1	mg/Kg		01/30/19 10:50	02/01/19 19:17	10
Motor Oil Range Organics [C24-C36]	1300		470	95	mg/Kg		01/30/19 10:50	02/01/19 19:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/30/19 10:50	02/01/19 19:17	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Aldrin	ND		2.0	0.50	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Endrin	ND		2.0	0.46	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/28/19 14:12	02/01/19 09:50	1
Toxaphene	ND		40	6.8	ug/Kg		01/28/19 14:12	02/01/19 09:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59	p	21 - 136	01/28/19 14:12	02/01/19 09:50	1
Tetrachloro-m-xylene	78		21 - 145	01/28/19 14:12	02/01/19 09:50	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:49	01/28/19 14:27	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:49	01/28/19 14:27	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:49	01/28/19 14:27	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:49	01/28/19 14:27	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:49	01/28/19 14:27	1
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:49	01/28/19 14:27	1
Aroclor 1260	ND		50	17	ug/Kg		01/24/19 13:49	01/28/19 14:27	1

Client Sample ID: DUP-110

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*01/24/19 13:49*	*01/28/19 14:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.6**		1.7	0.29	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Arsenic	**9.8**		3.5	0.30	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Barium	**88**		1.7	0.25	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Beryllium	ND		0.35	0.11	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Cadmium	**0.32**	**J**	0.43	0.043	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Chromium	**12**		1.7	0.18	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Cobalt	**14**		0.70	0.070	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Copper	**150**		5.2	2.5	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Lead	**970**		1.7	0.37	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Nickel	**33**	**B**	1.7	0.18	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Selenium	**0.94**	**J**	3.5	0.52	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Silver	ND		0.87	0.18	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Thallium	**0.52**	**J**	1.7	0.50	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Vanadium	**110**		1.7	0.24	mg/Kg		01/25/19 08:59	01/30/19 22:19	4
Zinc	**200**		5.2	2.2	mg/Kg		01/25/19 08:59	01/30/19 22:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.077**		0.015	0.0022	mg/Kg		01/30/19 09:46	01/30/19 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.05	%			01/23/19 15:43	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TOL (60-140)	DCA (60-140)
720-90948-D-7-E MS	Matrix Spike	96	94
720-90948-D-7-F MSD	Matrix Spike Duplicate	98	86
720-90961-2	DG-AK11S-3.5-4	101	87
720-90961-6	DG-AO11S-3.5-4	102	91
720-90961-9	DG-AB13S-13.5-14	103	91
LCS 440-525147/5	Lab Control Sample	97	88
LCSD 440-525147/6	Lab Control Sample Dup	96	89
MB 440-525147/4	Method Blank	98	93

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TOL (79-123)	DCA (70-130)
720-90961-1	DG-AK11S-0.5-1	100	105
720-90961-3	DG-AM11S-0.5-1	99	107
720-90961-4	DG-AM11S-3.5-4	105	107
720-90961-5	DG-AO11S-0.5-1	100	104
720-90961-7	DG-AB13S-0.5-1	101	105
720-90961-8	DG-AB13S-3.5-4	99	104
720-90961-10	DG-AA15S-0.5-1	101	107
720-90961-11	DG-X13S-0.5-1	100	103
720-90961-11 MS	DG-X13S-0.5-1	99	105
720-90961-11 MSD	DG-X13S-0.5-1	96	107
720-90961-12	DUP-77	97	90
720-90961-13	DG-X13S-3.5-4	99	93
720-90961-14	DG-R9S-0.5-1	97	91
720-90961-15	DG-R9S-3.5-4	101	91
720-90961-16	DUP-110	94	90
LCS 440-525143/16	Lab Control Sample	90	104
LCS 440-525479/6	Lab Control Sample	93	83
LCSD 440-525479/7	Lab Control Sample Dup	95	85
MB 440-525143/4	Method Blank	96	113
MB 440-525479/5	Method Blank	97	85

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
720-90948-D-7-E MS	Matrix Spike	100	92	96
720-90948-D-7-F MSD	Matrix Spike Duplicate	98	93	98
720-90961-2	DG-AK11S-3.5-4	97	98	101
720-90961-6	DG-AO11S-3.5-4	99	97	102
720-90961-9	DG-AB13S-13.5-14	100	96	103
LCS 440-525148/7	Lab Control Sample	97	93	97
LCSD 440-525148/8	Lab Control Sample Dup	101	97	100
MB 440-525148/4	Method Blank	103	93	98

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-90961-1	DG-AK11S-0.5-1	117	88	100
720-90961-3	DG-AM11S-0.5-1	118	90	99
720-90961-4	DG-AM11S-3.5-4	119	90	105
720-90961-5	DG-AO11S-0.5-1	119	91	100
720-90961-7	DG-AB13S-0.5-1	115	89	101
720-90961-8	DG-AB13S-3.5-4	119	87	99
720-90961-10	DG-AA15S-0.5-1	120	93	101
720-90961-11	DG-X13S-0.5-1	117	88	100
720-90961-11 MS	DG-X13S-0.5-1	117	95	99
720-90961-11 MSD	DG-X13S-0.5-1	122 X	89	96
720-90961-12	DUP-77	106	87	97
720-90961-13	DG-X13S-3.5-4	113	100	99
720-90961-14	DG-R9S-0.5-1	105	94	97
720-90961-15	DG-R9S-3.5-4	112	103	101
720-90961-16	DUP-110	106	89	94
LCS 440-525144/17	Lab Control Sample	116	84	97
LCS 440-525480/8	Lab Control Sample	104	91	96
LCSD 440-525480/9	Lab Control Sample Dup	100	86	98
MB 440-525144/4	Method Blank	119	85	96
MB 440-525480/5	Method Blank	104	88	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)
720-90961-1	DG-AK11S-0.5-1	87	149 X
720-90961-2	DG-AK11S-3.5-4	0 X	0 X
720-90961-3	DG-AM11S-0.5-1	95	134
720-90961-4	DG-AM11S-3.5-4	58	108
720-90961-5	DG-AO11S-0.5-1	98	177 X
720-90961-6	DG-AO11S-3.5-4	103	147 X
720-90961-7	DG-AB13S-0.5-1	79	135
720-90961-8	DG-AB13S-3.5-4	92	134
720-90961-9	DG-AB13S-13.5-14	0 X	0 X
720-90961-10	DG-AA15S-0.5-1	97	174 X
720-90961-11	DG-X13S-0.5-1	92	171 X
720-90961-11	DG-X13S-0.5-1	79	155 X
720-90961-11 MS	DG-X13S-0.5-1	95	171 X
720-90961-11 MS	DG-X13S-0.5-1	80	137
720-90961-11 MSD	DG-X13S-0.5-1	94	174 X
720-90961-11 MSD	DG-X13S-0.5-1	79	135
720-90961-12	DUP-77	82	116
720-90961-13	DG-X13S-3.5-4	88	162 X
720-90961-14	DG-R9S-0.5-1	77	127
720-90961-15	DG-R9S-3.5-4	81	114
720-90961-16	DUP-110	84	152 X
720-91048-E-19-J MS	Matrix Spike	79	149 X
720-91048-E-19-K MSD	Matrix Spike Duplicate	65	123
LCS 720-259467/2-A	Lab Control Sample	94	129
LCS 720-259565/2-A	Lab Control Sample	90	116
LCS 720-259774/2-A	Lab Control Sample	80	112
MB 720-259467/1-A	Method Blank	92	122
MB 720-259565/1-A	Method Blank	94	119
MB 720-259774/1-A	Method Blank	86	116

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-90948-D-7-H MSD	Matrix Spike Duplicate	0 X D
720-90948-E-7-L MS	Matrix Spike	0 X D
720-90961-1	DG-AK11S-0.5-1	0 D X
720-90961-2	DG-AK11S-3.5-4	0 X D
720-90961-3	DG-AM11S-0.5-1	103
720-90961-4	DG-AM11S-3.5-4	0 X D
720-90961-5	DG-AO11S-0.5-1	0 X D
720-90961-6	DG-AO11S-3.5-4	0 X D
720-90961-7	DG-AB13S-0.5-1	0 X D

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-90961-8	DG-AB13S-3.5-4	87
720-90961-9	DG-AB13S-13.5-14	0 X D
720-90961-10	DG-AA15S-0.5-1	0 X D
720-90961-11	DG-X13S-0.5-1	0 X D
720-90961-11 MS	DG-X13S-0.5-1	0 X D
720-90961-11 MSD	DG-X13S-0.5-1	0 X D
720-90961-12	DUP-77	100
720-90961-13	DG-X13S-3.5-4	90
720-90961-14	DG-R9S-0.5-1	0 X D
720-90961-15	DG-R9S-3.5-4	105
720-90961-16	DUP-110	0 X D
LCS 720-259352/2-A	Lab Control Sample	127
LCS 720-259473/2-A	Lab Control Sample	125
MB 720-259352/1-A	Method Blank	106
MB 720-259473/1-A	Method Blank	125

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX2 (21-145)
720-90948-D-7-G MSD	Matrix Spike Duplicate	114 p	107
720-90961-5	DG-AO11S-0.5-1	75	86

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX1 (21-145)
720-90948-E-7-J MS	Matrix Spike	121	93
720-90961-2	DG-AK11S-3.5-4	0 X D	0 X D
720-90961-4	DG-AM11S-3.5-4	79	96
720-90961-6	DG-AO11S-3.5-4	89	61 p
720-90961-9	DG-AB13S-13.5-14	0 X D	0 X D
720-90961-10	DG-AA15S-0.5-1	92 p	89
720-90961-11	DG-X13S-0.5-1	73 p	50 p
720-90961-11 MS	DG-X13S-0.5-1	81	60 p
720-90961-11 MSD	DG-X13S-0.5-1	77	66
720-90961-12	DUP-77	81 p	77
720-90961-13	DG-X13S-3.5-4	110 p	80
720-90961-16	DUP-110	59 p	78

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90961-1	DG-AK11S-0.5-1	74	87
720-90961-3	DG-AM11S-0.5-1	78	97
720-90961-15	DG-R9S-3.5-4	106 p	90
LCS 720-259255/2-A	Lab Control Sample	90	80
MB 720-259255/1-A	Method Blank	118	100

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-90961-7	DG-AB13S-0.5-1	540 X	84
720-90961-8	DG-AB13S-3.5-4	100	101
720-90961-14	DG-R9S-0.5-1	100	86

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
720-90961-1	DG-AK11S-0.5-1	62
720-90961-2	DG-AK11S-3.5-4	37 X
720-90961-3	DG-AM11S-0.5-1	56
720-90961-4	DG-AM11S-3.5-4	66
720-90961-5	DG-AO11S-0.5-1	55
720-90961-6	DG-AO11S-3.5-4	59
720-90961-7	DG-AB13S-0.5-1	311 X
720-90961-8	DG-AB13S-3.5-4	55
720-90961-9	DG-AB13S-13.5-14	87
720-90961-10	DG-AA15S-0.5-1	50
720-90961-11	DG-X13S-0.5-1	88
720-90961-11 MS	DG-X13S-0.5-1	89
720-90961-11 MSD	DG-X13S-0.5-1	87
720-90961-12	DUP-77	68
720-90961-13	DG-X13S-3.5-4	54

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCB2 (45-120)							
720-90961-14	DG-R9S-0.5-1	66							
720-90961-15	DG-R9S-3.5-4	51							
720-90961-16	DUP-110	56							
LCS 440-524723/2-A	Lab Control Sample	97							
MB 440-524723/1-A	Method Blank	92							

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 720-90948-D-7-E MS
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		2050	2200		ug/Kg		108	50 - 145
1,1,1,2-Tetrachloroethane	ND		2050	1910		ug/Kg		94	60 - 150
1,1,1-Trichloroethane	ND		2050	1900		ug/Kg		93	60 - 140
1,1,2,2-Tetrachloroethane	ND		2050	2130		ug/Kg		104	50 - 145
1,1,2-Trichloroethane	ND		2050	2200		ug/Kg		107	60 - 145
1,1-Dichloroethane	ND		2050	1890		ug/Kg		93	60 - 145
1,1-Dichloroethene	ND		2050	2530		ug/Kg		124	55 - 155
1,1-Dichloropropene	ND		2050	1960		ug/Kg		96	60 - 140
1,2,3-Trichlorobenzene	ND		2050	2090		ug/Kg		102	50 - 140
1,2,4-Trichlorobenzene	ND		2050	2150		ug/Kg		105	60 - 140
1,2,4-Trimethylbenzene	ND		2050	2000		ug/Kg		98	60 - 140
1,2-Dibromo-3-Chloropropane	ND		2050	2340		ug/Kg		114	40 - 160
1,2-Dichlorobenzene	ND		2050	2120		ug/Kg		104	60 - 135
1,2-Dichloroethane	ND		2050	1890		ug/Kg		93	60 - 145
1,2-Dichloropropane	ND		2050	1940		ug/Kg		95	60 - 140
1,3,5-Trimethylbenzene	ND		2050	1980		ug/Kg		97	65 - 140
1,3-Dichlorobenzene	ND		2050	2030		ug/Kg		99	60 - 145
1,3-Dichloropropane	ND		2050	2050		ug/Kg		100	65 - 135
1,4-Dichlorobenzene	ND		2050	1990		ug/Kg		97	60 - 140
2,2-Dichloropropane	ND		2050	1820		ug/Kg		89	50 - 150
2-Chlorotoluene	ND		2050	1910		ug/Kg		93	60 - 145
2-Hexanone	ND		2050	1630		ug/Kg		79	30 - 155
4-Chlorotoluene	ND		2050	1910		ug/Kg		93	65 - 140
4-Isopropyltoluene	ND		2050	2010		ug/Kg		98	60 - 140
Benzene	ND		2050	2080		ug/Kg		102	55 - 140
Bromobenzene	ND		2050	2100		ug/Kg		103	60 - 140
Bromoform	ND		2050	2180		ug/Kg		106	50 - 140
Bromomethane	ND		2050	1500		ug/Kg		73	30 - 140
Carbon disulfide	ND		2050	2200		ug/Kg		107	50 - 130
Carbon tetrachloride	ND		2050	1910		ug/Kg		93	65 - 145
Chlorobenzene	ND		2050	2000		ug/Kg		98	65 - 145
Chlorobromomethane	ND		2050	2450		ug/Kg		120	60 - 145
Chloroethane	ND		2050	2040		ug/Kg		100	35 - 140
Chloroform	ND		2050	1990		ug/Kg		97	60 - 140
Chloromethane	ND		2050	1880		ug/Kg		92	25 - 140
cis-1,2-Dichloroethene	ND		2050	2060		ug/Kg		101	55 - 135
cis-1,3-Dichloropropene	ND		2050	2100		ug/Kg		102	65 - 140
Chlorodibromomethane	ND		2050	2000		ug/Kg		98	55 - 150
Dibromomethane	ND		2050	2040		ug/Kg		100	65 - 135
Dichlorobromomethane	ND		2050	1810		ug/Kg		89	60 - 150
Dichlorodifluoromethane	ND		2050	1740		ug/Kg		85	10 - 155
Ethylbenzene	ND		2050	1970		ug/Kg		96	50 - 150
Hexachlorobutadiene	ND		2050	1880		ug/Kg		92	55 - 145
Isopropylbenzene	ND		2050	2100		ug/Kg		103	65 - 145
m-Xylene & p-Xylene	ND		2050	2110		ug/Kg		103	60 - 145
Methylene Chloride	ND		2050	2330		ug/Kg		114	55 - 145
Methyl tert-butyl ether	ND		2050	2280		ug/Kg		112	55 - 155
Naphthalene	ND		2050	2260		ug/Kg		111	35 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90948-D-7-E MS
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Butylbenzene	ND		2050	2000		ug/Kg		98	55 - 155
N-Propylbenzene	ND		2050	1950		ug/Kg		96	50 - 150
o-Xylene	ND		2050	2050		ug/Kg		100	55 - 145
sec-Butylbenzene	ND		2050	2030		ug/Kg		99	55 - 145
Styrene	ND		2050	2080		ug/Kg		102	60 - 150
tert-Butylbenzene	ND		2050	2070		ug/Kg		101	65 - 150
Tetrachloroethene	ND		2050	2170		ug/Kg		106	60 - 150
Toluene	ND		2050	2070		ug/Kg		101	55 - 140
trans-1,2-Dichloroethene	ND		2050	2340		ug/Kg		115	55 - 145
trans-1,3-Dichloropropene	ND		2050	2110		ug/Kg		103	60 - 145
Trichloroethene	ND		2050	2180		ug/Kg		107	65 - 150
Trichlorofluoromethane	ND		2050	1910		ug/Kg		93	35 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2050	2380		ug/Kg		116	60 - 140
Vinyl acetate	ND		2050	2170		ug/Kg		106	20 - 145
Vinyl chloride	ND		2050	670		ug/Kg		33	10 - 120
Ethylene Dibromide	ND		2050	2160		ug/Kg		106	65 - 145
2-Butanone (MEK)	ND		2050	2250		ug/Kg		110	20 - 175
4-Methyl-2-pentanone (MIBK)	ND		2050	1700		ug/Kg		83	35 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*

Lab Sample ID: 720-90948-D-7-F MSD
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		2050	2030		ug/Kg		99	50 - 145	8	30
1,1,1,2-Tetrachloroethane	ND		2050	1890		ug/Kg		92	60 - 150	1	20
1,1,1-Trichloroethane	ND		2050	1790		ug/Kg		87	60 - 140	6	20
1,1,2,2-Tetrachloroethane	ND		2050	1970		ug/Kg		96	50 - 145	8	25
1,1,2-Trichloroethane	ND		2050	2010		ug/Kg		98	60 - 145	9	25
1,1-Dichloroethane	ND		2050	1750		ug/Kg		86	60 - 145	8	25
1,1-Dichloroethene	ND		2050	2370		ug/Kg		116	55 - 155	7	25
1,1-Dichloropropene	ND		2050	1800		ug/Kg		88	60 - 140	9	25
1,2,3-Trichlorobenzene	ND		2050	1910		ug/Kg		93	50 - 140	9	25
1,2,4-Trichlorobenzene	ND		2050	2000		ug/Kg		98	60 - 140	7	25
1,2,4-Trimethylbenzene	ND		2050	1910		ug/Kg		93	60 - 140	5	25
1,2-Dibromo-3-Chloropropane	ND		2050	2090		ug/Kg		102	40 - 160	11	30
1,2-Dichlorobenzene	ND		2050	1990		ug/Kg		97	60 - 135	6	25
1,2-Dichloroethane	ND		2050	1640		ug/Kg		80	60 - 145	15	25
1,2-Dichloropropane	ND		2050	1800		ug/Kg		88	60 - 140	8	25
1,3,5-Trimethylbenzene	ND		2050	1890		ug/Kg		93	65 - 140	5	25
1,3-Dichlorobenzene	ND		2050	1890		ug/Kg		92	60 - 145	7	25
1,3-Dichloropropane	ND		2050	1850		ug/Kg		90	65 - 135	10	25
1,4-Dichlorobenzene	ND		2050	1870		ug/Kg		91	60 - 140	6	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90948-D-7-F MSD
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2-Dichloropropane	ND		2050	1700		ug/Kg		83	50 - 150	7	25
2-Chlorotoluene	ND		2050	1790		ug/Kg		88	60 - 145	6	25
2-Hexanone	ND		2050	1580		ug/Kg		77	30 - 155	3	40
4-Chlorotoluene	ND		2050	1810		ug/Kg		89	65 - 140	5	25
4-Isopropyltoluene	ND		2050	1940		ug/Kg		95	60 - 140	3	25
Benzene	ND		2050	1890		ug/Kg		93	55 - 140	9	25
Bromobenzene	ND		2050	1960		ug/Kg		96	60 - 140	7	25
Bromoform	ND		2050	2020		ug/Kg		99	50 - 140	8	30
Bromomethane	ND		2050	1660		ug/Kg		81	30 - 140	10	30
Carbon disulfide	ND		2050	2060		ug/Kg		101	50 - 130	6	25
Carbon tetrachloride	ND		2050	1750		ug/Kg		85	65 - 145	9	25
Chlorobenzene	ND		2050	1900		ug/Kg		93	65 - 145	5	25
Chlorobromomethane	ND		2050	2140		ug/Kg		105	60 - 145	13	25
Chloroethane	ND		2050	1660		ug/Kg		81	35 - 140	21	30
Chloroform	ND		2050	1830		ug/Kg		89	60 - 140	8	25
Chloromethane	ND		2050	1800		ug/Kg		88	25 - 140	4	30
cis-1,2-Dichloroethene	ND		2050	1880		ug/Kg		92	55 - 135	9	25
cis-1,3-Dichloropropene	ND		2050	1940		ug/Kg		95	65 - 140	8	25
Chlorodibromomethane	ND		2050	1770		ug/Kg		86	55 - 150	13	25
Dibromomethane	ND		2050	1820		ug/Kg		89	65 - 135	11	25
Dichlorobromomethane	ND		2050	1680		ug/Kg		82	60 - 150	8	25
Dichlorodifluoromethane	ND		2050	1630		ug/Kg		80	10 - 155	6	35
Ethylbenzene	ND		2050	1930		ug/Kg		94	50 - 150	2	25
Hexachlorobutadiene	ND		2050	1610		ug/Kg		79	55 - 145	15	35
Isopropylbenzene	ND		2050	2020		ug/Kg		99	65 - 145	4	25
m-Xylene & p-Xylene	ND		2050	2000		ug/Kg		98	60 - 145	5	25
Methylene Chloride	ND		2050	2140		ug/Kg		104	55 - 145	9	25
Methyl tert-butyl ether	ND		2050	2070		ug/Kg		101	55 - 155	10	30
Naphthalene	ND		2050	2110		ug/Kg		103	35 - 160	7	30
n-Butylbenzene	ND		2050	1890		ug/Kg		92	55 - 155	6	25
N-Propylbenzene	ND		2050	1860		ug/Kg		91	50 - 150	5	25
o-Xylene	ND		2050	1990		ug/Kg		98	55 - 145	3	25
sec-Butylbenzene	ND		2050	1920		ug/Kg		94	55 - 145	5	25
Styrene	ND		2050	2010		ug/Kg		98	60 - 150	3	25
tert-Butylbenzene	ND		2050	2010		ug/Kg		98	65 - 150	3	25
Tetrachloroethene	ND		2050	2060		ug/Kg		101	60 - 150	5	25
Toluene	ND		2050	1920		ug/Kg		94	55 - 140	8	25
trans-1,2-Dichloroethene	ND		2050	2160		ug/Kg		106	55 - 145	8	25
trans-1,3-Dichloropropene	ND		2050	1930		ug/Kg		94	60 - 145	9	25
Trichloroethene	ND		2050	2040		ug/Kg		99	65 - 150	7	25
Trichlorofluoromethane	ND		2050	1580		ug/Kg		77	35 - 150	19	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2050	2270		ug/Kg		111	60 - 140	5	40
Vinyl acetate	ND		2050	1910		ug/Kg		93	20 - 145	13	30
Vinyl chloride	ND		2050	641		ug/Kg		31	10 - 120	4	35
Ethylene Dibromide	ND		2050	2010		ug/Kg		98	65 - 145	8	25
2-Butanone (MEK)	ND		2050	2200		ug/Kg		107	20 - 175	2	40
4-Methyl-2-pentanone (MIBK)	ND		2050	1530		ug/Kg		75	35 - 155	10	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90948-D-7-F MSD
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524446

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*

Lab Sample ID: MB 440-525143/4
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/26/19 12:11	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/26/19 12:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/26/19 12:11	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/26/19 12:11	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
2-Hexanone	ND		10	5.0	ug/Kg			01/26/19 12:11	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Benzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Bromoform	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/26/19 12:11	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Chloroform	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525143/4
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/26/19 12:11	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Styrene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Toluene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/26/19 12:11	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/26/19 12:11	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/26/19 12:11	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/26/19 12:11	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/26/19 12:11	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/26/19 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/26/19 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*		*01/26/19 12:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/26/19 12:11*	*1*

Lab Sample ID: LCS 440-525143/16
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	25.0	21.8		ug/Kg		87	60 - 135
1,1,1,2-Tetrachloroethane	25.0	27.0		ug/Kg		108	70 - 130
1,1,1-Trichloroethane	25.0	30.6		ug/Kg		123	65 - 135
1,1,2,2-Tetrachloroethane	25.0	18.6		ug/Kg		74	55 - 140
1,1,2-Trichloroethane	25.0	21.4		ug/Kg		86	65 - 135
1,1-Dichloroethane	25.0	25.4		ug/Kg		101	70 - 130
1,1-Dichloroethene	25.0	28.3		ug/Kg		113	70 - 125
1,1-Dichloropropene	25.0	26.3		ug/Kg		105	70 - 130
1,2,3-Trichlorobenzene	25.0	25.6		ug/Kg		102	60 - 130
1,2,4-Trichlorobenzene	25.0	27.6		ug/Kg		110	70 - 135
1,2,4-Trimethylbenzene	25.0	21.4		ug/Kg		86	70 - 125
1,2-Dibromo-3-Chloropropane	25.0	20.2		ug/Kg		81	50 - 135
1,2-Dichlorobenzene	25.0	26.1		ug/Kg		104	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525143/16
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	27.5		ug/Kg		110	60 - 140
1,2-Dichloropropane	25.0	24.7		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	25.0	21.4		ug/Kg		86	70 - 125
1,3-Dichlorobenzene	25.0	26.4		ug/Kg		105	75 - 125
1,3-Dichloropropane	25.0	21.7		ug/Kg		87	70 - 125
1,4-Dichlorobenzene	25.0	26.2		ug/Kg		105	75 - 120
2,2-Dichloropropane	25.0	29.9		ug/Kg		120	60 - 145
2-Chlorotoluene	25.0	21.2		ug/Kg		85	70 - 125
2-Hexanone	25.0	19.2		ug/Kg		77	40 - 150
4-Chlorotoluene	25.0	21.4		ug/Kg		85	75 - 125
4-Isopropyltoluene	25.0	23.9		ug/Kg		96	75 - 125
Benzene	25.0	24.2		ug/Kg		97	65 - 120
Bromobenzene	25.0	25.7		ug/Kg		103	75 - 120
Bromoform	25.0	28.9		ug/Kg		116	55 - 135
Bromomethane	25.0	26.5		ug/Kg		106	60 - 145
Carbon disulfide	25.0	25.5		ug/Kg		102	50 - 130
Carbon tetrachloride	25.0	32.2		ug/Kg		129	65 - 140
Chlorobenzene	25.0	25.5		ug/Kg		102	75 - 120
Chlorobromomethane	25.0	31.1		ug/Kg		124	70 - 135
Chloroethane	25.0	22.6		ug/Kg		90	60 - 140
Chloroform	25.0	27.4		ug/Kg		110	70 - 130
Chloromethane	25.0	24.0		ug/Kg		96	45 - 145
cis-1,2-Dichloroethene	25.0	28.9		ug/Kg		116	70 - 125
cis-1,3-Dichloropropene	25.0	23.5		ug/Kg		94	75 - 125
Chlorodibromomethane	25.0	27.2		ug/Kg		109	65 - 140
Dibromomethane	25.0	28.6		ug/Kg		114	70 - 130
Dichlorobromomethane	25.0	26.2		ug/Kg		105	70 - 135
Dichlorodifluoromethane	25.0	26.0		ug/Kg		104	35 - 160
Ethylbenzene	25.0	23.1		ug/Kg		92	70 - 125
Hexachlorobutadiene	25.0	27.3		ug/Kg		109	60 - 135
Isopropylbenzene	25.0	24.0		ug/Kg		96	75 - 130
m-Xylene & p-Xylene	25.0	23.4		ug/Kg		94	70 - 125
Methylene Chloride	25.0	24.4		ug/Kg		98	55 - 135
Methyl tert-butyl ether	25.0	27.7		ug/Kg		111	60 - 140
Naphthalene	25.0	23.6		ug/Kg		95	55 - 135
n-Butylbenzene	25.0	21.7		ug/Kg		87	70 - 130
N-Propylbenzene	25.0	21.1		ug/Kg		85	70 - 130
o-Xylene	25.0	24.2		ug/Kg		97	70 - 125
sec-Butylbenzene	25.0	21.4		ug/Kg		85	70 - 125
Styrene	25.0	21.0		ug/Kg		84	75 - 130
tert-Butylbenzene	25.0	23.2		ug/Kg		93	70 - 125
Tetrachloroethene	25.0	30.2		ug/Kg		121	70 - 125
Toluene	25.0	23.0		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	25.0	27.7		ug/Kg		111	70 - 125
trans-1,3-Dichloropropene	25.0	22.8		ug/Kg		91	70 - 135
Trichloroethene	25.0	31.6	*	ug/Kg		126	70 - 125
Trichlorofluoromethane	25.0	28.9		ug/Kg		116	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525143/16
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.4		ug/Kg		117	60 - 140
Vinyl acetate	25.0	25.6		ug/Kg		102	45 - 145
Vinyl chloride	25.0	22.5		ug/Kg		90	55 - 135
Ethylene Dibromide	25.0	23.4		ug/Kg		94	70 - 130
2-Butanone (MEK)	25.0	23.3		ug/Kg		93	40 - 145
4-Methyl-2-pentanone (MIBK)	25.0	19.7		ug/Kg		79	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 440-525147/4
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		500	100	ug/Kg			01/26/19 12:15	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			01/26/19 12:15	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,1-Dichloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,1-Dichloroethene	ND		250	100	ug/Kg			01/26/19 12:15	100
1,1-Dichloropropene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			01/26/19 12:15	100
1,2-Dichlorobenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,2-Dichloroethane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,2-Dichloropropane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
1,3-Dichloropropane	ND		100	50	ug/Kg			01/26/19 12:15	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
2,2-Dichloropropane	ND		200	100	ug/Kg			01/26/19 12:15	100
2-Chlorotoluene	ND		250	100	ug/Kg			01/26/19 12:15	100
2-Hexanone	ND		1300	500	ug/Kg			01/26/19 12:15	100
4-Chlorotoluene	ND		250	50	ug/Kg			01/26/19 12:15	100
4-Isopropyltoluene	ND		100	50	ug/Kg			01/26/19 12:15	100
Benzene	ND		100	50	ug/Kg			01/26/19 12:15	100
Bromobenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
Bromoform	ND		250	100	ug/Kg			01/26/19 12:15	100
Bromomethane	ND		250	100	ug/Kg			01/26/19 12:15	100
Carbon disulfide	ND		250	130	ug/Kg			01/26/19 12:15	100
Carbon tetrachloride	ND		250	100	ug/Kg			01/26/19 12:15	100
Chlorobenzene	ND		100	50	ug/Kg			01/26/19 12:15	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525147/4
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		250	100	ug/Kg			01/26/19 12:15	100
Chloroethane	ND		250	100	ug/Kg			01/26/19 12:15	100
Chloroform	ND		100	50	ug/Kg			01/26/19 12:15	100
Chloromethane	ND		250	100	ug/Kg			01/26/19 12:15	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			01/26/19 12:15	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			01/26/19 12:15	100
Chlorodibromomethane	ND		100	50	ug/Kg			01/26/19 12:15	100
Dibromomethane	ND		100	50	ug/Kg			01/26/19 12:15	100
Dichlorobromomethane	ND		100	50	ug/Kg			01/26/19 12:15	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			01/26/19 12:15	100
Ethylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
Hexachlorobutadiene	ND		250	100	ug/Kg			01/26/19 12:15	100
Isopropylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
Methylene Chloride	ND		1000	500	ug/Kg			01/26/19 12:15	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			01/26/19 12:15	100
Naphthalene	ND		250	100	ug/Kg			01/26/19 12:15	100
n-Butylbenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
N-Propylbenzene	ND		100	50	ug/Kg			01/26/19 12:15	100
sec-Butylbenzene	ND		250	50	ug/Kg			01/26/19 12:15	100
Styrene	ND		100	50	ug/Kg			01/26/19 12:15	100
tert-Butylbenzene	ND		250	100	ug/Kg			01/26/19 12:15	100
Tetrachloroethene	ND		100	50	ug/Kg			01/26/19 12:15	100
Toluene	ND		100	50	ug/Kg			01/26/19 12:15	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			01/26/19 12:15	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			01/26/19 12:15	100
Trichloroethene	ND		100	50	ug/Kg			01/26/19 12:15	100
Trichlorofluoromethane	ND		250	100	ug/Kg			01/26/19 12:15	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			01/26/19 12:15	100
Vinyl acetate	ND		500	250	ug/Kg			01/26/19 12:15	100
Vinyl chloride	ND		250	100	ug/Kg			01/26/19 12:15	100
Xylenes, Total	ND		200	100	ug/Kg			01/26/19 12:15	100
Ethylene Dibromide	ND		100	50	ug/Kg			01/26/19 12:15	100
2-Butanone (MEK)	ND		1000	500	ug/Kg			01/26/19 12:15	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			01/26/19 12:15	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*60 - 140*		*01/26/19 12:15*	*100*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*		*01/26/19 12:15*	*100*

Lab Sample ID: LCS 440-525147/5
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	2500	2190		ug/Kg		88	55 - 130
1,1,1,2-Tetrachloroethane	2500	2430		ug/Kg		97	70 - 140
1,1,1-Trichloroethane	2500	2380		ug/Kg		95	65 - 140
1,1,2,2-Tetrachloroethane	2500	2210		ug/Kg		88	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525147/5
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	2500	2340		ug/Kg		94	65 - 130
1,1-Dichloroethane	2500	2360		ug/Kg		94	65 - 130
1,1-Dichloroethene	2500	3030		ug/Kg		121	75 - 140
1,1-Dichloropropene	2500	2380		ug/Kg		95	70 - 130
1,2,3-Trichlorobenzene	2500	2620		ug/Kg		105	60 - 135
1,2,4-Trichlorobenzene	2500	2700		ug/Kg		108	65 - 135
1,2,4-Trimethylbenzene	2500	2430		ug/Kg		97	70 - 125
1,2-Dibromo-3-Chloropropane	2500	1980		ug/Kg		79	45 - 135
1,2-Dichlorobenzene	2500	2560		ug/Kg		102	70 - 120
1,2-Dichloroethane	2500	2150		ug/Kg		86	60 - 145
1,2-Dichloropropane	2500	2340		ug/Kg		94	75 - 125
1,3,5-Trimethylbenzene	2500	2470		ug/Kg		99	70 - 125
1,3-Dichlorobenzene	2500	2490		ug/Kg		99	70 - 125
1,3-Dichloropropane	2500	2300		ug/Kg		92	65 - 130
1,4-Dichlorobenzene	2500	2490		ug/Kg		99	70 - 125
2,2-Dichloropropane	2500	2370		ug/Kg		95	60 - 145
2-Chlorotoluene	2500	2370		ug/Kg		95	70 - 125
2-Hexanone	2500	1490		ug/Kg		59	35 - 140
4-Chlorotoluene	2500	2420		ug/Kg		97	70 - 125
4-Isopropyltoluene	2500	2530		ug/Kg		101	70 - 125
Benzene	2500	2480		ug/Kg		99	65 - 120
Bromobenzene	2500	2570		ug/Kg		103	70 - 120
Bromoform	2500	2460		ug/Kg		98	50 - 130
Bromomethane	2500	2920		ug/Kg		117	30 - 140
Carbon disulfide	2500	2660		ug/Kg		106	50 - 130
Carbon tetrachloride	2500	2440		ug/Kg		97	65 - 145
Chlorobenzene	2500	2500		ug/Kg		100	70 - 125
Chlorobromomethane	2500	2800		ug/Kg		112	65 - 125
Chloroethane	2500	2690		ug/Kg		108	40 - 140
Chloroform	2500	2520		ug/Kg		101	75 - 130
Chloromethane	2500	2270		ug/Kg		91	30 - 140
cis-1,2-Dichloroethene	2500	2540		ug/Kg		102	65 - 130
cis-1,3-Dichloropropene	2500	2520		ug/Kg		101	70 - 130
Chlorodibromomethane	2500	2380		ug/Kg		95	65 - 140
Dibromomethane	2500	2390		ug/Kg		96	65 - 130
Dichlorobromomethane	2500	2290		ug/Kg		91	65 - 135
Dichlorodifluoromethane	2500	2180		ug/Kg		87	10 - 155
Ethylbenzene	2500	2440		ug/Kg		98	80 - 120
Hexachlorobutadiene	2500	2760		ug/Kg		110	60 - 135
Isopropylbenzene	2500	2560		ug/Kg		102	70 - 125
m-Xylene & p-Xylene	2500	2610		ug/Kg		104	70 - 125
Methylene Chloride	2500	2770		ug/Kg		111	60 - 140
Methyl tert-butyl ether	2500	2420		ug/Kg		97	55 - 145
Naphthalene	2500	2340		ug/Kg		94	50 - 140
n-Butylbenzene	2500	2470		ug/Kg		99	70 - 130
N-Propylbenzene	2500	2470		ug/Kg		99	70 - 130
o-Xylene	2500	2660		ug/Kg		106	70 - 125
sec-Butylbenzene	2500	2510		ug/Kg		101	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525147/5
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	2500	2500		ug/Kg		100	70 - 135
tert-Butylbenzene	2500	2570		ug/Kg		103	70 - 125
Tetrachloroethene	2500	2650		ug/Kg		106	65 - 125
Toluene	2500	2500		ug/Kg		100	80 - 120
trans-1,2-Dichloroethene	2500	2820		ug/Kg		113	65 - 130
trans-1,3-Dichloropropene	2500	2400		ug/Kg		96	65 - 135
Trichloroethene	2500	2690		ug/Kg		108	70 - 130
Trichlorofluoromethane	2500	2430		ug/Kg		97	50 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2900		ug/Kg		116	60 - 140
Vinyl acetate	2500	2190		ug/Kg		87	25 - 145
Vinyl chloride	2500	1260		ug/Kg		50	10 - 120
Ethylene Dibromide	2500	2400		ug/Kg		96	70 - 130
2-Butanone (MEK)	2500	2130		ug/Kg		85	40 - 145
4-Methyl-2-pentanone (MIBK)	2500	1470		ug/Kg		59	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 140*

Lab Sample ID: LCSD 440-525147/6
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	2500	2280		ug/Kg		91	55 - 130	4	25
1,1,1,2-Tetrachloroethane	2500	2470		ug/Kg		99	70 - 140	1	20
1,1,1-Trichloroethane	2500	2440		ug/Kg		98	65 - 140	3	20
1,1,2,2-Tetrachloroethane	2500	2250		ug/Kg		90	55 - 135	2	25
1,1,2-Trichloroethane	2500	2440		ug/Kg		98	65 - 130	4	20
1,1-Dichloroethane	2500	2410		ug/Kg		96	65 - 130	2	20
1,1-Dichloroethene	2500	3120		ug/Kg		125	75 - 140	3	20
1,1-Dichloropropene	2500	2400		ug/Kg		96	70 - 130	1	20
1,2,3-Trichlorobenzene	2500	2730		ug/Kg		109	60 - 135	4	20
1,2,4-Trichlorobenzene	2500	2780		ug/Kg		111	65 - 135	3	20
1,2,4-Trimethylbenzene	2500	2580		ug/Kg		103	70 - 125	6	20
1,2-Dibromo-3-Chloropropane	2500	2150		ug/Kg		86	45 - 135	8	25
1,2-Dichlorobenzene	2500	2630		ug/Kg		105	70 - 120	3	20
1,2-Dichloroethane	2500	2230		ug/Kg		89	60 - 145	4	20
1,2-Dichloropropane	2500	2320		ug/Kg		93	75 - 125	1	20
1,3,5-Trimethylbenzene	2500	2570		ug/Kg		103	70 - 125	4	20
1,3-Dichlorobenzene	2500	2600		ug/Kg		104	70 - 125	5	20
1,3-Dichloropropane	2500	2330		ug/Kg		93	65 - 130	1	20
1,4-Dichlorobenzene	2500	2570		ug/Kg		103	70 - 125	3	20
2,2-Dichloropropane	2500	2510		ug/Kg		100	60 - 145	6	25
2-Chlorotoluene	2500	2430		ug/Kg		97	70 - 125	3	20
2-Hexanone	2500	1420		ug/Kg		57	35 - 140	4	30
4-Chlorotoluene	2500	2470		ug/Kg		99	70 - 125	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525147/6
Matrix: Solid
Analysis Batch: 525147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Isopropyltoluene			2500	2620		ug/Kg		105	70 - 125	3	20
Benzene			2500	2630		ug/Kg		105	65 - 120	6	20
Bromobenzene			2500	2650		ug/Kg		106	70 - 120	3	20
Bromoform			2500	2450		ug/Kg		98	50 - 130	0	25
Bromomethane			2500	3080		ug/Kg		123	30 - 140	5	30
Carbon disulfide			2500	2750		ug/Kg		110	50 - 130	3	20
Carbon tetrachloride			2500	2520		ug/Kg		101	65 - 145	3	20
Chlorobenzene			2500	2510		ug/Kg		100	70 - 125	0	20
Chlorobromomethane			2500	2930		ug/Kg		117	65 - 125	5	20
Chloroethane			2500	2770		ug/Kg		111	40 - 140	3	25
Chloroform			2500	2580		ug/Kg		103	75 - 130	2	20
Chloromethane			2500	2290		ug/Kg		91	30 - 140	1	25
cis-1,2-Dichloroethene			2500	2630		ug/Kg		105	65 - 130	3	20
cis-1,3-Dichloropropene			2500	2550		ug/Kg		102	70 - 130	1	20
Chlorodibromomethane			2500	2440		ug/Kg		98	65 - 140	3	20
Dibromomethane			2500	2340		ug/Kg		94	65 - 130	2	20
Dichlorobromomethane			2500	2320		ug/Kg		93	65 - 135	1	20
Dichlorodifluoromethane			2500	2250		ug/Kg		90	10 - 155	3	30
Ethylbenzene			2500	2500		ug/Kg		100	80 - 120	2	20
Hexachlorobutadiene			2500	2840		ug/Kg		114	60 - 135	3	20
Isopropylbenzene			2500	2590		ug/Kg		104	70 - 125	1	20
m-Xylene & p-Xylene			2500	2650		ug/Kg		106	70 - 125	2	20
Methylene Chloride			2500	2820		ug/Kg		113	60 - 140	2	20
Methyl tert-butyl ether			2500	2580		ug/Kg		103	55 - 145	6	25
Naphthalene			2500	2470		ug/Kg		99	50 - 140	5	25
n-Butylbenzene			2500	2590		ug/Kg		104	70 - 130	5	20
N-Propylbenzene			2500	2510		ug/Kg		100	70 - 130	2	20
o-Xylene			2500	2560		ug/Kg		102	70 - 125	4	20
sec-Butylbenzene			2500	2630		ug/Kg		105	70 - 125	4	20
Styrene			2500	2530		ug/Kg		101	70 - 135	1	20
tert-Butylbenzene			2500	2680		ug/Kg		107	70 - 125	4	20
Tetrachloroethene			2500	2750		ug/Kg		110	65 - 125	4	20
Toluene			2500	2470		ug/Kg		99	80 - 120	1	20
trans-1,2-Dichloroethene			2500	3020		ug/Kg		121	65 - 130	7	20
trans-1,3-Dichloropropene			2500	2410		ug/Kg		96	65 - 135	0	20
Trichloroethene			2500	2740		ug/Kg		109	70 - 130	2	20
Trichlorofluoromethane			2500	2510		ug/Kg		100	50 - 145	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane			2500	3090		ug/Kg		124	60 - 140	6	40
Vinyl acetate			2500	2260		ug/Kg		90	25 - 145	3	25
Vinyl chloride			2500	1290		ug/Kg		51	10 - 120	2	30
Ethylene Dibromide			2500	2310		ug/Kg		92	70 - 130	4	20
2-Butanone (MEK)			2500	2090		ug/Kg		84	40 - 145	2	30
4-Methyl-2-pentanone (MIBK)			2500	1490		ug/Kg		60	40 - 145	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 140*

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		40.3	43.3		ug/Kg		108	50 - 150
1,1,1,2-Tetrachloroethane	ND		40.3	42.9		ug/Kg		107	65 - 145
1,1,1-Trichloroethane	ND		40.3	44.0		ug/Kg		109	65 - 145
1,1,2,2-Tetrachloroethane	ND		40.3	34.2		ug/Kg		85	40 - 160
1,1,2-Trichloroethane	ND		40.3	36.6		ug/Kg		91	65 - 140
1,1-Dichloroethane	ND		40.3	37.7		ug/Kg		94	65 - 135
1,1-Dichloroethene	ND		40.3	40.8		ug/Kg		101	65 - 135
1,1-Dichloropropene	ND		40.3	37.7		ug/Kg		94	65 - 135
1,2,3-Trichlorobenzene	ND		40.3	24.7		ug/Kg		61	45 - 145
1,2,4-Trichlorobenzene	ND		40.3	28.1		ug/Kg		70	50 - 140
1,2,4-Trimethylbenzene	ND		40.3	33.1		ug/Kg		82	65 - 140
1,2-Dibromo-3-Chloropropane	ND		40.3	34.9		ug/Kg		87	40 - 150
1,2-Dichlorobenzene	ND		40.3	37.4		ug/Kg		93	70 - 130
1,2-Dichloroethane	ND		40.3	41.5		ug/Kg		103	60 - 150
1,2-Dichloropropane	ND		40.3	36.8		ug/Kg		91	65 - 130
1,3,5-Trimethylbenzene	ND		40.3	33.4		ug/Kg		83	65 - 135
1,3-Dichlorobenzene	ND		40.3	38.0		ug/Kg		94	70 - 130
1,3-Dichloropropane	ND		40.3	36.8		ug/Kg		91	65 - 140
1,4-Dichlorobenzene	ND		40.3	38.9		ug/Kg		97	70 - 130
2,2-Dichloropropane	ND		40.3	41.9		ug/Kg		104	65 - 150
2-Chlorotoluene	ND		40.3	34.0		ug/Kg		85	60 - 135
2-Hexanone	ND		40.3	33.1		ug/Kg		82	35 - 160
4-Chlorotoluene	ND		40.3	33.5		ug/Kg		83	65 - 135
4-Isopropyltoluene	ND		40.3	33.6		ug/Kg		83	60 - 140
Benzene	ND		40.3	36.0		ug/Kg		90	65 - 130
Bromobenzene	ND		40.3	44.7		ug/Kg		111	65 - 140
Bromoform	ND		40.3	43.8		ug/Kg		109	50 - 145
Bromomethane	ND		40.3	39.9		ug/Kg		99	60 - 155
Carbon disulfide	ND		40.3	35.3		ug/Kg		88	40 - 140
Carbon tetrachloride	ND		40.3	45.2		ug/Kg		112	60 - 145
Chlorobenzene	ND		40.3	38.7		ug/Kg		96	70 - 130
Chlorobromomethane	ND		40.3	47.0		ug/Kg		117	65 - 145
Chloroethane	ND		40.3	34.2		ug/Kg		85	60 - 150
Chloroform	ND		40.3	39.7		ug/Kg		99	65 - 135
Chloromethane	ND		40.3	35.2		ug/Kg		87	40 - 145
cis-1,2-Dichloroethene	ND		40.3	42.6		ug/Kg		106	65 - 135
cis-1,3-Dichloropropene	ND		40.3	39.5		ug/Kg		98	70 - 135
Chlorodibromomethane	ND		40.3	44.1		ug/Kg		110	60 - 145
Dibromomethane	ND		40.3	41.3		ug/Kg		103	65 - 140
Dichlorobromomethane	ND		40.3	38.8		ug/Kg		96	65 - 145
Dichlorodifluoromethane	ND		40.3	38.5		ug/Kg		96	30 - 160
Ethylbenzene	ND		40.3	33.8		ug/Kg		84	70 - 135
Hexachlorobutadiene	ND		40.3	23.7		ug/Kg		59	50 - 145
Isopropylbenzene	ND		40.3	32.4		ug/Kg		80	70 - 145
m-Xylene & p-Xylene	ND		40.3	34.1		ug/Kg		85	70 - 130
Methylene Chloride	ND		40.3	37.0		ug/Kg		92	55 - 145
Methyl tert-butyl ether	ND		40.3	42.6		ug/Kg		106	55 - 155
Naphthalene	ND		40.3	29.4		ug/Kg		73	40 - 150
n-Butylbenzene	ND		40.3	26.7		ug/Kg		66	55 - 145
N-Propylbenzene	ND		40.3	33.2		ug/Kg		82	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	ND		40.3	34.7		ug/Kg		86	65 - 130
sec-Butylbenzene	ND		40.3	30.2		ug/Kg		75	60 - 135
Styrene	ND		40.3	30.4		ug/Kg		75	70 - 140
tert-Butylbenzene	ND		40.3	35.9		ug/Kg		89	60 - 140
Tetrachloroethene	ND		40.3	45.7		ug/Kg		114	65 - 135
Toluene	ND		40.3	36.9		ug/Kg		92	70 - 130
trans-1,2-Dichloroethene	ND		40.3	39.9		ug/Kg		99	70 - 135
trans-1,3-Dichloropropene	ND		40.3	37.6		ug/Kg		93	60 - 145
Trichloroethene	ND	*	40.3	44.1		ug/Kg		110	65 - 140
Trichlorofluoromethane	ND		40.3	41.9		ug/Kg		104	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40.3	41.2		ug/Kg		102	60 - 140
Vinyl acetate	ND	F1	40.3	ND	F1	ug/Kg		0	40 - 150
Vinyl chloride	ND		40.3	33.4		ug/Kg		83	55 - 140
Ethylene Dibromide	ND		40.3	37.8		ug/Kg		94	65 - 140
2-Butanone (MEK)	ND		40.3	35.3		ug/Kg		88	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		40.3	34.3		ug/Kg		85	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		41.5	43.3		ug/Kg		104	50 - 150	0	30
1,1,1,2-Tetrachloroethane	ND		41.5	44.4		ug/Kg		107	65 - 145	3	20
1,1,1-Trichloroethane	ND		41.5	46.1		ug/Kg		111	65 - 145	5	20
1,1,2,2-Tetrachloroethane	ND		41.5	35.1		ug/Kg		85	40 - 160	3	30
1,1,2-Trichloroethane	ND		41.5	37.8		ug/Kg		91	65 - 140	3	30
1,1-Dichloroethane	ND		41.5	39.2		ug/Kg		94	65 - 135	4	25
1,1-Dichloroethene	ND		41.5	42.4		ug/Kg		102	65 - 135	4	25
1,1-Dichloropropene	ND		41.5	39.4		ug/Kg		95	65 - 135	4	20
1,2,3-Trichlorobenzene	ND		41.5	32.5		ug/Kg		78	45 - 145	27	30
1,2,4-Trichlorobenzene	ND		41.5	35.3		ug/Kg		85	50 - 140	23	30
1,2,4-Trimethylbenzene	ND		41.5	32.8		ug/Kg		79	65 - 140	1	25
1,2-Dibromo-3-Chloropropane	ND		41.5	37.3		ug/Kg		90	40 - 150	7	30
1,2-Dichlorobenzene	ND		41.5	41.0		ug/Kg		99	70 - 130	9	25
1,2-Dichloroethane	ND		41.5	43.5		ug/Kg		105	60 - 150	5	25
1,2-Dichloropropane	ND		41.5	38.7		ug/Kg		93	65 - 130	5	20
1,3,5-Trimethylbenzene	ND		41.5	33.0		ug/Kg		80	65 - 135	1	25
1,3-Dichlorobenzene	ND		41.5	39.6		ug/Kg		95	70 - 130	4	25
1,3-Dichloropropane	ND		41.5	37.1		ug/Kg		89	65 - 140	1	25
1,4-Dichlorobenzene	ND		41.5	39.7		ug/Kg		96	70 - 130	2	25
2,2-Dichloropropane	ND		41.5	43.2		ug/Kg		104	65 - 150	3	25
2-Chlorotoluene	ND		41.5	33.4		ug/Kg		80	60 - 135	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	ND		41.5	33.8		ug/Kg		81	35 - 160	2	40
4-Chlorotoluene	ND		41.5	33.2		ug/Kg		80	65 - 135	1	25
4-Isopropyltoluene	ND		41.5	34.3		ug/Kg		83	60 - 140	2	25
Benzene	ND		41.5	37.5		ug/Kg		90	65 - 130	4	20
Bromobenzene	ND		41.5	44.1		ug/Kg		106	65 - 140	1	25
Bromoform	ND		41.5	47.5		ug/Kg		114	50 - 145	8	30
Bromomethane	ND		41.5	42.4		ug/Kg		102	60 - 155	6	25
Carbon disulfide	ND		41.5	37.4		ug/Kg		90	40 - 140	6	20
Carbon tetrachloride	ND		41.5	46.9		ug/Kg		113	60 - 145	4	25
Chlorobenzene	ND		41.5	38.7		ug/Kg		93	70 - 130	0	25
Chlorobromomethane	ND		41.5	49.3		ug/Kg		119	65 - 145	5	25
Chloroethane	ND		41.5	35.2		ug/Kg		85	60 - 150	3	25
Chloroform	ND		41.5	41.8		ug/Kg		101	65 - 135	5	20
Chloromethane	ND		41.5	36.8		ug/Kg		89	40 - 145	4	25
cis-1,2-Dichloroethene	ND		41.5	44.1		ug/Kg		106	65 - 135	3	25
cis-1,3-Dichloropropene	ND		41.5	40.3		ug/Kg		97	70 - 135	2	25
Chlorodibromomethane	ND		41.5	46.1		ug/Kg		111	60 - 145	4	25
Dibromomethane	ND		41.5	43.2		ug/Kg		104	65 - 140	4	25
Dichlorobromomethane	ND		41.5	41.0		ug/Kg		99	65 - 145	6	20
Dichlorodifluoromethane	ND		41.5	39.8		ug/Kg		96	30 - 160	3	35
Ethylbenzene	ND		41.5	34.7		ug/Kg		84	70 - 135	3	25
Hexachlorobutadiene	ND		41.5	27.5		ug/Kg		66	50 - 145	15	35
Isopropylbenzene	ND		41.5	34.2		ug/Kg		82	70 - 145	5	25
m-Xylene & p-Xylene	ND		41.5	35.0		ug/Kg		84	70 - 130	2	25
Methylene Chloride	ND		41.5	39.5		ug/Kg		95	55 - 145	6	25
Methyl tert-butyl ether	ND		41.5	45.4		ug/Kg		109	55 - 155	6	35
Naphthalene	ND		41.5	35.5		ug/Kg		85	40 - 150	19	40
n-Butylbenzene	ND		41.5	28.0		ug/Kg		67	55 - 145	5	30
N-Propylbenzene	ND		41.5	31.5		ug/Kg		76	65 - 140	5	25
o-Xylene	ND		41.5	36.9		ug/Kg		89	65 - 130	6	25
sec-Butylbenzene	ND		41.5	30.9		ug/Kg		74	60 - 135	2	25
Styrene	ND		41.5	31.3		ug/Kg		75	70 - 140	3	25
tert-Butylbenzene	ND		41.5	35.9		ug/Kg		86	60 - 140	0	25
Tetrachloroethene	ND		41.5	45.7		ug/Kg		110	65 - 135	0	25
Toluene	ND		41.5	36.9		ug/Kg		89	70 - 130	0	20
trans-1,2-Dichloroethene	ND		41.5	41.8		ug/Kg		101	70 - 135	5	25
trans-1,3-Dichloropropene	ND		41.5	38.1		ug/Kg		92	60 - 145	1	25
Trichloroethene	ND	*	41.5	46.1		ug/Kg		111	65 - 140	4	25
Trichlorofluoromethane	ND		41.5	43.7		ug/Kg		105	55 - 155	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		41.5	43.4		ug/Kg		105	60 - 140	5	40
Vinyl acetate	ND	F1	41.5	15.3	F1	ug/Kg		37	40 - 150	NC	30
Vinyl chloride	ND		41.5	34.3		ug/Kg		83	55 - 140	3	30
Ethylene Dibromide	ND		41.5	40.4		ug/Kg		97	65 - 140	7	25
2-Butanone (MEK)	ND		41.5	37.0		ug/Kg		89	25 - 170	5	40
4-Methyl-2-pentanone (MIBK)	ND		41.5	35.1		ug/Kg		85	40 - 155	2	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 525143

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525161

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 440-525479/5
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/29/19 08:59	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/29/19 08:59	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/29/19 08:59	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/29/19 08:59	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
2-Hexanone	ND		10	5.0	ug/Kg			01/29/19 08:59	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Benzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Bromoform	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/29/19 08:59	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Chloroform	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525479/5
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/29/19 08:59	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Styrene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Toluene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/29/19 08:59	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/29/19 08:59	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/29/19 08:59	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/29/19 08:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/29/19 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*		*01/29/19 08:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*01/29/19 08:59*	*1*

Lab Sample ID: LCS 440-525479/6
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	45.7		ug/Kg		91	60 - 135
1,1,1,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	70 - 130
1,1,1-Trichloroethane	50.0	45.8		ug/Kg		92	65 - 135
1,1,2,2-Tetrachloroethane	50.0	43.3		ug/Kg		87	55 - 140
1,1,2-Trichloroethane	50.0	47.5		ug/Kg		95	65 - 135
1,1-Dichloroethane	50.0	45.6		ug/Kg		91	70 - 130
1,1-Dichloroethene	50.0	60.4		ug/Kg		121	70 - 125
1,1-Dichloropropene	50.0	45.9		ug/Kg		92	70 - 130
1,2,3-Trichlorobenzene	50.0	52.0		ug/Kg		104	60 - 130
1,2,4-Trichlorobenzene	50.0	52.5		ug/Kg		105	70 - 135
1,2,4-Trimethylbenzene	50.0	45.2		ug/Kg		90	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.0		ug/Kg		88	50 - 135
1,2-Dichlorobenzene	50.0	49.4		ug/Kg		99	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525479/6
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	42.9		ug/Kg		86	60 - 140
1,2-Dichloropropane	50.0	46.9		ug/Kg		94	70 - 130
1,3,5-Trimethylbenzene	50.0	45.4		ug/Kg		91	70 - 125
1,3-Dichlorobenzene	50.0	48.5		ug/Kg		97	75 - 125
1,3-Dichloropropane	50.0	43.4		ug/Kg		87	70 - 125
1,4-Dichlorobenzene	50.0	47.8		ug/Kg		96	75 - 120
2,2-Dichloropropane	50.0	46.8		ug/Kg		94	60 - 145
2-Chlorotoluene	50.0	43.6		ug/Kg		87	70 - 125
2-Hexanone	50.0	35.7		ug/Kg		71	40 - 150
4-Chlorotoluene	50.0	43.4		ug/Kg		87	75 - 125
4-Isopropyltoluene	50.0	46.6		ug/Kg		93	75 - 125
Benzene	50.0	50.7		ug/Kg		101	65 - 120
Bromobenzene	50.0	49.9		ug/Kg		100	75 - 120
Bromoform	50.0	52.6		ug/Kg		105	55 - 135
Bromomethane	50.0	61.8		ug/Kg		124	60 - 145
Carbon disulfide	50.0	50.8		ug/Kg		102	50 - 130
Carbon tetrachloride	50.0	46.7		ug/Kg		93	65 - 140
Chlorobenzene	50.0	47.8		ug/Kg		96	75 - 120
Chlorobromomethane	50.0	63.0		ug/Kg		126	70 - 135
Chloroethane	50.0	53.3		ug/Kg		107	60 - 140
Chloroform	50.0	49.9		ug/Kg		100	70 - 130
Chloromethane	50.0	44.9		ug/Kg		90	45 - 145
cis-1,2-Dichloroethene	50.0	52.3		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	75 - 125
Chlorodibromomethane	50.0	47.2		ug/Kg		94	65 - 140
Dibromomethane	50.0	48.1		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	46.1		ug/Kg		92	70 - 135
Dichlorodifluoromethane	50.0	43.7		ug/Kg		87	35 - 160
Ethylbenzene	50.0	46.4		ug/Kg		93	70 - 125
Hexachlorobutadiene	50.0	52.0		ug/Kg		104	60 - 135
Isopropylbenzene	50.0	49.0		ug/Kg		98	75 - 130
m-Xylene & p-Xylene	50.0	49.5		ug/Kg		99	70 - 125
Methylene Chloride	50.0	56.3		ug/Kg		113	55 - 135
Methyl tert-butyl ether	50.0	51.0		ug/Kg		102	60 - 140
Naphthalene	50.0	49.2		ug/Kg		98	55 - 135
n-Butylbenzene	50.0	44.5		ug/Kg		89	70 - 130
N-Propylbenzene	50.0	44.4		ug/Kg		89	70 - 130
o-Xylene	50.0	50.3		ug/Kg		101	70 - 125
sec-Butylbenzene	50.0	47.2		ug/Kg		94	70 - 125
Styrene	50.0	48.6		ug/Kg		97	75 - 130
tert-Butylbenzene	50.0	48.5		ug/Kg		97	70 - 125
Tetrachloroethene	50.0	53.9		ug/Kg		108	70 - 125
Toluene	50.0	47.3		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	58.2		ug/Kg		116	70 - 125
trans-1,3-Dichloropropene	50.0	46.1		ug/Kg		92	70 - 135
Trichloroethene	50.0	56.4		ug/Kg		113	70 - 125
Trichlorofluoromethane	50.0	47.0		ug/Kg		94	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525479/6
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.0		ug/Kg		118	60 - 140
Vinyl acetate	50.0	45.5		ug/Kg		91	45 - 145
Vinyl chloride	50.0	48.1		ug/Kg		96	55 - 135
Ethylene Dibromide	50.0	48.0		ug/Kg		96	70 - 130
2-Butanone (MEK)	50.0	48.9		ug/Kg		98	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	35.2		ug/Kg		70	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*

Lab Sample ID: LCSD 440-525479/7
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	50.0	43.8		ug/Kg		88	60 - 135	4	25
1,1,1,2-Tetrachloroethane	50.0	47.5		ug/Kg		95	70 - 130	1	20
1,1,1-Trichloroethane	50.0	42.5		ug/Kg		85	65 - 135	7	20
1,1,2,2-Tetrachloroethane	50.0	43.0		ug/Kg		86	55 - 140	1	30
1,1,2-Trichloroethane	50.0	45.5		ug/Kg		91	65 - 135	4	20
1,1-Dichloroethane	50.0	42.0		ug/Kg		84	70 - 130	8	20
1,1-Dichloroethene	50.0	57.7		ug/Kg		115	70 - 125	5	20
1,1-Dichloropropene	50.0	43.3		ug/Kg		87	70 - 130	6	20
1,2,3-Trichlorobenzene	50.0	51.3		ug/Kg		103	60 - 130	1	20
1,2,4-Trichlorobenzene	50.0	52.4		ug/Kg		105	70 - 135	0	20
1,2,4-Trimethylbenzene	50.0	44.0		ug/Kg		88	70 - 125	3	20
1,2-Dibromo-3-Chloropropane	50.0	42.6		ug/Kg		85	50 - 135	3	30
1,2-Dichlorobenzene	50.0	48.9		ug/Kg		98	75 - 120	1	20
1,2-Dichloroethane	50.0	38.9		ug/Kg		78	60 - 140	10	20
1,2-Dichloropropane	50.0	41.4		ug/Kg		83	70 - 130	12	20
1,3,5-Trimethylbenzene	50.0	43.8		ug/Kg		88	70 - 125	4	20
1,3-Dichlorobenzene	50.0	47.1		ug/Kg		94	75 - 125	3	20
1,3-Dichloropropane	50.0	43.7		ug/Kg		87	70 - 125	1	20
1,4-Dichlorobenzene	50.0	46.6		ug/Kg		93	75 - 120	3	20
2,2-Dichloropropane	50.0	42.6		ug/Kg		85	60 - 145	9	20
2-Chlorotoluene	50.0	42.4		ug/Kg		85	70 - 125	3	20
2-Hexanone	50.0	35.8		ug/Kg		72	40 - 150	0	35
4-Chlorotoluene	50.0	43.3		ug/Kg		87	75 - 125	0	20
4-Isopropyltoluene	50.0	45.5		ug/Kg		91	75 - 125	2	20
Benzene	50.0	46.5		ug/Kg		93	65 - 120	9	20
Bromobenzene	50.0	48.8		ug/Kg		98	75 - 120	2	20
Bromoform	50.0	51.2		ug/Kg		102	55 - 135	3	25
Bromomethane	50.0	57.0		ug/Kg		114	60 - 145	8	20
Carbon disulfide	50.0	47.6		ug/Kg		95	50 - 130	6	20
Carbon tetrachloride	50.0	43.4		ug/Kg		87	65 - 140	7	20
Chlorobenzene	50.0	46.1		ug/Kg		92	75 - 120	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525479/7
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobromomethane			50.0	58.1		ug/Kg		116	70 - 135	8	20
Chloroethane			50.0	48.5		ug/Kg		97	60 - 140	9	25
Chloroform			50.0	46.8		ug/Kg		94	70 - 130	7	20
Chloromethane			50.0	41.8		ug/Kg		84	45 - 145	7	25
cis-1,2-Dichloroethene			50.0	48.7		ug/Kg		97	70 - 125	7	20
cis-1,3-Dichloropropene			50.0	47.0		ug/Kg		94	75 - 125	2	20
Chlorodibromomethane			50.0	46.2		ug/Kg		92	65 - 140	2	20
Dibromomethane			50.0	46.6		ug/Kg		93	70 - 130	3	20
Dichlorobromomethane			50.0	41.5		ug/Kg		83	70 - 135	10	20
Dichlorodifluoromethane			50.0	40.4		ug/Kg		81	35 - 160	8	30
Ethylbenzene			50.0	44.7		ug/Kg		89	70 - 125	4	20
Hexachlorobutadiene			50.0	50.2		ug/Kg		100	60 - 135	4	20
Isopropylbenzene			50.0	48.0		ug/Kg		96	75 - 130	2	20
m-Xylene & p-Xylene			50.0	49.0		ug/Kg		98	70 - 125	1	20
Methylene Chloride			50.0	50.2		ug/Kg		100	55 - 135	11	20
Methyl tert-butyl ether			50.0	47.5		ug/Kg		95	60 - 140	7	25
Naphthalene			50.0	49.4		ug/Kg		99	55 - 135	0	25
n-Butylbenzene			50.0	43.5		ug/Kg		87	70 - 130	2	20
N-Propylbenzene			50.0	43.2		ug/Kg		86	70 - 130	3	20
o-Xylene			50.0	48.6		ug/Kg		97	70 - 125	3	20
sec-Butylbenzene			50.0	45.6		ug/Kg		91	70 - 125	3	20
Styrene			50.0	47.6		ug/Kg		95	75 - 130	2	20
tert-Butylbenzene			50.0	47.3		ug/Kg		95	70 - 125	3	20
Tetrachloroethene			50.0	51.3		ug/Kg		103	70 - 125	5	20
Toluene			50.0	45.5		ug/Kg		91	70 - 125	4	20
trans-1,2-Dichloroethene			50.0	54.8		ug/Kg		110	70 - 125	6	20
trans-1,3-Dichloropropene			50.0	45.5		ug/Kg		91	70 - 135	1	20
Trichloroethene			50.0	53.2		ug/Kg		106	70 - 125	6	20
Trichlorofluoromethane			50.0	43.8		ug/Kg		88	60 - 145	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	54.9		ug/Kg		110	60 - 140	7	40
Vinyl acetate			50.0	42.3		ug/Kg		85	45 - 145	7	20
Vinyl chloride			50.0	45.0		ug/Kg		90	55 - 135	6	25
Ethylene Dibromide			50.0	46.9		ug/Kg		94	70 - 130	2	20
2-Butanone (MEK)			50.0	50.4		ug/Kg		101	40 - 145	3	35
4-Methyl-2-pentanone (MIBK)			50.0	36.4		ug/Kg		73	40 - 145	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: 720-90948-D-7-E MS
Matrix: Solid
Analysis Batch: 525148

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 524446

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	100		55 - 140
4-Bromofluorobenzene (Surr)	92		65 - 140
Toluene-d8 (Surr)	96		60 - 140

Lab Sample ID: 720-90948-D-7-F MSD
Matrix: Solid
Analysis Batch: 525148

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 524446

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	98		55 - 140
4-Bromofluorobenzene (Surr)	93		65 - 140
Toluene-d8 (Surr)	98		60 - 140

Lab Sample ID: MB 440-525144/4
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/26/19 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	119		60 - 120		01/26/19 12:11	1
4-Bromofluorobenzene (Surr)	85		79 - 120		01/26/19 12:11	1
Toluene-d8 (Surr)	96		79 - 123		01/26/19 12:11	1

Lab Sample ID: LCS 440-525144/17
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	495		ug/Kg		99	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	116		60 - 120
4-Bromofluorobenzene (Surr)	84		79 - 120
Toluene-d8 (Surr)	97		79 - 123

Lab Sample ID: MB 440-525148/4
Matrix: Solid
Analysis Batch: 525148

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			01/26/19 12:15	100

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-525148/4
Matrix: Solid
Analysis Batch: 525148

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		55 - 140		01/26/19 12:15	100
4-Bromofluorobenzene (Surr)	93		65 - 140		01/26/19 12:15	100
Toluene-d8 (Surr)	98		60 - 140		01/26/19 12:15	100

Lab Sample ID: LCS 440-525148/7
Matrix: Solid
Analysis Batch: 525148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	50000	56700		ug/Kg		113	60 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	97		55 - 140
4-Bromofluorobenzene (Surr)	93		65 - 140
Toluene-d8 (Surr)	97		60 - 140

Lab Sample ID: LCSD 440-525148/8
Matrix: Solid
Analysis Batch: 525148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	50000	58500		ug/Kg		117	60 - 130	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	101		55 - 140
4-Bromofluorobenzene (Surr)	97		65 - 140
Toluene-d8 (Surr)	100		60 - 140

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2780	2080		ug/Kg		75	55 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	117		60 - 120
4-Bromofluorobenzene (Surr)	95		79 - 120
Toluene-d8 (Surr)	99		79 - 123

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 525144

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		2870	2370		ug/Kg		83	55 - 140	13	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*122*	*X*	*60 - 120*
4-Bromofluorobenzene (Surr)	*89*		*79 - 120*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: MB 440-525480/5
Matrix: Solid
Analysis Batch: 525480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/29/19 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*01/29/19 08:59*	*1*
4-Bromofluorobenzene (Surr)	*88*		*79 - 120*		*01/29/19 08:59*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*		*01/29/19 08:59*	*1*

Lab Sample ID: LCS 440-525480/8
Matrix: Solid
Analysis Batch: 525480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	697		ug/Kg		70	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*91*		*79 - 120*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: LCSD 440-525480/9
Matrix: Solid
Analysis Batch: 525480

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	705		ug/Kg		70	60 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*86*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-259467/1-A
Matrix: Solid
Analysis Batch: 259713

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Anthracene	ND		5.0	2.0	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Benzo[k]fluoranthene	2.14	J	5.0	2.1	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Chrysene	ND		5.0	1.4	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Fluorene	ND		5.0	2.2	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/30/19 10:14	02/02/19 12:40	1
Pyrene	ND		5.0	1.7	ug/Kg		01/30/19 10:14	02/02/19 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*33 - 120*	*01/30/19 10:14*	*02/02/19 12:40*	*1*
Terphenyl-d14	*122*		*35 - 146*	*01/30/19 10:14*	*02/02/19 12:40*	*1*

Lab Sample ID: LCS 720-259467/2-A
Matrix: Solid
Analysis Batch: 259713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	637		ug/Kg		95	38 - 110
Acenaphthene	667	595		ug/Kg		89	37 - 106
Acenaphthylene	667	669		ug/Kg		100	38 - 102
Anthracene	667	672		ug/Kg		101	43 - 103
Benzo[a]anthracene	667	772		ug/Kg		116	49 - 117
Benzo[a]pyrene	667	760		ug/Kg		114	49 - 118
Benzo[b]fluoranthene	667	741		ug/Kg		111	50 - 115
Benzo[g,h,i]perylene	667	769		ug/Kg		115	39 - 122
Benzo[k]fluoranthene	667	719		ug/Kg		108	45 - 115
Chrysene	667	846	*	ug/Kg		127	39 - 123
Dibenz(a,h)anthracene	667	741		ug/Kg		111	43 - 121
Fluoranthene	667	703		ug/Kg		105	47 - 109
Fluorene	667	651		ug/Kg		98	40 - 106
Indeno[1,2,3-cd]pyrene	667	753		ug/Kg		113	43 - 120
Naphthalene	667	581		ug/Kg		87	35 - 110
Phenanthrene	667	598		ug/Kg		90	42 - 110
Pyrene	667	773		ug/Kg		116	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*33 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-259467/2-A
Matrix: Solid
Analysis Batch: 259713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259467

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	129		35 - 146

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 259739

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259467

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	95		33 - 120
Terphenyl-d14	171	X	35 - 146

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 259739

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259467

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	94		33 - 120
Terphenyl-d14	174	X	35 - 146

Lab Sample ID: MB 720-259565/1-A
Matrix: Solid
Analysis Batch: 259713

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Anthracene	ND		5.0	2.0	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Chrysene	ND		5.0	1.4	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Fluorene	ND		5.0	2.2	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Pyrene	ND		5.0	1.7	ug/Kg		01/31/19 12:10	02/02/19 13:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		33 - 120	01/31/19 12:10	02/02/19 13:25	1
Terphenyl-d14	119		35 - 146	01/31/19 12:10	02/02/19 13:25	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-259565/2-A
Matrix: Solid
Analysis Batch: 259713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	603		ug/Kg		90	38 - 110
Acenaphthene	667	566		ug/Kg		85	37 - 106
Acenaphthylene	667	626		ug/Kg		94	38 - 102
Anthracene	667	613		ug/Kg		92	43 - 103
Benzo[a]anthracene	667	699		ug/Kg		105	49 - 117
Benzo[a]pyrene	667	691		ug/Kg		104	49 - 118
Benzo[b]fluoranthene	667	675		ug/Kg		101	50 - 115
Benzo[g,h,i]perylene	667	694		ug/Kg		104	39 - 122
Benzo[k]fluoranthene	667	645		ug/Kg		97	45 - 115
Chrysene	667	750		ug/Kg		113	39 - 123
Dibenz(a,h)anthracene	667	681		ug/Kg		102	43 - 121
Fluoranthene	667	644		ug/Kg		97	47 - 109
Fluorene	667	612		ug/Kg		92	40 - 106
Indeno[1,2,3-cd]pyrene	667	685		ug/Kg		103	43 - 120
Naphthalene	667	557		ug/Kg		84	35 - 110
Phenanthrene	667	549		ug/Kg		82	42 - 110
Pyrene	667	685		ug/Kg		103	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*33 - 120*
Terphenyl-d14	*116*		*35 - 146*

Lab Sample ID: 720-91048-E-19-J MS
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		656	609	J	ug/Kg		93	46 - 110
Acenaphthene	ND		656	471	J	ug/Kg		72	46 - 106
Acenaphthylene	ND		656	613		ug/Kg		93	46 - 108
Anthracene	ND	F1	656	793	F1	ug/Kg		121	55 - 103
Benzo[a]anthracene	ND	F1	656	952	F1	ug/Kg		145	54 - 110
Benzo[a]pyrene	260	J F1	656	1100	F1	ug/Kg		128	62 - 111
Benzo[b]fluoranthene	260	J F1	656	1100	F1	ug/Kg		129	60 - 109
Benzo[g,h,i]perylene	ND	F1	656	783	F1	ug/Kg		119	52 - 114
Benzo[k]fluoranthene	210	J	656	832		ug/Kg		95	58 - 109
Chrysene	ND	F1	656	862	F1	ug/Kg		131	54 - 108
Dibenz(a,h)anthracene	ND	F1	656	827	F1	ug/Kg		126	58 - 112
Fluoranthene	ND		656	668		ug/Kg		102	59 - 109
Fluorene	ND		656	504		ug/Kg		77	52 - 106
Indeno[1,2,3-cd]pyrene	ND		656	789		ug/Kg		120	55 - 120
Naphthalene	ND		656	535		ug/Kg		82	49 - 110
Phenanthrene	ND		656	528		ug/Kg		80	57 - 110
Pyrene	580		656	1330		ug/Kg		114	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*33 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91048-E-19-J MS
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259565

Surrogate	MS %Recovery	MS Qualifier	Limits
Terphenyl-d14	*149*	*X*	*35 - 146*

Lab Sample ID: 720-91048-E-19-K MSD
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		657	506	J	ug/Kg		77	46 - 110	18	35
Acenaphthene	ND		657	387	J	ug/Kg		59	46 - 106	20	35
Acenaphthylene	ND		657	515		ug/Kg		78	46 - 108	17	35
Anthracene	ND	F1	657	667		ug/Kg		102	55 - 103	17	35
Benzo[a]anthracene	ND	F1	657	828	F1	ug/Kg		126	54 - 110	14	35
Benzo[a]pyrene	260	J F1	657	915		ug/Kg		100	62 - 111	18	35
Benzo[b]fluoranthene	260	J F1	657	949		ug/Kg		105	60 - 109	15	35
Benzo[g,h,i]perylene	ND	F1	657	609		ug/Kg		93	52 - 114	25	35
Benzo[k]fluoranthene	210	J	657	720		ug/Kg		77	58 - 109	14	35
Chrysene	ND	F1	657	684		ug/Kg		104	54 - 108	23	35
Dibenz(a,h)anthracene	ND	F1	657	671		ug/Kg		102	58 - 112	21	35
Fluoranthene	ND		657	572		ug/Kg		87	59 - 109	16	35
Fluorene	ND		657	411	J	ug/Kg		63	52 - 106	20	35
Indeno[1,2,3-cd]pyrene	ND		657	655		ug/Kg		100	55 - 120	19	35
Naphthalene	ND		657	436	J	ug/Kg		66	49 - 110	20	35
Phenanthrene	ND		657	449	J	ug/Kg		68	57 - 110	16	35
Pyrene	580		657	1010		ug/Kg		65	50 - 120	27	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	*65*		*33 - 120*
Terphenyl-d14	*123*		*35 - 146*

Lab Sample ID: MB 720-259774/1-A
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Acenaphthene	ND		5.0	2.8	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Anthracene	ND		5.0	2.0	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Benzo[a]pyrene	2.06	J	5.0	1.9	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Benzo[k]fluoranthene	2.13	J	5.0	2.1	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Chrysene	ND		5.0	1.4	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Fluoranthene	ND		5.0	1.4	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Fluorene	ND		5.0	2.2	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		02/04/19 19:08	02/05/19 09:45	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-259774/1-A
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0	3.5	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Phenanthrene	ND		5.0	1.8	ug/Kg		02/04/19 19:08	02/05/19 09:45	1
Pyrene	ND		5.0	1.7	ug/Kg		02/04/19 19:08	02/05/19 09:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*33 - 120*	*02/04/19 19:08*	*02/05/19 09:45*	*1*
Terphenyl-d14	*116*		*35 - 146*	*02/04/19 19:08*	*02/05/19 09:45*	*1*

Lab Sample ID: LCS 720-259774/2-A
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	530		ug/Kg		80	38 - 110
Acenaphthene	667	474		ug/Kg		71	37 - 106
Acenaphthylene	667	525		ug/Kg		79	38 - 102
Anthracene	667	540		ug/Kg		81	43 - 103
Benzo[a]anthracene	667	686		ug/Kg		103	49 - 117
Benzo[a]pyrene	667	682		ug/Kg		102	49 - 118
Benzo[b]fluoranthene	667	672		ug/Kg		101	50 - 115
Benzo[g,h,i]perylene	667	648		ug/Kg		97	39 - 122
Benzo[k]fluoranthene	667	646		ug/Kg		97	45 - 115
Chrysene	667	729		ug/Kg		109	39 - 123
Dibenz(a,h)anthracene	667	635		ug/Kg		95	43 - 121
Fluoranthene	667	610		ug/Kg		92	47 - 109
Fluorene	667	526		ug/Kg		79	40 - 106
Indeno[1,2,3-cd]pyrene	667	641		ug/Kg		96	43 - 120
Naphthalene	667	485		ug/Kg		73	35 - 110
Phenanthrene	667	478		ug/Kg		72	42 - 110
Pyrene	667	657		ug/Kg		99	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*33 - 120*
Terphenyl-d14	*112*		*35 - 146*

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		652	561		ug/Kg		86	46 - 110
Acenaphthene	ND		652	462		ug/Kg		71	46 - 106
Acenaphthylene	ND		652	549		ug/Kg		84	46 - 108
Anthracene	100	J	652	558		ug/Kg		70	55 - 103
Benzo[a]anthracene	180	J	652	828		ug/Kg		100	54 - 110
Benzo[a]pyrene	240	B	652	944		ug/Kg		108	62 - 111
Benzo[b]fluoranthene	590		652	1120		ug/Kg		81	60 - 109
Benzo[g,h,i]perylene	210	F1	652	520	F1	ug/Kg		47	52 - 114

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[k]fluoranthene	210	B	652	811		ug/Kg		93	58 - 109
Chrysene	270		652	670		ug/Kg		61	54 - 108
Dibenz(a,h)anthracene	ND		652	561		ug/Kg		86	58 - 112
Fluoranthene	130	J	652	693		ug/Kg		87	59 - 109
Fluorene	ND		652	494		ug/Kg		76	52 - 106
Indeno[1,2,3-cd]pyrene	200		652	570		ug/Kg		56	55 - 120
Naphthalene	ND		652	518		ug/Kg		79	49 - 110
Phenanthrene	ND		652	470		ug/Kg		72	57 - 110
Pyrene	210		652	770		ug/Kg		86	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*33 - 120*
Terphenyl-d14	*137*		*35 - 146*

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		659	578		ug/Kg		88	46 - 110	3	35
Acenaphthene	ND		659	463		ug/Kg		70	46 - 106	0	35
Acenaphthylene	ND		659	551		ug/Kg		84	46 - 108	0	35
Anthracene	100	J	659	593		ug/Kg		75	55 - 103	6	35
Benzo[a]anthracene	180	J	659	842		ug/Kg		101	54 - 110	2	35
Benzo[a]pyrene	240	B	659	954		ug/Kg		109	62 - 111	1	35
Benzo[b]fluoranthene	590		659	1100		ug/Kg		78	60 - 109	1	35
Benzo[g,h,i]perylene	210	F1	659	570		ug/Kg		54	52 - 114	9	35
Benzo[k]fluoranthene	210	B	659	789		ug/Kg		88	58 - 109	3	35
Chrysene	270		659	665		ug/Kg		60	54 - 108	1	35
Dibenz(a,h)anthracene	ND		659	601		ug/Kg		91	58 - 112	7	35
Fluoranthene	130	J	659	687		ug/Kg		85	59 - 109	1	35
Fluorene	ND		659	498		ug/Kg		76	52 - 106	1	35
Indeno[1,2,3-cd]pyrene	200		659	616		ug/Kg		63	55 - 120	8	35
Naphthalene	ND		659	529		ug/Kg		80	49 - 110	2	35
Phenanthrene	ND		659	480		ug/Kg		73	57 - 110	2	35
Pyrene	210		659	780		ug/Kg		86	50 - 120	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*33 - 120*
Terphenyl-d14	*135*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-259352/1-A
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/28/19 15:35	01/30/19 22:07	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/28/19 15:35	01/30/19 22:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*01/28/19 15:35*	*01/30/19 22:07*	*1*

Lab Sample ID: LCS 720-259352/2-A
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	174		mg/Kg		105	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*127*		*40 - 130*

Lab Sample ID: 720-90948-D-7-H MSD
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	10000	F2	164	11400	4 F2	mg/Kg		773	50 - 150	34	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Lab Sample ID: 720-90948-E-7-L MS
Matrix: Solid
Analysis Batch: 259447

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259352

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	10000	F2	161	8100	4	mg/Kg		-1246	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Lab Sample ID: MB 720-259473/1-A
Matrix: Solid
Analysis Batch: 259724

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/30/19 10:50	02/04/19 12:26	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/30/19 10:50	02/04/19 12:26	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-259473/1-A
Matrix: Solid
Analysis Batch: 259724

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259473

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	125		40 - 130	01/30/19 10:50	02/04/19 12:26	1

Lab Sample ID: LCS 720-259473/2-A
Matrix: Solid
Analysis Batch: 259724

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259473

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	178		mg/Kg		107	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	125		40 - 130

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 259620

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	490		162	731		mg/Kg		146	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	0	X D	40 - 130

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 259620

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	490		166	596		mg/Kg		62	50 - 150	20	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	0	X D	40 - 130

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: 720-90948-D-7-G MSD
Matrix: Solid
Analysis Batch: 259371

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F2	16.4	14.5	p F2	ug/Kg		88	40 - 120	26	20
4,4'-DDE	ND		16.4	18.7		ug/Kg		114	40 - 120	20	20
4,4'-DDT	ND	F2	16.4	6.73	J p	ug/Kg		41	17 - 144	1	20
Aldrin	ND		16.4	8.66	J p	ug/Kg		53	53 - 120	6	20
alpha-BHC	ND		16.4	13.6		ug/Kg		83	40 - 120	0	20
alpha-Chlordane	ND	F2	16.4	14.9	F2	ug/Kg		90	40 - 120	27	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90948-D-7-G MSD
Matrix: Solid
Analysis Batch: 259371

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
beta-BHC	ND	F1	16.4	ND	F1	ug/Kg		0	40 - 120	NC	20
delta-BHC	ND		16.4	16.1		ug/Kg		98	40 - 120	1	20
Dieldrin	ND		16.4	15.3		ug/Kg		93	46 - 130	4	20
Endosulfan I	ND	F1 F2	16.4	8.47	J p F2	ug/Kg		52	40 - 120	85	20
Endosulfan II	ND		16.4	15.0		ug/Kg		91	40 - 120	10	30
Endosulfan sulfate	ND		16.4	10.0		ug/Kg		61	40 - 120	19	20
Endrin	ND		16.4	12.0		ug/Kg		73	32 - 143	3	20
Endrin aldehyde	ND		16.4	6.49	J F1	ug/Kg		39	40 - 120	5	20
Endrin ketone	ND		16.4	6.77	J	ug/Kg		41	40 - 120	9	20
gamma-BHC (Lindane)	ND	F1	16.4	16.9		ug/Kg		103	58 - 120	3	20
gamma-Chlordane	ND		16.4	10.1	p	ug/Kg		61	40 - 120	2	20
Heptachlor	ND	F2	16.4	6.46	J p F1 F2	ug/Kg		39	52 - 120	55	20
Heptachlor epoxide	ND		16.4	16.4		ug/Kg		100	40 - 120	15	20
Methoxychlor	ND	F1	16.4	4.30	J F1	ug/Kg		26	40 - 120	NC	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*114*	*p*	*21 - 136*
Tetrachloro-m-xylene	*107*		*21 - 145*

Lab Sample ID: 720-90948-E-7-J MS
Matrix: Solid
Analysis Batch: 259371

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F2	16.1	11.2	p	ug/Kg		69	40 - 120
4,4'-DDE	ND		16.1	15.4	p	ug/Kg		95	40 - 120
4,4'-DDT	ND	F2	16.1	6.68	J p	ug/Kg		42	17 - 144
Aldrin	ND		16.1	9.20	J	ug/Kg		57	53 - 120
alpha-BHC	ND		16.1	13.6		ug/Kg		85	40 - 120
alpha-Chlordane	ND	F2	16.1	11.3		ug/Kg		70	40 - 120
beta-BHC	ND	F1	16.1	ND	F1	ug/Kg		0	40 - 120
delta-BHC	ND		16.1	15.9		ug/Kg		99	40 - 120
Dieldrin	ND		16.1	14.6	p	ug/Kg		91	46 - 130
Endosulfan I	ND	F1 F2	16.1	21.1	F1	ug/Kg		131	40 - 120
Endosulfan II	ND		16.1	13.5		ug/Kg		84	40 - 120
Endosulfan sulfate	ND		16.1	8.31	J	ug/Kg		52	40 - 120
Endrin	ND		16.1	11.6		ug/Kg		72	32 - 143
Endrin aldehyde	ND		16.1	6.15	J F1	ug/Kg		38	40 - 120
Endrin ketone	ND		16.1	7.38	J	ug/Kg		46	40 - 120
gamma-BHC (Lindane)	ND	F1	16.1	17.5		ug/Kg		109	58 - 120
gamma-Chlordane	ND		16.1	10.2	p	ug/Kg		64	40 - 120
Heptachlor	ND	F2	16.1	11.3	p	ug/Kg		70	52 - 120
Heptachlor epoxide	ND		16.1	14.1		ug/Kg		88	40 - 120
Methoxychlor	ND	F1	16.1	ND	F1	ug/Kg		0	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*121*		*21 - 136*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90948-E-7-J MS
Matrix: Solid
Analysis Batch: 259371

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259253

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*93*		*21 - 145*

Lab Sample ID: MB 720-259255/1-A
Matrix: Solid
Analysis Batch: 259372

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Aldrin	ND		2.0	0.50	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Chlordane (n.o.s.)	ND		40	2.9	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Endrin	ND		2.0	0.46	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/28/19 14:12	01/29/19 15:14	1
Toxaphene	ND		40	6.8	ug/Kg		01/28/19 14:12	01/29/19 15:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*118*		*21 - 136*	*01/28/19 14:12*	*01/29/19 15:14*	*1*
Tetrachloro-m-xylene	*100*		*21 - 145*	*01/28/19 14:12*	*01/29/19 15:14*	*1*

Lab Sample ID: LCS 720-259255/2-A
Matrix: Solid
Analysis Batch: 259372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	16.4		ug/Kg		98	75 - 128
4,4'-DDE	16.7	14.4		ug/Kg		86	76 - 126
4,4'-DDT	16.7	14.8		ug/Kg		89	63 - 127
Aldrin	16.7	13.8		ug/Kg		83	65 - 120
alpha-BHC	16.7	13.4		ug/Kg		80	46 - 122
alpha-Chlordane	16.7	14.3		ug/Kg		86	70 - 120
beta-BHC	16.7	15.8		ug/Kg		95	78 - 136
delta-BHC	16.7	16.2		ug/Kg		97	43 - 125

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-259255/2-A
Matrix: Solid
Analysis Batch: 259372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dieldrin	16.7	14.3		ug/Kg		86	72 - 120
Endosulfan I	16.7	14.8		ug/Kg		89	62 - 120
Endosulfan II	16.7	15.9		ug/Kg		95	65 - 120
Endosulfan sulfate	16.7	16.8		ug/Kg		101	72 - 121
Endrin	16.7	16.2		ug/Kg		97	68 - 120
Endrin aldehyde	16.7	17.2		ug/Kg		103	68 - 120
Endrin ketone	16.7	16.4		ug/Kg		99	75 - 136
gamma-BHC (Lindane)	16.7	14.2		ug/Kg		85	72 - 120
gamma-Chlordane	16.7	14.1		ug/Kg		85	68 - 120
Heptachlor	16.7	13.8		ug/Kg		83	69 - 120
Heptachlor epoxide	16.7	14.0		ug/Kg		84	68 - 120
Methoxychlor	16.7	15.7		ug/Kg		94	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*21 - 136*
Tetrachloro-m-xylene	*80*		*21 - 145*

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 259608

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F1	15.9	16.5		ug/Kg		104	40 - 120
4,4'-DDE	ND		15.9	13.7		ug/Kg		86	40 - 120
4,4'-DDT	ND		15.9	8.13	p	ug/Kg		51	17 - 144
Aldrin	ND		15.9	11.0		ug/Kg		69	53 - 120
alpha-BHC	ND		15.9	12.1		ug/Kg		76	40 - 120
alpha-Chlordane	ND		15.9	11.9		ug/Kg		75	40 - 120
beta-BHC	ND		15.9	8.98	p	ug/Kg		57	40 - 120
delta-BHC	ND		15.9	9.85		ug/Kg		62	40 - 120
Dieldrin	ND		15.9	13.1	p	ug/Kg		82	46 - 130
Endosulfan I	ND		15.9	12.1		ug/Kg		76	40 - 120
Endosulfan II	ND		15.9	12.9	p	ug/Kg		81	40 - 120
Endosulfan sulfate	ND		15.9	9.35	p	ug/Kg		59	40 - 120
Endrin	ND		15.9	13.4		ug/Kg		84	32 - 143
Endrin aldehyde	ND		15.9	8.69		ug/Kg		55	40 - 120
Endrin ketone	ND		15.9	10.5		ug/Kg		66	40 - 120
gamma-BHC (Lindane)	ND		15.9	14.5		ug/Kg		91	58 - 120
gamma-Chlordane	ND		15.9	14.9		ug/Kg		94	40 - 120
Heptachlor	ND		15.9	11.2	p	ug/Kg		70	52 - 120
Heptachlor epoxide	ND		15.9	11.1	p	ug/Kg		70	40 - 120
Methoxychlor	ND		15.9	9.53	p	ug/Kg		60	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*21 - 136*
Tetrachloro-m-xylene	*60*	*p*	*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 259608

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	16.7	20.4	F1 F2	ug/Kg		122	40 - 120	21	20
4,4'-DDE	ND		16.7	12.5		ug/Kg		75	40 - 120	9	20
4,4'-DDT	ND		16.7	6.88	p	ug/Kg		41	17 - 144	17	20
Aldrin	ND		16.7	9.62		ug/Kg		58	53 - 120	13	20
alpha-BHC	ND		16.7	10.8		ug/Kg		65	40 - 120	11	20
alpha-Chlordane	ND		16.7	11.0		ug/Kg		66	40 - 120	8	20
beta-BHC	ND		16.7	7.66	p	ug/Kg		46	40 - 120	16	20
delta-BHC	ND		16.7	8.93		ug/Kg		54	40 - 120	10	20
Dieldrin	ND		16.7	12.5	p	ug/Kg		75	46 - 130	4	20
Endosulfan I	ND		16.7	11.3		ug/Kg		68	40 - 120	7	20
Endosulfan II	ND		16.7	13.6		ug/Kg		82	40 - 120	5	30
Endosulfan sulfate	ND		16.7	9.06	p	ug/Kg		54	40 - 120	3	20
Endrin	ND		16.7	13.0		ug/Kg		78	32 - 143	3	20
Endrin aldehyde	ND		16.7	8.98	p	ug/Kg		54	40 - 120	3	20
Endrin ketone	ND		16.7	9.84		ug/Kg		59	40 - 120	6	20
gamma-BHC (Lindane)	ND	F2	16.7	12.6		ug/Kg		76	58 - 120	15	20
gamma-Chlordane	ND		16.7	12.3		ug/Kg		74	40 - 120	19	20
Heptachlor	ND		16.7	9.63		ug/Kg		58	52 - 120	15	20
Heptachlor epoxide	ND		16.7	10.2		ug/Kg		61	40 - 120	8	20
Methoxychlor	ND		16.7	10.4	p	ug/Kg		62	40 - 120	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*21 - 136*
Tetrachloro-m-xylene	*66*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-524723/1-A
Matrix: Solid
Analysis Batch: 524938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1221	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1232	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1242	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1248	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1254	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1
Aroclor 1260	ND		50	17	ug/Kg		01/24/19 13:46	01/25/19 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*45 - 120*	*01/24/19 13:46*	*01/25/19 12:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-524723/2-A
Matrix: Solid
Analysis Batch: 524938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	224		ug/Kg		84	65 - 115
Aroclor 1260	267	231		ug/Kg		87	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*97*		*45 - 120*

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 524938

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 524723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		264	161		ug/Kg		61	50 - 120
Aroclor 1260	22	J	264	173		ug/Kg		57	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 524938

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 524723

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		261	168		ug/Kg		64	50 - 120	4	30
Aroclor 1260	22	J	261	171		ug/Kg		57	50 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259167/1-A
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Arsenic	ND		1.0	0.085	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Barium	0.165	J	0.50	0.071	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Beryllium	ND		0.10	0.033	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Cadmium	ND		0.13	0.012	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Chromium	ND		0.50	0.053	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Cobalt	ND		0.20	0.020	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Copper	ND		1.5	0.71	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Lead	0.247	J	0.50	0.11	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Nickel	ND		0.50	0.051	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Selenium	ND		1.0	0.15	mg/Kg		01/26/19 11:54	01/31/19 14:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259167/1-A
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.25	0.051	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Thallium	ND		0.50	0.15	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Vanadium	ND		0.50	0.068	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Zinc	ND		1.5	0.64	mg/Kg		01/26/19 11:54	01/31/19 14:23	1

Lab Sample ID: LCS 720-259167/2-A
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.4		mg/Kg		97	80 - 120
Arsenic	50.0	48.2		mg/Kg		96	80 - 120
Barium	50.0	45.6		mg/Kg		91	80 - 120
Beryllium	50.0	45.5		mg/Kg		91	80 - 120
Cadmium	50.0	50.6		mg/Kg		101	80 - 120
Chromium	50.0	49.6		mg/Kg		99	80 - 120
Cobalt	50.0	51.3		mg/Kg		103	80 - 120
Copper	50.0	49.1		mg/Kg		98	80 - 120
Lead	50.0	52.4		mg/Kg		105	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	52.3		mg/Kg		105	80 - 120
Selenium	50.0	49.4		mg/Kg		99	80 - 120
Silver	25.0	24.4		mg/Kg		98	80 - 120
Thallium	50.0	51.9		mg/Kg		104	80 - 120
Vanadium	50.0	49.4		mg/Kg		99	80 - 120
Zinc	50.0	51.2		mg/Kg		102	80 - 120

Lab Sample ID: 720-90960-A-12-D MS
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.2	F1	31.1	9.22	F1	mg/Kg		26	75 - 125
Arsenic	11		31.1	36.2		mg/Kg		82	75 - 125
Barium	130	B F2	31.1	130	4	mg/Kg		2	75 - 125
Beryllium	0.35		31.1	28.6		mg/Kg		91	75 - 125
Cadmium	0.46		31.1	30.0		mg/Kg		95	75 - 125
Chromium	48		31.1	77.5		mg/Kg		94	75 - 125
Cobalt	13		31.1	42.9		mg/Kg		96	75 - 125
Copper	25		31.1	53.9		mg/Kg		95	75 - 125
Lead	49	B ^ F1 F2	31.1	70.0	F1	mg/Kg		68	75 - 125
Molybdenum	0.23	J	31.1	25.0		mg/Kg		80	75 - 125
Nickel	30		31.1	59.7		mg/Kg		94	75 - 125
Selenium	0.84	J	31.1	27.6		mg/Kg		86	75 - 125
Silver	ND		15.5	15.5		mg/Kg		100	75 - 125
Thallium	0.46	J	31.1	29.9		mg/Kg		95	75 - 125
Vanadium	49		31.1	80.5		mg/Kg		100	75 - 125
Zinc	76	F1	31.1	96.6	F1	mg/Kg		65	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90960-A-12-E MSD
Matrix: Solid
Analysis Batch: 259583

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259167

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.2	F1	31.1	9.80	F1	mg/Kg		28	75 - 125	6	20
Arsenic	11		31.1	38.8		mg/Kg		90	75 - 125	7	20
Barium	130	B F2	31.1	229	4 F2	mg/Kg		319	75 - 125	55	20
Beryllium	0.35		31.1	29.7		mg/Kg		94	75 - 125	4	20
Cadmium	0.46		31.1	30.6		mg/Kg		97	75 - 125	2	20
Chromium	48		31.1	82.0		mg/Kg		108	75 - 125	6	20
Cobalt	13		31.1	42.1		mg/Kg		94	75 - 125	2	20
Copper	25		31.1	56.8		mg/Kg		104	75 - 125	5	20
Lead	49	B ^ F1 F2	31.1	103	F1 F2	mg/Kg		175	75 - 125	38	20
Molybdenum	0.23	J	31.1	25.7		mg/Kg		82	75 - 125	3	20
Nickel	30		31.1	60.0		mg/Kg		95	75 - 125	0	20
Selenium	0.84	J	31.1	28.6		mg/Kg		89	75 - 125	3	20
Silver	ND		15.5	15.4		mg/Kg		99	75 - 125	1	20
Thallium	0.46	J	31.1	30.6		mg/Kg		97	75 - 125	2	20
Vanadium	49		31.1	79.9		mg/Kg		98	75 - 125	1	20
Zinc	76	F1	31.1	110		mg/Kg		110	75 - 125	13	20

Lab Sample ID: MB 720-259216/1-A
Matrix: Solid
Analysis Batch: 259533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Arsenic	ND		1.0	0.085	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Barium	ND		0.50	0.071	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Beryllium	ND		0.10	0.033	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Cadmium	ND		0.13	0.012	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Chromium	ND		0.50	0.053	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Cobalt	ND		0.20	0.020	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Copper	ND		1.5	0.71	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Lead	ND		0.50	0.11	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Nickel	0.168	J	0.50	0.051	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Selenium	ND		1.0	0.15	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Silver	ND		0.25	0.051	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Thallium	ND		0.50	0.15	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Vanadium	ND		0.50	0.068	mg/Kg		01/25/19 08:59	01/30/19 20:29	1
Zinc	ND		1.5	0.64	mg/Kg		01/25/19 08:59	01/30/19 20:29	1

Lab Sample ID: LCS 720-259216/2-A
Matrix: Solid
Analysis Batch: 259533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	53.5		mg/Kg		107	80 - 120
Arsenic	50.0	53.5		mg/Kg		107	80 - 120
Barium	50.0	51.7		mg/Kg		103	80 - 120
Beryllium	50.0	51.7		mg/Kg		103	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259216/2-A
Matrix: Solid
Analysis Batch: 259533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	54.1		mg/Kg		108	80 - 120
Chromium	50.0	54.8		mg/Kg		110	80 - 120
Cobalt	50.0	54.8		mg/Kg		110	80 - 120
Copper	50.0	54.5		mg/Kg		109	80 - 120
Lead	50.0	54.9		mg/Kg		110	80 - 120
Molybdenum	50.0	54.4		mg/Kg		109	80 - 120
Nickel	50.0	54.7		mg/Kg		109	80 - 120
Selenium	50.0	52.6		mg/Kg		105	80 - 120
Silver	25.0	25.9		mg/Kg		104	80 - 120
Thallium	50.0	54.2		mg/Kg		108	80 - 120
Vanadium	50.0	54.4		mg/Kg		109	80 - 120
Zinc	50.0	53.9		mg/Kg		108	80 - 120

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 259533

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259216

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	6.1	F1	29.6	13.7	F1	mg/Kg		26	75 - 125
Arsenic	6.6		29.6	36.9		mg/Kg		102	75 - 125
Barium	230		29.6	213	4	mg/Kg		-65	75 - 125
Beryllium	ND		29.6	30.8		mg/Kg		104	75 - 125
Cadmium	2.3		29.6	31.7		mg/Kg		99	75 - 125
Chromium	35		29.6	68.2		mg/Kg		114	75 - 125
Cobalt	10		29.6	39.7		mg/Kg		100	75 - 125
Copper	240	F2	29.6	231	4	mg/Kg		-19	75 - 125
Lead	950	F2	29.6	737	4	mg/Kg		-726	75 - 125
Molybdenum	1.2	J	29.6	31.1		mg/Kg		101	75 - 125
Nickel	34	B	29.6	64.0		mg/Kg		102	75 - 125
Selenium	1.8	J	29.6	30.3		mg/Kg		96	75 - 125
Silver	1.4	J	14.8	15.6		mg/Kg		96	75 - 125
Thallium	ND		29.6	30.2		mg/Kg		102	75 - 125
Vanadium	65		29.6	93.0		mg/Kg		93	75 - 125
Zinc	530		29.6	512	4	mg/Kg		-52	75 - 125

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 259533

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259216

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	6.1	F1	29.8	15.6	F1	mg/Kg		32	75 - 125	13	20
Arsenic	6.6		29.8	38.7		mg/Kg		108	75 - 125	5	20
Barium	230		29.8	224	4	mg/Kg		-27	75 - 125	5	20
Beryllium	ND		29.8	30.2		mg/Kg		102	75 - 125	2	20
Cadmium	2.3		29.8	31.5		mg/Kg		98	75 - 125	0	20
Chromium	35		29.8	64.2		mg/Kg		100	75 - 125	6	20
Cobalt	10		29.8	40.4		mg/Kg		101	75 - 125	2	20
Copper	240	F2	29.8	437	4 F2	mg/Kg		671	75 - 125	62	20
Lead	950	F2	29.8	993	4 F2	mg/Kg		139	75 - 125	30	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 259533

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259216

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	1.2	J	29.8	31.2		mg/Kg		101	75 - 125	0	20
Nickel	34	B	29.8	64.6		mg/Kg		104	75 - 125	1	20
Selenium	1.8	J	29.8	31.5		mg/Kg		100	75 - 125	4	20
Silver	1.4	J	14.9	17.1		mg/Kg		106	75 - 125	9	20
Thallium	ND		29.8	29.2		mg/Kg		98	75 - 125	3	20
Vanadium	65		29.8	96.0		mg/Kg		103	75 - 125	3	20
Zinc	530		29.8	581	4	mg/Kg		181	75 - 125	13	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259166/1-A
Matrix: Solid
Analysis Batch: 259511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259166

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0123	J	0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 15:26	1

Lab Sample ID: LCS 720-259166/2-A
Matrix: Solid
Analysis Batch: 259511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.762		mg/Kg		91	80 - 120

Lab Sample ID: 720-90960-A-12-A MS
Matrix: Solid
Analysis Batch: 259511

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.19	B	0.794	0.834		mg/Kg		81	75 - 125

Lab Sample ID: 720-90960-A-12-B MSD
Matrix: Solid
Analysis Batch: 259511

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19	B	0.806	0.848		mg/Kg		82	75 - 125	2	20

Lab Sample ID: MB 720-259217/1-A
Matrix: Solid
Analysis Batch: 259489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/30/19 09:46	01/30/19 11:27	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-259217/2-A
Matrix: Solid
Analysis Batch: 259489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.775		mg/Kg		93	80 - 120

Lab Sample ID: 720-90961-11 MS
Matrix: Solid
Analysis Batch: 259489

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.33		0.769	1.20		mg/Kg		112	75 - 125

Lab Sample ID: 720-90961-11 MSD
Matrix: Solid
Analysis Batch: 259489

Client Sample ID: DG-X13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.33		0.746	1.06		mg/Kg		98	75 - 125	12	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90961-1 DU
Matrix: Solid
Analysis Batch: 259068

Client Sample ID: DG-AK11S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.8		8.2		%		8	20

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Prep Batch: 524446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-D-7-E MS	Matrix Spike	Total/NA	Solid	5035	
720-90948-D-7-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 525143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	8260B	525161
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	8260B	525161
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	8260B	525161
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	8260B	525161
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	8260B	525161
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	8260B	525161
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	8260B	525161
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	8260B	525161
MB 440-525143/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-525143/16	Lab Control Sample	Total/NA	Solid	8260B	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	8260B	525161
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	8260B	525161

Analysis Batch: 525144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525161
MB 440-525144/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525144/17	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525161
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525161

Analysis Batch: 525147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	8260B	525159
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	8260B	525159
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	8260B	525159
MB 440-525147/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-525147/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-525147/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
720-90948-D-7-E MS	Matrix Spike	Total/NA	Solid	8260B	524446

GC/MS VOA (Continued)

Analysis Batch: 525147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-D-7-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	524446

Analysis Batch: 525148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525159
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525159
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	8260B/CA_LUFT MS	525159
MB 440-525148/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525148/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-525148/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
720-90948-D-7-E MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	524446
720-90948-D-7-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	524446

Prep Batch: 525159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	5035	
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	5035	
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	5035	

Prep Batch: 525161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	5035	
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	5035	
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	5035	
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	5035	
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	5035	
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	5035	
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	5035	
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	5035	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	5035	
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 525479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-12	DUP-77	Total/NA	Solid	8260B	525534
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	8260B	525534
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	8260B	525534
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	8260B	525534
720-90961-16	DUP-110	Total/NA	Solid	8260B	525534
MB 440-525479/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-525479/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-525479/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

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Analysis Batch: 525480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-12	DUP-77	Total/NA	Solid	8260B/CA_LUFT MS	525534
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525534
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525534
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525534
720-90961-16	DUP-110	Total/NA	Solid	8260B/CA_LUFT MS	525534
MB 440-525480/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525480/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-525480/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 525534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-12	DUP-77	Total/NA	Solid	5035	
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	5035	
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	5035	
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	5035	
720-90961-16	DUP-110	Total/NA	Solid	5035	

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Prep Batch: 259467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	3546	
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	3546	
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	3546	
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	3546	
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	3546	
MB 720-259467/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259467/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 259565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	3546	
MB 720-259565/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259565/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-E-19-J MS	Matrix Spike	Total/NA	Solid	3546	
720-91048-E-19-K MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 259713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	8270C SIM	259467
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	8270C SIM	259467

GC/MS Semi VOA (Continued)

Analysis Batch: 259713 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259467/1-A	Method Blank	Total/NA	Solid	8270C SIM	259467
MB 720-259565/1-A	Method Blank	Total/NA	Solid	8270C SIM	259565
LCS 720-259467/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259467
LCS 720-259565/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259565

Analysis Batch: 259739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	8270C SIM	259467
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	8270C SIM	259467
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	8270C SIM	259467
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	8270C SIM	259467
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	8270C SIM	259467
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	8270C SIM	259467

Prep Batch: 259774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	3546	
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	3546	
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	3546	
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	3546	
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	3546	
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-12	DUP-77	Total/NA	Solid	3546	
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	3546	
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	3546	
720-90961-16	DUP-110	Total/NA	Solid	3546	
MB 720-259774/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259774/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 259797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	8270C SIM	259774
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	8270C SIM	259774
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	8270C SIM	259565
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	8270C SIM	259774
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	8270C SIM	259774
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	8270C SIM	259774
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	8270C SIM	259774
720-90961-12	DUP-77	Total/NA	Solid	8270C SIM	259774
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	8270C SIM	259774
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	8270C SIM	259774
720-90961-16	DUP-110	Total/NA	Solid	8270C SIM	259774
MB 720-259774/1-A	Method Blank	Total/NA	Solid	8270C SIM	259774
LCS 720-259774/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259774
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	8270C SIM	259774
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	8270C SIM	259774
720-91048-E-19-J MS	Matrix Spike	Total/NA	Solid	8270C SIM	259565
720-91048-E-19-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	259565

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Prep Batch: 259253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	3546	
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	3546	
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	3546	
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	3546	
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	3546	
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	3546	
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	3546	
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	3546	
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	3546	
720-90948-D-7-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
720-90948-E-7-J MS	Matrix Spike	Total/NA	Solid	3546	

Prep Batch: 259255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	3546	
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-12	DUP-77	Total/NA	Solid	3546	
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	3546	
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	3546	
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	3546	
720-90961-16	DUP-110	Total/NA	Solid	3546	
MB 720-259255/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259255/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 259352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	3546	
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	3546	
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	3546	
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	3546	
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	3546	
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	3546	
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	3546	
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	3546	
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	3546	
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	3546	
720-90961-12	DUP-77	Total/NA	Solid	3546	
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	3546	
MB 720-259352/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259352/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90948-D-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
720-90948-E-7-L MS	Matrix Spike	Total/NA	Solid	3546	

Analysis Batch: 259371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90948-D-7-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	259253
720-90948-E-7-J MS	Matrix Spike	Total/NA	Solid	8081A	259253

GC Semi VOA (Continued)

Analysis Batch: 259372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259255/1-A	Method Blank	Total/NA	Solid	8081A	259255
LCS 720-259255/2-A	Lab Control Sample	Total/NA	Solid	8081A	259255

Analysis Batch: 259447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259352/1-A	Method Blank	Total/NA	Solid	8015B	259352
LCS 720-259352/2-A	Lab Control Sample	Total/NA	Solid	8015B	259352
720-90948-D-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	259352
720-90948-E-7-L MS	Matrix Spike	Total/NA	Solid	8015B	259352

Prep Batch: 259473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	3546	
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	3546	
720-90961-16	DUP-110	Total/NA	Solid	3546	
MB 720-259473/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259473/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 259528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	8015B	259352

Analysis Batch: 259607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	8081A	259255
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	8081A	259255
720-90961-16	DUP-110	Total/NA	Solid	8081A	259255

Analysis Batch: 259608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	8081A	259255
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	8081A	259255
720-90961-12	DUP-77	Total/NA	Solid	8081A	259255
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	8081A	259255
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	8081A	259255
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	8081A	259255

Analysis Batch: 259620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	8015B	259473
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	8015B	259473
720-90961-16	DUP-110	Total/NA	Solid	8015B	259473
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	8015B	259473
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	8015B	259473

Analysis Batch: 259724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	8015B	259352

GC Semi VOA (Continued)

Analysis Batch: 259724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	8015B	259352
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	8015B	259352
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	8015B	259352
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	8015B	259352
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	8015B	259352
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	8015B	259352
MB 720-259473/1-A	Method Blank	Total/NA	Solid	8015B	259473
LCS 720-259473/2-A	Lab Control Sample	Total/NA	Solid	8015B	259473

Analysis Batch: 259778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	8081A	259253
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	8081A	259253
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	8081A	259253
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	8081A	259253
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	8081A	259253
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	8081A	259253
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	8081A	259253
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	8081A	259253
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	8081A	259253

Analysis Batch: 259793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	8015B	259352
720-90961-12	DUP-77	Total/NA	Solid	8015B	259352
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	8015B	259352
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	8015B	259473

Analysis Batch: 259794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	8015B	259352

Prep Batch: 524723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	3546	
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	3546	
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	3546	
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	3546	
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	3546	
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	3546	
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	3546	
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	3546	
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	3546	
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	3546	
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-12	DUP-77	Total/NA	Solid	3546	
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	3546	
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	3546	
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	3546	
720-90961-16	DUP-110	Total/NA	Solid	3546	
MB 440-524723/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 524723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-524723/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	3546	
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 524938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	8082	524723
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	8082	524723
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	8082	524723
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	8082	524723
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	8082	524723
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	8082	524723
720-90961-12	DUP-77	Total/NA	Solid	8082	524723
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	8082	524723
MB 440-524723/1-A	Method Blank	Total/NA	Solid	8082	524723
LCS 440-524723/2-A	Lab Control Sample	Total/NA	Solid	8082	524723
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	8082	524723
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	8082	524723

Analysis Batch: 525319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	8082	524723
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	8082	524723
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	8082	524723
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	8082	524723
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	8082	524723
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	8082	524723
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	8082	524723
720-90961-16	DUP-110	Total/NA	Solid	8082	524723

Metals

Prep Batch: 259166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	7471A	
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	7471A	
MB 720-259166/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259166/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90960-A-12-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-90960-A-12-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	3050B	
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	3050B	
MB 720-259167/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259167/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90960-A-12-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-90960-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 259216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	3050B	
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	3050B	
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	3050B	
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	3050B	
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	3050B	
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	3050B	
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	3050B	
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	3050B	
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	3050B	
720-90961-12	DUP-77	Total/NA	Solid	3050B	
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	3050B	
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	3050B	
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	3050B	
720-90961-16	DUP-110	Total/NA	Solid	3050B	
MB 720-259216/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259216/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	3050B	
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	7471A	
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	7471A	
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	7471A	
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	7471A	
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	7471A	
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	7471A	
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	7471A	
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	7471A	
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	7471A	
720-90961-12	DUP-77	Total/NA	Solid	7471A	
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	7471A	
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	7471A	
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	7471A	
720-90961-16	DUP-110	Total/NA	Solid	7471A	
MB 720-259217/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259217/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	7471A	
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	7471A	

Analysis Batch: 259489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	7471A	259217
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	7471A	259217
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	7471A	259217
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	7471A	259217
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	7471A	259217
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	7471A	259217
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	7471A	259217
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	7471A	259217
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	7471A	259217

Metals (Continued)

Analysis Batch: 259489 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-12	DUP-77	Total/NA	Solid	7471A	259217
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	7471A	259217
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	7471A	259217
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	7471A	259217
720-90961-16	DUP-110	Total/NA	Solid	7471A	259217
MB 720-259217/1-A	Method Blank	Total/NA	Solid	7471A	259217
LCS 720-259217/2-A	Lab Control Sample	Total/NA	Solid	7471A	259217
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	7471A	259217
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	7471A	259217

Analysis Batch: 259511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	7471A	259166
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	7471A	259166
MB 720-259166/1-A	Method Blank	Total/NA	Solid	7471A	259166
LCS 720-259166/2-A	Lab Control Sample	Total/NA	Solid	7471A	259166
720-90960-A-12-A MS	Matrix Spike	Total/NA	Solid	7471A	259166
720-90960-A-12-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259166

Analysis Batch: 259533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	6010B	259216
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	6010B	259216
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	6010B	259216
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	6010B	259216
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	6010B	259216
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	6010B	259216
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	6010B	259216
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	6010B	259216
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	6010B	259216
720-90961-12	DUP-77	Total/NA	Solid	6010B	259216
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	6010B	259216
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	6010B	259216
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	6010B	259216
720-90961-16	DUP-110	Total/NA	Solid	6010B	259216
MB 720-259216/1-A	Method Blank	Total/NA	Solid	6010B	259216
LCS 720-259216/2-A	Lab Control Sample	Total/NA	Solid	6010B	259216
720-90961-11 MS	DG-X13S-0.5-1	Total/NA	Solid	6010B	259216
720-90961-11 MSD	DG-X13S-0.5-1	Total/NA	Solid	6010B	259216

Analysis Batch: 259535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	6010B	259167
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	6010B	259167

Analysis Batch: 259583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259167/1-A	Method Blank	Total/NA	Solid	6010B	259167
LCS 720-259167/2-A	Lab Control Sample	Total/NA	Solid	6010B	259167
720-90960-A-12-D MS	Matrix Spike	Total/NA	Solid	6010B	259167
720-90960-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259167

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Project/Site: Brisbane OU-2 Data Gap Investigation

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Analysis Batch: 259588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	6010B	259216
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	6010B	259216
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	6010B	259216
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	6010B	259216

General Chemistry

Analysis Batch: 259068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90961-1	DG-AK11S-0.5-1	Total/NA	Solid	Moisture	
720-90961-2	DG-AK11S-3.5-4	Total/NA	Solid	Moisture	
720-90961-3	DG-AM11S-0.5-1	Total/NA	Solid	Moisture	
720-90961-4	DG-AM11S-3.5-4	Total/NA	Solid	Moisture	
720-90961-5	DG-AO11S-0.5-1	Total/NA	Solid	Moisture	
720-90961-6	DG-AO11S-3.5-4	Total/NA	Solid	Moisture	
720-90961-7	DG-AB13S-0.5-1	Total/NA	Solid	Moisture	
720-90961-8	DG-AB13S-3.5-4	Total/NA	Solid	Moisture	
720-90961-9	DG-AB13S-13.5-14	Total/NA	Solid	Moisture	
720-90961-10	DG-AA15S-0.5-1	Total/NA	Solid	Moisture	
720-90961-11	DG-X13S-0.5-1	Total/NA	Solid	Moisture	
720-90961-12	DUP-77	Total/NA	Solid	Moisture	
720-90961-13	DG-X13S-3.5-4	Total/NA	Solid	Moisture	
720-90961-14	DG-R9S-0.5-1	Total/NA	Solid	Moisture	
720-90961-15	DG-R9S-3.5-4	Total/NA	Solid	Moisture	
720-90961-16	DUP-110	Total/NA	Solid	Moisture	
720-90961-1 DU	DG-AK11S-0.5-1	Total/NA	Solid	Moisture	

Client Sample ID: DG-AK11S-0.5-1

Lab Sample ID: 720-90961-1

Date Collected: 01/22/19 08:20

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 18:02	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 18:02	GK	TAL IRV
Total/NA	Prep	3546			259774	02/04/19 19:08	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		40	259797	02/05/19 14:27	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		5	259794	02/05/19 11:51	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259778	02/05/19 10:45	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	524938	01/25/19 13:53	D1D	TAL IRV
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259535	01/30/19 22:11	OBI	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-AK11S-3.5-4

Lab Sample ID: 720-90961-2

Date Collected: 01/22/19 08:20

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525159	01/26/19 12:35	GMA	TAL IRV
Total/NA	Analysis	8260B		100	525147	01/26/19 18:41	GMA	TAL IRV
Total/NA	Prep	5035			525159	01/26/19 12:35	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	525148	01/26/19 18:41	GMA	TAL IRV
Total/NA	Prep	3546			259774	02/04/19 19:08	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		200	259797	02/05/19 14:51	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		100	259724	02/05/19 03:37	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		20	259778	02/05/19 11:01	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	525319	01/28/19 15:34	D1D	TAL IRV
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		10	259535	01/30/19 22:15	OBI	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-AM11S-0.5-1

Lab Sample ID: 720-90961-3

Date Collected: 01/22/19 08:40

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 18:29	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 18:29	GK	TAL IRV
Total/NA	Prep	3546			259467	01/30/19 10:14	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	259713	02/02/19 14:12	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259793	02/05/19 12:20	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259778	02/05/19 11:17	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	524938	01/25/19 14:21	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 21:12	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 11:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-AM11S-3.5-4

Lab Sample ID: 720-90961-4

Date Collected: 01/22/19 08:40

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 18:55	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 18:55	GK	TAL IRV
Total/NA	Prep	3546			259565	01/31/19 12:10	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		100	259797	02/05/19 10:56	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		10	259724	02/05/19 04:06	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		2	259778	02/05/19 11:34	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	525319	01/28/19 13:32	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259533	01/30/19 21:17	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 11:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-AO11S-0.5-1

Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 19:21	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 19:21	GK	TAL IRV
Total/NA	Prep	3546			259467	01/30/19 10:14	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		25	259739	02/04/19 17:45	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		10	259724	02/05/19 04:36	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		2	259778	02/05/19 11:50	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	524938	01/25/19 14:48	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259588	01/31/19 14:43	OBI	TAL PLS
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 21:22	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 11:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-AO11S-3.5-4

Date Collected: 01/22/19 09:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525159	01/26/19 12:35	GMA	TAL IRV
Total/NA	Analysis	8260B		200	525147	01/26/19 19:09	GMA	TAL IRV
Total/NA	Prep	5035			525159	01/26/19 12:35	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		200	525148	01/26/19 19:09	GMA	TAL IRV
Total/NA	Prep	3546			259774	02/04/19 19:08	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		100	259797	02/05/19 15:14	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		50	259724	02/04/19 23:42	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		5	259778	02/05/19 12:07	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	525319	01/28/19 15:07	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259588	01/31/19 14:47	OBI	TAL PLS
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 21:27	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 11:46	MAG	TAL PLS

Client Sample ID: DG-AO11S-3.5-4

Lab Sample ID: 720-90961-6

Date Collected: 01/22/19 09:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-AB13S-0.5-1

Lab Sample ID: 720-90961-7

Date Collected: 01/22/19 11:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 19:48	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 19:48	GK	TAL IRV
Total/NA	Prep	3546			259774	02/04/19 19:08	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		25	259797	02/05/19 15:38	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		10	259724	02/05/19 00:12	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259778	02/05/19 12:23	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	524938	01/25/19 15:15	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259533	01/30/19 21:31	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 11:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-AB13S-3.5-4

Lab Sample ID: 720-90961-8

Date Collected: 01/22/19 11:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 20:14	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 20:14	GK	TAL IRV
Total/NA	Prep	3546			259467	01/30/19 10:14	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	259713	02/02/19 14:35	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259528	02/01/19 02:29	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259778	02/05/19 12:39	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	524938	01/25/19 15:28	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS

Client Sample ID: DG-AB13S-3.5-4

Lab Sample ID: 720-90961-8

Date Collected: 01/22/19 11:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		4	259533	01/30/19 21:36	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 11:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-AB13S-13.5-14

Lab Sample ID: 720-90961-9

Date Collected: 01/22/19 11:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525159	01/26/19 12:35	GMA	TAL IRV
Total/NA	Analysis	8260B		500	525147	01/26/19 19:36	GMA	TAL IRV
Total/NA	Prep	5035			525159	01/26/19 12:35	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		500	525148	01/26/19 19:36	GMA	TAL IRV
Total/NA	Prep	3546			259774	02/04/19 19:08	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		200	259797	02/05/19 16:01	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		100	259724	02/05/19 00:41	JXL	TAL PLS
Total/NA	Prep	3546			259253	01/25/19 13:57	KLM	TAL PLS
Total/NA	Analysis	8081A		20	259778	02/05/19 12:55	JZT	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	525319	01/28/19 14:40	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 21:41	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 11:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-AA15S-0.5-1

Lab Sample ID: 720-90961-10

Date Collected: 01/22/19 13:45

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 20:41	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 20:41	GK	TAL IRV
Total/NA	Prep	3546			259467	01/30/19 10:14	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	259739	02/04/19 19:20	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		20	259724	02/05/19 01:11	JXL	TAL PLS
Total/NA	Prep	3546			259255	01/28/19 14:12	KLM	TAL PLS
Total/NA	Analysis	8081A		2	259608	02/01/19 12:23	MQL	TAL PLS

Client Sample ID: DG-AA15S-0.5-1

Lab Sample ID: 720-90961-10

Date Collected: 01/22/19 13:45

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	525319	01/28/19 13:46	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 21:46	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 12:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-X13S-0.5-1

Lab Sample ID: 720-90961-11

Date Collected: 01/22/19 14:30

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B		1	525143	01/26/19 13:30	GK	TAL IRV
Total/NA	Prep	5035			525161	01/26/19 12:50	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525144	01/26/19 13:30	GK	TAL IRV
Total/NA	Prep	3546			259467	01/30/19 10:14	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	259739	02/04/19 16:35	LPL	TAL PLS
Total/NA	Prep	3546			259774	02/04/19 19:08	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		40	259797	02/05/19 14:04	LPL	TAL PLS
Total/NA	Prep	3546			259473	01/30/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8015B		5	259620	02/01/19 11:24	JXL	TAL PLS
Total/NA	Prep	3546			259255	01/28/19 14:12	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259608	02/01/19 12:05	MQL	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	524938	01/25/19 13:40	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259588	01/31/19 14:38	OBI	TAL PLS
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259533	01/30/19 21:08	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 11:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DUP-77

Lab Sample ID: 720-90961-12

Date Collected: 01/22/19 00:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525479	01/29/19 13:09	AYL	TAL IRV
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV

Client Sample ID: DUP-77

Lab Sample ID: 720-90961-12

Date Collected: 01/22/19 00:00

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	525480	01/29/19 13:09	AYL	TAL IRV
Total/NA	Prep	3546			259774	02/04/19 19:08	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		1	259797	02/05/19 12:53	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259793	02/05/19 12:49	JXL	TAL PLS
Total/NA	Prep	3546			259255	01/28/19 14:12	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259608	02/01/19 13:28	MQL	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	524938	01/25/19 16:09	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 22:00	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 12:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-X13S-3.5-4

Lab Sample ID: 720-90961-13

Date Collected: 01/22/19 14:30

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525479	01/29/19 13:36	AYL	TAL IRV
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525480	01/29/19 13:36	AYL	TAL IRV
Total/NA	Prep	3546			259467	01/30/19 10:14	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		10	259739	02/04/19 19:44	LPL	TAL PLS
Total/NA	Prep	3546			259352	01/28/19 15:35	KLM	TAL PLS
Total/NA	Analysis	8015B		3	259793	02/05/19 11:51	JXL	TAL PLS
Total/NA	Prep	3546			259255	01/28/19 14:12	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259608	02/01/19 13:45	MQL	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:46	EGC	TAL IRV
Total/NA	Analysis	8082		1	525319	01/28/19 13:59	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 22:05	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 12:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-R9S-0.5-1

Lab Sample ID: 720-90961-14

Date Collected: 01/22/19 15:30

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525479	01/29/19 14:04	AYL	TAL IRV
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525480	01/29/19 14:04	AYL	TAL IRV
Total/NA	Prep	3546			259774	02/04/19 19:08	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		25	259797	02/05/19 16:24	LPL	TAL PLS
Total/NA	Prep	3546			259473	01/30/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8015B		5	259620	02/01/19 18:48	JXL	TAL PLS
Total/NA	Prep	3546			259255	01/28/19 14:12	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 09:17	MQL	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:49	EGC	TAL IRV
Total/NA	Analysis	8082		1	525319	01/28/19 14:13	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 22:10	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 12:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Client Sample ID: DG-R9S-3.5-4

Lab Sample ID: 720-90961-15

Date Collected: 01/22/19 15:30

Matrix: Solid

Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525479	01/29/19 14:32	AYL	TAL IRV
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525480	01/29/19 14:32	AYL	TAL IRV
Total/NA	Prep	3546			259774	02/04/19 19:08	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		1	259797	02/05/19 12:30	LPL	TAL PLS
Total/NA	Prep	3546			259473	01/30/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8015B		1	259793	02/05/19 13:18	JXL	TAL PLS
Total/NA	Prep	3546			259255	01/28/19 14:12	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 09:34	MQL	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:49	EGC	TAL IRV
Total/NA	Analysis	8082		1	524938	01/25/19 16:50	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259588	01/31/19 14:52	OBI	TAL PLS
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 22:15	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		10	259489	01/30/19 12:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Client Sample ID: DUP-110

Date Collected: 01/22/19 00:00
Date Received: 01/22/19 18:40

Lab Sample ID: 720-90961-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525479	01/29/19 14:59	AYL	TAL IRV
Total/NA	Prep	5035			525534	01/22/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525480	01/29/19 14:59	AYL	TAL IRV
Total/NA	Prep	3546			259774	02/04/19 19:13	WGR	TAL PLS
Total/NA	Analysis	8270C SIM		10	259797	02/05/19 16:48	LPL	TAL PLS
Total/NA	Prep	3546			259473	01/30/19 10:50	KLM	TAL PLS
Total/NA	Analysis	8015B		10	259620	02/01/19 19:17	JXL	TAL PLS
Total/NA	Prep	3546			259255	01/28/19 14:12	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259607	02/01/19 09:50	MQL	TAL PLS
Total/NA	Prep	3546			524723	01/24/19 13:49	EGC	TAL IRV
Total/NA	Analysis	8082		1	525319	01/28/19 14:27	D1D	TAL IRV
Total/NA	Prep	3050B			259216	01/25/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259533	01/30/19 22:19	OBI	TAL PLS
Total/NA	Prep	7471A			259217	01/30/19 09:46	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259489	01/30/19 12:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259068	01/23/19 15:43	TNL	TAL PLS

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90961-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3546	Solid	Chlordane (n.o.s.)
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90961-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90961-1	DG-AK11S-0.5-1	Solid	01/22/19 08:20	01/22/19 18:40
720-90961-2	DG-AK11S-3.5-4	Solid	01/22/19 08:20	01/22/19 18:40
720-90961-3	DG-AM11S-0.5-1	Solid	01/22/19 08:40	01/22/19 18:40
720-90961-4	DG-AM11S-3.5-4	Solid	01/22/19 08:40	01/22/19 18:40
720-90961-5	DG-AO11S-0.5-1	Solid	01/22/19 09:00	01/22/19 18:40
720-90961-6	DG-AO11S-3.5-4	Solid	01/22/19 09:00	01/22/19 18:40
720-90961-7	DG-AB13S-0.5-1	Solid	01/22/19 11:00	01/22/19 18:40
720-90961-8	DG-AB13S-3.5-4	Solid	01/22/19 11:00	01/22/19 18:40
720-90961-9	DG-AB13S-13.5-14	Solid	01/22/19 11:00	01/22/19 18:40
720-90961-10	DG-AA15S-0.5-1	Solid	01/22/19 13:45	01/22/19 18:40
720-90961-11	DG-X13S-0.5-1	Solid	01/22/19 14:30	01/22/19 18:40
720-90961-12	DUP-77	Solid	01/22/19 00:00	01/22/19 18:40
720-90961-13	DG-X13S-3.5-4	Solid	01/22/19 14:30	01/22/19 18:40
720-90961-14	DG-R9S-0.5-1	Solid	01/22/19 15:30	01/22/19 18:40
720-90961-15	DG-R9S-3.5-4	Solid	01/22/19 15:30	01/22/19 18:40
720-90961-16	DUP-110	Solid	01/22/19 00:00	01/22/19 18:40

eurofins | CEI

Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A91454
Received: 1/24/2019
Reported: 2/05/2019
Analyst: Megan Fisher

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AK11S-0.5-1 (720-90961-1)	A21669	No	None Detected	0.00
DG-AK11S-3.5-4 (720-90961-2)	A21670	No	None Detected	0.00
DG-AM11S-0.5-1 (720-90961-3)	A21671	No	None Detected	0.00
DG-AM11S-3.5-4 (720-90961-4)	A21672	No	None Detected	0.00
DG-AO11S-0.5-1 (720-90961-5)	A21673	No	None Detected	0.00
DG-AO11S-3.5-4 (720-90961-6)	A21674	No	None Detected	0.00
DG-AB13S-0.5-1 (720-90961-7)	A21675	Yes	Chrysotile	<0.25%
DG-AB13S-3.5-4 (720-90961-8)	A21676	No	None Detected	0.00
DG-AB13S-13.5-14 (720-90961-9)	A21677	No	None Detected	0.00
DG-AA15S-0.5-1 (720-90961-10)	A21678	Yes	Chrysotile	0.25%
DG-X13S-0.5-1 (720-90961-11)	A21679	No	None Detected	0.00
DUP-77 (720-90961-12)	A21680	No	None Detected	0.00
DG-X13S-3.5-4 (720-90961-13)	A21681	No	None Detected	0.00
DG-R9S-0.5-1 (720-90961-14)	A21682	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

eurofins | CEI

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-R9S-3.5-4 (720-90961-15)	A21683	No	None Detected	0.00
DUP-110 (720-90961-16)	A21684	No	None Detected	0.00

REVIEWED BY: _____

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

A191454 (10) A216029 - A216084

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40920.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90961-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/5/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AK11S-0.5-1 (720-90961-1)	1/22/19	08:20 Pacific		Solid			X	1	
DG-AK11S-3.5-4 (720-90961-2)	1/22/19	08:20 Pacific		Solid			X	1	
DG-AM11S-0.5-1 (720-90961-3)	1/22/19	08:40 Pacific		Solid			X	1	
DG-AM11S-3.5-4 (720-90961-4)	1/22/19	08:40 Pacific		Solid			X	1	
DG-AO11S-0.5-1 (720-90961-5)	1/22/19	09:00 Pacific		Solid			X	1	
DG-AO11S-3.5-4 (720-90961-6)	1/22/19	09:00 Pacific		Solid			X	1	
DG-AB13S-0.5-1 (720-90961-7)	1/22/19	11:00 Pacific		Solid			X	1	EUROFINS CEI, INC SAMPLES ACCEPTED
DG-AB13S-3.5-4 (720-90961-8)	1/22/19	11:00 Pacific		Solid			X	1	
DG-AB13S-13.5-14 (720-90961-9)	1/22/19	11:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 1/23/19 1258	Company TAPLS	Received by:	Date/Time: 1/24 9:40	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

IA91454

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40920.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90961-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/5/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AA15S-0.5-1 (720-90961-10)	1/22/19	13:45 Pacific		Solid			X	1	
DG-X13S-0.5-1 (720-90961-11)	1/22/19	14:30 Pacific		Solid			X	1	
DUP-77 (720-90961-12)	1/22/19	Pacific		Solid			X	1	
DG-X13S-3.5-4 (720-90961-13)	1/22/19	14:30 Pacific		Solid			X	1	
DG-R9S-0.5-1 (720-90961-14)	1/22/19	15:30 Pacific		Solid			X	1	
DG-R9S-3.5-4 (720-90961-15)	1/22/19	15:30 Pacific		Solid			X	1	
DUP-110 (720-90961-16)	1/22/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/23/19 1258	TAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

720-90961 Chain of Custody Record

1/22/19 1 of 2

188046

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/22/2019	COC No. 188046
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			720-90961 Chain of Custody
bchen@geosyntec com, mkahnlas@geosyntec.com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
DG-AK11s-0.5-1	1/22/19	0820	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AK11s-3.5-4	↓	0820	↓	↓	7	↓	N	X	X	X	X	X	X	X	
DG-AM11s-0.5-1	↓	0840	↓	↓	7	N	N	X	X	X	X	X	X	X	
DG-AM11s-3.5-4	↓	0840	↓	↓	7	N	N	X	X	X	X	X	X	X	
DG-AO11s-0.5-1	↓	0900	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AO11s-3.5-4	↓	0900	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AB13s-0.5-1	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AB13s-3.5-4	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AB13s-13.5-14	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AA15s-0.5-1	↓	1345	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-X13s-0.5-1	↓	1430	↓	↓	10	↓	Y	↓	↓	↓	↓	↓	↓	↓	
DUP-77	↓	—	↓	↓	7	↓	N	↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C): Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company Geosyntec	Date/Time 1/22/19 1630	Received by	Company TA-PLS	Date/Time 1/22/19 1630
Relinquished by	Company TA-PLS	Date/Time 1/22/19 1840	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/22/19 1840

2-2|1-3|1.8|3.8C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/16/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-90961

Chain of Custody Record

Lab 1/22/19 2 of 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188046 **TestAmerica Laboratories, Inc.**

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: Jan 22 2019	COC No. 188046
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

1/22/19

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
DG-X13S-3.5-4	1/22/19	1430	G	S	7	N		X	X	X	X	X	X	X	
~~DG-X13S-(10)~~															
DG-R9S 0.5-1		1530			7										
DG-R9S 3.5-4		1530			7										
DUP-110		—			7										

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C). Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company GEOSYNTEC	Date/Time 1/22/2019 1630	Received by	Company TA PLS	Date/Time 1/22/19 1631
Relinquished by	Company TA PLS	Date/Time 1/22/19 1840	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/22/19 1840

3.2/1.7/4.8/9.8 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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2/16/2019

TUES. 1/22/19
GEOSYNTEC Term Cores
720-90961

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC02

FedEx Express Package(s) - Dropped Off
478645742565

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 22, 2019 4:44:46 PM

Ref:	Date: 22Jan19	SHIPPING:	0.00
Dep:	Wgt: 40.00 LBS	SPECIAL:	0.00
		HANDLING:	0.00
	DV: 100.00	TOTAL:	0.00

Svcs: PRIORITY OVERNIGHT

TRCK: 4786 4574 2565

720-90961-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478604574256 5	COC No: 720-40921.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90961-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LUFTMS/8015A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LUFTMS/8015A_F_FW_7 8260-(MOD) VOCs + GRO	Special Instructions/Note:
DG-AK11S-0.5-1 (720-90961-1)	1/22/19	08:20 Pacific		Solid	X	X	
DG-AK11S-3.5-4 (720-90961-2)	1/22/19	08:20 Pacific		Solid	X	X	
DG-AM11S-0.5-1 (720-90961-3)	1/22/19	08:40 Pacific		Solid	X	X	
DG-AM11S-3.5-4 (720-90961-4)	1/22/19	08:40 Pacific		Solid	X	X	
DG-AO11S-0.5-1 (720-90961-5)	1/22/19	09:00 Pacific		Solid	X	X	
DG-AO11S-3.5-4 (720-90961-6)	1/22/19	09:00 Pacific		Solid	X	X	
DG-AB13S-0.5-1 (720-90961-7)	1/22/19	11:00 Pacific		Solid	X	X	
DG-AB13S-3.5-4 (720-90961-8)	1/22/19	11:00 Pacific		Solid	X	X	
DG-AB13S-13.5-14 (720-90961-9)	1/22/19	11:00 Pacific		Solid	X	X	

720-90961 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment: FED-EX 2nd

Relinquished by:	Date/Time: 1/22/19 16:44	Company TA PLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/23/19 1000	Company TA IRV

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

~~Encores or Terracores Frozen~~
Date: 1/23/19 Time: 1045 Initials: MG

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40921.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90961-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Groundwater, Drinking Water, Air, Other, Solid)	8015B(M) Standard 8260-PWS-Hot	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AA15S-0.5-1 (720-90961-10)	1/22/19	13:45 Pacific		Solid	X	X	X	4
DG-X13S-0.5-1 (720-90961-11)	1/22/19	14:30 Pacific		Solid	X	X	X	3
DG-X13S-0.5-1 (720-90961-11MS)	1/22/19	14:30 Pacific	MS	Solid	X	X	X	3
DG-X13S-0.5-1 (720-90961-11MSD)	1/22/19	14:30 Pacific	MSD	Solid	X	X	X	2
DUP-77 (720-90961-12)	1/22/19	Pacific		Solid	X	X	X	4
DG-X13S-3.5-4 (720-90961-13)	1/22/19	14:30 Pacific		Solid	X	X	X	
DG-R9S-0.5-1 (720-90961-14)	1/22/19	15:30 Pacific		Solid	X	X	X	
DG-R9S-3.5-4 (720-90961-15)	1/22/19	15:30 Pacific		Solid	X	X	X	
DUP-110 (720-90961-16)	1/22/19	Pacific		Solid	X	X	X	

1/22/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

1/22/19

Possible Hazard Identification *Unconfirmed*	**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O

Relinquished by:	Date/Time: 1/22/19 16:44	Company TA-PLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/23/19 1000	Company TA IRV

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90961

Chain of Custody Record

Jan 1/22/19 2 of 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188046

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: Jan 22 2019	COC No: 188046
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkalvitas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

1/22/19

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-X13s-3.5-4	1/22/19	1430	G	S	7	N		X	X	X	X	X	X	X	
~~DG-X13s-(CB)~~															
2 DG-R9s-0.5-1		1530			7										
3 DG-R9s-3.5-4		1530			7										
4 DUP-110		—			7										

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____
Relinquished by:	Company: Geosyntec	Date/Time: 1/22/2019 1630	Received by:	Company: TA PLS	Date/Time: 1/22/19 1631
Relinquished by:	Company: TAPLS	Date/Time: 1/22/19 1840	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/22/19 1840

2.2/1.7/-8/3.8 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90961 Chain of Custody Record

1/22/19 1 of 2 B80446

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/22/2019	COC No: 18B0446
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			720-90961 Chain of Custody
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
DG-AK11s-0.5-1	1/22/19	0820	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AK11s-3.5-4	↓	0820	↓	↓	7	↓	N	X	X	X	X	X	X	X	
DG-AM11s-0.5-1	↓	0840	↓	↓	7	N	N	X	X	X	X	X	X	X	
DG-AM11s-3.5-4	↓	0840	↓	↓	7	N	N	X	X	X	X	X	X	X	
DG-AO11s-0.5-1	↓	0900	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AO11s-3.5-4	↓	0900	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AB13s-0.5-1	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AB13s-3.5-4	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AB13s-13.5-14	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AA15s-0.5-1	↓	1345	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-X13s-0.5-1	↓	1430	↓	↓	10	↓	Y	↓	↓	↓	↓	↓	↓	↓	
DUP-77	↓	—	↓	↓	7	↓	N	↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? *Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.*
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1/22/19 1650	Received by:	Company: TA-PLS	Date/Time: 1/22/19 1630
Relinquished by:	Company: TA-PLS	Date/Time: 1/22/19 1840	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/22/19 1840

2-2|1.3|1.8|3.8C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90961-1

Login Number: 90961
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90961-1

Login Number: 90961
List Number: 2
Creator: Jatib, Savana

List Source: TestAmerica Irvine
List Creation: 01/23/19 01:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Friday, January 25, 2019 10:07 AM
To: Patel, Urvashi; Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith
Subject: RE: PLEASE READ-missing TB

-External Email-

Hi Urvashi,

Thanks for the reminder, yes please add it to job 720-90959.

Thank you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

From: Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Sent: Friday, January 25, 2019 10:05 AM
To: Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>
Subject: RE: PLEASE READ-missing TB

Hi Miranda
Should we add this TB to job 720-90959?

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

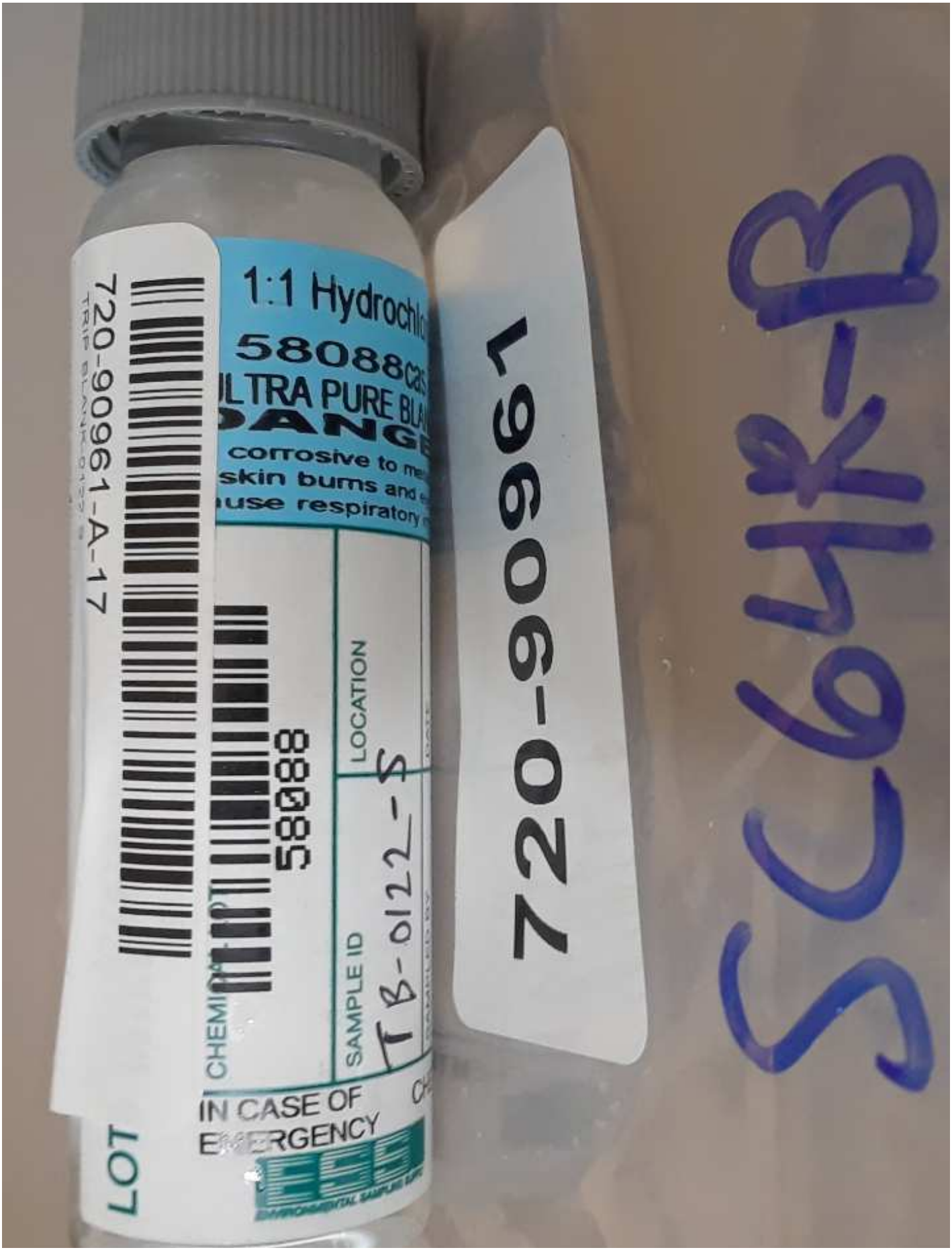
17461 Derian Ave, Suite #100

Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Patel, Urvashi
Sent: Thursday, January 24, 2019 1:44 PM
To: Bondoc, Christian M.; Bill Chen; Mr. Krys Jesionek; Miranda Kahrilas; Mr. Tony Smith
Subject: RE: PLEASE READ-missing TB

Miranda
The TB that was missing from job 90959 may have been submitted under 90961. Irvine received a TB that was not listed on the COC for 720-90961 (see below). How would you like us to proceed? Login under 90961 or 90959?


720-90961-A-17
TRIP BLANK 0122
1:1 Hydrochlo
58088
ULTRA PURE BLA
DANGE
corrosive to me
skin burns and
use respiratory
LOCATION
SAMPLE ID
TB-0122-S
IN CASE OF
EMERGENCY
LOT
720-90961
SCGHR-B

Thanks,

Urvashi

URVASHI PATEL
Manager of Project Management

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3269
CELL 949-333-9055

www.testamericainc.com

From: Bondoc, Christian M.
Sent: Wednesday, January 23, 2019 11:25 AM
To: Bill Chen; Mr. Krys Jesionek; Miranda Kahrilas; Mr. Tony Smith; Patel, Urvashi
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90959-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90959-1; Brisbane OU-2 Data Gap Investigation

Sample IDs were adjusted per project specific naming conventions.

Please note that sample TB-0122S was listed on the COC however no sample was received.
We will proceed with all other tests unless otherwise notified.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [497102]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90981-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Jill Kellmann

Authorized for release by:
2/14/2019 5:09:08 PM
Jill Kellmann, Manager of Project Management
(916)374-4402
jill.kellmann@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
E	Result exceeded calibration range.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90981-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90981-1

Comments
No additional comments.

Receipt
The samples were received on 1/23/2019 6:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.0º C, 3.4º C and 4.9º C.

Receipt Exceptions
Insufficient sample volume was provided for the following sample for 8270-SIM PAH analysis: TB-1232019. One HCL preserved VOA vial was received. Miranda Kahrilas of Geosyntec confirmed the sample did not require method 8270-SIM PAH and the sample was logged in for use as Trip Blank for 8260B VOCs plus Gas Range Organics (GRO).

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-525787 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-525790 recovered above the upper control limit for 1,1-Dichloroethene and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B/CA_LUFTMS: The method blank for analytical batch 440-525180 contained Gasoline Range Organics (GRO) C4-C12 above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260B/CA_LUFTMS: The method blank for analytical batch 440-525788 contained Gasoline Range Organics (GRO) C4-C12 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B/CA_LUFTMS: Re-analysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. DG-AW11S-3.5-4 (720-90981-20). The original analytical run was analyzed within the holding time.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 440-525179 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-526116 and analytical batch 440-526002 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526116 and analytical batch 440-526002 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: Re-analysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis: DG-AW11S-3.5-4 (720-90981-20). The original analytical run was analyzed within the holding time.

Method 8260B: Due to instrument saturation of Dichlorodifluoromethane, the mid point of the calibration (CCV) is set at 10ppb instead of the normal 25ppb. The LCS was spiked at 25ppb instead of 10ppb per standard procedures. As a result, the following LCS's are flagged with an E qualifier for this compound. Only samples with non detect results for Dichlorodifluoromethane are reported from these batches. LCS 440-525790/5 and LCS 440-525787/5

Job ID: 720-90981-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C SIM: The following samples required a dilution due to the nature of the sample matrix: DG-AR13S-0.5-1 (720-90981-1), DG-AK15S-3.5-4 (720-90981-8), DG-AX9S-3.5-4 (720-90981-14), DG-AW11S-3.5-4 (720-90981-20), DG-AW11S-7.5-8 (720-90981-21), (720-90981-F-21-D MS) and (720-90981-F-21-E MSD). Because of this dilution, the surrogate spike concentration in the sample may have been reduced to a level where the recovery calculation does not provide useful information. Elevated reporting limits (RLs) are provided..

Method 8270C SIM: The parent sample associated with the batch MS/MSD in preparation batch 440-526313 was diluted due to the nature of the sample matrix. As a result the batch MS/MSD associated with this sample could not be reported.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-526317 and analytical batch 440-526662 were outside control limits. Due to dilutions in the parent sample, the batch MS/MSD associated with this sample and batch could not be reported.

Method 8270C SIM: Surrogate recovery for the following samples were outside control limits: DG-AU11S-0.5-1 (720-90981-16) and DG-AU11S-3.5-4 (720-90981-17). Evidence of interference matrix (dark black extracts) is present; therefore, re-extraction and/or re-analysis was not performed. Terphenyl-d14

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The following DRO samples required a dilution due to the nature of the sample matrix: DG-AW11S-7.5-8 (720-90981-21), (720-90981-F-21-A MS) and (720-90981-F-21-B MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The DRO method blank for preparation batch 440-525032 and analytical batch 440-525504 contained C10-C28 and C24-C36 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The DRO matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 440-525025 and analytical batch 440-524947 was outside control limits. Sample non-homogeneity is suspected.

Method 8081A: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AU11S-3.5-4 (720-90981-17), DG-AW11S-0.5-1 (720-90981-19) and DG-AW11S-3.5-4 (720-90981-20), DG-AW11S-7.5-8 (720-90981-21), DG-AT12S-3.5-4 (720-90981-23), DG-AM15S-9.5-10 (720-90981-25), (720-91011-E-8-H), (720-91011-E-8-A MS) and (720-91011-E-8-B MSD).

Method 8081A: Surrogate recovery for the following sample was outside control limits: DG-AM15S-3.5-4 (720-90981-10). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

Method 8081A: Surrogate recovery for Decachlorobiphenyl (DCB) for the following samples was outside acceptance limits (biased high) on the primary column due to matrix interference: : DG-AP13S-0.5-1 (720-90981-4), DUP-96 (720-90981-12), and DG-AU11S-3.5-4 (720-90981-17). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8081A: The chromatograms for the following samples have peaks within the retention time window for 4,4-DDT; however, the peaks had shifted on the confirmation column from the reference retention time. Because peaks were present on both the primary and confirmation columns, the detections were reported.

DG-AU11S-3.5-4 (720-90981-17), DG-AW11S-0.5-1 (720-90981-19) and DG-AW11S-3.5-4 (720-90981-20)

Method 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AU11S-3.5-4 (720-90981-17), DG-AW11S-0.5-1 (720-90981-19), DG-AW11S-3.5-4 (720-90981-20), DG-AW11S-7.5-8 (720-90981-21), DG-AT12S-3.5-4 (720-90981-23), DG-AM15S-9.5-10 (720-90981-25), (720-91011-E-8-H), (720-91011-E-8-F MS) and (720-91011-E-8-G MSD).

Job ID: 720-90981-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 8082: Surrogate recovery for the following samples was outside control limits: DG-AM15S-3.5-4 (720-90981-10) and DG-AU11S-3.5-4 (720-90981-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: The following samples contained more than one Aroclor with insufficient separation, and therefore could be biased high due to shared peaks: DG-AU11S-3.5-4 (720-90981-17) and (720-91011-E-8-H).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The continuing calibration blank (CCB) for analytical batch 440-526660 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for this compound has been qualified with a "^" symbol.

Method 6010B: The following samples were diluted due to the nature of the sample matrix: DG-AP13S-9.5-10 (720-90981-6), DG-AU11S-9.5-10 (720-90981-18), DG-AW11S-7.5-8 (720-90981-21), DG-AT12S-0.5-1 (720-90981-22) and DG-AT12S-9.5-10 (720-90981-24). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Barium, Copper and Antimony for preparation batch 440-526066 and analytical batch 440-526507 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision of Barium, Lead, Chromium and Zinc for preparation batch 440-526067 and analytical batch 440-526660 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Antimony for preparation batch 440-526072 and analytical batch 440-526503 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-525862 and 440-525866 and analytical batch 440-526106 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AR13S-0.5-1 (720-90981-1), DG-AP13S-0.5-1 (720-90981-4), DG-AK15S-3.5-4 (720-90981-8), DG-AX9S-0.5-1 (720-90981-13), DG-AX9S-3.5-4 (720-90981-14), DG-AU11S-0.5-1 (720-90981-16), DG-AU11S-3.5-4 (720-90981-17), DG-AW11S-0.5-1 (720-90981-19), DG-AW11S-3.5-4 (720-90981-20), (720-90981-F-1 MS) and (720-90981-F-1 MSD). The reporting limits (RLs) are elevated proportionately (8015B DRO).

Method 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AW11S-7.5-8 (720-90981-21), DG-AT12S-3.5-4 (720-90981-23), (720-90981-F-21 MS) and (720-90981-F-21 MSD). The reporting limits (RLs) are elevated proportionately (8015B DRO).

Method 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AR13S-0.5-1 (720-90981-1), DG-AP13S-0.5-1 (720-90981-4), DG-AK15S-3.5-4 (720-90981-8), DG-AX9S-0.5-1 (720-90981-13), DG-AX9S-3.5-4 (720-90981-14), DG-AW11S-0.5-1 (720-90981-19), DG-AW11S-3.5-4 (720-90981-20), DG-AW11S-7.5-8 (720-90981-21), DG-AT12S-0.5-1 (720-90981-22), DG-AT12S-3.5-4 (720-90981-23), (720-90981-F-21 MS), (720-90981-F-21 MSD), (720-90981-F-1 MS), and

Job ID: 720-90981-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

(720-90981-F-1 MSD). The reporting limits (RLs) are elevated proportionately. 8270 SIM

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AR13S-0.5-1 — Lab Sample ID: 720-90981-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	160	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	110	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Chrysene	140	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	180	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	210	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	66	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	170	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	140	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	320		300	40	ug/Kg	5		8270C SIM	Total/NA
Pyrene	380		300	40	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	48	F1 F2	10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120		10	5.0	mg/Kg	1		8015B	Total/NA
Arsenic	6.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	120		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	1.4		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.37	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	170		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	62		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	33		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	64		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	54		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	180		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.36	F1	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR13S-3.5-4 — Lab Sample ID: 720-90981-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	13	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	19	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	21	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	19	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	26	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	7.8	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	10	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	10	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	30		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	38		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.0	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	14		4.9	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	23		4.9	2.5	mg/Kg	1		8015B	Total/NA
Silver	3.8		1.5	0.89	mg/Kg	5		6010B	Total/NA
Arsenic	27		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	710		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	1.2		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	2.9		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	10		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	100		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	1600		2.0	1.1	mg/Kg	5		6010B	Total/NA
Molybdenum	3.7		2.0	1.0	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR13S-3.5-4 (Continued)

Lab Sample ID: 720-90981-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	53		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	1900		2.0	1.0	mg/Kg	5		6010B	Total/NA
Antimony	36		10	5.0	mg/Kg	5		6010B	Total/NA
Vanadium	50		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	1800		10	5.0	mg/Kg	10		6010B	Total/NA
Mercury	2.7		0.10	0.060	mg/Kg	5		7471A	Total/NA

Client Sample ID: DG-AR13S-9.5-10

Lab Sample ID: 720-90981-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.1		0.99	0.50	ug/Kg	1		8260B	Total/NA
Toluene	2.0		0.99	0.50	ug/Kg	1		8260B	Total/NA
Naphthalene	11	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	10	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	9.5	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.2	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	16	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	20	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	17	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	9.3	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	6.2	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.8	J	4.9	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4.1	J	4.9	2.5	mg/Kg	1		8015B	Total/NA
Silver	4.0		1.5	0.89	mg/Kg	5		6010B	Total/NA
Arsenic	20		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	930		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.52		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	7.1		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	42		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	790		2.0	1.1	mg/Kg	5		6010B	Total/NA
Molybdenum	2.2		2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	39		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	3000		2.0	1.0	mg/Kg	5		6010B	Total/NA
Antimony	17		10	5.0	mg/Kg	5		6010B	Total/NA
Selenium	1.8	J	3.0	1.7	mg/Kg	5		6010B	Total/NA
Vanadium	22		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	2000		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	1.6		0.098	0.059	mg/Kg	5		7471A	Total/NA

Client Sample ID: DG-AP13S-0.5-1

Lab Sample ID: 720-90981-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	53	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	23	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	39	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	27	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	34	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	10	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	23	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP13S-0.5-1 (Continued) — Lab Sample ID: 720-90981-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	18	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	63		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	78		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	130		9.9	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	270		9.9	5.0	mg/Kg	1		8015B	Total/NA
Arsenic	6.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	98		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.49	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.6		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	95		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	27		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	23		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	24		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	44		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	56		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.12		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP13S-3.5-4 — Lab Sample ID: 720-90981-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	6.7	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	5.9	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	5.2	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.5	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	8.1	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.9	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	11		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	17		5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	3.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	120		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.40	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	12		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	80		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	27		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	41		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	7.1		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	75		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	40		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.12		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP13S-9.5-10 — Lab Sample ID: 720-90981-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.9		0.91	0.46	ug/Kg	1		8260B	Total/NA
Tetrachloroethene	0.64	J	0.91	0.46	ug/Kg	1		8260B	Total/NA
Toluene	1.7		0.91	0.46	ug/Kg	1		8260B	Total/NA
Naphthalene	8.0	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	17	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	4.5	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	5.2	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP13S-9.5-10 (Continued) — Lab Sample ID: 720-90981-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	10		4.9	2.4	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	8.0		4.9	2.4	mg/Kg	1		8015B	Total/NA
Arsenic	27		6.0	3.0	mg/Kg	10		6010B	Total/NA
Barium	170		3.0	1.5	mg/Kg	10		6010B	Total/NA
Cadmium	1.9		1.0	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	20		2.0	1.0	mg/Kg	10		6010B	Total/NA
Chromium	25		2.0	1.0	mg/Kg	10		6010B	Total/NA
Copper	1100		4.0	2.2	mg/Kg	10		6010B	Total/NA
Molybdenum	2.1	J	4.0	2.0	mg/Kg	10		6010B	Total/NA
Nickel	57		4.0	2.0	mg/Kg	10		6010B	Total/NA
Lead	4100		4.0	2.0	mg/Kg	10		6010B	Total/NA
Antimony	15	J	20	10	mg/Kg	10		6010B	Total/NA
Selenium	3.7	J	6.0	3.4	mg/Kg	10		6010B	Total/NA
Vanadium	27		2.0	1.0	mg/Kg	10		6010B	Total/NA
Zinc	1300		10	5.0	mg/Kg	10		6010B	Total/NA
Mercury	0.086		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK15S-0.5-1 — Lab Sample ID: 720-90981-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.9		0.87	0.43	ug/Kg	1		8260B	Total/NA
Naphthalene	11	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	4.0	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	61		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	3.9	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	17	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	30		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	20	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	32		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	9.2	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	12	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	12	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	35		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	36		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.5	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	9.6	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	14		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	20		5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	5.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	140		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.29	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.6		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	52		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	120		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	85		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	46		2.0	1.0	mg/Kg	5		6010B	Total/NA
Selenium	1.7	J	3.0	1.7	mg/Kg	5		6010B	Total/NA
Vanadium	32		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	140		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.11		0.020	0.012	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AK15S-3.5-4 — Lab Sample ID: 720-90981-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		0.79	0.39	ug/Kg	1		8260B	Total/NA
Acenaphthylene	190	J	590	78	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	150	J	590	78	ug/Kg	10		8270C SIM	Total/NA
Anthracene	89	J	590	78	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	230	J	590	78	ug/Kg	10		8270C SIM	Total/NA
Chrysene	600		590	78	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	140	J	590	78	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	390	J	590	78	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	83	J	590	78	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	590		590	78	ug/Kg	10		8270C SIM	Total/NA
Pyrene	850		590	78	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	140		9.8	4.9	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	93		9.8	4.9	mg/Kg	1		8015B	Total/NA
Arsenic	7.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	100		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.63		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	1.8		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.7		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	34		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	43		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	25		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	45		2.0	1.0	mg/Kg	5		6010B	Total/NA
Selenium	1.7	J	3.0	1.7	mg/Kg	5		6010B	Total/NA
Vanadium	37		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	660		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.21		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM15S-0.5-1 — Lab Sample ID: 720-90981-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	7.5	J	9.4	4.7	ug/Kg	1		8260B	Total/NA
Naphthalene	11	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	15	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	9.1	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	12	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.4	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	16	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.6	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.9	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.7	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	16	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	15	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	8.4	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	8.3		4.9	2.4	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	13		4.9	2.4	mg/Kg	1		8015B	Total/NA
Arsenic	7.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	30		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.74		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	12		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	30		0.99	0.50	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM15S-0.5-1 (Continued)

Lab Sample ID: 720-90981-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	16		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	28		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	4.3		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	43		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	42		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.042		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM15S-3.5-4

Lab Sample ID: 720-90981-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	7.5	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	23	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	9.8	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	39		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	48		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	49		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	62		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	21	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	24	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	25	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	54		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	67		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	7.4	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	16		4.9	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	18		4.9	2.5	mg/Kg	1		8015B	Total/NA
Dieldrin	3.0	J p	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	7.4	p	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	27		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDD	2.4	J p	5.0	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1254	170		50	17	ug/Kg	1		8082	Total/NA
Arsenic	5.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	110	F1	1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.30	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.37	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	5.2		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	66	F1	1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	31		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	31		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	180	F2 F1	2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	28		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	130	F1	5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.086		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-113

Lab Sample ID: 720-90981-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	4.1	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	5.2	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.8	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	7.4	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-113 (Continued) — Lab Sample ID: 720-90981-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	18	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.1		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4.1	J	5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	7.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	88		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.62		0.49	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.1		0.99	0.49	mg/Kg	5		6010B	Total/NA
Chromium	48		0.99	0.49	mg/Kg	5		6010B	Total/NA
Copper	37		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	32		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	21		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	53		0.99	0.49	mg/Kg	5		6010B	Total/NA
Zinc	64		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.039		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-96 — Lab Sample ID: 720-90981-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	4.0	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	17	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	11	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	17	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	15	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	20	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.8	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	11	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	9.5	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	29		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	36		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	40		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	69		5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	8.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	120		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.47	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	150		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	43		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	28		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	51		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	51		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	170		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.19		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX9S-0.5-1 — Lab Sample ID: 720-90981-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	10		6.8	3.4	ug/Kg	1		8260B	Total/NA
Naphthalene	22	J	58	7.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	17	J	58	7.8	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	30	J	58	7.8	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AX9S-0.5-1 (Continued)

Lab Sample ID: 720-90981-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	26	J	58	7.8	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	180		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Anthracene	30	J	58	7.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	120		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Chrysene	150		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	200		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	220		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	63		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	160		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	130		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	290		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	360		58	7.8	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	19	J	58	7.8	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	32	J	58	7.8	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	34		9.8	4.9	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	66		9.8	4.9	mg/Kg	1		8015B	Total/NA
Arsenic	7.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	120		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.61		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	14		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	71		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	36		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	80		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	28		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	45		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	60		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.42		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX9S-3.5-4

Lab Sample ID: 720-90981-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.5	J	8.5	4.3	ug/Kg	1		8260B	Total/NA
Naphthalene	96	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Acenaphthene	150	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	130	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Fluorene	82	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	1000		290	39	ug/Kg	5		8270C SIM	Total/NA
Anthracene	150	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	500		290	39	ug/Kg	5		8270C SIM	Total/NA
Chrysene	690		290	39	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	830		290	39	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	790		290	39	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	290		290	39	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	810		290	39	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	720		290	39	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	1500		290	39	ug/Kg	5		8270C SIM	Total/NA
Pyrene	1800		290	39	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	73	J	290	39	ug/Kg	5		8270C SIM	Total/NA
2-Methylnaphthalene	45	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	590		9.9	5.0	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AX9S-3.5-4 (Continued) — Lab Sample ID: 720-90981-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	930		9.9	5.0	mg/Kg	1		8015B	Total/NA
Arsenic	3.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	76		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cobalt	7.0		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	29		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	21		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	50		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	50		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	36		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	55		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.071		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX9S-9.5-10 — Lab Sample ID: 720-90981-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	5.7	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	12	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.9	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	11	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.7	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	12	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	10	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	9.6	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	19	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	21	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.7		4.9	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	6.7		4.9	2.5	mg/Kg	1		8015B	Total/NA
Silver	1.7		1.5	0.89	mg/Kg	5		6010B	Total/NA
Arsenic	24		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	320		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.85		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	2.6		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.1		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	87		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	440		2.0	1.1	mg/Kg	5		6010B	Total/NA
Molybdenum	1.0	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	47		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	2200		2.0	1.0	mg/Kg	5		6010B	Total/NA
Antimony	16		10	5.0	mg/Kg	5		6010B	Total/NA
Selenium	2.2	J	3.0	1.7	mg/Kg	5		6010B	Total/NA
Vanadium	46		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	1400		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	2.6		0.40	0.24	mg/Kg	20		7471A	Total/NA

Client Sample ID: DG-AU11S-0.5-1 — Lab Sample ID: 720-90981-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	7.9	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	8.6	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	14	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AU11S-0.5-1 (Continued)

Lab Sample ID: 720-90981-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	10	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	18	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.2	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	7.8	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	6.5	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	16	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	17	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	33		9.9	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	83		9.9	5.0	mg/Kg	1		8015B	Total/NA
Arsenic	5.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	84		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.50		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.6		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	54		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	22		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	32		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	12		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	50		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	49		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.16		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU11S-3.5-4

Lab Sample ID: 720-90981-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	5.3	J	7.0	3.5	ug/Kg	1		8260B	Total/NA
Naphthalene	10	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	12	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	43		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluorene	13	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	160		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Anthracene	42		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	280		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	360		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	240		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	400		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	160		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	100		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	130		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	380		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	340		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	33		30	4.0	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	6.8	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	26		9.9	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	39		9.9	5.0	mg/Kg	1		8015B	Total/NA
Dieldrin	11	p	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	39		4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	15		4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDD	1.5	J p	4.9	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1254 - DL	760		250	84	ug/Kg	5		8082	Total/NA
Aroclor 1260 - DL	560		250	84	ug/Kg	5		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AU11S-3.5-4 (Continued)

Lab Sample ID: 720-90981-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	97		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.43	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.7		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	49		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	24		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	29		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	11		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	49		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	46		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.15		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU11S-9.5-10

Lab Sample ID: 720-90981-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.3		0.89	0.44	ug/Kg	1		8260B	Total/NA
Toluene	0.62	J	0.89	0.44	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	5.6	J	8.9	4.4	ug/Kg	1		8260B	Total/NA
Naphthalene	36		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	47		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	110		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	130		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	120		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	170		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	64		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	67		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	84		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	120		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	120		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	25	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	4.6	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	16		4.9	2.4	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	9.3		4.9	2.4	mg/Kg	1		8015B	Total/NA
Aroclor 1254	22	J	49	17	ug/Kg	1		8082	Total/NA
Silver	31		3.0	1.8	mg/Kg	10		6010B	Total/NA
Arsenic	40		6.0	3.0	mg/Kg	10		6010B	Total/NA
Barium	990		3.0	1.5	mg/Kg	10		6010B	Total/NA
Cadmium	4.1		1.0	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	6.4		2.0	1.0	mg/Kg	10		6010B	Total/NA
Chromium	1200		2.0	1.0	mg/Kg	10		6010B	Total/NA
Copper	2900		4.0	2.2	mg/Kg	10		6010B	Total/NA
Molybdenum	3.8	J	4.0	2.0	mg/Kg	10		6010B	Total/NA
Nickel	56		4.0	2.0	mg/Kg	10		6010B	Total/NA
Lead	8400	^	8.0	4.0	mg/Kg	20		6010B	Total/NA
Antimony	58		20	10	mg/Kg	10		6010B	Total/NA
Selenium	4.7	J	6.0	3.4	mg/Kg	10		6010B	Total/NA
Vanadium	15		2.0	1.0	mg/Kg	10		6010B	Total/NA
Zinc	2900		10	5.0	mg/Kg	10		6010B	Total/NA
Mercury	11		0.40	0.24	mg/Kg	20		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AW11S-0.5-1 — Lab Sample ID: 720-90981-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.7		1.6	0.80	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	32		8.0	4.0	ug/Kg	1		8260B	Total/NA
Phenanthrene	36	J	59	7.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	27	J	59	7.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	41	J	59	7.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	39	J	59	7.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	47	J	59	7.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	15	J	59	7.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	38	J	59	7.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	29	J	59	7.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	61		59	7.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	66		59	7.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110		9.8	4.9	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	180		9.8	4.9	mg/Kg	1		8015B	Total/NA
Endrin aldehyde	1.9	J p	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	14		4.9	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1260	230		49	17	ug/Kg	1		8082	Total/NA
Arsenic	8.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	73		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.69		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	12		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	170		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	44		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	30		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	41	^	2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	46		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	120		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.16		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW11S-3.5-4 — Lab Sample ID: 720-90981-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	77	H	8.6	4.3	ug/Kg	1		8260B	Total/NA
Benzo[b]fluoranthene	40	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	45	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Pyrene	44	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	47		10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	84		10	5.0	mg/Kg	1		8015B	Total/NA
Dieldrin	2.4	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
Endrin aldehyde	1.7	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	4.7	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	27		4.9	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1260	66		49	16	ug/Kg	1		8082	Total/NA
Arsenic	4.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	150		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.38	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	6.1		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	780		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	49		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	24		2.0	1.0	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AW11S-3.5-4 (Continued) — Lab Sample ID: 720-90981-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	59	^	2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	35		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	200		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.22		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW11S-7.5-8 — Lab Sample ID: 720-90981-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.0		1.7	0.83	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	75		8.3	4.1	ug/Kg	1		8260B	Total/NA
Chrysene	300		290	39	ug/Kg	5		8270C SIM	Total/NA
Pyrene	150	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1600	B	100	50	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1700	B	100	50	mg/Kg	10		8015B	Total/NA
4,4'-DDT	5.4		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	11		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDD	4.0	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
Barium	130		15	7.5	mg/Kg	50		6010B	Total/NA
Chromium	8700		10	5.0	mg/Kg	50		6010B	Total/NA
Copper	85		20	11	mg/Kg	50		6010B	Total/NA
Nickel	13	J	20	10	mg/Kg	50		6010B	Total/NA
Lead	69		20	10	mg/Kg	50		6010B	Total/NA
Vanadium	22		10	5.0	mg/Kg	50		6010B	Total/NA
Zinc	1200		50	25	mg/Kg	50		6010B	Total/NA
Mercury	2.6	F1	0.10	0.061	mg/Kg	5		7471A	Total/NA

Client Sample ID: DG-AT12S-0.5-1 — Lab Sample ID: 720-90981-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	180		95	66	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Benzene	1.0		0.95	0.47	ug/Kg	1		8260B	Total/NA
Toluene	1.7		0.95	0.47	ug/Kg	1		8260B	Total/NA
Acenaphthylene	8.8	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Fluorene	11	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	88		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Anthracene	11	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	44	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	80		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	48	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	65		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	22	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	52	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	43	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	99		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	110		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	8.4	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	8.8	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	56	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	54	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	25		6.0	3.0	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT12S-0.5-1 (Continued)

Lab Sample ID: 720-90981-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	530		3.0	1.5	mg/Kg	10		6010B	Total/NA
Cadmium	6.1		1.0	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	4.5		2.0	1.0	mg/Kg	10		6010B	Total/NA
Chromium	1400		2.0	1.0	mg/Kg	10		6010B	Total/NA
Copper	630		4.0	2.2	mg/Kg	10		6010B	Total/NA
Nickel	52		4.0	2.0	mg/Kg	10		6010B	Total/NA
Lead	11000	^	8.0	4.0	mg/Kg	20		6010B	Total/NA
Antimony	51		20	10	mg/Kg	10		6010B	Total/NA
Vanadium	12		2.0	1.0	mg/Kg	10		6010B	Total/NA
Zinc	3800		10	5.0	mg/Kg	10		6010B	Total/NA
Mercury	0.26		0.10	0.060	mg/Kg	5		7471A	Total/NA

Client Sample ID: DG-AT12S-3.5-4

Lab Sample ID: 720-90981-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.4		1.1	0.57	ug/Kg	1		8260B	Total/NA
Naphthalene	19	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	17	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	56	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Fluorene	22	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	500		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Anthracene	130		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	870		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	1100		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	840		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	1100		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	410		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	670		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	640		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	1200		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	1400		60	8.0	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	140		60	8.0	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	13	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	390	B	9.7	4.9	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	300	B	9.7	4.9	mg/Kg	1		8015B	Total/NA
Endrin aldehyde	6.6		4.9	1.5	ug/Kg	1		8081A	Total/NA
Arsenic	10		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	150		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.43	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.29	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	7.5		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	110		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	79		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	34		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	120	^	2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	56		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	190		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.014	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT12S-9.5-10

Lab Sample ID: 720-90981-24

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT12S-9.5-10 (Continued)

Lab Sample ID: 720-90981-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.8	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4.8	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Silver	5.6	J	7.4	4.4	mg/Kg	25		6010B	Total/NA
Arsenic	29		15	7.4	mg/Kg	25		6010B	Total/NA
Barium	1600		7.4	3.7	mg/Kg	25		6010B	Total/NA
Cadmium	4.8		2.5	1.2	mg/Kg	25		6010B	Total/NA
Chromium	53		5.0	2.5	mg/Kg	25		6010B	Total/NA
Copper	1100		9.9	5.4	mg/Kg	25		6010B	Total/NA
Nickel	74		9.9	5.0	mg/Kg	25		6010B	Total/NA
Lead	6600		9.9	5.0	mg/Kg	25		6010B	Total/NA
Antimony	51		50	25	mg/Kg	25		6010B	Total/NA
Vanadium	25		5.0	2.5	mg/Kg	25		6010B	Total/NA
Zinc	2900		25	12	mg/Kg	25		6010B	Total/NA

Client Sample ID: DG-AM15S-9.5-10

Lab Sample ID: 720-90981-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	3.3		1.7	0.86	ug/Kg	1		8260B	Total/NA
Phenanthrene	4.1	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	6.7	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.2	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	6.4	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	20	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	20	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	14	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	6.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	87		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.43	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.27	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.4		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	49		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	33		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	33		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	29	^	2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	48		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	63		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.033		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: TB-01.23.19

Lab Sample ID: 720-90981-26

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR13S-0.5-1
Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		01/23/19 19:00	01/29/19 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/23/19 19:00*	*01/29/19 16:22*	*1*
4-Bromofluorobenzene (Surr)	*91*		*79 - 120*	*01/23/19 19:00*	*01/29/19 16:22*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/23/19 19:00*	*01/29/19 16:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,1,1-Trichloroethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,1,2-Trichloroethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,1-Dichloroethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,1-Dichloroethene	ND		1.7	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,1-Dichloropropene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,2,4-Trichlorobenzene	ND		4.1	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.7	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,2-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,2-Dichloroethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,2-Dichloropropane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,3-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,3-Dichloropropane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,4-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
2-Hexanone	ND		8.3	4.1	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
4-Isopropyltoluene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Benzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Bromobenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Bromoform	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Bromomethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Carbon disulfide	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Carbon tetrachloride	ND		1.7	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Chlorobenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Chloroethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Chloroform	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Chloromethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
cis-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
cis-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Chlorodibromomethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Dibromomethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Dichlorobromomethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1

Client Sample ID: DG-AR13S-0.5-1
Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Ethylbenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Isopropylbenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Methylene Chloride	ND		8.3	4.1	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Methyl tert-butyl ether	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Naphthalene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
N-Propylbenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Styrene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Tetrachloroethene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Toluene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
trans-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
trans-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Trichloroethene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.1	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Vinyl acetate	ND		6.6	3.3	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
Ethylene Dibromide	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
2-Butanone (MEK)	ND		8.3	4.1	ug/Kg		01/23/19 19:00	01/29/19 16:22	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.1	ug/Kg		01/23/19 19:00	01/29/19 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/23/19 19:00*	*01/29/19 16:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*01/23/19 19:00*	*01/29/19 16:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Acenaphthene	ND		300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Acenaphthylene	ND		300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Fluorene	ND		300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Phenanthrene	**160**	**J**	300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Anthracene	ND		300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Benzo[a]anthracene	**110**	**J**	300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Chrysene	**140**	**J**	300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Benzo[a]pyrene	**180**	**J**	300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Benzo[b]fluoranthene	**210**	**J**	300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Benzo[k]fluoranthene	**66**	**J**	300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Benzo[g,h,i]perylene	**170**	**J**	300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Indeno[1,2,3-cd]pyrene	**140**	**J**	300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Fluoranthene	**320**		300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Pyrene	**380**		300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
Dibenz(a,h)anthracene	ND		300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5
2-Methylnaphthalene	ND		300	40	ug/Kg		02/01/19 09:44	02/04/19 19:04	5

Client Sample ID: DG-AR13S-0.5-1

Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*121*	*X*	*29 - 120*	*02/01/19 09:44*	*02/04/19 19:04*	*5*
Nitrobenzene-d5	*111*		*11 - 118*	*02/01/19 09:44*	*02/04/19 19:04*	*5*
Terphenyl-d14	*118*		*10 - 120*	*02/01/19 09:44*	*02/04/19 19:04*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**48**	**F1 F2**	10	5.0	mg/Kg		01/25/19 15:17	01/26/19 03:39	1
Motor Oil Range Organics [C24-C36]	**120**		10	5.0	mg/Kg		01/25/19 15:17	01/26/19 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*93*		*40 - 140*	*01/25/19 15:17*	*01/26/19 03:39*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 14:43	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*28 - 115*	*01/29/19 06:19*	*01/29/19 14:43*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*21 - 117*	*01/29/19 06:19*	*01/29/19 14:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 14:51	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 14:51	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 14:51	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 14:51	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 14:51	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 14:51	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 14:51	1

Client Sample ID: DG-AR13S-0.5-1

Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*102*		*45 - 120*	*01/29/19 06:19*	*01/29/19 14:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Arsenic	**6.1**		3.0	1.5	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Barium	**120**		1.5	0.75	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Beryllium	**1.4**		0.50	0.25	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Cadmium	**0.37**	**J**	0.50	0.25	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Cobalt	**11**		1.0	0.50	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Chromium	**170**		1.0	0.50	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Copper	**62**		2.0	1.1	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Nickel	**33**		2.0	1.0	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Lead	**64**		2.0	1.0	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Vanadium	**54**		1.0	0.50	mg/Kg		01/31/19 09:40	02/01/19 19:23	5
Zinc	**180**		5.0	2.5	mg/Kg		01/31/19 09:40	02/01/19 19:23	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.36**	**F1**	0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 20:32	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.9**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AR13S-3.5-4

Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	54	ug/Kg		01/23/19 19:00	01/29/19 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*60 - 120*	*01/23/19 19:00*	*01/29/19 16:50*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*	*01/23/19 19:00*	*01/29/19 16:50*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/23/19 19:00*	*01/29/19 16:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.6	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,2,3-Trichlorobenzene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,2,4-Trichlorobenzene	ND		3.8	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,2,4-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,2-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,3,5-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,3-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,4-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
2,2-Dichloropropane	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
2-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
2-Hexanone	ND		7.6	3.8	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
4-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
4-Isopropyltoluene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Benzene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Bromobenzene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Bromoform	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Bromomethane	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Chloroethane	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Chloroform	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Chloromethane	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Dibromomethane	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1

Client Sample ID: DG-AR13S-3.5-4
Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Hexachlorobutadiene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Naphthalene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
n-Butylbenzene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
N-Propylbenzene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
sec-Butylbenzene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Styrene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
tert-Butylbenzene	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Toluene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Trichloroethene	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Xylenes, Total	ND		1.5	0.99	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
2-Butanone (MEK)	ND		7.6	3.8	ug/Kg		01/23/19 19:00	01/29/19 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/23/19 19:00	01/29/19 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/23/19 19:00*	*01/29/19 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*01/23/19 19:00*	*01/29/19 16:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Acenaphthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Fluorene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Phenanthrene	**13**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Benzo[a]anthracene	**19**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Chrysene	**21**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Benzo[a]pyrene	**19**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Benzo[b]fluoranthene	**26**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Benzo[k]fluoranthene	**7.8**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Benzo[g,h,i]perylene	**10**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Indeno[1,2,3-cd]pyrene	**10**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Fluoranthene	**30**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Pyrene	**38**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
Dibenz(a,h)anthracene	**4.0**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 19:28	1

Client Sample ID: DG-AR13S-3.5-4

Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*113*		*29 - 120*	*02/01/19 09:44*	*02/04/19 19:28*	*1*
Nitrobenzene-d5	*104*		*11 - 118*	*02/01/19 09:44*	*02/04/19 19:28*	*1*
Terphenyl-d14	*111*		*10 - 120*	*02/01/19 09:44*	*02/04/19 19:28*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		4.9	2.5	mg/Kg		01/25/19 15:17	01/26/19 12:08	1
Motor Oil Range Organics [C24-C36]	23		4.9	2.5	mg/Kg		01/25/19 15:17	01/26/19 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*88*		*40 - 140*	*01/25/19 15:17*	*01/26/19 12:08*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
Chlordane (technical)	ND		50	9.9	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:12	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*28 - 115*	*01/29/19 06:19*	*01/29/19 15:12*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*21 - 117*	*01/29/19 06:19*	*01/29/19 15:12*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:04	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:04	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:04	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:04	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:04	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:04	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:04	1

Client Sample ID: DG-AR13S-3.5-4

Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*57*		*45 - 120*	*01/29/19 06:19*	*01/29/19 15:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**3.8**		1.5	0.89	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Arsenic	**27**		3.0	1.5	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Barium	**710**		1.5	0.75	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Beryllium	**1.2**		0.50	0.25	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Cadmium	**2.9**		0.50	0.25	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Cobalt	**10**		1.0	0.50	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Chromium	**100**		1.0	0.50	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Copper	**1600**		2.0	1.1	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Molybdenum	**3.7**		2.0	1.0	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Nickel	**53**		2.0	1.0	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Lead	**1900**		2.0	1.0	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Antimony	**36**		10	5.0	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Vanadium	**50**		1.0	0.50	mg/Kg		01/31/19 09:40	02/01/19 19:26	5
Zinc	**1800**		10	5.0	mg/Kg		01/31/19 09:40	02/05/19 16:01	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.7**		0.10	0.060	mg/Kg		01/30/19 12:50	01/31/19 01:11	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.0**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AR13S-9.5-10

Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		99	69	ug/Kg		01/23/19 19:00	01/29/19 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/23/19 19:00*	*01/29/19 17:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/23/19 19:00*	*01/29/19 17:17*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*01/23/19 19:00*	*01/29/19 17:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,1,1-Trichloroethane	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,1,2-Trichloroethane	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,1-Dichloroethane	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,1-Dichloropropene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,2,3-Trichlorobenzene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,2-Dichlorobenzene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,2-Dichloroethane	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,2-Dichloropropane	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,3-Dichlorobenzene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,3-Dichloropropane	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,4-Dichlorobenzene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
2-Chlorotoluene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
2-Hexanone	ND		9.9	5.0	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
4-Chlorotoluene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
4-Isopropyltoluene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Benzene	**7.1**		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Bromobenzene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Bromoform	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Bromomethane	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Carbon disulfide	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Chlorobenzene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Chlorobromomethane	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Chloroethane	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Chloroform	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Chloromethane	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
cis-1,2-Dichloroethene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
cis-1,3-Dichloropropene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Chlorodibromomethane	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Dibromomethane	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Dichlorobromomethane	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1

Client Sample ID: DG-AR13S-9.5-10
Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Ethylbenzene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Hexachlorobutadiene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Isopropylbenzene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Methylene Chloride	ND		9.9	5.0	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Methyl tert-butyl ether	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Naphthalene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
n-Butylbenzene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
N-Propylbenzene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
sec-Butylbenzene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Styrene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
tert-Butylbenzene	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Tetrachloroethene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Toluene	**2.0**		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
trans-1,2-Dichloroethene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
trans-1,3-Dichloropropene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Trichloroethene	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Trichlorofluoromethane	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.9	5.0	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Vinyl acetate	ND		7.9	4.0	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Vinyl chloride	ND		2.0	0.99	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
Ethylene Dibromide	ND		0.99	0.50	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
2-Butanone (MEK)	ND		9.9	5.0	ug/Kg		01/23/19 19:00	01/29/19 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg		01/23/19 19:00	01/29/19 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*79 - 123*	*01/23/19 19:00*	*01/29/19 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*01/23/19 19:00*	*01/29/19 17:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**11**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Acenaphthene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Acenaphthylene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Fluorene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Phenanthrene	**10**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Anthracene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Benzo[a]anthracene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Chrysene	**9.5**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Benzo[a]pyrene	**5.2**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Benzo[b]fluoranthene	**16**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Benzo[k]fluoranthene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Benzo[g,h,i]perylene	**20**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Indeno[1,2,3-cd]pyrene	**17**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Fluoranthene	**9.3**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Pyrene	**6.2**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
Dibenz(a,h)anthracene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1
2-Methylnaphthalene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 16:13	1

Client Sample ID: DG-AR13S-9.5-10

Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	95		29 - 120	02/01/19 09:44	02/04/19 16:13	1
Nitrobenzene-d5	85		11 - 118	02/01/19 09:44	02/04/19 16:13	1
Terphenyl-d14	93		10 - 120	02/01/19 09:44	02/04/19 16:13	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.8	J	4.9	2.5	mg/Kg		01/25/19 15:17	01/26/19 07:43	1
Motor Oil Range Organics [C24-C36]	4.1	J	4.9	2.5	mg/Kg		01/25/19 15:17	01/26/19 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	89		40 - 140	01/25/19 15:17	01/26/19 07:43	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 15:27	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		28 - 115	01/29/19 06:19	01/29/19 15:27	1
DCB Decachlorobiphenyl (Surr)	65		21 - 117	01/29/19 06:19	01/29/19 15:27	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:18	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:18	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:18	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:18	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:18	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:18	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:18	1

Client Sample ID: DG-AR13S-9.5-10

Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*45 - 120*	*01/29/19 06:19*	*01/29/19 15:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	4.0		1.5	0.89	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Arsenic	20		3.0	1.5	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Barium	930		1.5	0.75	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Beryllium	0.52		0.50	0.25	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Cadmium	7.1		0.50	0.25	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Cobalt	11		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Chromium	42		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Copper	790		2.0	1.1	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Molybdenum	2.2		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Nickel	39		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Lead	3000		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Antimony	17		10	5.0	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Selenium	1.8	J	3.0	1.7	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Vanadium	22		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 17:15	5
Zinc	2000		5.0	2.5	mg/Kg		01/31/19 09:51	02/01/19 17:15	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		0.098	0.059	mg/Kg		01/30/19 12:50	01/31/19 01:13	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.1		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AP13S-0.5-1

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	46	ug/Kg		01/23/19 19:00	01/29/19 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*01/23/19 19:00*	*01/29/19 17:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*79 - 120*	*01/23/19 19:00*	*01/29/19 17:45*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/29/19 17:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
2-Hexanone	ND		6.6	3.3	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Benzene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Bromobenzene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Bromoform	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Bromomethane	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Chloroethane	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Chloroform	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Chloromethane	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Dibromomethane	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1

Client Sample ID: DG-AP13S-0.5-1
Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Naphthalene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Styrene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Toluene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Trichloroethene	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Vinyl acetate	ND		5.3	2.6	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Xylenes, Total	ND		1.3	0.86	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
2-Butanone (MEK)	ND		6.6	3.3	ug/Kg		01/23/19 19:00	01/29/19 17:45	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/23/19 19:00	01/29/19 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/29/19 17:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*01/23/19 19:00*	*01/29/19 17:45*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Acenaphthene	ND		60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Acenaphthylene	ND		60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Fluorene	ND		60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Phenanthrene	**53**	**J**	60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Anthracene	ND		60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Benzo[a]anthracene	**23**	**J**	60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Chrysene	**39**	**J**	60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Benzo[a]pyrene	**27**	**J**	60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Benzo[b]fluoranthene	**34**	**J**	60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Benzo[k]fluoranthene	**10**	**J**	60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Benzo[g,h,i]perylene	**23**	**J**	60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Indeno[1,2,3-cd]pyrene	**18**	**J**	60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Fluoranthene	**63**		60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Pyrene	**78**		60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
Dibenz(a,h)anthracene	ND		60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1
2-Methylnaphthalene	ND		60	8.0	ug/Kg		02/01/19 09:44	02/04/19 18:40	1

Client Sample ID: DG-AP13S-0.5-1

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*112*		*29 - 120*	*02/01/19 09:44*	*02/04/19 18:40*	*1*
Nitrobenzene-d5	*101*		*11 - 118*	*02/01/19 09:44*	*02/04/19 18:40*	*1*
Terphenyl-d14	*107*		*10 - 120*	*02/01/19 09:44*	*02/04/19 18:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**		9.9	5.0	mg/Kg		01/25/19 15:17	01/26/19 05:01	1
Motor Oil Range Organics [C24-C36]	**270**		9.9	5.0	mg/Kg		01/25/19 15:17	01/26/19 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*102*		*40 - 140*	*01/25/19 15:17*	*01/26/19 05:01*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Dieldrin	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Endrin aldehyde	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Endrin	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Endrin ketone	ND		4.8	1.9	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Heptachlor	ND		4.8	1.9	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Heptachlor epoxide	ND		4.8	1.9	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
4,4'-DDT	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
4,4'-DDE	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
4,4'-DDD	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Endosulfan I	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Endosulfan II	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
alpha-BHC	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
beta-BHC	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
gamma-BHC (Lindane)	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
delta-BHC	ND		9.7	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Methoxychlor	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Toxaphene	ND		190	48	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
Chlordane (technical)	ND		48	9.7	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
alpha-Chlordane	ND		4.8	1.9	ug/Kg		01/29/19 06:19	01/29/19 15:42	1
gamma-Chlordane	ND		4.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*28 - 115*	*01/29/19 06:19*	*01/29/19 15:42*	*1*
DCB Decachlorobiphenyl (Surr)	*182*	*X*	*21 - 117*	*01/29/19 06:19*	*01/29/19 15:42*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		48	16	ug/Kg		01/29/19 06:19	01/29/19 15:31	1
Aroclor 1221	ND		48	16	ug/Kg		01/29/19 06:19	01/29/19 15:31	1
Aroclor 1232	ND		48	16	ug/Kg		01/29/19 06:19	01/29/19 15:31	1
Aroclor 1242	ND		48	16	ug/Kg		01/29/19 06:19	01/29/19 15:31	1
Aroclor 1248	ND		48	16	ug/Kg		01/29/19 06:19	01/29/19 15:31	1
Aroclor 1254	ND		48	16	ug/Kg		01/29/19 06:19	01/29/19 15:31	1
Aroclor 1260	ND		48	16	ug/Kg		01/29/19 06:19	01/29/19 15:31	1

Client Sample ID: DG-AP13S-0.5-1

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*01/29/19 06:19*	*01/29/19 15:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Arsenic	**6.3**		3.0	1.5	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Barium	**98**		1.5	0.75	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Beryllium	**0.49**	**J**	0.50	0.25	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Cobalt	**9.6**		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Chromium	**95**		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Copper	**27**		2.0	1.1	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Nickel	**23**		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Lead	**24**		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Vanadium	**44**		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 17:18	5
Zinc	**56**		5.0	2.5	mg/Kg		01/31/19 09:51	02/01/19 17:18	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 20:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AP13S-3.5-4

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		73	51	ug/Kg		01/23/19 19:00	01/30/19 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/23/19 19:00*	*01/30/19 18:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*	*01/23/19 19:00*	*01/30/19 18:25*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
2-Hexanone	ND		7.3	3.6	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
4-Isopropyltoluene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Benzene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Bromoform	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Chloroform	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Dibromomethane	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1

Client Sample ID: DG-AP13S-3.5-4
Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Styrene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Tetrachloroethene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Toluene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Trichloroethene	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Xylenes, Total	ND		1.5	0.94	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		01/23/19 19:00	01/30/19 18:25	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/23/19 19:00	01/30/19 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/23/19 19:00*	*01/30/19 18:25*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**6.7**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Acenaphthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Fluorene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Phenanthrene	**5.9**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Chrysene	**5.2**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Benzo[b]fluoranthene	**4.5**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Fluoranthene	**8.1**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Pyrene	**8.9**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 16:37	1

Client Sample ID: DG-AP13S-3.5-4

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-5

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	104		29 - 120	02/01/19 09:44	02/04/19 16:37	1
Nitrobenzene-d5	95		11 - 118	02/01/19 09:44	02/04/19 16:37	1
Terphenyl-d14	98		10 - 120	02/01/19 09:44	02/04/19 16:37	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 12:28	1
Motor Oil Range Organics [C24-C36]	17		5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	80		40 - 140	01/25/19 15:17	01/26/19 12:28	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
delta-BHC	ND		10	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
Chlordane (technical)	ND		50	10	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:11	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		28 - 115	01/29/19 06:19	01/29/19 16:11	1
DCB Decachlorobiphenyl (Surr)	67		21 - 117	01/29/19 06:19	01/29/19 16:11	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:45	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:45	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:45	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:45	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:45	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:45	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 15:45	1

Client Sample ID: DG-AP13S-3.5-4

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*01/29/19 06:19*	*01/29/19 15:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Arsenic	**3.7**		3.0	1.5	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Barium	**120**		1.5	0.75	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Beryllium	**0.40**	**J**	0.50	0.25	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Cobalt	**12**		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Chromium	**80**		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Copper	**27**		2.0	1.1	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Nickel	**41**		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Lead	**7.1**		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Vanadium	**75**		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 17:20	5
Zinc	**40**		5.0	2.5	mg/Kg		01/31/19 09:51	02/01/19 17:20	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 20:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AP13S-9.5-10

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		91	64	ug/Kg		01/23/19 19:00	01/30/19 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/23/19 19:00*	*01/30/19 18:50*	*1*
4-Bromofluorobenzene (Surr)	*119*		*79 - 120*	*01/23/19 19:00*	*01/30/19 18:50*	*1*
Toluene-d8 (Surr)	*112*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.1	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,1,1-Trichloroethane	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,1,2-Trichloroethane	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,1-Dichloroethane	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,1-Dichloroethene	ND		1.8	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,1-Dichloropropene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,2,3-Trichlorobenzene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,2,4-Trichlorobenzene	ND		4.6	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,2,4-Trimethylbenzene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,2-Dibromo-3-Chloropropane	ND		4.6	1.8	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,2-Dichlorobenzene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,2-Dichloroethane	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,2-Dichloropropane	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,3,5-Trimethylbenzene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,3-Dichlorobenzene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,3-Dichloropropane	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,4-Dichlorobenzene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
2,2-Dichloropropane	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
2-Chlorotoluene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
2-Hexanone	ND		9.1	4.6	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
4-Chlorotoluene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
4-Isopropyltoluene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Benzene	**3.9**		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Bromobenzene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Bromoform	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Bromomethane	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Carbon disulfide	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Carbon tetrachloride	ND		1.8	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Chlorobenzene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Chlorobromomethane	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Chloroethane	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Chloroform	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Chloromethane	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
cis-1,2-Dichloroethene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
cis-1,3-Dichloropropene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Chlorodibromomethane	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Dibromomethane	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Dichlorobromomethane	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1

Client Sample ID: DG-AP13S-9.5-10

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Ethylbenzene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Hexachlorobutadiene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Isopropylbenzene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Methylene Chloride	ND		9.1	4.6	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Methyl tert-butyl ether	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Naphthalene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
n-Butylbenzene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
N-Propylbenzene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
sec-Butylbenzene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Styrene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
tert-Butylbenzene	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Tetrachloroethene	**0.64**	**J**	0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Toluene	**1.7**		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
trans-1,2-Dichloroethene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
trans-1,3-Dichloropropene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Trichloroethene	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Trichlorofluoromethane	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.1	4.6	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Vinyl acetate	ND		7.3	3.6	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Vinyl chloride	ND		1.8	0.91	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
Ethylene Dibromide	ND		0.91	0.46	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
2-Butanone (MEK)	ND		9.1	4.6	ug/Kg		01/23/19 19:00	01/30/19 18:50	1
4-Methyl-2-pentanone (MIBK)	ND		4.6	2.3	ug/Kg		01/23/19 19:00	01/30/19 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/23/19 19:00*	*01/30/19 18:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**8.0**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Acenaphthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Fluorene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Phenanthrene	**17**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Chrysene	**4.5**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Fluoranthene	**5.2**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Pyrene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 17:01	1

Client Sample ID: DG-AP13S-9.5-10

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*101*		*29 - 120*	*02/01/19 09:44*	*02/04/19 17:01*	*1*
Nitrobenzene-d5	*97*		*11 - 118*	*02/01/19 09:44*	*02/04/19 17:01*	*1*
Terphenyl-d14	*99*		*10 - 120*	*02/01/19 09:44*	*02/04/19 17:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10**		4.9	2.4	mg/Kg		01/25/19 15:17	01/26/19 11:27	1
Motor Oil Range Organics [C24-C36]	**8.0**		4.9	2.4	mg/Kg		01/25/19 15:17	01/26/19 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*84*		*40 - 140*	*01/25/19 15:17*	*01/26/19 11:27*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*28 - 115*	*01/29/19 06:19*	*01/29/19 16:26*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*21 - 117*	*01/29/19 06:19*	*01/29/19 16:26*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:58	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:58	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:58	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:58	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:58	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:58	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 15:58	1

Client Sample ID: DG-AP13S-9.5-10
Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-6
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*01/29/19 06:19*	*01/29/19 15:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		3.0	1.8	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Arsenic	**27**		6.0	3.0	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Barium	**170**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Beryllium	ND		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Cadmium	**1.9**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Cobalt	**20**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Chromium	**25**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Copper	**1100**		4.0	2.2	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Molybdenum	**2.1**	**J**	4.0	2.0	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Nickel	**57**		4.0	2.0	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Lead	**4100**		4.0	2.0	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Antimony	**15**	**J**	20	10	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Selenium	**3.7**	**J**	6.0	3.4	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Thallium	ND		20	10	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Vanadium	**27**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:11	10
Zinc	**1300**		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:11	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.086**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 20:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.2**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AK15S-0.5-1

Date Collected: 01/23/19 14:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		87	61	ug/Kg		01/23/19 19:00	01/30/19 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/23/19 19:00*	*01/30/19 20:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/23/19 19:00*	*01/30/19 20:19*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/23/19 19:00*	*01/30/19 20:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,1-Trichloroethane	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,2-Trichloroethane	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1-Dichloroethane	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1-Dichloropropene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2,3-Trichlorobenzene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2,4-Trichlorobenzene	ND		4.3	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2,4-Trimethylbenzene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2-Dichlorobenzene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2-Dichloroethane	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2-Dichloropropane	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,3,5-Trimethylbenzene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,3-Dichlorobenzene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,3-Dichloropropane	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,4-Dichlorobenzene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
2,2-Dichloropropane	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
2-Chlorotoluene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
2-Hexanone	ND		8.7	4.3	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
4-Chlorotoluene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
4-Isopropyltoluene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Benzene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Bromobenzene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Bromoform	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Bromomethane	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Carbon disulfide	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chlorobenzene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chlorobromomethane	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chloroethane	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chloroform	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chloromethane	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
cis-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
cis-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chlorodibromomethane	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Dibromomethane	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Dichlorobromomethane	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1

Client Sample ID: DG-AK15S-0.5-1
Date Collected: 01/23/19 14:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Ethylbenzene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Hexachlorobutadiene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Isopropylbenzene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Methylene Chloride	ND		8.7	4.3	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Methyl tert-butyl ether	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Naphthalene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
n-Butylbenzene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
N-Propylbenzene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
sec-Butylbenzene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Styrene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
tert-Butylbenzene	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Tetrachloroethene	**3.9**		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Toluene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
trans-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
trans-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Trichloroethene	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Trichlorofluoromethane	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.7	4.3	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Vinyl acetate	ND		6.9	3.5	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Vinyl chloride	ND		1.7	0.87	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Ethylene Dibromide	ND		0.87	0.43	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
2-Butanone (MEK)	ND		8.7	4.3	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.2	ug/Kg		01/23/19 19:00	01/30/19 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/23/19 19:00*	*01/30/19 20:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/23/19 19:00*	*01/30/19 20:19*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**11**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Acenaphthene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Acenaphthylene	**4.0**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Fluorene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Phenanthrene	**61**		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Anthracene	**3.9**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Benzo[a]anthracene	**17**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Chrysene	**30**		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Benzo[a]pyrene	**20**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Benzo[b]fluoranthene	**32**		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Benzo[k]fluoranthene	**9.2**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Benzo[g,h,i]perylene	**12**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Indeno[1,2,3-cd]pyrene	**12**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Fluoranthene	**35**		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Pyrene	**36**		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
Dibenz(a,h)anthracene	**4.5**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1
2-Methylnaphthalene	**9.6**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 19:53	1

Client Sample ID: DG-AK15S-0.5-1

Date Collected: 01/23/19 14:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*113*		*29 - 120*	*02/01/19 09:44*	*02/04/19 19:53*	*1*
Nitrobenzene-d5	*101*		*11 - 118*	*02/01/19 09:44*	*02/04/19 19:53*	*1*
Terphenyl-d14	*111*		*10 - 120*	*02/01/19 09:44*	*02/04/19 19:53*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**		5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 10:06	1
Motor Oil Range Organics [C24-C36]	**20**		5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 10:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*85*		*40 - 140*	*01/25/19 15:17*	*01/26/19 10:06*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:40	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*28 - 115*	*01/29/19 06:19*	*01/29/19 16:40*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*21 - 117*	*01/29/19 06:19*	*01/29/19 16:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:12	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:12	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:12	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:12	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:12	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:12	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:12	1

Client Sample ID: DG-AK15S-0.5-1

Date Collected: 01/23/19 14:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*01/29/19 06:19*	*01/29/19 16:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Arsenic	**5.3**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Barium	**140**		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Beryllium	**0.29**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Cobalt	**8.6**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Chromium	**52**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Copper	**120**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Nickel	**85**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Lead	**46**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Selenium	**1.7**	**J**	3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Vanadium	**32**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:14	5
Zinc	**140**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:14	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 20:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.9**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AK15S-3.5-4

Date Collected: 01/23/19 14:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/23/19 19:00	01/30/19 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/23/19 19:00*	*01/30/19 15:24*	*1*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*	*01/23/19 19:00*	*01/30/19 15:24*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/30/19 15:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,1,1-Trichloroethane	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,1,2-Trichloroethane	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,1-Dichloroethane	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,1-Dichloropropene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,2,4-Trichlorobenzene	ND		3.9	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,2-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,2-Dichloroethane	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,2-Dichloropropane	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,3-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,3-Dichloropropane	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,4-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
2-Hexanone	ND		7.9	3.9	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
4-Isopropyltoluene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Benzene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Bromoform	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Chlorobenzene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Chloroform	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
cis-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
cis-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Chlorodibromomethane	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Dibromomethane	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Dichlorobromomethane	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1

Client Sample ID: DG-AK15S-3.5-4

Date Collected: 01/23/19 14:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-8

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Ethylbenzene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Isopropylbenzene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Methylene Chloride	ND		7.9	3.9	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
N-Propylbenzene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Styrene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Tetrachloroethene	**11**		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Toluene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
trans-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
trans-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Trichloroethene	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	3.9	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
Ethylene Dibromide	ND		0.79	0.39	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
2-Butanone (MEK)	ND		7.9	3.9	ug/Kg		01/23/19 19:00	01/30/19 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/23/19 19:00	01/30/19 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/30/19 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*01/23/19 19:00*	*01/30/19 15:24*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Acenaphthene	ND		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Acenaphthylene	**190**	**J**	590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Fluorene	ND		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Phenanthrene	**150**	**J**	590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Anthracene	**89**	**J**	590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Benzo[a]anthracene	**230**	**J**	590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Chrysene	**600**		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Benzo[a]pyrene	**140**	**J**	590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Benzo[b]fluoranthene	**390**	**J**	590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Benzo[k]fluoranthene	**83**	**J**	590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Benzo[g,h,i]perylene	ND		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Indeno[1,2,3-cd]pyrene	ND		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Fluoranthene	**590**		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Pyrene	**850**		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
Dibenz(a,h)anthracene	ND		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10
2-Methylnaphthalene	ND		590	78	ug/Kg		02/01/19 09:44	02/04/19 20:17	10

Client Sample ID: DG-AK15S-3.5-4

Date Collected: 01/23/19 14:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*130*	*X*	*29 - 120*	*02/01/19 09:44*	*02/04/19 20:17*	*10*
Nitrobenzene-d5	*124*	*X*	*11 - 118*	*02/01/19 09:44*	*02/04/19 20:17*	*10*
Terphenyl-d14	*182*	*X*	*10 - 120*	*02/01/19 09:44*	*02/04/19 20:17*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**		9.8	4.9	mg/Kg		01/25/19 15:17	01/26/19 05:21	1
Motor Oil Range Organics [C24-C36]	**93**		9.8	4.9	mg/Kg		01/25/19 15:17	01/26/19 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*96*		*40 - 140*	*01/25/19 15:17*	*01/26/19 05:21*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 16:55	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*28 - 115*	*01/29/19 06:19*	*01/29/19 16:55*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*21 - 117*	*01/29/19 06:19*	*01/29/19 16:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:26	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:26	1

Client Sample ID: DG-AK15S-3.5-4

Date Collected: 01/23/19 14:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*01/29/19 06:19*	*01/29/19 16:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Arsenic	**7.8**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Barium	**100**		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Beryllium	**0.63**		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Cadmium	**1.8**		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Cobalt	**8.7**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Chromium	**34**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Copper	**43**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Nickel	**25**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Lead	**45**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Selenium	**1.7**	**J**	3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Vanadium	**37**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:16	5
Zinc	**660**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:16	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 20:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.1**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AM15S-0.5-1
Date Collected: 01/23/19 15:30
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Lab Sample ID: 720-90981-9
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		94	66	ug/Kg		01/23/19 19:00	01/30/19 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/23/19 19:00*	*01/30/19 15:48*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/23/19 19:00*	*01/30/19 15:48*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/23/19 19:00*	*01/30/19 15:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.4	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,1,1-Trichloroethane	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,1,2-Trichloroethane	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,1-Dichloroethane	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,1-Dichloropropene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,2,3-Trichlorobenzene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,2,4-Trichlorobenzene	ND		4.7	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,2,4-Trimethylbenzene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,2-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,2-Dichloroethane	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,2-Dichloropropane	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,3,5-Trimethylbenzene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,3-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,3-Dichloropropane	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,4-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
2-Chlorotoluene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
2-Hexanone	ND		9.4	4.7	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
4-Chlorotoluene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
4-Isopropyltoluene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Benzene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Bromobenzene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Bromoform	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Bromomethane	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Carbon disulfide	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Chlorobenzene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Chlorobromomethane	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Chloroethane	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Chloroform	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Chloromethane	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
cis-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
cis-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Chlorodibromomethane	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Dibromomethane	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Dichlorobromomethane	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1

Client Sample ID: DG-AM15S-0.5-1
Date Collected: 01/23/19 15:30
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Lab Sample ID: 720-90981-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Ethylbenzene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Hexachlorobutadiene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Isopropylbenzene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Methylene Chloride	ND		9.4	4.7	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Methyl tert-butyl ether	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Naphthalene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
n-Butylbenzene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
N-Propylbenzene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
sec-Butylbenzene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Styrene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
tert-Butylbenzene	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Tetrachloroethene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Toluene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
trans-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
trans-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Trichloroethene	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Trichlorofluoromethane	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**7.5**	**J**	9.4	4.7	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Vinyl acetate	ND		7.5	3.8	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Vinyl chloride	ND		1.9	0.94	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
Ethylene Dibromide	ND		0.94	0.47	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		01/23/19 19:00	01/30/19 15:48	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.3	ug/Kg		01/23/19 19:00	01/30/19 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/23/19 19:00*	*01/30/19 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/23/19 19:00*	*01/30/19 15:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**11**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Acenaphthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Fluorene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Phenanthrene	**15**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Benzo[a]anthracene	**9.1**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Chrysene	**12**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Benzo[a]pyrene	**8.4**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Benzo[b]fluoranthene	**16**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Benzo[k]fluoranthene	**4.6**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Benzo[g,h,i]perylene	**4.9**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Indeno[1,2,3-cd]pyrene	**4.7**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Fluoranthene	**16**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Pyrene	**15**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1
2-Methylnaphthalene	**8.4**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 20:41	1

Client Sample ID: DG-AM15S-0.5-1

Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*108*		*29 - 120*	*02/01/19 09:44*	*02/04/19 20:41*	*1*
Nitrobenzene-d5	*98*		*11 - 118*	*02/01/19 09:44*	*02/04/19 20:41*	*1*
Terphenyl-d14	*109*		*10 - 120*	*02/01/19 09:44*	*02/04/19 20:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.3**		4.9	2.4	mg/Kg		01/25/19 15:17	01/26/19 10:26	1
Motor Oil Range Organics [C24-C36]	**13**		4.9	2.4	mg/Kg		01/25/19 15:17	01/26/19 10:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*92*		*40 - 140*	*01/25/19 15:17*	*01/26/19 10:26*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:24	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*28 - 115*	*01/29/19 06:19*	*01/29/19 17:24*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*21 - 117*	*01/29/19 06:19*	*01/29/19 17:24*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:39	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:39	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:39	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:39	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:39	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:39	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 16:39	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AM15S-0.5-1
Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-9
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*01/29/19 06:19*	*01/29/19 16:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Arsenic	**7.4**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Barium	**30**		1.5	0.74	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Beryllium	**0.74**		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Cobalt	**12**		0.99	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Chromium	**30**		0.99	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Copper	**16**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Molybdenum	ND		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Nickel	**28**		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Lead	**4.3**		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Antimony	ND		9.9	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Thallium	ND		9.9	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Vanadium	**43**		0.99	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:39	5
Zinc	**42**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:39	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 20:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.1	%			01/29/19 19:05	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AM15S-3.5-4
Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-10
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	59	ug/Kg		01/23/19 19:00	01/30/19 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/23/19 19:00*	*01/30/19 16:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/23/19 19:00*	*01/30/19 16:13*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 16:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,1,1-Trichloroethane	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,1,2-Trichloroethane	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,1-Dichloroethane	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,1-Dichloropropene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,2,4-Trichlorobenzene	ND		4.2	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,2-Dichlorobenzene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,2-Dichloroethane	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,2-Dichloropropane	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,3-Dichlorobenzene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,3-Dichloropropane	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,4-Dichlorobenzene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
2-Hexanone	ND		8.5	4.2	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
4-Isopropyltoluene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Benzene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Bromobenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Bromoform	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Bromomethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Chlorobenzene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Chloroethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Chloroform	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Chloromethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
cis-1,2-Dichloroethene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
cis-1,3-Dichloropropene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Chlorodibromomethane	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Dibromomethane	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Dichlorobromomethane	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1

Client Sample ID: DG-AM15S-3.5-4
Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Ethylbenzene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Isopropylbenzene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Methylene Chloride	ND		8.5	4.2	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Naphthalene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
N-Propylbenzene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Styrene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Tetrachloroethene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Toluene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
trans-1,2-Dichloroethene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
trans-1,3-Dichloropropene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Trichloroethene	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.2	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
Ethylene Dibromide	ND		0.85	0.42	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
2-Butanone (MEK)	ND		8.5	4.2	ug/Kg		01/23/19 19:00	01/30/19 16:13	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		01/23/19 19:00	01/30/19 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/23/19 19:00*	*01/30/19 16:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/23/19 19:00*	*01/30/19 16:13*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Acenaphthene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Acenaphthylene	**7.5**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Fluorene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Phenanthrene	**23**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Anthracene	**9.8**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Benzo[a]anthracene	**39**		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Chrysene	**48**		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Benzo[a]pyrene	**49**		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Benzo[b]fluoranthene	**62**		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Benzo[k]fluoranthene	**21**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Benzo[g,h,i]perylene	**24**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Indeno[1,2,3-cd]pyrene	**25**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Fluoranthene	**54**		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Pyrene	**67**		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
Dibenz(a,h)anthracene	**7.4**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1
2-Methylnaphthalene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:06	1

Client Sample ID: DG-AM15S-3.5-4

Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-10

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	110		29 - 120	02/01/19 09:44	02/04/19 21:06	1
Nitrobenzene-d5	99		11 - 118	02/01/19 09:44	02/04/19 21:06	1
Terphenyl-d14	116		10 - 120	02/01/19 09:44	02/04/19 21:06	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		4.9	2.5	mg/Kg		01/25/19 15:17	01/26/19 11:47	1
Motor Oil Range Organics [C24-C36]	**18**		4.9	2.5	mg/Kg		01/25/19 15:17	01/26/19 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	89		40 - 140	01/25/19 15:17	01/26/19 11:47	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Dieldrin	**3.0**	**J p**	5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
4,4'-DDT	**7.4**	**p**	5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
4,4'-DDE	**27**		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
4,4'-DDD	**2.4**	**J p**	5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
delta-BHC	ND		10	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
Chlordane (technical)	ND		50	10	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:39	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		28 - 115	01/29/19 06:19	01/29/19 17:39	1
DCB Decachlorobiphenyl (Surr)	180	X	21 - 117	01/29/19 06:19	01/29/19 17:39	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:19	01/31/19 15:12	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:19	01/31/19 15:12	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:19	01/31/19 15:12	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:19	01/31/19 15:12	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:19	01/31/19 15:12	1
Aroclor 1254	**170**		50	17	ug/Kg		01/29/19 06:19	01/31/19 15:12	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:19	01/31/19 15:12	1

Client Sample ID: DG-AM15S-3.5-4

Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*221*	*X*	*45 - 120*	*01/29/19 06:19*	*01/31/19 15:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Arsenic	**5.3**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Barium	**110**	**F1**	1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Beryllium	**0.30**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Cadmium	**0.37**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Cobalt	**5.2**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Chromium	**66**	**F1**	1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Copper	**31**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Nickel	**31**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Lead	**180**	**F2 F1**	2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Vanadium	**28**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 10:58	5
Zinc	**130**	**F1**	5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 10:58	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.086**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 20:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DUP-113
Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-11
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		120	81	ug/Kg		01/23/19 19:00	01/30/19 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/23/19 19:00*	*01/30/19 16:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*	*01/23/19 19:00*	*01/30/19 16:38*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/23/19 19:00*	*01/30/19 16:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		12	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,1,1,2-Tetrachloroethane	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,1,1-Trichloroethane	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,1,2,2-Tetrachloroethane	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,1,2-Trichloroethane	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,1-Dichloroethane	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,1-Dichloroethene	ND		2.3	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,1-Dichloropropene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,2,3-Trichlorobenzene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,2,4-Trichlorobenzene	ND		5.8	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,2,4-Trimethylbenzene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,2-Dibromo-3-Chloropropane	ND		5.8	2.3	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,2-Dichlorobenzene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,2-Dichloroethane	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,2-Dichloropropane	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,3,5-Trimethylbenzene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,3-Dichlorobenzene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,3-Dichloropropane	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,4-Dichlorobenzene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
2,2-Dichloropropane	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
2-Chlorotoluene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
2-Hexanone	ND		12	5.8	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
4-Chlorotoluene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
4-Isopropyltoluene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Benzene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Bromobenzene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Bromoform	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Bromomethane	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Carbon disulfide	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Carbon tetrachloride	ND		2.3	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Chlorobenzene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Chlorobromomethane	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Chloroethane	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Chloroform	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Chloromethane	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
cis-1,2-Dichloroethene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
cis-1,3-Dichloropropene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Chlorodibromomethane	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Dibromomethane	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Dichlorobromomethane	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1

Client Sample ID: DUP-113

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Ethylbenzene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Hexachlorobutadiene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Isopropylbenzene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Methylene Chloride	ND		12	5.8	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Methyl tert-butyl ether	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Naphthalene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
n-Butylbenzene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
N-Propylbenzene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
sec-Butylbenzene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Styrene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
tert-Butylbenzene	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Tetrachloroethene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Toluene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
trans-1,2-Dichloroethene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
trans-1,3-Dichloropropene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Trichloroethene	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Trichlorofluoromethane	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	5.8	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Vinyl acetate	ND		9.3	4.6	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Vinyl chloride	ND		2.3	1.2	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Xylenes, Total	ND		2.3	1.5	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
Ethylene Dibromide	ND		1.2	0.58	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
2-Butanone (MEK)	ND		12	5.8	ug/Kg		01/23/19 19:00	01/30/19 16:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.8	2.9	ug/Kg		01/23/19 19:00	01/30/19 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/23/19 19:00*	*01/30/19 16:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/23/19 19:00*	*01/30/19 16:38*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Acenaphthene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Acenaphthylene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Fluorene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Phenanthrene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Anthracene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Benzo[a]anthracene	**4.1**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Chrysene	**5.2**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Benzo[a]pyrene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Benzo[b]fluoranthene	**4.8**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Benzo[k]fluoranthene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Benzo[g,h,i]perylene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Indeno[1,2,3-cd]pyrene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Fluoranthene	**7.4**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Pyrene	**18**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
Dibenz(a,h)anthracene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1
2-Methylnaphthalene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:26	1

Client Sample ID: DUP-113

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*109*		*29 - 120*	*02/01/19 09:44*	*02/04/19 17:26*	*1*
Nitrobenzene-d5	*102*		*11 - 118*	*02/01/19 09:44*	*02/04/19 17:26*	*1*
Terphenyl-d14	*105*		*10 - 120*	*02/01/19 09:44*	*02/04/19 17:26*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.1**		5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 13:08	1
Motor Oil Range Organics [C24-C36]	**4.1**	**J**	5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*92*		*40 - 140*	*01/25/19 15:17*	*01/26/19 13:08*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 17:53	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*28 - 115*	*01/29/19 06:19*	*01/29/19 17:53*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*21 - 117*	*01/29/19 06:19*	*01/29/19 17:53*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:06	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:06	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:06	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:06	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:06	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:06	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:06	1

Client Sample ID: DUP-113

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*01/29/19 06:19*	*01/29/19 17:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Arsenic	**7.8**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Barium	**88**		1.5	0.74	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Beryllium	**0.62**		0.49	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Cadmium	ND		0.49	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Cobalt	**8.1**		0.99	0.49	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Chromium	**48**		0.99	0.49	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Copper	**37**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Molybdenum	ND		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Nickel	**32**		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Lead	**21**		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Antimony	ND		9.9	4.9	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Thallium	ND		9.9	4.9	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Vanadium	**53**		0.99	0.49	mg/Kg		01/31/19 09:45	02/04/19 11:41	5
Zinc	**64**		4.9	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:41	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 21:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.0**		0.1	0.1	%			01/29/19 19:05	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DUP-96
Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	53	ug/Kg		01/23/19 19:00	01/30/19 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/23/19 19:00*	*01/30/19 17:02*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*	*01/23/19 19:00*	*01/30/19 17:02*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 17:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,1,1-Trichloroethane	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,1,2-Trichloroethane	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,1-Dichloroethane	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,1-Dichloropropene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,2,4-Trichlorobenzene	ND		3.8	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,2-Dichlorobenzene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,2-Dichloroethane	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,2-Dichloropropane	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,3-Dichlorobenzene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,3-Dichloropropane	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,4-Dichlorobenzene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
2-Hexanone	ND		7.5	3.8	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
4-Isopropyltoluene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Benzene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Bromobenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Bromoform	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Bromomethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Chlorobenzene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Chloroethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Chloroform	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Chloromethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
cis-1,2-Dichloroethene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
cis-1,3-Dichloropropene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Chlorodibromomethane	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Dibromomethane	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Dichlorobromomethane	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1

Client Sample ID: DUP-96
Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Ethylbenzene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Isopropylbenzene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Methylene Chloride	ND		7.5	3.8	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Naphthalene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
N-Propylbenzene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Styrene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Tetrachloroethene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Toluene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
trans-1,2-Dichloroethene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
trans-1,3-Dichloropropene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Trichloroethene	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.8	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Xylenes, Total	ND		1.5	0.98	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
Ethylene Dibromide	ND		0.75	0.38	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
2-Butanone (MEK)	ND		7.5	3.8	ug/Kg		01/23/19 19:00	01/30/19 17:02	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/23/19 19:00	01/30/19 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 17:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/23/19 19:00*	*01/30/19 17:02*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**4.0**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Acenaphthene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Acenaphthylene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Fluorene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Phenanthrene	**17**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Anthracene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Benzo[a]anthracene	**11**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Chrysene	**17**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Benzo[a]pyrene	**15**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Benzo[b]fluoranthene	**20**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Benzo[k]fluoranthene	**5.8**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Benzo[g,h,i]perylene	**11**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Indeno[1,2,3-cd]pyrene	**9.5**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Fluoranthene	**29**		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Pyrene	**36**		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
Dibenz(a,h)anthracene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1
2-Methylnaphthalene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 21:30	1

Client Sample ID: DUP-96

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*113*		*29 - 120*	*02/01/19 09:44*	*02/04/19 21:30*	*1*
Nitrobenzene-d5	*100*		*11 - 118*	*02/01/19 09:44*	*02/04/19 21:30*	*1*
Terphenyl-d14	*113*		*10 - 120*	*02/01/19 09:44*	*02/04/19 21:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**40**		5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 08:24	1
Motor Oil Range Organics [C24-C36]	**69**		5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*91*		*40 - 140*	*01/25/19 15:17*	*01/26/19 08:24*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:08	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*28 - 115*	*01/29/19 06:19*	*01/29/19 18:08*	*1*
DCB Decachlorobiphenyl (Surr)	*274*	*X*	*21 - 117*	*01/29/19 06:19*	*01/29/19 18:08*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:20	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:20	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:20	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:20	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:20	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:20	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:20	1

Client Sample ID: DUP-96

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/29/19 06:19*	*01/29/19 17:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Arsenic	**8.7**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Barium	**120**		1.5	0.74	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Beryllium	**0.47**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Cobalt	**11**		0.99	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Chromium	**150**		0.99	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Copper	**43**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Molybdenum	ND		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Nickel	**28**		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Lead	**51**		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Antimony	ND		9.9	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Thallium	ND		9.9	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Vanadium	**51**		0.99	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:44	5
Zinc	**170**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:44	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 21:02	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.9**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AX9S-0.5-1

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		68	48	ug/Kg		01/23/19 19:00	01/30/19 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/23/19 19:00*	*01/30/19 17:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/23/19 19:00*	*01/30/19 17:27*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/23/19 19:00*	*01/30/19 17:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.8	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,1,1-Trichloroethane	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,1,2-Trichloroethane	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,1-Dichloroethane	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,1-Dichloropropene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,2,3-Trichlorobenzene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,2,4-Trichlorobenzene	ND		3.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,2,4-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,2-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,2-Dichloroethane	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,2-Dichloropropane	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,3,5-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,3-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,3-Dichloropropane	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,4-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
2,2-Dichloropropane	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
2-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
2-Hexanone	ND		6.8	3.4	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
4-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
4-Isopropyltoluene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Benzene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Bromobenzene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Bromoform	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Bromomethane	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Carbon disulfide	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Chlorobenzene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Chlorobromomethane	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Chloroethane	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Chloroform	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Chloromethane	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
cis-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
cis-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Chlorodibromomethane	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Dibromomethane	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Dichlorobromomethane	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1

Client Sample ID: DG-AX9S-0.5-1
Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Ethylbenzene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Hexachlorobutadiene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Isopropylbenzene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Methylene Chloride	ND		6.8	3.4	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Methyl tert-butyl ether	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Naphthalene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
n-Butylbenzene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
N-Propylbenzene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
sec-Butylbenzene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Styrene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
tert-Butylbenzene	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Tetrachloroethene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Toluene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
trans-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
trans-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Trichloroethene	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Trichlorofluoromethane	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	3.4	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Vinyl chloride	ND		1.4	0.68	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Xylenes, Total	ND		1.4	0.89	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
Ethylene Dibromide	ND		0.68	0.34	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
2-Butanone (MEK)	**10**		6.8	3.4	ug/Kg		01/23/19 19:00	01/30/19 17:27	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/23/19 19:00	01/30/19 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/23/19 19:00*	*01/30/19 17:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/23/19 19:00*	*01/30/19 17:27*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**22**	**J**	58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Acenaphthene	**17**	**J**	58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Acenaphthylene	**30**	**J**	58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Fluorene	**26**	**J**	58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Phenanthrene	**180**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Anthracene	**30**	**J**	58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Benzo[a]anthracene	**120**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Chrysene	**150**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Benzo[a]pyrene	**200**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Benzo[b]fluoranthene	**220**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Benzo[k]fluoranthene	**63**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Benzo[g,h,i]perylene	**160**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Indeno[1,2,3-cd]pyrene	**130**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Fluoranthene	**290**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Pyrene	**360**		58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
Dibenz(a,h)anthracene	**19**	**J**	58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1
2-Methylnaphthalene	**32**	**J**	58	7.8	ug/Kg		02/01/19 09:44	02/04/19 21:55	1

Client Sample ID: DG-AX9S-0.5-1

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*114*		*29 - 120*	*02/01/19 09:44*	*02/04/19 21:55*	*1*
Nitrobenzene-d5	*103*		*11 - 118*	*02/01/19 09:44*	*02/04/19 21:55*	*1*
Terphenyl-d14	*138*	*X*	*10 - 120*	*02/01/19 09:44*	*02/04/19 21:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**34**		9.8	4.9	mg/Kg		01/25/19 15:17	01/26/19 05:41	1
Motor Oil Range Organics [C24-C36]	**66**		9.8	4.9	mg/Kg		01/25/19 15:17	01/26/19 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*95*		*40 - 140*	*01/25/19 15:17*	*01/26/19 05:41*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 18:37	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*28 - 115*	*01/29/19 06:19*	*01/29/19 18:37*	*1*
DCB Decachlorobiphenyl (Surr)	*50*		*21 - 117*	*01/29/19 06:19*	*01/29/19 18:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:34	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:34	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:34	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:34	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:34	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:34	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 17:34	1

Client Sample ID: DG-AX9S-0.5-1

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/29/19 06:19*	*01/29/19 17:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Arsenic	**7.3**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Barium	**120**		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Beryllium	**0.61**		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Cobalt	**14**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Chromium	**71**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Copper	**36**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Nickel	**80**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Lead	**28**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Vanadium	**45**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:46	5
Zinc	**60**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:46	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 21:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.6**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AX9S-3.5-4
Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-14
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	60	ug/Kg		01/23/19 19:00	01/30/19 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/23/19 19:00*	*01/30/19 17:51*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/23/19 19:00*	*01/30/19 17:51*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 17:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,1,1-Trichloroethane	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,1,2-Trichloroethane	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,1-Dichloroethane	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,1-Dichloropropene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,2,4-Trichlorobenzene	ND		4.3	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,2-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,2-Dichloroethane	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,2-Dichloropropane	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,3-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,3-Dichloropropane	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,4-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
2-Hexanone	ND		8.5	4.3	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
4-Isopropyltoluene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Benzene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Bromobenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Bromoform	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Bromomethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Chlorobenzene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Chloroethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Chloroform	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Chloromethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
cis-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
cis-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Chlorodibromomethane	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Dibromomethane	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Dichlorobromomethane	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1

Client Sample ID: DG-AX9S-3.5-4
Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-14
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Ethylbenzene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Isopropylbenzene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Methylene Chloride	ND		8.5	4.3	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Naphthalene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
N-Propylbenzene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Styrene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Tetrachloroethene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Toluene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
trans-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
trans-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Trichloroethene	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.3	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
Ethylene Dibromide	ND		0.85	0.43	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
2-Butanone (MEK)	**7.5**	**J**	8.5	4.3	ug/Kg		01/23/19 19:00	01/30/19 17:51	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		01/23/19 19:00	01/30/19 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/23/19 19:00*	*01/30/19 17:51*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**96**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Acenaphthene	**150**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Acenaphthylene	**130**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Fluorene	**82**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Phenanthrene	**1000**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Anthracene	**150**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Benzo[a]anthracene	**500**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Chrysene	**690**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Benzo[a]pyrene	**830**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Benzo[b]fluoranthene	**790**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Benzo[k]fluoranthene	**290**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Benzo[g,h,i]perylene	**810**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Indeno[1,2,3-cd]pyrene	**720**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Fluoranthene	**1500**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Pyrene	**1800**		290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
Dibenz(a,h)anthracene	**73**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5
2-Methylnaphthalene	**45**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 11:15	5

Client Sample ID: DG-AX9S-3.5-4

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*29 - 120*	*02/01/19 09:44*	*02/06/19 11:15*	*5*
Nitrobenzene-d5	*82*		*11 - 118*	*02/01/19 09:44*	*02/06/19 11:15*	*5*
Terphenyl-d14	*98*		*10 - 120*	*02/01/19 09:44*	*02/06/19 11:15*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**590**		9.9	5.0	mg/Kg		01/25/19 15:17	01/26/19 06:22	1
Motor Oil Range Organics [C24-C36]	**930**		9.9	5.0	mg/Kg		01/25/19 15:17	01/26/19 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*40 - 140*	*01/25/19 15:17*	*01/26/19 06:22*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
delta-BHC	ND		10	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
Chlordane (technical)	ND		50	10	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:07	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*28 - 115*	*01/29/19 06:19*	*01/29/19 19:07*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*21 - 117*	*01/29/19 06:19*	*01/29/19 19:07*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 17:47	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 17:47	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 17:47	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 17:47	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 17:47	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 17:47	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 17:47	1

Client Sample ID: DG-AX9S-3.5-4

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*45 - 120*	*01/29/19 06:19*	*01/29/19 17:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Arsenic	**3.5**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Barium	**76**		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Beryllium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Cobalt	**7.0**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Chromium	**29**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Copper	**21**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Nickel	**50**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Lead	**50**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Vanadium	**36**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:49	5
Zinc	**55**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:49	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.071**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 21:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AX9S-9.5-10

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		93	65	ug/Kg		01/23/19 19:00	01/30/19 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/23/19 19:00*	*01/30/19 18:16*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/23/19 19:00*	*01/30/19 18:16*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.3	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,1,1-Trichloroethane	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,1,2-Trichloroethane	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,1-Dichloroethane	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,1-Dichloropropene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,2,3-Trichlorobenzene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,2,4-Trichlorobenzene	ND		4.7	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,2,4-Trimethylbenzene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,2-Dichlorobenzene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,2-Dichloroethane	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,2-Dichloropropane	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,3,5-Trimethylbenzene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,3-Dichlorobenzene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,3-Dichloropropane	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,4-Dichlorobenzene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
2,2-Dichloropropane	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
2-Chlorotoluene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
2-Hexanone	ND		9.3	4.7	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
4-Chlorotoluene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
4-Isopropyltoluene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Benzene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Bromobenzene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Bromoform	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Bromomethane	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Carbon disulfide	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Chlorobenzene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Chlorobromomethane	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Chloroethane	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Chloroform	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Chloromethane	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
cis-1,2-Dichloroethene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
cis-1,3-Dichloropropene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Chlorodibromomethane	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Dibromomethane	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Dichlorobromomethane	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1

Client Sample ID: DG-AX9S-9.5-10

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Ethylbenzene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Hexachlorobutadiene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Isopropylbenzene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Methylene Chloride	ND		9.3	4.7	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Methyl tert-butyl ether	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Naphthalene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
n-Butylbenzene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
N-Propylbenzene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
sec-Butylbenzene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Styrene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
tert-Butylbenzene	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Tetrachloroethene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Toluene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
trans-1,2-Dichloroethene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
trans-1,3-Dichloropropene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Trichloroethene	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Trichlorofluoromethane	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.3	4.7	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Vinyl acetate	ND		7.5	3.7	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Vinyl chloride	ND		1.9	0.93	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
Ethylene Dibromide	ND		0.93	0.47	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
2-Butanone (MEK)	ND		9.3	4.7	ug/Kg		01/23/19 19:00	01/30/19 18:16	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.3	ug/Kg		01/23/19 19:00	01/30/19 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/23/19 19:00*	*01/30/19 18:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**5.7**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Acenaphthene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Acenaphthylene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Fluorene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Phenanthrene	**12**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Anthracene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Benzo[a]anthracene	**5.9**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Chrysene	**11**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Benzo[a]pyrene	**8.7**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Benzo[b]fluoranthene	**12**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Benzo[k]fluoranthene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Benzo[g,h,i]perylene	**10**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Indeno[1,2,3-cd]pyrene	**9.6**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Fluoranthene	**19**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Pyrene	**21**	**J**	30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
Dibenz(a,h)anthracene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1
2-Methylnaphthalene	ND		30	3.9	ug/Kg		02/01/19 09:44	02/04/19 17:50	1

Client Sample ID: DG-AX9S-9.5-10

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*106*		*29 - 120*	*02/01/19 09:44*	*02/04/19 17:50*	*1*
Nitrobenzene-d5	*96*		*11 - 118*	*02/01/19 09:44*	*02/04/19 17:50*	*1*
Terphenyl-d14	*101*		*10 - 120*	*02/01/19 09:44*	*02/04/19 17:50*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.7**		4.9	2.5	mg/Kg		01/25/19 15:17	01/26/19 09:46	1
Motor Oil Range Organics [C24-C36]	**6.7**		4.9	2.5	mg/Kg		01/25/19 15:17	01/26/19 09:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*01/25/19 15:17*	*01/26/19 09:46*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 19:36	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*28 - 115*	*01/29/19 06:19*	*01/29/19 19:36*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*21 - 117*	*01/29/19 06:19*	*01/29/19 19:36*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:01	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:01	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:01	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:01	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:01	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:01	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:01	1

Client Sample ID: DG-AX9S-9.5-10

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*45 - 120*	*01/29/19 06:19*	*01/29/19 18:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.7		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Arsenic	24		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Barium	320		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Beryllium	0.85		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Cadmium	2.6		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Cobalt	8.1		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Chromium	87		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Copper	440		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Molybdenum	1.0	J	2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Nickel	47		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Lead	2200		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Antimony	16		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Selenium	2.2	J	3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Vanadium	46		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:51	5
Zinc	1400		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:51	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.6		0.40	0.24	mg/Kg		01/30/19 12:50	01/31/19 01:15	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.8		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AU11S-0.5-1

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	52	ug/Kg		01/23/19 19:00	01/30/19 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/23/19 19:00*	*01/30/19 18:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/23/19 19:00*	*01/30/19 18:40*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,1,1-Trichloroethane	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
2-Hexanone	ND		7.5	3.7	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
4-Isopropyltoluene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Benzene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Bromobenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Bromoform	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Bromomethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Chloroethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Chloroform	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Chloromethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Dibromomethane	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1

Client Sample ID: DG-AU11S-0.5-1

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-16

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Naphthalene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
N-Propylbenzene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Styrene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Tetrachloroethene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Toluene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Trichloroethene	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		01/23/19 19:00	01/30/19 18:40	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/23/19 19:00	01/30/19 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/23/19 19:00*	*01/30/19 18:40*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Acenaphthene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Acenaphthylene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Fluorene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Phenanthrene	**7.9**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Anthracene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Benzo[a]anthracene	**8.6**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Chrysene	**14**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Benzo[a]pyrene	**10**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Benzo[b]fluoranthene	**18**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Benzo[k]fluoranthene	**5.2**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Benzo[g,h,i]perylene	**7.8**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Indeno[1,2,3-cd]pyrene	**6.5**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Fluoranthene	**16**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Pyrene	**17**	**J**	29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
Dibenz(a,h)anthracene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1
2-Methylnaphthalene	ND		29	3.9	ug/Kg		02/01/19 09:44	02/04/19 22:44	1

Client Sample ID: DG-AU11S-0.5-1

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*108*		*29 - 120*	*02/01/19 09:44*	*02/04/19 22:44*	*1*
Nitrobenzene-d5	*98*		*11 - 118*	*02/01/19 09:44*	*02/04/19 22:44*	*1*
Terphenyl-d14	*132*	*X*	*10 - 120*	*02/01/19 09:44*	*02/04/19 22:44*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**33**		9.9	5.0	mg/Kg		01/25/19 15:17	01/26/19 06:42	1
Motor Oil Range Organics [C24-C36]	**83**		9.9	5.0	mg/Kg		01/25/19 15:17	01/26/19 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*96*		*40 - 140*	*01/25/19 15:17*	*01/26/19 06:42*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Endrin ketone	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Heptachlor	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
delta-BHC	ND		9.7	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Toxaphene	ND		190	49	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
Chlordane (technical)	ND		49	9.7	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/29/19 19:51	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*28 - 115*	*01/29/19 06:19*	*01/29/19 19:51*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*21 - 117*	*01/29/19 06:19*	*01/29/19 19:51*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:14	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:14	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:14	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:14	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:14	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:14	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/29/19 18:14	1

Client Sample ID: DG-AU11S-0.5-1

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*01/29/19 06:19*	*01/29/19 18:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Arsenic	**5.5**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Barium	**84**		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Beryllium	**0.50**		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Cobalt	**9.6**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Chromium	**54**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Copper	**22**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Nickel	**32**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Lead	**12**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Vanadium	**50**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:54	5
Zinc	**49**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:54	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 21:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AU11S-3.5-4
Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-17
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		70	49	ug/Kg		01/23/19 19:00	01/30/19 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/23/19 19:00*	*01/30/19 19:16*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/23/19 19:00*	*01/30/19 19:16*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/23/19 19:00*	*01/30/19 19:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.0	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,1,1-Trichloroethane	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,1,2-Trichloroethane	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,1-Dichloroethane	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,1-Dichloropropene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,2,3-Trichlorobenzene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,2,4-Trichlorobenzene	ND		3.5	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,2,4-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,2-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,2-Dichloroethane	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,2-Dichloropropane	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,3,5-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,3-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,3-Dichloropropane	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,4-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
2,2-Dichloropropane	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
2-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
2-Hexanone	ND		7.0	3.5	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
4-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
4-Isopropyltoluene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Benzene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Bromobenzene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Bromoform	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Bromomethane	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Carbon disulfide	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Chlorobenzene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Chlorobromomethane	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Chloroethane	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Chloroform	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Chloromethane	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
cis-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
cis-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Chlorodibromomethane	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Dibromomethane	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Dichlorobromomethane	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1

Client Sample ID: DG-AU11S-3.5-4
Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-17
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Ethylbenzene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Hexachlorobutadiene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Isopropylbenzene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Methylene Chloride	ND		7.0	3.5	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Methyl tert-butyl ether	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Naphthalene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
n-Butylbenzene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
N-Propylbenzene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
sec-Butylbenzene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Styrene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
tert-Butylbenzene	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Tetrachloroethene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Toluene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
trans-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
trans-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Trichloroethene	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Trichlorofluoromethane	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.0	3.5	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Vinyl chloride	ND		1.4	0.70	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Xylenes, Total	ND		1.4	0.91	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
Ethylene Dibromide	ND		0.70	0.35	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
2-Butanone (MEK)	**5.3**	**J**	7.0	3.5	ug/Kg		01/23/19 19:00	01/30/19 19:16	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		01/23/19 19:00	01/30/19 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/23/19 19:00*	*01/30/19 19:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*01/23/19 19:00*	*01/30/19 19:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**10**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Acenaphthene	**12**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Acenaphthylene	**43**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Fluorene	**13**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Phenanthrene	**160**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Anthracene	**42**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Benzo[a]anthracene	**280**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Chrysene	**360**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Benzo[a]pyrene	**240**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Benzo[b]fluoranthene	**400**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Benzo[k]fluoranthene	**160**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Benzo[g,h,i]perylene	**100**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Indeno[1,2,3-cd]pyrene	**130**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Fluoranthene	**380**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Pyrene	**340**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
Dibenz(a,h)anthracene	**33**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1
2-Methylnaphthalene	**6.8**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 23:08	1

Client Sample ID: DG-AU11S-3.5-4

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-17

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	109		29 - 120	02/01/19 09:44	02/04/19 23:08	1
Nitrobenzene-d5	99		11 - 118	02/01/19 09:44	02/04/19 23:08	1
Terphenyl-d14	142	X	10 - 120	02/01/19 09:44	02/04/19 23:08	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**26**		9.9	5.0	mg/Kg		01/25/19 15:17	01/26/19 07:02	1
Motor Oil Range Organics [C24-C36]	**39**		9.9	5.0	mg/Kg		01/25/19 15:17	01/26/19 07:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	89		40 - 140	01/25/19 15:17	01/26/19 07:02	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Dieldrin	**11**	**p**	4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
4,4'-DDT	**39**		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
4,4'-DDE	**15**		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
4,4'-DDD	**1.5**	**J p**	4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/30/19 16:00	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		28 - 115	01/29/19 06:19	01/30/19 16:00	1
DCB Decachlorobiphenyl (Surr)	283	X	21 - 117	01/29/19 06:19	01/30/19 16:00	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:40	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:40	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:40	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:40	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:40	1

Client Sample ID: DG-AU11S-3.5-4

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*311*	*X*	*45 - 120*	*01/29/19 06:19*	*01/31/19 15:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	**760**		250	84	ug/Kg		01/29/19 06:19	01/31/19 15:53	5
Aroclor 1260	**560**		250	84	ug/Kg		01/29/19 06:19	01/31/19 15:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*347*	*X*	*45 - 120*	*01/29/19 06:19*	*01/31/19 15:53*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Arsenic	**4.7**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Barium	**97**		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Beryllium	**0.43**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Cobalt	**9.7**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Chromium	**49**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Copper	**24**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Nickel	**29**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Lead	**11**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Vanadium	**49**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:57	5
Zinc	**46**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 11:57	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.4**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AU11S-9.5-10

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-18

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		89	62	ug/Kg		01/23/19 19:00	01/30/19 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/23/19 19:00*	*01/30/19 19:53*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*01/23/19 19:00*	*01/30/19 19:53*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*	*01/23/19 19:00*	*01/30/19 19:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.9	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,1,1-Trichloroethane	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,1,2-Trichloroethane	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,1-Dichloroethane	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,1-Dichloropropene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,2,3-Trichlorobenzene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,2,4-Trichlorobenzene	ND		4.4	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,2,4-Trimethylbenzene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,2-Dichlorobenzene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,2-Dichloroethane	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,2-Dichloropropane	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,3,5-Trimethylbenzene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,3-Dichlorobenzene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,3-Dichloropropane	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,4-Dichlorobenzene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
2,2-Dichloropropane	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
2-Chlorotoluene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
2-Hexanone	ND		8.9	4.4	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
4-Chlorotoluene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
4-Isopropyltoluene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Benzene	**2.3**		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Bromobenzene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Bromoform	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Bromomethane	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Carbon disulfide	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Chlorobenzene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Chlorobromomethane	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Chloroethane	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Chloroform	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Chloromethane	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
cis-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
cis-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Chlorodibromomethane	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Dibromomethane	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Dichlorobromomethane	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1

Client Sample ID: DG-AU11S-9.5-10

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-18

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Ethylbenzene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Hexachlorobutadiene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Isopropylbenzene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Methylene Chloride	ND		8.9	4.4	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Methyl tert-butyl ether	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Naphthalene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
n-Butylbenzene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
N-Propylbenzene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
sec-Butylbenzene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Styrene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
tert-Butylbenzene	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Tetrachloroethene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Toluene	**0.62**	**J**	0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
trans-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
trans-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Trichloroethene	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Trichlorofluoromethane	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.9	4.4	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Vinyl acetate	ND		7.1	3.6	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Vinyl chloride	ND		1.8	0.89	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
Ethylene Dibromide	ND		0.89	0.44	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
2-Butanone (MEK)	**5.6**	**J**	8.9	4.4	ug/Kg		01/23/19 19:00	01/30/19 19:53	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/23/19 19:00	01/30/19 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*79 - 123*	*01/23/19 19:00*	*01/30/19 19:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*01/23/19 19:00*	*01/30/19 19:53*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**36**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Acenaphthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Fluorene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Phenanthrene	**47**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Benzo[a]anthracene	**110**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Chrysene	**130**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Benzo[a]pyrene	**120**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Benzo[b]fluoranthene	**170**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Benzo[k]fluoranthene	**64**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Benzo[g,h,i]perylene	**67**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Indeno[1,2,3-cd]pyrene	**84**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Fluoranthene	**120**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Pyrene	**120**		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
Dibenz(a,h)anthracene	**25**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1
2-Methylnaphthalene	**4.6**	**J**	30	4.0	ug/Kg		02/01/19 09:44	02/04/19 18:15	1

Client Sample ID: DG-AU11S-9.5-10

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*102*		*29 - 120*	*02/01/19 09:44*	*02/04/19 18:15*	*1*
Nitrobenzene-d5	*98*		*11 - 118*	*02/01/19 09:44*	*02/04/19 18:15*	*1*
Terphenyl-d14	*108*		*10 - 120*	*02/01/19 09:44*	*02/04/19 18:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		4.9	2.4	mg/Kg		01/25/19 15:17	01/26/19 11:07	1
Motor Oil Range Organics [C24-C36]	**9.3**		4.9	2.4	mg/Kg		01/25/19 15:17	01/26/19 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*40 - 140*	*01/25/19 15:17*	*01/26/19 11:07*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:19	01/29/19 20:20	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/29/19 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*28 - 115*	*01/29/19 06:19*	*01/29/19 20:20*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*21 - 117*	*01/29/19 06:19*	*01/29/19 20:20*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:26	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:26	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:26	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:26	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:26	1
Aroclor 1254	**22**	**J**	49	17	ug/Kg		01/29/19 06:19	01/31/19 15:26	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 15:26	1

Client Sample ID: DG-AU11S-9.5-10

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*	*01/29/19 06:19*	*01/31/19 15:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**31**		3.0	1.8	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Arsenic	**40**		6.0	3.0	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Barium	**990**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Beryllium	ND		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Cadmium	**4.1**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Cobalt	**6.4**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Chromium	**1200**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Copper	**2900**		4.0	2.2	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Molybdenum	**3.8**	**J**	4.0	2.0	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Nickel	**56**		4.0	2.0	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Lead	**8400**	**^**	8.0	4.0	mg/Kg		01/31/19 09:45	02/04/19 12:44	20
Antimony	**58**		20	10	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Selenium	**4.7**	**J**	6.0	3.4	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Thallium	ND		20	10	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Vanadium	**15**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 11:59	10
Zinc	**2900**		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 11:59	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**11**		0.40	0.24	mg/Kg		01/30/19 12:50	01/31/19 01:09	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.9**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AW11S-0.5-1

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-19

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		80	56	ug/Kg		01/23/19 19:00	01/30/19 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/23/19 19:00*	*01/30/19 20:19*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*01/23/19 19:00*	*01/30/19 20:19*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/23/19 19:00*	*01/30/19 20:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
2-Hexanone	ND		8.0	4.0	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Benzene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Bromobenzene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Bromoform	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Bromomethane	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Carbon disulfide	**1.7**		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chloroethane	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chloroform	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chloromethane	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Dibromomethane	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1

Client Sample ID: DG-AW11S-0.5-1

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-19

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Naphthalene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Styrene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Tetrachloroethene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Toluene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Trichloroethene	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
2-Butanone (MEK)	**32**		8.0	4.0	ug/Kg		01/23/19 19:00	01/30/19 20:19	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/23/19 19:00	01/30/19 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/23/19 19:00*	*01/30/19 20:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/23/19 19:00*	*01/30/19 20:19*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Acenaphthene	ND		59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Acenaphthylene	ND		59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Fluorene	ND		59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Phenanthrene	**36**	**J**	59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Anthracene	ND		59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Benzo[a]anthracene	**27**	**J**	59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Chrysene	**41**	**J**	59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Benzo[a]pyrene	**39**	**J**	59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Benzo[b]fluoranthene	**47**	**J**	59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Benzo[k]fluoranthene	**15**	**J**	59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Benzo[g,h,i]perylene	**38**	**J**	59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Indeno[1,2,3-cd]pyrene	**29**	**J**	59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Fluoranthene	**61**		59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Pyrene	**66**		59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
Dibenz(a,h)anthracene	ND		59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1
2-Methylnaphthalene	ND		59	7.9	ug/Kg		02/01/19 09:44	02/06/19 11:38	1

Client Sample ID: DG-AW11S-0.5-1

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-19

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		29 - 120	02/01/19 09:44	02/06/19 11:38	1
Nitrobenzene-d5	85		11 - 118	02/01/19 09:44	02/06/19 11:38	1
Terphenyl-d14	98		10 - 120	02/01/19 09:44	02/06/19 11:38	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**		9.8	4.9	mg/Kg		01/25/19 15:17	01/26/19 08:44	1
Motor Oil Range Organics [C24-C36]	**180**		9.8	4.9	mg/Kg		01/25/19 15:17	01/26/19 08:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	89		40 - 140	01/25/19 15:17	01/26/19 08:44	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Endrin aldehyde	**1.9**	**J p**	4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Endrin ketone	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Heptachlor	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
4,4'-DDT	**14**		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
delta-BHC	ND		9.7	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Toxaphene	ND		190	49	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
Chlordane (technical)	ND		49	9.7	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:30	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		28 - 115	01/29/19 06:19	01/30/19 16:30	1
DCB Decachlorobiphenyl (Surr)	72		21 - 117	01/29/19 06:19	01/30/19 16:30	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 16:07	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 16:07	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 16:07	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 16:07	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 16:07	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:19	01/31/19 16:07	1
Aroclor 1260	**230**		49	17	ug/Kg		01/29/19 06:19	01/31/19 16:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AW11S-0.5-1

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*01/29/19 06:19*	*01/31/19 16:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Arsenic	**8.3**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Barium	**73**		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Beryllium	**0.69**		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Cobalt	**12**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Chromium	**170**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Copper	**44**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Nickel	**30**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Lead	**41**	^	2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Vanadium	**46**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:26	5
Zinc	**120**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 12:26	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 21:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.6**		0.1	0.1	%			01/29/19 19:05	1

Client Sample ID: DG-AW11S-3.5-4

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND	H	86	60	ug/Kg		01/23/19 19:00	01/31/19 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/23/19 19:00*	*01/31/19 11:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/23/19 19:00*	*01/31/19 11:54*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/31/19 11:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND	H	8.6	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,1,1,2-Tetrachloroethane	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,1,1-Trichloroethane	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,1,2,2-Tetrachloroethane	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,1,2-Trichloroethane	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,1-Dichloroethane	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,1-Dichloroethene	ND	H	1.7	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,1-Dichloropropene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,2,3-Trichlorobenzene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,2,4-Trichlorobenzene	ND	H	4.3	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,2,4-Trimethylbenzene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,2-Dibromo-3-Chloropropane	ND	H	4.3	1.7	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,2-Dichlorobenzene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,2-Dichloroethane	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,2-Dichloropropane	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,3,5-Trimethylbenzene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,3-Dichlorobenzene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,3-Dichloropropane	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,4-Dichlorobenzene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
2,2-Dichloropropane	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
2-Chlorotoluene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
2-Hexanone	ND	H	8.6	4.3	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
4-Chlorotoluene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
4-Isopropyltoluene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Benzene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Bromobenzene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Bromoform	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Bromomethane	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Carbon disulfide	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Carbon tetrachloride	ND	H	1.7	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Chlorobenzene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Chlorobromomethane	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Chloroethane	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Chloroform	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Chloromethane	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
cis-1,2-Dichloroethene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
cis-1,3-Dichloropropene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Chlorodibromomethane	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Dibromomethane	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Dichlorobromomethane	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1

Client Sample ID: DG-AW11S-3.5-4
Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Ethylbenzene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Hexachlorobutadiene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Isopropylbenzene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Methylene Chloride	ND	H	8.6	4.3	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Methyl tert-butyl ether	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Naphthalene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
n-Butylbenzene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
N-Propylbenzene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
sec-Butylbenzene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Styrene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
tert-Butylbenzene	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Tetrachloroethene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Toluene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
trans-1,2-Dichloroethene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
trans-1,3-Dichloropropene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Trichloroethene	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Trichlorofluoromethane	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	8.6	4.3	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Vinyl acetate	ND	H	6.9	3.4	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Vinyl chloride	ND	H	1.7	0.86	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Xylenes, Total	ND	H	1.7	1.1	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
Ethylene Dibromide	ND	H	0.86	0.43	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
2-Butanone (MEK)	**77**	**H**	8.6	4.3	ug/Kg		01/23/19 19:00	01/31/19 11:54	1
4-Methyl-2-pentanone (MIBK)	ND	H	4.3	2.2	ug/Kg		01/23/19 19:00	01/31/19 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/31/19 11:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/23/19 19:00*	*01/31/19 11:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Acenaphthene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Acenaphthylene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Fluorene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Phenanthrene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Anthracene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Benzo[a]anthracene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Chrysene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Benzo[a]pyrene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Benzo[b]fluoranthene	**40**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Benzo[k]fluoranthene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Benzo[g,h,i]perylene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Indeno[1,2,3-cd]pyrene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Fluoranthene	**45**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Pyrene	**44**	**J**	290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
Dibenz(a,h)anthracene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5
2-Methylnaphthalene	ND		290	39	ug/Kg		02/01/19 09:44	02/06/19 12:01	5

Client Sample ID: DG-AW11S-3.5-4

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-20

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		29 - 120	02/01/19 09:44	02/06/19 12:01	5
Nitrobenzene-d5	86		11 - 118	02/01/19 09:44	02/06/19 12:01	5
Terphenyl-d14	101		10 - 120	02/01/19 09:44	02/06/19 12:01	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**47**		10	5.0	mg/Kg		01/25/19 15:17	01/26/19 09:05	1
Motor Oil Range Organics [C24-C36]	**84**		10	5.0	mg/Kg		01/25/19 15:17	01/26/19 09:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	90		40 - 140	01/25/19 15:17	01/26/19 09:05	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Dieldrin	**2.4**	**J**	4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Endrin aldehyde	**1.7**	**J**	4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Endrin ketone	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Heptachlor	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
4,4'-DDT	**4.7**	**J**	4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
4,4'-DDE	**27**		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
delta-BHC	ND		9.7	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Toxaphene	ND		190	49	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
Chlordane (technical)	ND		49	9.7	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		01/29/19 06:19	01/30/19 16:59	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:19	01/30/19 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		28 - 115	01/29/19 06:19	01/30/19 16:59	1
DCB Decachlorobiphenyl (Surr)	115		21 - 117	01/29/19 06:19	01/30/19 16:59	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	16	ug/Kg		01/29/19 06:19	01/31/19 16:20	1
Aroclor 1221	ND		49	16	ug/Kg		01/29/19 06:19	01/31/19 16:20	1
Aroclor 1232	ND		49	16	ug/Kg		01/29/19 06:19	01/31/19 16:20	1
Aroclor 1242	ND		49	16	ug/Kg		01/29/19 06:19	01/31/19 16:20	1
Aroclor 1248	ND		49	16	ug/Kg		01/29/19 06:19	01/31/19 16:20	1
Aroclor 1254	ND		49	16	ug/Kg		01/29/19 06:19	01/31/19 16:20	1
Aroclor 1260	**66**		49	16	ug/Kg		01/29/19 06:19	01/31/19 16:20	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AW11S-3.5-4

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*101*		*45 - 120*	*01/29/19 06:19*	*01/31/19 16:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Arsenic	**4.9**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Barium	**150**		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Beryllium	**0.38**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Cobalt	**6.1**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Chromium	**780**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Copper	**49**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Nickel	**24**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Lead	**59**	**^**	2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Vanadium	**35**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:29	5
Zinc	**200**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 12:29	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.020	0.012	mg/Kg		01/30/19 12:53	01/30/19 22:17	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AW11S-7.5-8

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-21

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		01/23/19 19:00	01/30/19 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/23/19 19:00*	*01/30/19 23:40*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/23/19 19:00*	*01/30/19 23:40*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/30/19 23:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,1,1-Trichloroethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,1,2-Trichloroethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,1-Dichloroethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,1-Dichloroethene	ND		1.7	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,1-Dichloropropene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,2,4-Trichlorobenzene	ND		4.1	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.7	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,2-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,2-Dichloroethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,2-Dichloropropane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,3-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,3-Dichloropropane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,4-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
2-Hexanone	ND		8.3	4.1	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
4-Isopropyltoluene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Benzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Bromobenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Bromoform	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Bromomethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Carbon disulfide	**2.0**		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Carbon tetrachloride	ND		1.7	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Chlorobenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Chloroethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Chloroform	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Chloromethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
cis-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
cis-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Chlorodibromomethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Dibromomethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Dichlorobromomethane	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1

Client Sample ID: DG-AW11S-7.5-8

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-21

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Ethylbenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Isopropylbenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Methylene Chloride	ND		8.3	4.1	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Methyl tert-butyl ether	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Naphthalene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
N-Propylbenzene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Styrene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Tetrachloroethene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Toluene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
trans-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
trans-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Trichloroethene	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.1	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Vinyl acetate	ND		6.6	3.3	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
Ethylene Dibromide	ND		0.83	0.41	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
2-Butanone (MEK)	**75**		8.3	4.1	ug/Kg		01/23/19 19:00	01/30/19 23:40	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.1	ug/Kg		01/23/19 19:00	01/30/19 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/30/19 23:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/23/19 19:00*	*01/30/19 23:40*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Acenaphthene	ND		290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Acenaphthylene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Fluorene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Phenanthrene	ND		290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Anthracene	ND		290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Benzo[a]anthracene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Chrysene	**300**		290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Benzo[a]pyrene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Benzo[b]fluoranthene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Benzo[k]fluoranthene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Benzo[g,h,i]perylene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Indeno[1,2,3-cd]pyrene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Fluoranthene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Pyrene	**150**	**J**	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
Dibenz(a,h)anthracene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5
2-Methylnaphthalene	ND	F1	290	39	ug/Kg		02/01/19 09:52	02/06/19 12:24	5

Client Sample ID: DG-AW11S-7.5-8

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-21

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	99		29 - 120	02/01/19 09:52	02/06/19 12:24	5
Nitrobenzene-d5	93		11 - 118	02/01/19 09:52	02/06/19 12:24	5
Terphenyl-d14	103		10 - 120	02/01/19 09:52	02/06/19 12:24	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1600**	**B**	100	50	mg/Kg		01/25/19 15:47	01/29/19 10:42	10
Motor Oil Range Organics [C24-C36]	**1700**	**B**	100	50	mg/Kg		01/25/19 15:47	01/29/19 10:42	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	91		40 - 140	01/25/19 15:47	01/29/19 10:42	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
4,4'-DDT	**5.4**		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
4,4'-DDE	**11**		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
4,4'-DDD	**4.0**	**J**	5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
Chlordane (technical)	ND		50	9.9	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:33	02/01/19 17:50	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:33	02/01/19 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		28 - 115	01/29/19 06:33	02/01/19 17:50	1
DCB Decachlorobiphenyl (Surr)	59		21 - 117	01/29/19 06:33	02/01/19 17:50	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 18:50	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 18:50	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 18:50	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 18:50	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 18:50	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 18:50	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 18:50	1

Client Sample ID: DG-AW11S-7.5-8

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*01/29/19 06:33*	*01/31/19 18:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		15	8.9	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Arsenic	ND		30	15	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Barium	**130**		15	7.5	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Beryllium	ND		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Cadmium	ND		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Cobalt	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Chromium	**8700**		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Copper	**85**		20	11	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Molybdenum	ND		20	10	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Nickel	**13**	**J**	20	10	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Lead	**69**		20	10	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Antimony	ND		100	50	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Selenium	ND		30	17	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Thallium	ND		100	50	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Vanadium	**22**		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 16:03	50
Zinc	**1200**		50	25	mg/Kg		01/31/19 09:45	02/04/19 16:03	50

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.6**	**F1**	0.10	0.061	mg/Kg		01/30/19 12:53	01/31/19 01:00	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.2**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AT12S-0.5-1

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-22

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	180		95	66	ug/Kg		01/23/19 19:00	01/30/19 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/23/19 19:00*	*01/30/19 22:51*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/23/19 19:00*	*01/30/19 22:51*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/23/19 19:00*	*01/30/19 22:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.5	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,1,1-Trichloroethane	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,1,2-Trichloroethane	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,1-Dichloroethane	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,1-Dichloropropene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,2,3-Trichlorobenzene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,2,4-Trichlorobenzene	ND		4.7	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,2,4-Trimethylbenzene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,2-Dichlorobenzene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,2-Dichloroethane	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,2-Dichloropropane	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,3,5-Trimethylbenzene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,3-Dichlorobenzene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,3-Dichloropropane	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,4-Dichlorobenzene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
2,2-Dichloropropane	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
2-Chlorotoluene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
2-Hexanone	ND		9.5	4.7	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
4-Chlorotoluene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
4-Isopropyltoluene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Benzene	1.0		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Bromobenzene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Bromoform	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Bromomethane	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Carbon disulfide	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Chlorobenzene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Chlorobromomethane	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Chloroethane	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Chloroform	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Chloromethane	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
cis-1,2-Dichloroethene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
cis-1,3-Dichloropropene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Chlorodibromomethane	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Dibromomethane	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Dichlorobromomethane	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1

Client Sample ID: DG-AT12S-0.5-1

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-22

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Ethylbenzene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Hexachlorobutadiene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Isopropylbenzene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Methylene Chloride	ND		9.5	4.7	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Methyl tert-butyl ether	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Naphthalene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
n-Butylbenzene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
N-Propylbenzene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
sec-Butylbenzene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Styrene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
tert-Butylbenzene	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Tetrachloroethene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Toluene	**1.7**		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
trans-1,2-Dichloroethene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
trans-1,3-Dichloropropene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Trichloroethene	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Trichlorofluoromethane	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.5	4.7	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Vinyl acetate	ND		7.6	3.8	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Vinyl chloride	ND		1.9	0.95	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
Ethylene Dibromide	ND		0.95	0.47	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
2-Butanone (MEK)	ND		9.5	4.7	ug/Kg		01/23/19 19:00	01/30/19 22:51	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.4	ug/Kg		01/23/19 19:00	01/30/19 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/23/19 19:00*	*01/30/19 22:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/23/19 19:00*	*01/30/19 22:51*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Acenaphthene	ND		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Acenaphthylene	**8.8**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Fluorene	**11**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Phenanthrene	**88**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Anthracene	**11**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Benzo[a]anthracene	**44**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Chrysene	**80**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Benzo[a]pyrene	**48**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Benzo[b]fluoranthene	**65**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Benzo[k]fluoranthene	**22**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Benzo[g,h,i]perylene	**52**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Indeno[1,2,3-cd]pyrene	**43**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Fluoranthene	**99**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Pyrene	**110**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
Dibenz(a,h)anthracene	**8.4**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1
2-Methylnaphthalene	**8.8**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 20:41	1

Client Sample ID: DG-AT12S-0.5-1

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-22

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*102*		*29 - 120*	*02/01/19 09:52*	*02/05/19 20:41*	*1*
Nitrobenzene-d5	*97*		*11 - 118*	*02/01/19 09:52*	*02/05/19 20:41*	*1*
Terphenyl-d14	*114*		*10 - 120*	*02/01/19 09:52*	*02/05/19 20:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	56	B	5.0	2.5	mg/Kg		01/25/19 15:47	01/29/19 13:49	1
Motor Oil Range Organics [C24-C36]	54	B	5.0	2.5	mg/Kg		01/25/19 15:47	01/29/19 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*52*		*40 - 140*	*01/25/19 15:47*	*01/29/19 13:49*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
Chlordane (technical)	ND		50	9.9	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:38	01/30/19 20:26	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:38	01/30/19 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*28 - 115*	*01/29/19 06:38*	*01/30/19 20:26*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*21 - 117*	*01/29/19 06:38*	*01/30/19 20:26*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:38	01/30/19 19:24	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:38	01/30/19 19:24	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:38	01/30/19 19:24	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:38	01/30/19 19:24	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:38	01/30/19 19:24	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:38	01/30/19 19:24	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:38	01/30/19 19:24	1

Client Sample ID: DG-AT12S-0.5-1

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-22

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*01/29/19 06:38*	*01/30/19 19:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		3.0	1.8	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Arsenic	**25**		6.0	3.0	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Barium	**530**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Beryllium	ND		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Cadmium	**6.1**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Cobalt	**4.5**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Chromium	**1400**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Copper	**630**		4.0	2.2	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Molybdenum	ND		4.0	2.0	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Nickel	**52**		4.0	2.0	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Lead	**11000**	^	8.0	4.0	mg/Kg		01/31/19 09:45	02/04/19 12:47	20
Antimony	**51**		20	10	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Selenium	ND		6.0	3.4	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Thallium	ND		20	10	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Vanadium	**12**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:34	10
Zinc	**3800**		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 12:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**		0.10	0.060	mg/Kg		01/30/19 12:53	01/31/19 01:05	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		0.1	0.1	%			01/29/19 19:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AT12S-3.5-4
Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-23
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		110	80	ug/Kg		01/23/19 19:00	01/30/19 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/23/19 19:00*	*01/30/19 23:16*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/23/19 19:00*	*01/30/19 23:16*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/30/19 23:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,1,1,2-Tetrachloroethane	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,1,1-Trichloroethane	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,1,2,2-Tetrachloroethane	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,1,2-Trichloroethane	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,1-Dichloroethane	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,1-Dichloroethene	ND		2.3	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,1-Dichloropropene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,2,3-Trichlorobenzene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,2,4-Trichlorobenzene	ND		5.7	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,2,4-Trimethylbenzene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,2-Dibromo-3-Chloropropane	ND		5.7	2.3	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,2-Dichlorobenzene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,2-Dichloroethane	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,2-Dichloropropane	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,3,5-Trimethylbenzene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,3-Dichlorobenzene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,3-Dichloropropane	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,4-Dichlorobenzene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
2,2-Dichloropropane	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
2-Chlorotoluene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
2-Hexanone	ND		11	5.7	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
4-Chlorotoluene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
4-Isopropyltoluene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Benzene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Bromobenzene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Bromoform	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Bromomethane	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Carbon disulfide	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Carbon tetrachloride	ND		2.3	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Chlorobenzene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Chlorobromomethane	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Chloroethane	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Chloroform	**1.4**		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Chloromethane	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
cis-1,2-Dichloroethene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
cis-1,3-Dichloropropene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Chlorodibromomethane	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Dibromomethane	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Dichlorobromomethane	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1

Client Sample ID: DG-AT12S-3.5-4
Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-23
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Ethylbenzene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Hexachlorobutadiene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Isopropylbenzene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Methylene Chloride	ND		11	5.7	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Methyl tert-butyl ether	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Naphthalene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
n-Butylbenzene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
N-Propylbenzene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
sec-Butylbenzene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Styrene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
tert-Butylbenzene	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Tetrachloroethene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Toluene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
trans-1,2-Dichloroethene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
trans-1,3-Dichloropropene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Trichloroethene	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Trichlorofluoromethane	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.7	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Vinyl acetate	ND		9.2	4.6	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Vinyl chloride	ND		2.3	1.1	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Xylenes, Total	ND		2.3	1.5	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
Ethylene Dibromide	ND		1.1	0.57	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
2-Butanone (MEK)	ND		11	5.7	ug/Kg		01/23/19 19:00	01/30/19 23:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.7	2.9	ug/Kg		01/23/19 19:00	01/30/19 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/23/19 19:00*	*01/30/19 23:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*01/23/19 19:00*	*01/30/19 23:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**19**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Acenaphthene	**17**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Acenaphthylene	**56**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Fluorene	**22**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Phenanthrene	**500**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Anthracene	**130**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Benzo[a]anthracene	**870**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Chrysene	**1100**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Benzo[a]pyrene	**840**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Benzo[b]fluoranthene	**1100**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Benzo[k]fluoranthene	**410**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Benzo[g,h,i]perylene	**670**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Indeno[1,2,3-cd]pyrene	**640**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Fluoranthene	**1200**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Pyrene	**1400**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
Dibenz(a,h)anthracene	**140**		60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1
2-Methylnaphthalene	**13**	**J**	60	8.0	ug/Kg		02/01/19 09:52	02/05/19 21:04	1

Client Sample ID: DG-AT12S-3.5-4

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-23

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*29 - 120*	*02/01/19 09:52*	*02/05/19 21:04*	*1*
Nitrobenzene-d5	*80*		*11 - 118*	*02/01/19 09:52*	*02/05/19 21:04*	*1*
Terphenyl-d14	*104*		*10 - 120*	*02/01/19 09:52*	*02/05/19 21:04*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**390**	**B**	9.7	4.9	mg/Kg		01/25/19 15:47	01/29/19 11:45	1
Motor Oil Range Organics [C24-C36]	**300**	**B**	9.7	4.9	mg/Kg		01/25/19 15:47	01/29/19 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*40 - 140*	*01/25/19 15:47*	*01/29/19 11:45*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Endrin aldehyde	**6.6**		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Endrin ketone	ND		4.9	1.9	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Heptachlor	ND		4.9	1.9	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
delta-BHC	ND		9.7	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Toxaphene	ND		190	49	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
Chlordane (technical)	ND		49	9.7	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		01/29/19 06:38	01/31/19 19:59	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/31/19 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*28 - 115*	*01/29/19 06:38*	*01/31/19 19:59*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*21 - 117*	*01/29/19 06:38*	*01/31/19 19:59*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:38	01/31/19 18:22	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:38	01/31/19 18:22	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:38	01/31/19 18:22	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:38	01/31/19 18:22	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:38	01/31/19 18:22	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:38	01/31/19 18:22	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:38	01/31/19 18:22	1

Client Sample ID: DG-AT12S-3.5-4

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-23

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*01/29/19 06:38*	*01/31/19 18:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Arsenic	**10**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Barium	**150**		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Beryllium	**0.43**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Cadmium	**0.29**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Cobalt	**7.5**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Chromium	**110**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Copper	**79**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Nickel	**34**		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Lead	**120**	**^**	2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Vanadium	**56**		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:37	5
Zinc	**190**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 12:37	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.020	0.012	mg/Kg		01/30/19 12:53	01/31/19 01:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.4**		0.1	0.1	%			01/29/19 19:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AT12S-9.5-10

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-24

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		90	63	ug/Kg		01/23/19 19:00	01/30/19 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/23/19 19:00*	*01/30/19 19:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/23/19 19:00*	*01/30/19 19:54*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 19:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.0	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,1,1-Trichloroethane	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,1,2-Trichloroethane	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,1-Dichloroethane	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,1-Dichloroethene	ND		1.8	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,1-Dichloropropene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,2,3-Trichlorobenzene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,2,4-Trichlorobenzene	ND		4.5	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,2,4-Trimethylbenzene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,2-Dibromo-3-Chloropropane	ND		4.5	1.8	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,2-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,2-Dichloroethane	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,2-Dichloropropane	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,3,5-Trimethylbenzene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,3-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,3-Dichloropropane	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,4-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
2,2-Dichloropropane	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
2-Chlorotoluene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
2-Hexanone	ND		9.0	4.5	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
4-Chlorotoluene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
4-Isopropyltoluene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Benzene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Bromobenzene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Bromoform	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Bromomethane	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Carbon disulfide	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Carbon tetrachloride	ND		1.8	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Chlorobenzene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Chlorobromomethane	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Chloroethane	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Chloroform	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Chloromethane	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
cis-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
cis-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Chlorodibromomethane	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Dibromomethane	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Dichlorobromomethane	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1

Client Sample ID: DG-AT12S-9.5-10

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-24

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Ethylbenzene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Hexachlorobutadiene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Isopropylbenzene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Methylene Chloride	ND		9.0	4.5	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Methyl tert-butyl ether	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Naphthalene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
n-Butylbenzene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
N-Propylbenzene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
sec-Butylbenzene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Styrene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
tert-Butylbenzene	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Tetrachloroethene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Toluene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
trans-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
trans-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Trichloroethene	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Trichlorofluoromethane	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.0	4.5	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Vinyl acetate	ND		7.2	3.6	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Vinyl chloride	ND		1.8	0.90	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
Ethylene Dibromide	ND		0.90	0.45	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
2-Butanone (MEK)	ND		9.0	4.5	ug/Kg		01/23/19 19:00	01/30/19 19:54	1
4-Methyl-2-pentanone (MIBK)	ND		4.5	2.2	ug/Kg		01/23/19 19:00	01/30/19 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/23/19 19:00*	*01/30/19 19:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/23/19 19:00*	*01/30/19 19:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Acenaphthene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Fluorene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Phenanthrene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Anthracene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Chrysene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Pyrene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 16:00	1

Client Sample ID: DG-AT12S-9.5-10

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*29 - 120*	*02/01/19 09:52*	*02/04/19 16:00*	*1*
Nitrobenzene-d5	*73*		*11 - 118*	*02/01/19 09:52*	*02/04/19 16:00*	*1*
Terphenyl-d14	*98*		*10 - 120*	*02/01/19 09:52*	*02/04/19 16:00*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.8**	**B**	5.0	2.5	mg/Kg		01/25/19 15:47	01/29/19 14:09	1
Motor Oil Range Organics [C24-C36]	**4.8**	**J B**	5.0	2.5	mg/Kg		01/25/19 15:47	01/29/19 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*40 - 140*	*01/25/19 15:47*	*01/29/19 14:09*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Endrin ketone	ND		4.9	1.9	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Heptachlor	ND		4.9	1.9	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
delta-BHC	ND		9.7	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Toxaphene	ND		190	49	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
Chlordane (technical)	ND		49	9.7	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		01/29/19 06:38	01/30/19 18:56	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:38	01/30/19 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*28 - 115*	*01/29/19 06:38*	*01/30/19 18:56*	*1*
DCB Decachlorobiphenyl (Surr)	*46*		*21 - 117*	*01/29/19 06:38*	*01/30/19 18:56*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:38	01/30/19 18:30	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:38	01/30/19 18:30	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:38	01/30/19 18:30	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:38	01/30/19 18:30	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:38	01/30/19 18:30	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:38	01/30/19 18:30	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:38	01/30/19 18:30	1

Client Sample ID: DG-AT12S-9.5-10

Date Collected: 01/23/19 11:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*54*		*45 - 120*	*01/29/19 06:38*	*01/30/19 18:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**5.6**	**J**	7.4	4.4	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Arsenic	**29**		15	7.4	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Barium	**1600**		7.4	3.7	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Beryllium	ND		2.5	1.2	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Cadmium	**4.8**		2.5	1.2	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Cobalt	ND		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Chromium	**53**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Copper	**1100**		9.9	5.4	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Molybdenum	ND		9.9	5.0	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Nickel	**74**		9.9	5.0	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Lead	**6600**		9.9	5.0	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Antimony	**51**		50	25	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Selenium	ND		15	8.4	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Thallium	ND		50	25	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Vanadium	**25**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 16:06	25
Zinc	**2900**		25	12	mg/Kg		01/31/19 09:45	02/04/19 16:06	25

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		01/30/19 12:53	01/30/19 22:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.9**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AM15S-9.5-10
Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-25
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		86	60	ug/Kg		01/23/19 19:00	01/30/19 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/23/19 19:00*	*01/30/19 18:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/23/19 19:00*	*01/30/19 18:00*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.6	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,1,1-Trichloroethane	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,1,2-Trichloroethane	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,1-Dichloroethane	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,1-Dichloropropene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,2,3-Trichlorobenzene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,2,4-Trichlorobenzene	ND		4.3	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,2,4-Trimethylbenzene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,2-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,2-Dichloroethane	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,2-Dichloropropane	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,3,5-Trimethylbenzene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,3-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,3-Dichloropropane	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,4-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
2,2-Dichloropropane	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
2-Chlorotoluene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
2-Hexanone	ND		8.6	4.3	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
4-Chlorotoluene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
4-Isopropyltoluene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Benzene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Bromobenzene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Bromoform	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Bromomethane	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Carbon disulfide	**3.3**		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Chlorobenzene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Chlorobromomethane	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Chloroethane	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Chloroform	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Chloromethane	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
cis-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
cis-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Chlorodibromomethane	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Dibromomethane	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Dichlorobromomethane	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1

Client Sample ID: DG-AM15S-9.5-10

Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-25

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Ethylbenzene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Hexachlorobutadiene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Isopropylbenzene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Methylene Chloride	ND		8.6	4.3	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Methyl tert-butyl ether	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Naphthalene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
n-Butylbenzene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
N-Propylbenzene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
sec-Butylbenzene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Styrene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
tert-Butylbenzene	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Tetrachloroethene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Toluene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
trans-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
trans-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Trichloroethene	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Trichlorofluoromethane	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.6	4.3	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Vinyl acetate	ND		6.9	3.4	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Vinyl chloride	ND		1.7	0.86	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
Ethylene Dibromide	ND		0.86	0.43	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
2-Butanone (MEK)	ND		8.6	4.3	ug/Kg		01/23/19 19:00	01/30/19 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		01/23/19 19:00	01/30/19 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/23/19 19:00*	*01/30/19 18:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/23/19 19:00*	*01/30/19 18:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Acenaphthene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Acenaphthylene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Fluorene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Phenanthrene	**4.1**	**J**	30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Anthracene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Benzo[a]anthracene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Chrysene	**6.7**	**J**	30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Benzo[a]pyrene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Benzo[b]fluoranthene	**4.2**	**J**	30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Benzo[k]fluoranthene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Benzo[g,h,i]perylene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Indeno[1,2,3-cd]pyrene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Fluoranthene	**6.4**	**J**	30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Pyrene	**20**	**J**	30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
Dibenz(a,h)anthracene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1
2-Methylnaphthalene	ND		30	3.9	ug/Kg		02/01/19 09:52	02/04/19 16:23	1

Client Sample ID: DG-AM15S-9.5-10

Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-25

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	96		29 - 120	02/01/19 09:52	02/04/19 16:23	1
Nitrobenzene-d5	87		11 - 118	02/01/19 09:52	02/04/19 16:23	1
Terphenyl-d14	104		10 - 120	02/01/19 09:52	02/04/19 16:23	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20	B	5.0	2.5	mg/Kg		01/25/19 15:47	01/29/19 14:30	1
Motor Oil Range Organics [C24-C36]	14	B	5.0	2.5	mg/Kg		01/25/19 15:47	01/29/19 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	58		40 - 140	01/25/19 15:47	01/29/19 14:30	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
Chlordane (technical)	ND		50	9.9	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:43	01/31/19 20:28	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:43	01/31/19 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		28 - 115	01/29/19 06:43	01/31/19 20:28	1
DCB Decachlorobiphenyl (Surr)	58		21 - 117	01/29/19 06:43	01/31/19 20:28	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:43	01/31/19 18:36	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:43	01/31/19 18:36	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:43	01/31/19 18:36	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:43	01/31/19 18:36	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:43	01/31/19 18:36	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:43	01/31/19 18:36	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:43	01/31/19 18:36	1

Client Sample ID: DG-AM15S-9.5-10

Date Collected: 01/23/19 15:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-25

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*45 - 120*	*01/29/19 06:43*	*01/31/19 18:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Arsenic	**6.3**		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Barium	**87**		1.5	0.74	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Beryllium	**0.43**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Cadmium	**0.27**	**J**	0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Cobalt	**9.4**		0.99	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Chromium	**49**		0.99	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Copper	**33**		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Molybdenum	ND		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Nickel	**33**		2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Lead	**29**	**^**	2.0	0.99	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Antimony	ND		9.9	5.0	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Thallium	ND		9.9	5.0	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Vanadium	**48**		0.99	0.50	mg/Kg		01/31/19 09:45	02/04/19 12:42	5
Zinc	**63**		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 12:42	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.020	0.012	mg/Kg		01/30/19 12:53	01/30/19 22:33	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.0**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: TB-01.23.19
Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-26
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/27/19 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*01/27/19 18:01*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*01/27/19 18:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/27/19 18:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Acetone	ND		20	10	ug/L			01/27/19 18:01	1
Benzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Bromobenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Bromoform	ND		1.0	0.40	ug/L			01/27/19 18:01	1
Bromomethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/27/19 18:01	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/27/19 18:01	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/27/19 18:01	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Chloroethane	ND		1.0	0.40	ug/L			01/27/19 18:01	1
Chloroform	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Chloromethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/27/19 18:01	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Dibromomethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/27/19 18:01	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/27/19 18:01	1

Client Sample ID: TB-01.23.19
Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-26
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/27/19 18:01	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/27/19 18:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/27/19 18:01	1
Naphthalene	ND		1.0	0.40	ug/L			01/27/19 18:01	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Styrene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Toluene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 18:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 18:01	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Trichloroethene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/27/19 18:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/27/19 18:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/27/19 18:01	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/27/19 18:01	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/27/19 18:01	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/27/19 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*01/27/19 18:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*01/27/19 18:01*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TOL (79-123)	DCA (70-130)										
720-90981-1	DG-AR13S-0.5-1	102	93										
720-90981-2	DG-AR13S-3.5-4	104	94										
720-90981-3	DG-AR13S-9.5-10	106	93										
720-90981-4	DG-AP13S-0.5-1	101	91										
720-90981-5	DG-AP13S-3.5-4	101	105										
720-90981-6	DG-AP13S-9.5-10	112	103										
720-90981-7	DG-AK15S-0.5-1	100	104										
720-90981-8	DG-AK15S-3.5-4	101	109										
720-90981-9	DG-AM15S-0.5-1	100	106										
720-90981-10	DG-AM15S-3.5-4	100	105										
720-90981-11	DUP-113	95	107										
720-90981-12	DUP-96	99	105										
720-90981-13	DG-AX9S-0.5-1	98	107										
720-90981-14	DG-AX9S-3.5-4	99	104										
720-90981-15	DG-AX9S-9.5-10	99	104										
720-90981-16	DG-AU11S-0.5-1	99	104										
720-90981-17	DG-AU11S-3.5-4	102	102										
720-90981-18	DG-AU11S-9.5-10	107	109										
720-90981-19	DG-AW11S-0.5-1	104	103										
720-90981-20	DG-AW11S-3.5-4	99	106										
720-90981-21	DG-AW11S-7.5-8	101	103										
720-90981-22	DG-AT12S-0.5-1	98	104										
720-90981-23	DG-AT12S-3.5-4	101	102										
720-90981-24	DG-AT12S-9.5-10	99	104										
720-90981-25	DG-AM15S-9.5-10	102	101										
720-91011-A-8-B MS	Matrix Spike	101	103										
720-91011-B-8-B MSD	Matrix Spike Duplicate	98	103										
720-91048-A-16-A MS	Matrix Spike	98	104										
720-91048-A-16-B MSD	Matrix Spike Duplicate	100	99										
LCS 440-525479/6	Lab Control Sample	93	83										
LCS 440-525787/5	Lab Control Sample	98	100										
LCS 440-525790/5	Lab Control Sample	97	102										
LCS 440-525938/5	Lab Control Sample	99	101										
LCS 440-526002/5	Lab Control Sample	98	103										
LCSD 440-525479/7	Lab Control Sample Dup	95	85										
LCSD 440-525790/9	Lab Control Sample Dup	97	101										
LCSD 440-525938/6	Lab Control Sample Dup	100	98										
MB 440-525479/5	Method Blank	97	85										
MB 440-525787/4	Method Blank	100	104										
MB 440-525790/8	Method Blank	98	105										
MB 440-525938/4	Method Blank	98	107										
MB 440-526002/4	Method Blank	99	106										

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCA	TOL								
Lab Sample ID	Client Sample ID	(70-130)	(80-128)								
440-231090-B-9 MS	Matrix Spike	86	96								
440-231090-B-9 MSD	Matrix Spike Duplicate	90	99								
720-90981-26	TB-01.23.19	97	96								
LCS 440-525179/6	Lab Control Sample	85	101								
MB 440-525179/5	Method Blank	88	101								

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DBFM	BFB	TOL							
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)							
720-90981-1	DG-AR13S-0.5-1	108	91	102							
720-90981-2	DG-AR13S-3.5-4	112	97	104							
720-90981-3	DG-AR13S-9.5-10	110	101	106							
720-90981-4	DG-AP13S-0.5-1	108	92	101							
720-90981-5	DG-AP13S-3.5-4	104	98	101							
720-90981-6	DG-AP13S-9.5-10	104	119	112							
720-90981-7	DG-AK15S-0.5-1	102	101	100							
720-90981-8	DG-AK15S-3.5-4	103	108	101							
720-90981-9	DG-AM15S-0.5-1	105	103	100							
720-90981-10	DG-AM15S-3.5-4	102	99	99							
720-90981-11	DUP-113	105	98	95							
720-90981-12	DUP-96	103	98	99							
720-90981-13	DG-AX9S-0.5-1	103	100	97							
720-90981-14	DG-AX9S-3.5-4	101	104	99							
720-90981-15	DG-AX9S-9.5-10	102	104	99							
720-90981-16	DG-AU11S-0.5-1	102	100	99							
720-90981-17	DG-AU11S-3.5-4	102	106	102							
720-90981-18	DG-AU11S-9.5-10	105	114	107							
720-90981-19	DG-AW11S-0.5-1	101	110	104							
720-90981-20	DG-AW11S-3.5-4	105	99	99							
720-90981-21	DG-AW11S-7.5-8	104	107	101							
720-90981-22	DG-AT12S-0.5-1	104	100	98							
720-90981-23	DG-AT12S-3.5-4	101	103	101							
720-90981-24	DG-AT12S-9.5-10	102	100	99							
720-90981-25	DG-AM15S-9.5-10	102	100	102							
720-91011-A-8-B MS	Matrix Spike	104	112	101							
720-91011-B-8-B MSD	Matrix Spike Duplicate	105	100	98							
720-91048-A-16-A MS	Matrix Spike	105	100	98							
720-91048-A-16-B MSD	Matrix Spike Duplicate	102	101	100							
LCS 440-525480/8	Lab Control Sample	104	91	96							
LCS 440-525788/6	Lab Control Sample	102	97	101							
LCS 440-525791/6	Lab Control Sample	103	99	99							
LCS 440-525939/7	Lab Control Sample	101	100	99							

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
LCS 440-526003/6	Lab Control Sample	101	102	100
LCSD 440-525480/9	Lab Control Sample Dup	100	86	98
LCSD 440-525791/10	Lab Control Sample Dup	103	99	99
LCSD 440-525939/8	Lab Control Sample Dup	101	101	99
MB 440-525480/5	Method Blank	104	88	97
MB 440-525788/4	Method Blank	102	97	100
MB 440-525791/8	Method Blank	102	98	98
MB 440-525939/4	Method Blank	103	99	98
MB 440-526003/4	Method Blank	102	101	99

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-231090-B-9 MS	Matrix Spike	103	95	96
440-231090-B-9 MSD	Matrix Spike Duplicate	100	97	99
720-90981-26	TB-01.23.19	106	92	96
LCS 440-525180/7	Lab Control Sample	101	97	102
MB 440-525180/5	Method Blank	99	99	101

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(29-120)	(11-118)	(10-120)
720-90981-1	DG-AR13S-0.5-1	121 X	111	118
720-90981-2	DG-AR13S-3.5-4	113	104	111
720-90981-3	DG-AR13S-9.5-10	95	85	93
720-90981-4	DG-AP13S-0.5-1	112	101	107
720-90981-5	DG-AP13S-3.5-4	104	95	98
720-90981-6	DG-AP13S-9.5-10	101	97	99
720-90981-7	DG-AK15S-0.5-1	113	101	111
720-90981-8	DG-AK15S-3.5-4	130 X	124 X	182 X
720-90981-9	DG-AM15S-0.5-1	108	98	109
720-90981-10	DG-AM15S-3.5-4	110	99	116
720-90981-11	DUP-113	109	102	105
720-90981-12	DUP-96	113	100	113

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (29-120)	NBZ (11-118)	TPHL (10-120)
720-90981-13	DG-AX9S-0.5-1	114	103	138 X
720-90981-14	DG-AX9S-3.5-4	95	82	98
720-90981-15	DG-AX9S-9.5-10	106	96	101
720-90981-16	DG-AU11S-0.5-1	108	98	132 X
720-90981-17	DG-AU11S-3.5-4	109	99	142 X
720-90981-18	DG-AU11S-9.5-10	102	98	108
720-90981-19	DG-AW11S-0.5-1	94	85	98
720-90981-20	DG-AW11S-3.5-4	94	86	101
720-90981-21	DG-AW11S-7.5-8	99	93	103
720-90981-22	DG-AT12S-0.5-1	102	97	114
720-90981-23	DG-AT12S-3.5-4	93	80	104
720-90981-24	DG-AT12S-9.5-10	92	73	98
720-90981-25	DG-AM15S-9.5-10	96	87	104
LCS 440-526313/2-A	Lab Control Sample	98	85	100
LCS 440-526317/2-A	Lab Control Sample	113	97	111
MB 440-526313/1-A	Method Blank	95	80	96
MB 440-526317/1-A	Method Blank	100	88	98

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (40-140)
720-90981-1	DG-AR13S-0.5-1	93
720-90981-1 MS	DG-AR13S-0.5-1	101
720-90981-1 MSD	DG-AR13S-0.5-1	98
720-90981-2	DG-AR13S-3.5-4	88
720-90981-3	DG-AR13S-9.5-10	89
720-90981-4	DG-AP13S-0.5-1	102
720-90981-5	DG-AP13S-3.5-4	80
720-90981-6	DG-AP13S-9.5-10	84
720-90981-7	DG-AK15S-0.5-1	85
720-90981-8	DG-AK15S-3.5-4	96
720-90981-9	DG-AM15S-0.5-1	92
720-90981-10	DG-AM15S-3.5-4	89
720-90981-11	DUP-113	92
720-90981-12	DUP-96	91
720-90981-13	DG-AX9S-0.5-1	95
720-90981-14	DG-AX9S-3.5-4	87
720-90981-15	DG-AX9S-9.5-10	89
720-90981-16	DG-AU11S-0.5-1	96
720-90981-17	DG-AU11S-3.5-4	89
720-90981-18	DG-AU11S-9.5-10	64

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (40-140)
720-90981-19	DG-AW11S-0.5-1	89
720-90981-20	DG-AW11S-3.5-4	90
720-90981-21	DG-AW11S-7.5-8	91
720-90981-21 MS	DG-AW11S-7.5-8	103
720-90981-21 MSD	DG-AW11S-7.5-8	92
720-90981-22	DG-AT12S-0.5-1	52
720-90981-23	DG-AT12S-3.5-4	77
720-90981-24	DG-AT12S-9.5-10	71
720-90981-25	DG-AM15S-9.5-10	58
LCS 440-525025/2-A	Lab Control Sample	82
LCS 440-525032/2-A	Lab Control Sample	89
MB 440-525025/1-A	Method Blank	75
MB 440-525032/1-A	Method Blank	91

Surrogate Legend

OTCN = n-Octacosane

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (28-115)	DCB2 (21-117)
720-90981-1	DG-AR13S-0.5-1	64	74
720-90981-1 MS	DG-AR13S-0.5-1	77	86
720-90981-1 MSD	DG-AR13S-0.5-1	75	74
720-90981-2	DG-AR13S-3.5-4	77	65
720-90981-3	DG-AR13S-9.5-10	71	65
720-90981-4	DG-AP13S-0.5-1	80	182 X
720-90981-5	DG-AP13S-3.5-4	77	67
720-90981-6	DG-AP13S-9.5-10	64	58
720-90981-7	DG-AK15S-0.5-1	76	60
720-90981-8	DG-AK15S-3.5-4	52	68
720-90981-9	DG-AM15S-0.5-1	73	62
720-90981-10	DG-AM15S-3.5-4	69	180 X
720-90981-11	DUP-113	74	72
720-90981-12	DUP-96	71	274 X
720-90981-13	DG-AX9S-0.5-1	55	50
720-90981-14	DG-AX9S-3.5-4	63	79
720-90981-15	DG-AX9S-9.5-10	57	63
720-90981-16	DG-AU11S-0.5-1	65	79
720-90981-17	DG-AU11S-3.5-4	69	283 X
720-90981-18	DG-AU11S-9.5-10	70	65
720-90981-19	DG-AW11S-0.5-1	89	72
720-90981-20	DG-AW11S-3.5-4	81	115
720-90981-21	DG-AW11S-7.5-8	85	59
720-90981-22	DG-AT12S-0.5-1	51	70
720-90981-23	DG-AT12S-3.5-4	82	85
720-90981-24	DG-AT12S-9.5-10	69	46

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (28-115)	DCB2 (21-117)
720-90981-25	DG-AM15S-9.5-10	90	58
720-91011-E-8-A MS	Matrix Spike	74	64
720-91011-E-8-B MSD	Matrix Spike Duplicate	76	70
LCS 440-525472/2-A	Lab Control Sample	90	87
LCS 440-525476/2-A	Lab Control Sample	85	80
MB 440-525472/1-A	Method Blank	87	90
MB 440-525476/1-A	Method Blank	92	82

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
720-90981-1	DG-AR13S-0.5-1	102
720-90981-1 MS	DG-AR13S-0.5-1	91
720-90981-1 MSD	DG-AR13S-0.5-1	87
720-90981-2	DG-AR13S-3.5-4	57
720-90981-3	DG-AR13S-9.5-10	53
720-90981-4	DG-AP13S-0.5-1	72
720-90981-5	DG-AP13S-3.5-4	69
720-90981-6	DG-AP13S-9.5-10	64
720-90981-7	DG-AK15S-0.5-1	72
720-90981-8	DG-AK15S-3.5-4	61
720-90981-9	DG-AM15S-0.5-1	65
720-90981-10	DG-AM15S-3.5-4	221 X
720-90981-11	DUP-113	66
720-90981-12	DUP-96	60
720-90981-13	DG-AX9S-0.5-1	60
720-90981-14	DG-AX9S-3.5-4	53
720-90981-15	DG-AX9S-9.5-10	53
720-90981-16	DG-AU11S-0.5-1	72
720-90981-17	DG-AU11S-3.5-4	311 X
720-90981-17 - DL	DG-AU11S-3.5-4	347 X
720-90981-18	DG-AU11S-9.5-10	76
720-90981-19	DG-AW11S-0.5-1	77
720-90981-20	DG-AW11S-3.5-4	101
720-90981-21	DG-AW11S-7.5-8	51
720-90981-22	DG-AT12S-0.5-1	55
720-90981-23	DG-AT12S-3.5-4	52
720-90981-24	DG-AT12S-9.5-10	54
720-90981-25	DG-AM15S-9.5-10	62
720-91011-E-8-F MS	Matrix Spike	63
720-91011-E-8-G MSD	Matrix Spike Duplicate	60
LCS 440-525472/5-A	Lab Control Sample	85

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCB2 (45-120)							
LCS 440-525476/5-A	Lab Control Sample	98							
MB 440-525472/1-A	Method Blank	81							
MB 440-525476/1-A	Method Blank	99							

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-525179/5
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			01/27/19 10:37	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Benzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Bromobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/27/19 10:37	1
Bromoform	ND		1.0	0.40	ug/L			01/27/19 10:37	1
Bromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/27/19 10:37	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chloroethane	ND		1.0	0.40	ug/L			01/27/19 10:37	1
Chloroform	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chloromethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Dibromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
2-Hexanone	ND		5.0	2.5	ug/L			01/27/19 10:37	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/27/19 10:37	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/27/19 10:37	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Naphthalene	ND		1.0	0.40	ug/L			01/27/19 10:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/27/19 10:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 10:37	1
Styrene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/27/19 10:37	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525179/5
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Toluene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/27/19 10:37	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Trichloroethene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/27/19 10:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/27/19 10:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/27/19 10:37	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/27/19 10:37	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/27/19 10:37	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/27/19 10:37	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/27/19 10:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/27/19 10:37	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/27/19 10:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*01/27/19 10:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/27/19 10:37*	*1*

Lab Sample ID: LCS 440-525179/6
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	20.7		ug/L		83	10 - 150
2-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
4-Chlorotoluene	25.0	23.9		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichloropropane	25.0	22.7		ug/L		91	70 - 130
Benzene	25.0	24.2		ug/L		97	68 - 130
1,1-Dichloropropene	25.0	22.8		ug/L		91	70 - 130
Bromobenzene	25.0	25.8		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.3		ug/L		89	52 - 140
Bromoform	25.0	24.5		ug/L		98	60 - 148
Bromomethane	25.0	28.1		ug/L		112	64 - 139
Carbon disulfide	25.0	22.9		ug/L		92	52 - 136
Carbon tetrachloride	25.0	22.2		ug/L		89	60 - 150
1,1-Dichloroethane	25.0	22.7		ug/L		91	64 - 130
Chlorobenzene	25.0	23.9		ug/L		95	70 - 130
1,2-Dichloroethane	25.0	20.0		ug/L		80	57 - 138
Chlorobromomethane	25.0	27.5		ug/L		110	70 - 130
1,1-Dichloroethene	25.0	27.4		ug/L		110	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525179/6
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	25.0	26.2		ug/L		105	64 - 135
Chloroform	25.0	23.5		ug/L		94	70 - 130
Chloromethane	25.0	21.4		ug/L		86	47 - 140
1,2-Dichloropropane	25.0	22.5		ug/L		90	67 - 130
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 133
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 133
Chlorodibromomethane	25.0	23.0		ug/L		92	69 - 145
Dibromomethane	25.0	22.2		ug/L		89	70 - 130
Dichlorobromomethane	25.0	22.0		ug/L		88	70 - 132
2-Hexanone	25.0	19.6		ug/L		78	10 - 150
Dichlorodifluoromethane	25.0	18.5		ug/L		74	29 - 150
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 132
Hexachlorobutadiene	25.0	27.4		ug/L		110	10 - 150
Isopropylbenzene	25.0	25.4		ug/L		102	70 - 136
Methylene Chloride	25.0	25.3		ug/L		101	52 - 130
Methyl tert-butyl ether	25.0	23.8		ug/L		95	63 - 131
Naphthalene	25.0	23.4		ug/L		94	60 - 140
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	60 - 141
n-Butylbenzene	25.0	24.7		ug/L		99	65 - 150
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	63 - 130
N-Propylbenzene	25.0	24.9		ug/L		99	67 - 139
sec-Butylbenzene	25.0	25.7		ug/L		103	70 - 138
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	60 - 140
Styrene	25.0	24.8		ug/L		99	70 - 134
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		102	60 - 140
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	21.6		ug/L		86	70 - 130
Tetrachloroethene	25.0	26.6		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	70 - 130
Toluene	25.0	25.3		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130
1,2,3-Trichloropropane	25.0	22.6		ug/L		90	63 - 130
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 132
Trichloroethene	25.0	25.6		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 135
Trichlorofluoromethane	25.0	22.8		ug/L		91	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.7		ug/L		107	60 - 140
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 136
Vinyl acetate	25.0	23.5		ug/L		94	48 - 140
Vinyl chloride	25.0	23.5		ug/L		94	59 - 133
m-Xylene & p-Xylene	25.0	25.5		ug/L		102	70 - 130
Ethylene Dibromide	25.0	23.8		ug/L		95	70 - 130
o-Xylene	25.0	25.1		ug/L		100	70 - 130
2-Butanone (MEK)	25.0	26.6		ug/L		106	44 - 150
4-Methyl-2-pentanone (MIBK)	25.0	20.3		ug/L		81	59 - 149
2,2-Dichloropropane	25.0	23.1		ug/L		93	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525179/6
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-231090-B-9 MS
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	15	J	25.0	31.9		ug/L		68	10 - 150
2-Chlorotoluene	ND		25.0	23.2		ug/L		93	70 - 130
1,2-Dichlorobenzene	ND		25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	ND		25.0	23.9		ug/L		95	70 - 130
4-Chlorotoluene	ND		25.0	23.0		ug/L		92	70 - 130
1,4-Dichlorobenzene	ND		25.0	23.9		ug/L		95	70 - 130
1,3-Dichloropropane	ND		25.0	22.0		ug/L		88	70 - 130
Benzene	ND		25.0	24.2		ug/L		97	66 - 130
1,1-Dichloropropene	ND		25.0	22.5		ug/L		90	64 - 130
Bromobenzene	ND		25.0	24.4		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	21.3		ug/L		85	48 - 140
Bromoform	5.3		25.0	29.3		ug/L		96	59 - 150
Bromomethane	ND		25.0	28.4		ug/L		114	62 - 131
Carbon disulfide	ND		25.0	23.2		ug/L		93	49 - 140
Carbon tetrachloride	ND		25.0	22.5		ug/L		90	60 - 150
1,1-Dichloroethane	ND		25.0	21.9		ug/L		88	65 - 130
Chlorobenzene	ND		25.0	23.2		ug/L		93	70 - 130
1,2-Dichloroethane	ND		25.0	21.0		ug/L		84	56 - 146
Chlorobromomethane	ND		25.0	26.7		ug/L		107	70 - 130
1,1-Dichloroethene	ND		25.0	27.9		ug/L		111	70 - 130
Chloroethane	ND		25.0	26.5		ug/L		106	68 - 130
Chloroform	ND		25.0	24.0		ug/L		96	70 - 130
Chloromethane	ND		25.0	23.9		ug/L		96	39 - 144
1,2-Dichloropropane	ND		25.0	23.2		ug/L		93	69 - 130
cis-1,2-Dichloroethene	ND		25.0	24.4		ug/L		98	70 - 130
cis-1,3-Dichloropropene	ND		25.0	24.2		ug/L		97	70 - 133
Chlorodibromomethane	2.0		25.0	24.8		ug/L		91	70 - 148
Dibromomethane	ND		25.0	22.1		ug/L		89	70 - 130
Dichlorobromomethane	0.28	J	25.0	22.3		ug/L		88	70 - 138
2-Hexanone	ND		25.0	18.7		ug/L		75	10 - 150
Dichlorodifluoromethane	ND		25.0	18.5		ug/L		74	25 - 142
Ethylbenzene	ND		25.0	23.2		ug/L		93	70 - 130
4-Isopropyltoluene	ND		25.0	23.4		ug/L		93	70 - 130
Hexachlorobutadiene	ND		25.0	25.6		ug/L		102	10 - 150
Isopropylbenzene	ND		25.0	24.2		ug/L		97	70 - 132
Methylene Chloride	ND		25.0	25.6		ug/L		102	52 - 130
Methyl tert-butyl ether	ND		25.0	24.5		ug/L		98	70 - 130
Naphthalene	ND	F1 F2	25.0	11.9	F1	ug/L		48	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	22.6		ug/L		90	60 - 149
n-Butylbenzene	ND		25.0	23.8		ug/L		95	61 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231090-B-9 MS
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	ND		25.0	21.3		ug/L		85	63 - 130
N-Propylbenzene	ND		25.0	23.5		ug/L		94	66 - 135
sec-Butylbenzene	ND		25.0	23.8		ug/L		95	67 - 134
1,2,3-Trichlorobenzene	ND		25.0	25.5		ug/L		102	60 - 140
Styrene	ND	F1	25.0	ND	F1	ug/L		0	29 - 150
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
tert-Butylbenzene	ND		25.0	24.8		ug/L		99	70 - 130
1,1,1-Trichloroethane	ND		25.0	22.1		ug/L		88	70 - 130
Tetrachloroethene	ND		25.0	25.2		ug/L		101	70 - 137
1,1,2-Trichloroethane	ND		25.0	23.7		ug/L		95	70 - 130
Toluene	ND		25.0	23.7		ug/L		95	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.8		ug/L		103	70 - 130
1,2,3-Trichloropropane	ND		25.0	22.5		ug/L		90	60 - 130
trans-1,3-Dichloropropene	ND		25.0	23.5		ug/L		94	70 - 138
Trichloroethene	ND		25.0	24.8		ug/L		99	70 - 130
1,2,4-Trimethylbenzene	ND	F1 F2	25.0	4.51	F1	ug/L		18	70 - 130
Trichlorofluoromethane	ND		25.0	22.7		ug/L		91	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.7		ug/L		107	60 - 140
1,3,5-Trimethylbenzene	ND	F1 F2	25.0	2.92	F1	ug/L		12	70 - 130
Vinyl acetate	ND	F1	25.0	ND	F1	ug/L		0	23 - 150
Vinyl chloride	ND		25.0	21.3		ug/L		85	50 - 137
m-Xylene & p-Xylene	ND	F1 F2	25.0	15.3	F1	ug/L		61	70 - 133
Ethylene Dibromide	ND		25.0	23.2		ug/L		93	70 - 131
o-Xylene	ND		25.0	23.3		ug/L		93	70 - 133
2-Butanone (MEK)	ND		25.0	25.6		ug/L		102	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		25.0	19.6		ug/L		78	52 - 150
2,2-Dichloropropane	ND		25.0	23.2		ug/L		93	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231090-B-9 MSD
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	15	J	25.0	34.3		ug/L		78	10 - 150	7	35
2-Chlorotoluene	ND		25.0	23.7		ug/L		95	70 - 130	2	20
1,2-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130	3	20
4-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 130	4	20
1,4-Dichlorobenzene	ND		25.0	24.5		ug/L		98	70 - 130	3	20
1,3-Dichloropropane	ND		25.0	23.5		ug/L		94	70 - 130	6	25
Benzene	ND		25.0	25.0		ug/L		100	66 - 130	3	20
1,1-Dichloropropene	ND		25.0	23.6		ug/L		95	64 - 130	5	20
Bromobenzene	ND		25.0	25.7		ug/L		103	70 - 130	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231090-B-9 MSD
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		25.0	21.9		ug/L		88	48 - 140	3	30
Bromoform	5.3		25.0	30.4		ug/L		100	59 - 150	4	25
Bromomethane	ND		25.0	29.6		ug/L		118	62 - 131	4	25
Carbon disulfide	ND		25.0	23.6		ug/L		94	49 - 140	2	20
Carbon tetrachloride	ND		25.0	23.6		ug/L		94	60 - 150	5	25
1,1-Dichloroethane	ND		25.0	23.1		ug/L		92	65 - 130	5	20
Chlorobenzene	ND		25.0	23.9		ug/L		95	70 - 130	3	20
1,2-Dichloroethane	ND		25.0	20.8		ug/L		83	56 - 146	1	20
Chlorobromomethane	ND		25.0	28.2		ug/L		113	70 - 130	5	25
1,1-Dichloroethene	ND		25.0	27.4		ug/L		110	70 - 130	2	20
Chloroethane	ND		25.0	26.2		ug/L		105	68 - 130	1	25
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130	1	20
Chloromethane	ND		25.0	21.8		ug/L		87	39 - 144	9	25
1,2-Dichloropropane	ND		25.0	23.0		ug/L		92	69 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	25.3		ug/L		101	70 - 130	4	20
cis-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	70 - 133	4	20
Chlorodibromomethane	2.0		25.0	26.4		ug/L		97	70 - 148	6	25
Dibromomethane	ND		25.0	23.1		ug/L		92	70 - 130	4	25
Dichlorobromomethane	0.28	J	25.0	22.5		ug/L		89	70 - 138	1	20
2-Hexanone	ND		25.0	19.3		ug/L		77	10 - 150	3	35
Dichlorodifluoromethane	ND		25.0	18.9		ug/L		76	25 - 142	2	30
Ethylbenzene	ND		25.0	23.7		ug/L		95	70 - 130	2	20
4-Isopropyltoluene	ND		25.0	24.7		ug/L		99	70 - 130	5	20
Hexachlorobutadiene	ND		25.0	27.1		ug/L		108	10 - 150	6	20
Isopropylbenzene	ND		25.0	25.4		ug/L		102	70 - 132	5	20
Methylene Chloride	ND		25.0	26.4		ug/L		106	52 - 130	3	20
Methyl tert-butyl ether	ND		25.0	24.5		ug/L		98	70 - 130	0	25
Naphthalene	ND	F1 F2	25.0	23.3	F2	ug/L		93	60 - 140	64	30
1,1,1,2-Tetrachloroethane	ND		25.0	24.1		ug/L		97	60 - 149	7	20
n-Butylbenzene	ND		25.0	24.6		ug/L		99	61 - 149	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	22.8		ug/L		91	63 - 130	7	30
N-Propylbenzene	ND		25.0	24.4		ug/L		97	66 - 135	3	20
sec-Butylbenzene	ND		25.0	25.2		ug/L		101	67 - 134	6	20
1,2,3-Trichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140	2	20
Styrene	ND	F1	25.0	3.70	F1	ug/L		15	29 - 150	NC	35
1,2,4-Trichlorobenzene	ND		25.0	26.0		ug/L		104	60 - 140	1	20
tert-Butylbenzene	ND		25.0	25.4		ug/L		102	70 - 130	2	20
1,1,1-Trichloroethane	ND		25.0	22.4		ug/L		89	70 - 130	1	20
Tetrachloroethene	ND		25.0	25.9		ug/L		103	70 - 137	3	20
1,1,2-Trichloroethane	ND		25.0	24.9		ug/L		100	70 - 130	5	25
Toluene	ND		25.0	24.6		ug/L		98	70 - 130	4	20
trans-1,2-Dichloroethene	ND		25.0	27.5		ug/L		110	70 - 130	6	20
1,2,3-Trichloropropane	ND		25.0	23.4		ug/L		94	60 - 130	4	30
trans-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	70 - 138	5	25
Trichloroethene	ND		25.0	26.1		ug/L		104	70 - 130	5	20
1,2,4-Trimethylbenzene	ND	F1 F2	25.0	22.8	F2	ug/L		91	70 - 130	134	25
Trichlorofluoromethane	ND		25.0	23.6		ug/L		94	60 - 150	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231090-B-9 MSD
Matrix: Water
Analysis Batch: 525179

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.0		ug/L		108	60 - 140	1	20
1,3,5-Trimethylbenzene	ND	F1 F2	25.0	17.8	F2	ug/L		71	70 - 130	144	20
Vinyl acetate	ND	F1	25.0	12.2		ug/L		49	23 - 150	NC	30
Vinyl chloride	ND		25.0	23.4		ug/L		93	50 - 137	9	30
m-Xylene & p-Xylene	ND	F1 F2	25.0	25.8	F2	ug/L		103	70 - 133	51	25
Ethylene Dibromide	ND		25.0	23.8		ug/L		95	70 - 131	3	25
o-Xylene	ND		25.0	25.3		ug/L		101	70 - 133	8	20
2-Butanone (MEK)	ND		25.0	25.8		ug/L		103	48 - 140	1	40
4-Methyl-2-pentanone (MIBK)	ND		25.0	20.3		ug/L		81	52 - 150	3	35
2,2-Dichloropropane	ND		25.0	23.5		ug/L		94	69 - 138	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: MB 440-525479/5
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Benzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/29/19 08:59	1
Bromoform	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/29/19 08:59	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/29/19 08:59	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Chloroform	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525479/5
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
2-Hexanone	ND		10	5.0	ug/Kg			01/29/19 08:59	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/29/19 08:59	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Styrene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/29/19 08:59	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Toluene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/29/19 08:59	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/29/19 08:59	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/29/19 08:59	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/29/19 08:59	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/29/19 08:59	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/29/19 08:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/29/19 08:59	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/29/19 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*01/29/19 08:59*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*		*01/29/19 08:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525479/6
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	50.0	43.6		ug/Kg		87	70 - 125
1,2-Dichlorobenzene	50.0	49.4		ug/Kg		99	75 - 120
1,3-Dichlorobenzene	50.0	48.5		ug/Kg		97	75 - 125
4-Chlorotoluene	50.0	43.4		ug/Kg		87	75 - 125
1,4-Dichlorobenzene	50.0	47.8		ug/Kg		96	75 - 120
1,3-Dichloropropane	50.0	43.4		ug/Kg		87	70 - 125
Benzene	50.0	50.7		ug/Kg		101	65 - 120
1,1-Dichloropropene	50.0	45.9		ug/Kg		92	70 - 130
Bromobenzene	50.0	49.9		ug/Kg		100	75 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.0		ug/Kg		88	50 - 135
Bromoform	50.0	52.6		ug/Kg		105	55 - 135
Bromomethane	50.0	61.8		ug/Kg		124	60 - 145
Carbon disulfide	50.0	50.8		ug/Kg		102	50 - 130
Carbon tetrachloride	50.0	46.7		ug/Kg		93	65 - 140
1,1-Dichloroethane	50.0	45.6		ug/Kg		91	70 - 130
Chlorobenzene	50.0	47.8		ug/Kg		96	75 - 120
1,2-Dichloroethane	50.0	42.9		ug/Kg		86	60 - 140
Chlorobromomethane	50.0	63.0		ug/Kg		126	70 - 135
1,1-Dichloroethene	50.0	60.4		ug/Kg		121	70 - 125
Chloroethane	50.0	53.3		ug/Kg		107	60 - 140
Chloroform	50.0	49.9		ug/Kg		100	70 - 130
Chloromethane	50.0	44.9		ug/Kg		90	45 - 145
1,2-Dichloropropane	50.0	46.9		ug/Kg		94	70 - 130
cis-1,2-Dichloroethene	50.0	52.3		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	75 - 125
Chlorodibromomethane	50.0	47.2		ug/Kg		94	65 - 140
Dibromomethane	50.0	48.1		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	46.1		ug/Kg		92	70 - 135
2-Hexanone	50.0	35.7		ug/Kg		71	40 - 150
Dichlorodifluoromethane	50.0	43.7		ug/Kg		87	35 - 160
Ethylbenzene	50.0	46.4		ug/Kg		93	70 - 125
4-Isopropyltoluene	50.0	46.6		ug/Kg		93	75 - 125
Hexachlorobutadiene	50.0	52.0		ug/Kg		104	60 - 135
Isopropylbenzene	50.0	49.0		ug/Kg		98	75 - 130
Methylene Chloride	50.0	56.3		ug/Kg		113	55 - 135
Methyl tert-butyl ether	50.0	51.0		ug/Kg		102	60 - 140
Naphthalene	50.0	49.2		ug/Kg		98	55 - 135
1,1,1,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	70 - 130
n-Butylbenzene	50.0	44.5		ug/Kg		89	70 - 130
1,1,2,2-Tetrachloroethane	50.0	43.3		ug/Kg		87	55 - 140
N-Propylbenzene	50.0	44.4		ug/Kg		89	70 - 130
sec-Butylbenzene	50.0	47.2		ug/Kg		94	70 - 125
1,2,3-Trichlorobenzene	50.0	52.0		ug/Kg		104	60 - 130
Styrene	50.0	48.6		ug/Kg		97	75 - 130
1,2,4-Trichlorobenzene	50.0	52.5		ug/Kg		105	70 - 135
tert-Butylbenzene	50.0	48.5		ug/Kg		97	70 - 125
1,1,1-Trichloroethane	50.0	45.8		ug/Kg		92	65 - 135
Tetrachloroethene	50.0	53.9		ug/Kg		108	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525479/6
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	47.5		ug/Kg		95	65 - 135
Toluene	50.0	47.3		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	58.2		ug/Kg		116	70 - 125
1,2,3-Trichloropropane	50.0	45.7		ug/Kg		91	60 - 135
trans-1,3-Dichloropropene	50.0	46.1		ug/Kg		92	70 - 135
Trichloroethene	50.0	56.4		ug/Kg		113	70 - 125
1,2,4-Trimethylbenzene	50.0	45.2		ug/Kg		90	70 - 125
Trichlorofluoromethane	50.0	47.0		ug/Kg		94	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.0		ug/Kg		118	60 - 140
1,3,5-Trimethylbenzene	50.0	45.4		ug/Kg		91	70 - 125
Vinyl acetate	50.0	45.5		ug/Kg		91	45 - 145
Vinyl chloride	50.0	48.1		ug/Kg		96	55 - 135
m-Xylene & p-Xylene	50.0	49.5		ug/Kg		99	70 - 125
Ethylene Dibromide	50.0	48.0		ug/Kg		96	70 - 130
o-Xylene	50.0	50.3		ug/Kg		101	70 - 125
2-Butanone (MEK)	50.0	48.9		ug/Kg		98	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	35.2		ug/Kg		70	40 - 145
2,2-Dichloropropane	50.0	46.8		ug/Kg		94	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*
Toluene-d8 (Surr)	*93*		*79 - 123*

Lab Sample ID: LCSD 440-525479/7
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	50.0	42.4		ug/Kg		85	70 - 125	3	20
1,2-Dichlorobenzene	50.0	48.9		ug/Kg		98	75 - 120	1	20
1,3-Dichlorobenzene	50.0	47.1		ug/Kg		94	75 - 125	3	20
4-Chlorotoluene	50.0	43.3		ug/Kg		87	75 - 125	0	20
1,4-Dichlorobenzene	50.0	46.6		ug/Kg		93	75 - 120	3	20
1,3-Dichloropropane	50.0	43.7		ug/Kg		87	70 - 125	1	20
Benzene	50.0	46.5		ug/Kg		93	65 - 120	9	20
1,1-Dichloropropene	50.0	43.3		ug/Kg		87	70 - 130	6	20
Bromobenzene	50.0	48.8		ug/Kg		98	75 - 120	2	20
1,2-Dibromo-3-Chloropropane	50.0	42.6		ug/Kg		85	50 - 135	3	30
Bromoform	50.0	51.2		ug/Kg		102	55 - 135	3	25
Bromomethane	50.0	57.0		ug/Kg		114	60 - 145	8	20
Carbon disulfide	50.0	47.6		ug/Kg		95	50 - 130	6	20
Carbon tetrachloride	50.0	43.4		ug/Kg		87	65 - 140	7	20
1,1-Dichloroethane	50.0	42.0		ug/Kg		84	70 - 130	8	20
Chlorobenzene	50.0	46.1		ug/Kg		92	75 - 120	4	20
1,2-Dichloroethane	50.0	38.9		ug/Kg		78	60 - 140	10	20
Chlorobromomethane	50.0	58.1		ug/Kg		116	70 - 135	8	20
1,1-Dichloroethene	50.0	57.7		ug/Kg		115	70 - 125	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525479/7
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	50.0	48.5		ug/Kg		97	60 - 140	9	25
Chloroform	50.0	46.8		ug/Kg		94	70 - 130	7	20
Chloromethane	50.0	41.8		ug/Kg		84	45 - 145	7	25
1,2-Dichloropropane	50.0	41.4		ug/Kg		83	70 - 130	12	20
cis-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	70 - 125	7	20
cis-1,3-Dichloropropene	50.0	47.0		ug/Kg		94	75 - 125	2	20
Chlorodibromomethane	50.0	46.2		ug/Kg		92	65 - 140	2	20
Dibromomethane	50.0	46.6		ug/Kg		93	70 - 130	3	20
Dichlorobromomethane	50.0	41.5		ug/Kg		83	70 - 135	10	20
2-Hexanone	50.0	35.8		ug/Kg		72	40 - 150	0	35
Dichlorodifluoromethane	50.0	40.4		ug/Kg		81	35 - 160	8	30
Ethylbenzene	50.0	44.7		ug/Kg		89	70 - 125	4	20
4-Isopropyltoluene	50.0	45.5		ug/Kg		91	75 - 125	2	20
Hexachlorobutadiene	50.0	50.2		ug/Kg		100	60 - 135	4	20
Isopropylbenzene	50.0	48.0		ug/Kg		96	75 - 130	2	20
Methylene Chloride	50.0	50.2		ug/Kg		100	55 - 135	11	20
Methyl tert-butyl ether	50.0	47.5		ug/Kg		95	60 - 140	7	25
Naphthalene	50.0	49.4		ug/Kg		99	55 - 135	0	25
1,1,1,2-Tetrachloroethane	50.0	47.5		ug/Kg		95	70 - 130	1	20
n-Butylbenzene	50.0	43.5		ug/Kg		87	70 - 130	2	20
1,1,2,2-Tetrachloroethane	50.0	43.0		ug/Kg		86	55 - 140	1	30
N-Propylbenzene	50.0	43.2		ug/Kg		86	70 - 130	3	20
sec-Butylbenzene	50.0	45.6		ug/Kg		91	70 - 125	3	20
1,2,3-Trichlorobenzene	50.0	51.3		ug/Kg		103	60 - 130	1	20
Styrene	50.0	47.6		ug/Kg		95	75 - 130	2	20
1,2,4-Trichlorobenzene	50.0	52.4		ug/Kg		105	70 - 135	0	20
tert-Butylbenzene	50.0	47.3		ug/Kg		95	70 - 125	3	20
1,1,1-Trichloroethane	50.0	42.5		ug/Kg		85	65 - 135	7	20
Tetrachloroethene	50.0	51.3		ug/Kg		103	70 - 125	5	20
1,1,2-Trichloroethane	50.0	45.5		ug/Kg		91	65 - 135	4	20
Toluene	50.0	45.5		ug/Kg		91	70 - 125	4	20
trans-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	70 - 125	6	20
1,2,3-Trichloropropane	50.0	43.8		ug/Kg		88	60 - 135	4	25
trans-1,3-Dichloropropene	50.0	45.5		ug/Kg		91	70 - 135	1	20
Trichloroethene	50.0	53.2		ug/Kg		106	70 - 125	6	20
1,2,4-Trimethylbenzene	50.0	44.0		ug/Kg		88	70 - 125	3	20
Trichlorofluoromethane	50.0	43.8		ug/Kg		88	60 - 145	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.9		ug/Kg		110	60 - 140	7	40
1,3,5-Trimethylbenzene	50.0	43.8		ug/Kg		88	70 - 125	4	20
Vinyl acetate	50.0	42.3		ug/Kg		85	45 - 145	7	20
Vinyl chloride	50.0	45.0		ug/Kg		90	55 - 135	6	25
m-Xylene & p-Xylene	50.0	49.0		ug/Kg		98	70 - 125	1	20
Ethylene Dibromide	50.0	46.9		ug/Kg		94	70 - 130	2	20
o-Xylene	50.0	48.6		ug/Kg		97	70 - 125	3	20
2-Butanone (MEK)	50.0	50.4		ug/Kg		101	40 - 145	3	35
4-Methyl-2-pentanone (MIBK)	50.0	36.4		ug/Kg		73	40 - 145	3	35
2,2-Dichloropropane	50.0	42.6		ug/Kg		85	60 - 145	9	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525479/7
Matrix: Solid
Analysis Batch: 525479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
Toluene-d8 (Surr)	*95*		*79 - 123*

Lab Sample ID: MB 440-525787/4
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Benzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/30/19 10:53	1
Bromoform	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/30/19 10:53	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/30/19 10:53	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Chloroform	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
2-Hexanone	ND		10	5.0	ug/Kg			01/30/19 10:53	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/30/19 10:53	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525787/4
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Styrene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/30/19 10:53	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Toluene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/30/19 10:53	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/30/19 10:53	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/30/19 10:53	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/30/19 10:53	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/30/19 10:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/30/19 10:53	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/30/19 10:53*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/30/19 10:53*	*1*

Lab Sample ID: LCS 440-525787/5
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	50.0	48.1		ug/Kg		96	70 - 125
1,2-Dichlorobenzene	50.0	49.3		ug/Kg		99	75 - 120
1,3-Dichlorobenzene	50.0	49.5		ug/Kg		99	75 - 125
4-Chlorotoluene	50.0	48.9		ug/Kg		98	75 - 125
1,4-Dichlorobenzene	50.0	48.4		ug/Kg		97	75 - 120
1,3-Dichloropropane	50.0	49.5		ug/Kg		99	70 - 125
Benzene	50.0	49.1		ug/Kg		98	65 - 120
1,1-Dichloropropene	50.0	51.0		ug/Kg		102	70 - 130
Bromobenzene	50.0	50.2		ug/Kg		100	75 - 120
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/Kg		106	50 - 135
Bromoform	50.0	52.9		ug/Kg		106	55 - 135
Bromomethane	50.0	50.2		ug/Kg		100	60 - 145
Carbon disulfide	50.0	51.6		ug/Kg		103	50 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525787/5
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	50.9		ug/Kg		102	65 - 140
1,1-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 130
Chlorobenzene	50.0	49.4		ug/Kg		99	75 - 120
1,2-Dichloroethane	50.0	47.1		ug/Kg		94	60 - 140
Chlorobromomethane	50.0	51.8		ug/Kg		104	70 - 135
1,1-Dichloroethene	50.0	49.3		ug/Kg		99	70 - 125
Chloroethane	50.0	47.3		ug/Kg		95	60 - 140
Chloroform	50.0	48.3		ug/Kg		97	70 - 130
Chloromethane	50.0	53.9		ug/Kg		108	45 - 145
1,2-Dichloropropane	50.0	51.0		ug/Kg		102	70 - 130
cis-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	75 - 125
Chlorodibromomethane	50.0	53.0		ug/Kg		106	65 - 140
Dibromomethane	50.0	50.4		ug/Kg		101	70 - 130
Dichlorobromomethane	50.0	49.7		ug/Kg		99	70 - 135
2-Hexanone	50.0	46.2		ug/Kg		92	40 - 150
Dichlorodifluoromethane	50.0	51.9	E	ug/Kg		104	35 - 160
Ethylbenzene	50.0	47.0		ug/Kg		94	70 - 125
4-Isopropyltoluene	50.0	49.8		ug/Kg		100	75 - 125
Hexachlorobutadiene	50.0	50.3		ug/Kg		101	60 - 135
Isopropylbenzene	50.0	47.9		ug/Kg		96	75 - 130
Methylene Chloride	50.0	46.9		ug/Kg		94	55 - 135
Methyl tert-butyl ether	50.0	48.5		ug/Kg		97	60 - 140
Naphthalene	50.0	48.1		ug/Kg		96	55 - 135
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/Kg		102	70 - 130
n-Butylbenzene	50.0	48.5		ug/Kg		97	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	55 - 140
N-Propylbenzene	50.0	46.9		ug/Kg		94	70 - 130
sec-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 125
1,2,3-Trichlorobenzene	50.0	50.2		ug/Kg		100	60 - 130
Styrene	50.0	46.5		ug/Kg		93	75 - 130
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	70 - 135
tert-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 125
1,1,1-Trichloroethane	50.0	50.6		ug/Kg		101	65 - 135
Tetrachloroethene	50.0	49.9		ug/Kg		100	70 - 125
1,1,2-Trichloroethane	50.0	51.5		ug/Kg		103	65 - 135
Toluene	50.0	46.3		ug/Kg		93	70 - 125
trans-1,2-Dichloroethene	50.0	52.2		ug/Kg		104	70 - 125
1,2,3-Trichloropropane	50.0	51.9		ug/Kg		104	60 - 135
trans-1,3-Dichloropropene	50.0	51.4		ug/Kg		103	70 - 135
Trichloroethene	50.0	51.6		ug/Kg		103	70 - 125
1,2,4-Trimethylbenzene	50.0	48.5		ug/Kg		97	70 - 125
Trichlorofluoromethane	50.0	51.8		ug/Kg		104	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.5		ug/Kg		107	60 - 140
1,3,5-Trimethylbenzene	50.0	48.8		ug/Kg		98	70 - 125
Vinyl acetate	50.0	49.6		ug/Kg		99	45 - 145
Vinyl chloride	50.0	49.5		ug/Kg		99	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525787/5
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	49.4		ug/Kg		99	70 - 125
Ethylene Dibromide	50.0	50.1		ug/Kg		100	70 - 130
o-Xylene	50.0	49.9		ug/Kg		100	70 - 125
2-Butanone (MEK)	50.0	54.0		ug/Kg		108	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	45.8		ug/Kg		92	40 - 145
2,2-Dichloropropane	50.0	50.4		ug/Kg		101	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-525790/8
Matrix: Solid
Analysis Batch: 525790

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Benzene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/30/19 12:31	1
Bromoform	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/30/19 12:31	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/30/19 12:31	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Chloroform	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
2-Hexanone	ND		10	5.0	ug/Kg			01/30/19 12:31	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525790/8
Matrix: Solid
Analysis Batch: 525790

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/30/19 12:31	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Styrene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/30/19 12:31	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Toluene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/30/19 12:31	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/30/19 12:31	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/30/19 12:31	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/30/19 12:31	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/30/19 12:31	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/30/19 12:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/30/19 12:31	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/30/19 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*01/30/19 12:31*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*		*01/30/19 12:31*	*1*

Lab Sample ID: LCS 440-525790/5
Matrix: Solid
Analysis Batch: 525790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	50.0	48.5		ug/Kg		97	70 - 125
1,2-Dichlorobenzene	50.0	50.3		ug/Kg		101	75 - 120
1,3-Dichlorobenzene	50.0	48.8		ug/Kg		98	75 - 125
4-Chlorotoluene	50.0	47.9		ug/Kg		96	75 - 125
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525790/5
Matrix: Solid
Analysis Batch: 525790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	47.1		ug/Kg		94	70 - 125
Benzene	50.0	48.3		ug/Kg		97	65 - 120
1,1-Dichloropropene	50.0	52.0		ug/Kg		104	70 - 130
Bromobenzene	50.0	48.2		ug/Kg		96	75 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.0		ug/Kg		100	50 - 135
Bromoform	50.0	52.9		ug/Kg		106	55 - 135
Bromomethane	50.0	51.2		ug/Kg		102	60 - 145
Carbon disulfide	50.0	51.6		ug/Kg		103	50 - 130
Carbon tetrachloride	50.0	52.6		ug/Kg		105	65 - 140
1,1-Dichloroethane	50.0	49.0		ug/Kg		98	70 - 130
Chlorobenzene	50.0	47.7		ug/Kg		95	75 - 120
1,2-Dichloroethane	50.0	45.4		ug/Kg		91	60 - 140
Chlorobromomethane	50.0	52.6		ug/Kg		105	70 - 135
1,1-Dichloroethene	50.0	53.6		ug/Kg		107	70 - 125
Chloroethane	50.0	48.4		ug/Kg		97	60 - 140
Chloroform	50.0	48.8		ug/Kg		98	70 - 130
Chloromethane	50.0	53.6		ug/Kg		107	45 - 145
1,2-Dichloropropane	50.0	50.0		ug/Kg		100	70 - 130
cis-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	70 - 125
cis-1,3-Dichloropropene	50.0	51.7		ug/Kg		103	75 - 125
Chlorodibromomethane	50.0	51.5		ug/Kg		103	65 - 140
Dibromomethane	50.0	49.8		ug/Kg		100	70 - 130
Dichlorobromomethane	50.0	49.7		ug/Kg		99	70 - 135
2-Hexanone	50.0	50.5		ug/Kg		101	40 - 150
Dichlorodifluoromethane	50.0	55.8	E	ug/Kg		112	35 - 160
Ethylbenzene	50.0	47.5		ug/Kg		95	70 - 125
4-Isopropyltoluene	50.0	51.9		ug/Kg		104	75 - 125
Hexachlorobutadiene	50.0	52.3		ug/Kg		105	60 - 135
Isopropylbenzene	50.0	50.6		ug/Kg		101	75 - 130
Methylene Chloride	50.0	46.6		ug/Kg		93	55 - 135
Methyl tert-butyl ether	50.0	49.6		ug/Kg		99	60 - 140
Naphthalene	50.0	49.1		ug/Kg		98	55 - 135
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/Kg		101	70 - 130
n-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/Kg		99	55 - 140
N-Propylbenzene	50.0	49.0		ug/Kg		98	70 - 130
sec-Butylbenzene	50.0	51.4		ug/Kg		103	70 - 125
1,2,3-Trichlorobenzene	50.0	50.8		ug/Kg		102	60 - 130
Styrene	50.0	46.0		ug/Kg		92	75 - 130
1,2,4-Trichlorobenzene	50.0	52.5		ug/Kg		105	70 - 135
tert-Butylbenzene	50.0	50.8		ug/Kg		102	70 - 125
1,1,1-Trichloroethane	50.0	50.9		ug/Kg		102	65 - 135
Tetrachloroethene	50.0	50.8		ug/Kg		102	70 - 125
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	65 - 135
Toluene	50.0	47.9		ug/Kg		96	70 - 125
trans-1,2-Dichloroethene	50.0	51.2		ug/Kg		102	70 - 125
1,2,3-Trichloropropane	50.0	47.8		ug/Kg		96	60 - 135
trans-1,3-Dichloropropene	50.0	49.5		ug/Kg		99	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525790/5
Matrix: Solid
Analysis Batch: 525790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichloroethene			50.0	51.2		ug/Kg		102	70 - 125		
1,2,4-Trimethylbenzene			50.0	48.9		ug/Kg		98	70 - 125		
Trichlorofluoromethane			50.0	55.0		ug/Kg		110	60 - 145		
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	54.5		ug/Kg		109	60 - 140		
1,3,5-Trimethylbenzene			50.0	49.9		ug/Kg		100	70 - 125		
Vinyl acetate			50.0	48.9		ug/Kg		98	45 - 145		
Vinyl chloride			50.0	55.2		ug/Kg		110	55 - 135		
m-Xylene & p-Xylene			50.0	49.0		ug/Kg		98	70 - 125		
Ethylene Dibromide			50.0	49.7		ug/Kg		99	70 - 130		
o-Xylene			50.0	48.2		ug/Kg		96	70 - 125		
2-Butanone (MEK)			50.0	58.6		ug/Kg		117	40 - 145		
4-Methyl-2-pentanone (MIBK)			50.0	48.5		ug/Kg		97	40 - 145		
2,2-Dichloropropane			50.0	51.0		ug/Kg		102	60 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-525790/9
Matrix: Solid
Analysis Batch: 525790

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene			50.0	45.7		ug/Kg		91	70 - 125	6	20
1,2-Dichlorobenzene			50.0	45.4		ug/Kg		91	75 - 120	10	20
1,3-Dichlorobenzene			50.0	45.7		ug/Kg		91	75 - 125	7	20
4-Chlorotoluene			50.0	45.7		ug/Kg		91	75 - 125	5	20
1,4-Dichlorobenzene			50.0	45.2		ug/Kg		90	75 - 120	5	20
1,3-Dichloropropane			50.0	45.0		ug/Kg		90	70 - 125	5	20
Benzene			50.0	46.1		ug/Kg		92	65 - 120	5	20
1,1-Dichloropropene			50.0	49.9		ug/Kg		100	70 - 130	4	20
Bromobenzene			50.0	46.2		ug/Kg		92	75 - 120	4	20
1,2-Dibromo-3-Chloropropane			50.0	44.7		ug/Kg		89	50 - 135	11	30
Bromoform			50.0	50.7		ug/Kg		101	55 - 135	4	25
Bromomethane			50.0	47.0		ug/Kg		94	60 - 145	9	20
Carbon disulfide			50.0	47.2		ug/Kg		94	50 - 130	9	20
Carbon tetrachloride			50.0	49.6		ug/Kg		99	65 - 140	6	20
1,1-Dichloroethane			50.0	46.3		ug/Kg		93	70 - 130	6	20
Chlorobenzene			50.0	45.8		ug/Kg		92	75 - 120	4	20
1,2-Dichloroethane			50.0	44.2		ug/Kg		88	60 - 140	3	20
Chlorobromomethane			50.0	48.5		ug/Kg		97	70 - 135	8	20
1,1-Dichloroethene			50.0	50.3		ug/Kg		101	70 - 125	6	20
Chloroethane			50.0	45.3		ug/Kg		91	60 - 140	6	25
Chloroform			50.0	46.6		ug/Kg		93	70 - 130	5	20
Chloromethane			50.0	44.2		ug/Kg		88	45 - 145	19	25
1,2-Dichloropropane			50.0	48.0		ug/Kg		96	70 - 130	4	20
cis-1,2-Dichloroethene			50.0	46.5		ug/Kg		93	70 - 125	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525790/9
Matrix: Solid
Analysis Batch: 525790

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	48.4		ug/Kg		97	75 - 125	6	20
Chlorodibromomethane			50.0	49.1		ug/Kg		98	65 - 140	5	20
Dibromomethane			50.0	47.8		ug/Kg		96	70 - 130	4	20
Dichlorobromomethane			50.0	47.0		ug/Kg		94	70 - 135	6	20
2-Hexanone			50.0	46.1		ug/Kg		92	40 - 150	9	35
Dichlorodifluoromethane			50.0	42.3		ug/Kg		85	35 - 160	27	30
Ethylbenzene			50.0	45.9		ug/Kg		92	70 - 125	3	20
4-Isopropyltoluene			50.0	47.9		ug/Kg		96	75 - 125	8	20
Hexachlorobutadiene			50.0	46.0		ug/Kg		92	60 - 135	13	20
Isopropylbenzene			50.0	48.1		ug/Kg		96	75 - 130	5	20
Methylene Chloride			50.0	42.2		ug/Kg		84	55 - 135	10	20
Methyl tert-butyl ether			50.0	44.2		ug/Kg		88	60 - 140	12	25
Naphthalene			50.0	43.8		ug/Kg		88	55 - 135	11	25
1,1,1,2-Tetrachloroethane			50.0	47.9		ug/Kg		96	70 - 130	5	20
n-Butylbenzene			50.0	46.2		ug/Kg		92	70 - 130	9	20
1,1,2,2-Tetrachloroethane			50.0	47.1		ug/Kg		94	55 - 140	5	30
N-Propylbenzene			50.0	46.6		ug/Kg		93	70 - 130	5	20
sec-Butylbenzene			50.0	47.7		ug/Kg		95	70 - 125	7	20
1,2,3-Trichlorobenzene			50.0	45.6		ug/Kg		91	60 - 130	11	20
Styrene			50.0	44.6		ug/Kg		89	75 - 130	3	20
1,2,4-Trichlorobenzene			50.0	46.9		ug/Kg		94	70 - 135	11	20
tert-Butylbenzene			50.0	46.8		ug/Kg		94	70 - 125	8	20
1,1,1-Trichloroethane			50.0	48.4		ug/Kg		97	65 - 135	5	20
Tetrachloroethene			50.0	48.6		ug/Kg		97	70 - 125	4	20
1,1,2-Trichloroethane			50.0	45.8		ug/Kg		92	65 - 135	5	20
Toluene			50.0	45.9		ug/Kg		92	70 - 125	4	20
trans-1,2-Dichloroethene			50.0	48.9		ug/Kg		98	70 - 125	5	20
1,2,3-Trichloropropane			50.0	45.3		ug/Kg		91	60 - 135	5	25
trans-1,3-Dichloropropene			50.0	48.0		ug/Kg		96	70 - 135	3	20
Trichloroethene			50.0	49.7		ug/Kg		99	70 - 125	3	20
1,2,4-Trimethylbenzene			50.0	45.7		ug/Kg		91	70 - 125	7	20
Trichlorofluoromethane			50.0	51.3		ug/Kg		103	60 - 145	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	50.7		ug/Kg		101	60 - 140	7	40
1,3,5-Trimethylbenzene			50.0	46.7		ug/Kg		93	70 - 125	7	20
Vinyl acetate			50.0	47.0		ug/Kg		94	45 - 145	4	20
Vinyl chloride			50.0	47.9		ug/Kg		96	55 - 135	14	25
m-Xylene & p-Xylene			50.0	46.7		ug/Kg		93	70 - 125	5	20
Ethylene Dibromide			50.0	46.8		ug/Kg		94	70 - 130	6	20
o-Xylene			50.0	46.1		ug/Kg		92	70 - 125	4	20
2-Butanone (MEK)			50.0	59.1		ug/Kg		118	40 - 145	1	35
4-Methyl-2-pentanone (MIBK)			50.0	45.1		ug/Kg		90	40 - 145	7	35
2,2-Dichloropropane			50.0	51.4		ug/Kg		103	60 - 145	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-A-8-B MS
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		35.0	37.7		ug/Kg		108	60 - 135
1,2-Dichlorobenzene	ND		35.0	34.3		ug/Kg		98	70 - 130
1,3-Dichlorobenzene	ND		35.0	35.2		ug/Kg		101	70 - 130
4-Chlorotoluene	ND		35.0	36.5		ug/Kg		104	65 - 135
1,4-Dichlorobenzene	ND		35.0	33.8		ug/Kg		97	70 - 130
1,3-Dichloropropane	ND		35.0	35.6		ug/Kg		102	65 - 140
Benzene	ND		35.0	33.9		ug/Kg		97	65 - 130
1,1-Dichloropropene	ND		35.0	34.1		ug/Kg		97	65 - 135
Bromobenzene	ND		35.0	39.2		ug/Kg		112	65 - 140
1,2-Dibromo-3-Chloropropane	ND		35.0	40.7		ug/Kg		116	40 - 150
Bromoform	ND		35.0	36.3		ug/Kg		104	50 - 145
Bromomethane	ND		35.0	32.5		ug/Kg		93	60 - 155
Carbon disulfide	ND		35.0	31.8		ug/Kg		91	40 - 140
Carbon tetrachloride	ND		35.0	35.0		ug/Kg		100	60 - 145
1,1-Dichloroethane	ND		35.0	33.7		ug/Kg		96	65 - 135
Chlorobenzene	ND		35.0	33.7		ug/Kg		96	70 - 130
1,2-Dichloroethane	ND		35.0	33.6		ug/Kg		96	60 - 150
Chlorobromomethane	ND		35.0	35.5		ug/Kg		101	65 - 145
1,1-Dichloroethene	ND		35.0	33.0		ug/Kg		94	65 - 135
Chloroethane	ND		35.0	31.1		ug/Kg		89	60 - 150
Chloroform	ND		35.0	34.4		ug/Kg		98	65 - 135
Chloromethane	ND		35.0	32.5		ug/Kg		93	40 - 145
1,2-Dichloropropane	ND		35.0	35.9		ug/Kg		103	65 - 130
cis-1,2-Dichloroethene	ND		35.0	34.4		ug/Kg		98	65 - 135
cis-1,3-Dichloropropene	ND		35.0	35.7		ug/Kg		102	70 - 135
Chlorodibromomethane	ND		35.0	37.6		ug/Kg		107	60 - 145
Dibromomethane	ND		35.0	35.3		ug/Kg		101	65 - 140
Dichlorobromomethane	ND		35.0	34.6		ug/Kg		99	65 - 145
2-Hexanone	ND		35.0	35.1		ug/Kg		100	35 - 160
Dichlorodifluoromethane	ND		35.0	30.9		ug/Kg		88	30 - 160
Ethylbenzene	ND		35.0	31.9		ug/Kg		91	70 - 135
4-Isopropyltoluene	ND		35.0	34.0		ug/Kg		97	60 - 140
Hexachlorobutadiene	ND		35.0	20.5		ug/Kg		59	50 - 145
Isopropylbenzene	ND		35.0	30.8		ug/Kg		88	70 - 145
Methylene Chloride	ND		35.0	32.4		ug/Kg		92	55 - 145
Methyl tert-butyl ether	ND		35.0	35.2		ug/Kg		101	55 - 155
Naphthalene	ND		35.0	27.8		ug/Kg		79	40 - 150
1,1,1,2-Tetrachloroethane	ND		35.0	35.7		ug/Kg		102	65 - 145
n-Butylbenzene	ND		35.0	30.7		ug/Kg		88	55 - 145
1,1,2,2-Tetrachloroethane	ND		35.0	41.4		ug/Kg		118	40 - 160
N-Propylbenzene	ND		35.0	35.8		ug/Kg		102	65 - 140
sec-Butylbenzene	ND		35.0	32.7		ug/Kg		94	60 - 135
1,2,3-Trichlorobenzene	ND		35.0	21.8		ug/Kg		62	45 - 145
Styrene	ND		35.0	30.9		ug/Kg		88	70 - 140
1,2,4-Trichlorobenzene	ND		35.0	24.1		ug/Kg		69	50 - 140
tert-Butylbenzene	ND		35.0	36.7		ug/Kg		105	60 - 140
1,1,1-Trichloroethane	ND		35.0	35.0		ug/Kg		100	65 - 145
Tetrachloroethene	ND		35.0	34.0		ug/Kg		97	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-A-8-B MS
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	ND		35.0	37.0		ug/Kg		106	65 - 140
Toluene	ND		35.0	33.1		ug/Kg		95	70 - 130
trans-1,2-Dichloroethene	ND		35.0	33.5		ug/Kg		96	70 - 135
1,2,3-Trichloropropane	ND		35.0	46.0		ug/Kg		131	50 - 150
trans-1,3-Dichloropropene	ND		35.0	34.4		ug/Kg		98	60 - 145
Trichloroethene	ND		35.0	34.5		ug/Kg		99	65 - 140
1,2,4-Trimethylbenzene	ND		35.0	35.8		ug/Kg		102	65 - 140
Trichlorofluoromethane	ND		35.0	35.3		ug/Kg		101	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		35.0	35.3		ug/Kg		101	60 - 140
1,3,5-Trimethylbenzene	ND		35.0	36.2		ug/Kg		103	65 - 135
Vinyl acetate	ND		35.0	30.4		ug/Kg		87	40 - 150
Vinyl chloride	ND		35.0	30.9		ug/Kg		88	55 - 140
m-Xylene & p-Xylene	ND		35.0	33.3		ug/Kg		95	70 - 130
Ethylene Dibromide	ND		35.0	35.7		ug/Kg		102	65 - 140
o-Xylene	ND		35.0	34.1		ug/Kg		97	65 - 130
2-Butanone (MEK)	ND		35.0	43.7		ug/Kg		125	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		35.0	33.8		ug/Kg		97	40 - 155
2,2-Dichloropropane	ND		35.0	34.6		ug/Kg		99	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: 720-91011-B-8-B MSD
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		35.2	30.6		ug/Kg		87	60 - 135	21	25
1,2-Dichlorobenzene	ND		35.2	31.3		ug/Kg		89	70 - 130	9	25
1,3-Dichlorobenzene	ND		35.2	31.1		ug/Kg		88	70 - 130	12	25
4-Chlorotoluene	ND		35.2	30.7		ug/Kg		87	65 - 135	17	25
1,4-Dichlorobenzene	ND		35.2	29.6		ug/Kg		84	70 - 130	13	25
1,3-Dichloropropane	ND		35.2	33.5		ug/Kg		95	65 - 140	6	25
Benzene	ND		35.2	33.0		ug/Kg		94	65 - 130	3	20
1,1-Dichloropropene	ND		35.2	32.7		ug/Kg		93	65 - 135	4	20
Bromobenzene	ND		35.2	32.2		ug/Kg		91	65 - 140	20	25
1,2-Dibromo-3-Chloropropane	ND		35.2	34.1		ug/Kg		97	40 - 150	18	30
Bromoform	ND		35.2	34.9		ug/Kg		99	50 - 145	4	30
Bromomethane	ND		35.2	31.8		ug/Kg		90	60 - 155	2	25
Carbon disulfide	ND		35.2	29.9		ug/Kg		85	40 - 140	6	20
Carbon tetrachloride	ND		35.2	34.2		ug/Kg		97	60 - 145	2	25
1,1-Dichloroethane	ND		35.2	33.0		ug/Kg		94	65 - 135	2	25
Chlorobenzene	ND		35.2	31.6		ug/Kg		90	70 - 130	6	25
1,2-Dichloroethane	ND		35.2	32.2		ug/Kg		91	60 - 150	4	25
Chlorobromomethane	ND		35.2	34.4		ug/Kg		98	65 - 145	3	25
1,1-Dichloroethene	ND		35.2	31.5		ug/Kg		89	65 - 135	5	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-B-8-B MSD
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	ND		35.2	30.3		ug/Kg		86	60 - 150	3	25
Chloroform	ND		35.2	33.1		ug/Kg		94	65 - 135	4	20
Chloromethane	ND		35.2	32.5		ug/Kg		92	40 - 145	0	25
1,2-Dichloropropane	ND		35.2	35.2		ug/Kg		100	65 - 130	2	20
cis-1,2-Dichloroethene	ND		35.2	32.7		ug/Kg		93	65 - 135	5	25
cis-1,3-Dichloropropene	ND		35.2	32.9		ug/Kg		93	70 - 135	8	25
Chlorodibromomethane	ND		35.2	35.4		ug/Kg		101	60 - 145	6	25
Dibromomethane	ND		35.2	33.7		ug/Kg		96	65 - 140	4	25
Dichlorobromomethane	ND		35.2	33.9		ug/Kg		96	65 - 145	2	20
2-Hexanone	ND		35.2	32.8		ug/Kg		93	35 - 160	7	40
Dichlorodifluoromethane	ND		35.2	30.3		ug/Kg		86	30 - 160	2	35
Ethylbenzene	ND		35.2	30.1		ug/Kg		86	70 - 135	6	25
4-Isopropyltoluene	ND		35.2	31.0		ug/Kg		88	60 - 140	9	25
Hexachlorobutadiene	ND		35.2	25.8		ug/Kg		73	50 - 145	23	35
Isopropylbenzene	ND		35.2	30.4		ug/Kg		86	70 - 145	1	25
Methylene Chloride	ND		35.2	30.7		ug/Kg		87	55 - 145	5	25
Methyl tert-butyl ether	ND		35.2	34.2		ug/Kg		97	55 - 155	3	35
Naphthalene	ND		35.2	29.8		ug/Kg		85	40 - 150	7	40
1,1,1,2-Tetrachloroethane	ND		35.2	34.2		ug/Kg		97	65 - 145	4	20
n-Butylbenzene	ND		35.2	28.9		ug/Kg		82	55 - 145	6	30
1,1,2,2-Tetrachloroethane	ND		35.2	33.8		ug/Kg		96	40 - 160	20	30
N-Propylbenzene	ND		35.2	29.8		ug/Kg		85	65 - 140	18	25
sec-Butylbenzene	ND		35.2	30.1		ug/Kg		86	60 - 135	8	25
1,2,3-Trichlorobenzene	ND		35.2	28.7		ug/Kg		82	45 - 145	27	30
Styrene	ND		35.2	29.4		ug/Kg		84	70 - 140	5	25
1,2,4-Trichlorobenzene	ND		35.2	28.8		ug/Kg		82	50 - 140	18	30
tert-Butylbenzene	ND		35.2	32.5		ug/Kg		92	60 - 140	12	25
1,1,1-Trichloroethane	ND		35.2	34.4		ug/Kg		98	65 - 145	2	20
Tetrachloroethene	ND		35.2	31.4		ug/Kg		89	65 - 135	8	25
1,1,2-Trichloroethane	ND		35.2	35.0		ug/Kg		99	65 - 140	6	30
Toluene	ND		35.2	30.1		ug/Kg		85	70 - 130	10	20
trans-1,2-Dichloroethene	ND		35.2	31.9		ug/Kg		91	70 - 135	5	25
1,2,3-Trichloropropane	ND		35.2	37.0		ug/Kg		105	50 - 150	22	30
trans-1,3-Dichloropropene	ND		35.2	31.5		ug/Kg		89	60 - 145	9	25
Trichloroethene	ND		35.2	33.4		ug/Kg		95	65 - 140	3	25
1,2,4-Trimethylbenzene	ND		35.2	31.2		ug/Kg		89	65 - 140	14	25
Trichlorofluoromethane	ND		35.2	34.4		ug/Kg		98	55 - 155	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		35.2	34.6		ug/Kg		98	60 - 140	2	40
1,3,5-Trimethylbenzene	ND		35.2	31.2		ug/Kg		89	65 - 135	15	25
Vinyl acetate	ND		35.2	28.3		ug/Kg		80	40 - 150	7	30
Vinyl chloride	ND		35.2	30.6		ug/Kg		87	55 - 140	1	30
m-Xylene & p-Xylene	ND		35.2	31.2		ug/Kg		89	70 - 130	7	25
Ethylene Dibromide	ND		35.2	33.9		ug/Kg		96	65 - 140	5	25
o-Xylene	ND		35.2	32.3		ug/Kg		92	65 - 130	5	25
2-Butanone (MEK)	ND		35.2	40.1		ug/Kg		114	25 - 170	9	40
4-Methyl-2-pentanone (MIBK)	ND		35.2	31.2		ug/Kg		89	40 - 155	8	40
2,2-Dichloropropane	ND		35.2	33.5		ug/Kg		95	65 - 150	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-B-8-B MSD
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525870

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-525938/4
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Benzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/30/19 22:27	1
Bromoform	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/30/19 22:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/30/19 22:27	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Chloroform	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
2-Hexanone	ND		10	5.0	ug/Kg			01/30/19 22:27	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/30/19 22:27	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525938/4
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Styrene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/30/19 22:27	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Toluene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/30/19 22:27	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/30/19 22:27	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/30/19 22:27	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/30/19 22:27	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/30/19 22:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/30/19 22:27	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*01/30/19 22:27*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*		*01/30/19 22:27*	*1*

Lab Sample ID: LCS 440-525938/5
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	18.6		ug/Kg		93	70 - 125
1,2-Dichlorobenzene	20.0	18.8		ug/Kg		94	75 - 120
1,3-Dichlorobenzene	20.0	19.0		ug/Kg		95	75 - 125
4-Chlorotoluene	20.0	18.7		ug/Kg		93	75 - 125
1,4-Dichlorobenzene	20.0	18.7		ug/Kg		93	75 - 120
1,3-Dichloropropane	20.0	18.6		ug/Kg		93	70 - 125
Benzene	20.0	19.0		ug/Kg		95	65 - 120
1,1-Dichloropropene	20.0	18.9		ug/Kg		95	70 - 130
Bromobenzene	20.0	18.9		ug/Kg		95	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/Kg		89	50 - 135
Bromoform	20.0	18.6		ug/Kg		93	55 - 135
Bromomethane	20.0	19.6		ug/Kg		98	60 - 145
Carbon disulfide	20.0	18.2		ug/Kg		91	50 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525938/5
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	20.0	18.8		ug/Kg		94	65 - 140
1,1-Dichloroethane	20.0	19.1		ug/Kg		96	70 - 130
Chlorobenzene	20.0	18.9		ug/Kg		95	75 - 120
1,2-Dichloroethane	20.0	18.3		ug/Kg		92	60 - 140
Chlorobromomethane	20.0	19.7		ug/Kg		99	70 - 135
1,1-Dichloroethene	20.0	18.9		ug/Kg		95	70 - 125
Chloroethane	20.0	18.3		ug/Kg		91	60 - 140
Chloroform	20.0	19.3		ug/Kg		96	70 - 130
Chloromethane	20.0	16.7		ug/Kg		83	45 - 145
1,2-Dichloropropane	20.0	19.1		ug/Kg		96	70 - 130
cis-1,2-Dichloroethene	20.0	19.9		ug/Kg		100	70 - 125
cis-1,3-Dichloropropene	20.0	19.6		ug/Kg		98	75 - 125
Chlorodibromomethane	20.0	18.8		ug/Kg		94	65 - 140
Dibromomethane	20.0	19.0		ug/Kg		95	70 - 130
Dichlorobromomethane	20.0	19.2		ug/Kg		96	70 - 135
2-Hexanone	20.0	17.6		ug/Kg		88	40 - 150
Dichlorodifluoromethane	20.0	17.8		ug/Kg		89	35 - 160
Ethylbenzene	20.0	18.9		ug/Kg		95	70 - 125
4-Isopropyltoluene	20.0	19.7		ug/Kg		98	75 - 125
Hexachlorobutadiene	20.0	19.8		ug/Kg		99	60 - 135
Isopropylbenzene	20.0	19.7		ug/Kg		99	75 - 130
Methylene Chloride	20.0	16.4		ug/Kg		82	55 - 135
Methyl tert-butyl ether	20.0	19.7		ug/Kg		99	60 - 140
Naphthalene	20.0	17.2		ug/Kg		86	55 - 135
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/Kg		97	70 - 130
n-Butylbenzene	20.0	18.8		ug/Kg		94	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/Kg		94	55 - 140
N-Propylbenzene	20.0	19.2		ug/Kg		96	70 - 130
sec-Butylbenzene	20.0	19.2		ug/Kg		96	70 - 125
1,2,3-Trichlorobenzene	20.0	18.8		ug/Kg		94	60 - 130
Styrene	20.0	18.1		ug/Kg		90	75 - 130
1,2,4-Trichlorobenzene	20.0	19.6		ug/Kg		98	70 - 135
tert-Butylbenzene	20.0	18.6		ug/Kg		93	70 - 125
1,1,1-Trichloroethane	20.0	18.4		ug/Kg		92	65 - 135
Tetrachloroethene	20.0	18.8		ug/Kg		94	70 - 125
1,1,2-Trichloroethane	20.0	19.6		ug/Kg		98	65 - 135
Toluene	20.0	19.1		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	20.0	19.3		ug/Kg		97	70 - 125
1,2,3-Trichloropropane	20.0	18.3		ug/Kg		92	60 - 135
trans-1,3-Dichloropropene	20.0	18.7		ug/Kg		93	70 - 135
Trichloroethene	20.0	19.2		ug/Kg		96	70 - 125
1,2,4-Trimethylbenzene	20.0	18.7		ug/Kg		94	70 - 125
Trichlorofluoromethane	20.0	18.8		ug/Kg		94	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.4		ug/Kg		92	60 - 140
1,3,5-Trimethylbenzene	20.0	18.9		ug/Kg		95	70 - 125
Vinyl acetate	20.0	19.2		ug/Kg		96	45 - 145
Vinyl chloride	20.0	17.8		ug/Kg		89	55 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525938/5
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	20.0	19.0		ug/Kg		95	70 - 125
Ethylene Dibromide	20.0	19.3		ug/Kg		97	70 - 130
o-Xylene	20.0	18.9		ug/Kg		94	70 - 125
2-Butanone (MEK)	20.0	19.0		ug/Kg		95	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	17.9		ug/Kg		90	40 - 145
2,2-Dichloropropane	20.0	19.5		ug/Kg		97	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: LCSD 440-525938/6
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	20.0	17.2		ug/Kg		86	70 - 125	7	20
1,2-Dichlorobenzene	20.0	17.5		ug/Kg		88	75 - 120	7	20
1,3-Dichlorobenzene	20.0	17.4		ug/Kg		87	75 - 125	9	20
4-Chlorotoluene	20.0	17.1		ug/Kg		86	75 - 125	9	20
1,4-Dichlorobenzene	20.0	17.2		ug/Kg		86	75 - 120	8	20
1,3-Dichloropropane	20.0	17.2		ug/Kg		86	70 - 125	8	20
Benzene	20.0	17.5		ug/Kg		87	65 - 120	9	20
1,1-Dichloropropene	20.0	17.9		ug/Kg		89	70 - 130	6	20
Bromobenzene	20.0	17.2		ug/Kg		86	75 - 120	10	20
1,2-Dibromo-3-Chloropropane	20.0	15.6		ug/Kg		78	50 - 135	12	30
Bromoform	20.0	17.4		ug/Kg		87	55 - 135	7	25
Bromomethane	20.0	17.4		ug/Kg		87	60 - 145	12	20
Carbon disulfide	20.0	16.9		ug/Kg		84	50 - 130	8	20
Carbon tetrachloride	20.0	17.3		ug/Kg		87	65 - 140	8	20
1,1-Dichloroethane	20.0	17.4		ug/Kg		87	70 - 130	10	20
Chlorobenzene	20.0	17.8		ug/Kg		89	75 - 120	6	20
1,2-Dichloroethane	20.0	16.6		ug/Kg		83	60 - 140	10	20
Chlorobromomethane	20.0	19.0		ug/Kg		95	70 - 135	4	20
1,1-Dichloroethene	20.0	17.8		ug/Kg		89	70 - 125	6	20
Chloroethane	20.0	17.2		ug/Kg		86	60 - 140	6	25
Chloroform	20.0	17.4		ug/Kg		87	70 - 130	10	20
Chloromethane	20.0	15.6		ug/Kg		78	45 - 145	6	25
1,2-Dichloropropane	20.0	18.1		ug/Kg		91	70 - 130	5	20
cis-1,2-Dichloroethene	20.0	17.9		ug/Kg		90	70 - 125	11	20
cis-1,3-Dichloropropene	20.0	18.1		ug/Kg		91	75 - 125	8	20
Chlorodibromomethane	20.0	17.6		ug/Kg		88	65 - 140	7	20
Dibromomethane	20.0	17.5		ug/Kg		88	70 - 130	8	20
Dichlorobromomethane	20.0	17.1		ug/Kg		86	70 - 135	11	20
2-Hexanone	20.0	16.2		ug/Kg		81	40 - 150	8	35
Dichlorodifluoromethane	20.0	16.5		ug/Kg		82	35 - 160	8	30
Ethylbenzene	20.0	17.8		ug/Kg		89	70 - 125	6	20
4-Isopropyltoluene	20.0	17.8		ug/Kg		89	75 - 125	10	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525938/6
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene			20.0	18.4		ug/Kg		92	60 - 135	7	20
Isopropylbenzene			20.0	18.5		ug/Kg		92	75 - 130	7	20
Methylene Chloride			20.0	14.8		ug/Kg		74	55 - 135	10	20
Methyl tert-butyl ether			20.0	16.9		ug/Kg		84	60 - 140	15	25
Naphthalene			20.0	16.7		ug/Kg		83	55 - 135	3	25
1,1,1,2-Tetrachloroethane			20.0	17.6		ug/Kg		88	70 - 130	9	20
n-Butylbenzene			20.0	17.3		ug/Kg		86	70 - 130	8	20
1,1,2,2-Tetrachloroethane			20.0	17.1		ug/Kg		86	55 - 140	9	30
N-Propylbenzene			20.0	17.7		ug/Kg		88	70 - 130	8	20
sec-Butylbenzene			20.0	17.8		ug/Kg		89	70 - 125	8	20
1,2,3-Trichlorobenzene			20.0	17.6		ug/Kg		88	60 - 130	6	20
Styrene			20.0	16.6		ug/Kg		83	75 - 130	8	20
1,2,4-Trichlorobenzene			20.0	18.0		ug/Kg		90	70 - 135	8	20
tert-Butylbenzene			20.0	17.3		ug/Kg		86	70 - 125	8	20
1,1,1-Trichloroethane			20.0	17.3		ug/Kg		87	65 - 135	6	20
Tetrachloroethene			20.0	17.5		ug/Kg		88	70 - 125	7	20
1,1,2-Trichloroethane			20.0	17.2		ug/Kg		86	65 - 135	13	20
Toluene			20.0	17.8		ug/Kg		89	70 - 125	7	20
trans-1,2-Dichloroethene			20.0	17.9		ug/Kg		90	70 - 125	7	20
1,2,3-Trichloropropane			20.0	16.5		ug/Kg		82	60 - 135	11	25
trans-1,3-Dichloropropene			20.0	17.8		ug/Kg		89	70 - 135	5	20
Trichloroethene			20.0	17.9		ug/Kg		89	70 - 125	7	20
1,2,4-Trimethylbenzene			20.0	17.1		ug/Kg		86	70 - 125	9	20
Trichlorofluoromethane			20.0	18.0		ug/Kg		90	60 - 145	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	18.6		ug/Kg		93	60 - 140	1	40
1,3,5-Trimethylbenzene			20.0	17.4		ug/Kg		87	70 - 125	9	20
Vinyl acetate			20.0	17.5		ug/Kg		88	45 - 145	9	20
Vinyl chloride			20.0	16.7		ug/Kg		83	55 - 135	6	25
m-Xylene & p-Xylene			20.0	17.6		ug/Kg		88	70 - 125	7	20
Ethylene Dibromide			20.0	17.6		ug/Kg		88	70 - 130	10	20
o-Xylene			20.0	17.0		ug/Kg		85	70 - 125	10	20
2-Butanone (MEK)			20.0	18.8		ug/Kg		94	40 - 145	1	35
4-Methyl-2-pentanone (MIBK)			20.0	16.0		ug/Kg		80	40 - 145	12	35
2,2-Dichloropropane			20.0	17.6		ug/Kg		88	60 - 145	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-526002/4
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526002/4
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Benzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/31/19 08:27	1
Bromoform	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/31/19 08:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/31/19 08:27	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Chloroform	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
2-Hexanone	ND		10	5.0	ug/Kg			01/31/19 08:27	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/31/19 08:27	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Styrene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/31/19 08:27	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Toluene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526002/4
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/31/19 08:27	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/31/19 08:27	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/31/19 08:27	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/31/19 08:27	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/31/19 08:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/31/19 08:27	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/31/19 08:27*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*		*01/31/19 08:27*	*1*

Lab Sample ID: LCS 440-526002/5
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	20.3		ug/Kg		102	70 - 125
1,2-Dichlorobenzene	20.0	20.6		ug/Kg		103	75 - 120
1,3-Dichlorobenzene	20.0	20.5		ug/Kg		103	75 - 125
4-Chlorotoluene	20.0	20.3		ug/Kg		102	75 - 125
1,4-Dichlorobenzene	20.0	20.2		ug/Kg		101	75 - 120
1,3-Dichloropropane	20.0	20.4		ug/Kg		102	70 - 125
Benzene	20.0	20.2		ug/Kg		101	65 - 120
1,1-Dichloropropene	20.0	21.3		ug/Kg		106	70 - 130
Bromobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/Kg		97	50 - 135
Bromoform	20.0	20.6		ug/Kg		103	55 - 135
Bromomethane	20.0	20.1		ug/Kg		100	60 - 145
Carbon disulfide	20.0	19.7		ug/Kg		99	50 - 130
Carbon tetrachloride	20.0	20.7		ug/Kg		103	65 - 140
1,1-Dichloroethane	20.0	20.2		ug/Kg		101	70 - 130
Chlorobenzene	20.0	20.1		ug/Kg		100	75 - 120
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	60 - 140
Chlorobromomethane	20.0	21.5		ug/Kg		108	70 - 135
1,1-Dichloroethene	20.0	21.2		ug/Kg		106	70 - 125
Chloroethane	20.0	19.8		ug/Kg		99	60 - 140
Chloroform	20.0	20.5		ug/Kg		102	70 - 130
Chloromethane	20.0	17.8		ug/Kg		89	45 - 145
1,2-Dichloropropane	20.0	21.0		ug/Kg		105	70 - 130
cis-1,2-Dichloroethene	20.0	20.2		ug/Kg		101	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526002/5
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	21.5		ug/Kg		108	75 - 125
Chlorodibromomethane	20.0	20.4		ug/Kg		102	65 - 140
Dibromomethane	20.0	20.6		ug/Kg		103	70 - 130
Dichlorobromomethane	20.0	20.5		ug/Kg		103	70 - 135
2-Hexanone	20.0	19.4		ug/Kg		97	40 - 150
Dichlorodifluoromethane	20.0	20.1		ug/Kg		100	35 - 160
Ethylbenzene	20.0	20.3		ug/Kg		101	70 - 125
4-Isopropyltoluene	20.0	21.5		ug/Kg		107	75 - 125
Hexachlorobutadiene	20.0	21.5		ug/Kg		107	60 - 135
Isopropylbenzene	20.0	21.0		ug/Kg		105	75 - 130
Methylene Chloride	20.0	16.6		ug/Kg		83	55 - 135
Methyl tert-butyl ether	20.0	20.7		ug/Kg		104	60 - 140
Naphthalene	20.0	19.3		ug/Kg		97	55 - 135
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/Kg		103	70 - 130
n-Butylbenzene	20.0	20.6		ug/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/Kg		107	55 - 140
N-Propylbenzene	20.0	21.4		ug/Kg		107	70 - 130
sec-Butylbenzene	20.0	21.3		ug/Kg		106	70 - 125
1,2,3-Trichlorobenzene	20.0	20.3		ug/Kg		101	60 - 130
Styrene	20.0	19.2		ug/Kg		96	75 - 130
1,2,4-Trichlorobenzene	20.0	21.5		ug/Kg		107	70 - 135
tert-Butylbenzene	20.0	20.5		ug/Kg		102	70 - 125
1,1,1-Trichloroethane	20.0	20.3		ug/Kg		101	65 - 135
Tetrachloroethene	20.0	20.5		ug/Kg		103	70 - 125
1,1,2-Trichloroethane	20.0	20.9		ug/Kg		104	65 - 135
Toluene	20.0	20.3		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	20.0	21.1		ug/Kg		106	70 - 125
1,2,3-Trichloropropane	20.0	21.3		ug/Kg		107	60 - 135
trans-1,3-Dichloropropene	20.0	20.2		ug/Kg		101	70 - 135
Trichloroethene	20.0	20.9		ug/Kg		104	70 - 125
1,2,4-Trimethylbenzene	20.0	20.5		ug/Kg		102	70 - 125
Trichlorofluoromethane	20.0	21.5		ug/Kg		107	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1		ug/Kg		106	60 - 140
1,3,5-Trimethylbenzene	20.0	20.8		ug/Kg		104	70 - 125
Vinyl acetate	20.0	21.5		ug/Kg		107	45 - 145
Vinyl chloride	20.0	19.9		ug/Kg		100	55 - 135
m-Xylene & p-Xylene	20.0	20.2		ug/Kg		101	70 - 125
Ethylene Dibromide	20.0	21.0		ug/Kg		105	70 - 130
o-Xylene	20.0	20.2		ug/Kg		101	70 - 125
2-Butanone (MEK)	20.0	22.4		ug/Kg		112	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	19.4		ug/Kg		97	40 - 145
2,2-Dichloropropane	20.0	21.3		ug/Kg		106	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-A-16-A MS
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		16.3	13.0		ug/Kg		80	60 - 135
1,2-Dichlorobenzene	ND		16.3	12.5		ug/Kg		77	70 - 130
1,3-Dichlorobenzene	ND		16.3	11.8		ug/Kg		72	70 - 130
4-Chlorotoluene	ND		16.3	12.9		ug/Kg		79	65 - 135
1,4-Dichlorobenzene	ND		16.3	11.9		ug/Kg		73	70 - 130
1,3-Dichloropropane	ND		16.3	15.7		ug/Kg		96	65 - 140
Benzene	ND		16.3	15.7		ug/Kg		96	65 - 130
1,1-Dichloropropene	ND		16.3	15.0		ug/Kg		92	65 - 135
Bromobenzene	ND		16.3	13.9		ug/Kg		85	65 - 140
1,2-Dibromo-3-Chloropropane	ND		16.3	14.3		ug/Kg		87	40 - 150
Bromoform	ND		16.3	15.2		ug/Kg		93	50 - 145
Bromomethane	ND		16.3	16.4		ug/Kg		101	60 - 155
Carbon disulfide	ND	F2	16.3	14.8		ug/Kg		90	40 - 140
Carbon tetrachloride	ND		16.3	15.3		ug/Kg		94	60 - 145
1,1-Dichloroethane	ND		16.3	16.1		ug/Kg		99	65 - 135
Chlorobenzene	ND		16.3	14.3		ug/Kg		87	70 - 130
1,2-Dichloroethane	ND		16.3	15.7		ug/Kg		96	60 - 150
Chlorobromomethane	ND		16.3	17.0		ug/Kg		104	65 - 145
1,1-Dichloroethene	ND		16.3	16.2		ug/Kg		99	65 - 135
Chloroethane	ND		16.3	15.6		ug/Kg		95	60 - 150
Chloroform	ND		16.3	16.0		ug/Kg		98	65 - 135
Chloromethane	ND	F2	16.3	15.7		ug/Kg		96	40 - 145
1,2-Dichloropropane	ND		16.3	16.1		ug/Kg		99	65 - 130
cis-1,2-Dichloroethene	ND		16.3	16.0		ug/Kg		98	65 - 135
cis-1,3-Dichloropropene	ND		16.3	16.2		ug/Kg		99	70 - 135
Chlorodibromomethane	ND		16.3	15.4		ug/Kg		94	60 - 145
Dibromomethane	ND		16.3	16.6		ug/Kg		102	65 - 140
Dichlorobromomethane	ND		16.3	15.5		ug/Kg		95	65 - 145
2-Hexanone	ND		16.3	16.2		ug/Kg		99	35 - 160
Dichlorodifluoromethane	ND		16.3	16.9		ug/Kg		103	30 - 160
Ethylbenzene	ND		16.3	13.9		ug/Kg		85	70 - 135
4-Isopropyltoluene	ND		16.3	11.8		ug/Kg		72	60 - 140
Hexachlorobutadiene	ND	F1	16.3	7.54	F1	ug/Kg		46	50 - 145
Isopropylbenzene	ND		16.3	13.5		ug/Kg		82	70 - 145
Methylene Chloride	ND		16.3	13.7		ug/Kg		84	55 - 145
Methyl tert-butyl ether	ND		16.3	17.2		ug/Kg		105	55 - 155
Naphthalene	ND		16.3	10.9		ug/Kg		67	40 - 150
1,1,1,2-Tetrachloroethane	ND		16.3	15.3		ug/Kg		94	65 - 145
n-Butylbenzene	ND		16.3	9.90		ug/Kg		61	55 - 145
1,1,2,2-Tetrachloroethane	ND		16.3	16.5		ug/Kg		101	40 - 160
N-Propylbenzene	ND		16.3	13.0		ug/Kg		79	65 - 140
sec-Butylbenzene	ND		16.3	11.8		ug/Kg		72	60 - 135
1,2,3-Trichlorobenzene	ND		16.3	8.35		ug/Kg		51	45 - 145
Styrene	ND		16.3	13.2		ug/Kg		81	70 - 140
1,2,4-Trichlorobenzene	ND		16.3	8.88		ug/Kg		54	50 - 140
tert-Butylbenzene	ND		16.3	12.8		ug/Kg		78	60 - 140
1,1,1-Trichloroethane	ND	F2	16.3	15.4		ug/Kg		94	65 - 145
Tetrachloroethene	ND		16.3	13.5		ug/Kg		83	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-A-16-A MS
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	ND		16.3	16.1		ug/Kg		98	65 - 140
Toluene	ND		16.3	15.2		ug/Kg		93	70 - 130
trans-1,2-Dichloroethene	ND		16.3	15.6		ug/Kg		95	70 - 135
1,2,3-Trichloropropane	ND		16.3	16.1		ug/Kg		99	50 - 150
trans-1,3-Dichloropropene	ND		16.3	15.3		ug/Kg		93	60 - 145
Trichloroethene	ND		16.3	14.8		ug/Kg		90	65 - 140
1,2,4-Trimethylbenzene	ND		16.3	12.9		ug/Kg		79	65 - 140
Trichlorofluoromethane	ND	F2	16.3	16.9		ug/Kg		104	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		16.3	15.8		ug/Kg		97	60 - 140
1,3,5-Trimethylbenzene	ND		16.3	13.1		ug/Kg		80	65 - 135
Vinyl acetate	ND		16.3	15.5		ug/Kg		95	40 - 150
Vinyl chloride	ND		16.3	16.5		ug/Kg		101	55 - 140
m-Xylene & p-Xylene	ND		16.3	14.0		ug/Kg		86	70 - 130
Ethylene Dibromide	ND		16.3	15.9		ug/Kg		97	65 - 140
o-Xylene	ND		16.3	14.0		ug/Kg		86	65 - 130
2-Butanone (MEK)	ND		16.3	19.3		ug/Kg		118	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		16.3	16.5		ug/Kg		101	40 - 155
2,2-Dichloropropane	ND		16.3	16.2		ug/Kg		99	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-91048-A-16-B MSD
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		15.8	11.8		ug/Kg		75	60 - 135	10	25
1,2-Dichlorobenzene	ND		15.8	11.6		ug/Kg		73	70 - 130	8	25
1,3-Dichlorobenzene	ND		15.8	11.1		ug/Kg		70	70 - 130	6	25
4-Chlorotoluene	ND		15.8	11.7		ug/Kg		74	65 - 135	9	25
1,4-Dichlorobenzene	ND		15.8	11.3		ug/Kg		71	70 - 130	6	25
1,3-Dichloropropane	ND		15.8	13.5		ug/Kg		86	65 - 140	15	25
Benzene	ND		15.8	13.2		ug/Kg		83	65 - 130	18	20
1,1-Dichloropropene	ND		15.8	12.6		ug/Kg		80	65 - 135	17	20
Bromobenzene	ND		15.8	12.4		ug/Kg		78	65 - 140	11	25
1,2-Dibromo-3-Chloropropane	ND		15.8	12.4		ug/Kg		79	40 - 150	14	30
Bromoform	ND		15.8	13.0		ug/Kg		82	50 - 145	16	30
Bromomethane	ND		15.8	13.4		ug/Kg		85	60 - 155	21	25
Carbon disulfide	ND	F2	15.8	11.9	F2	ug/Kg		75	40 - 140	22	20
Carbon tetrachloride	ND		15.8	12.1		ug/Kg		77	60 - 145	23	25
1,1-Dichloroethane	ND		15.8	13.2		ug/Kg		84	65 - 135	20	25
Chlorobenzene	ND		15.8	12.5		ug/Kg		79	70 - 130	13	25
1,2-Dichloroethane	ND		15.8	12.9		ug/Kg		82	60 - 150	20	25
Chlorobromomethane	ND		15.8	14.1		ug/Kg		89	65 - 145	19	25
1,1-Dichloroethene	ND		15.8	12.9		ug/Kg		82	65 - 135	23	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-A-16-B MSD
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	ND		15.8	12.8		ug/Kg		81	60 - 150	20	25
Chloroform	ND		15.8	13.4		ug/Kg		84	65 - 135	18	20
Chloromethane	ND	F2	15.8	11.9	F2	ug/Kg		75	40 - 145	28	25
1,2-Dichloropropane	ND		15.8	13.5		ug/Kg		85	65 - 130	18	20
cis-1,2-Dichloroethene	ND		15.8	13.4		ug/Kg		84	65 - 135	18	25
cis-1,3-Dichloropropene	ND		15.8	13.9		ug/Kg		88	70 - 135	15	25
Chlorodibromomethane	ND		15.8	13.5		ug/Kg		85	60 - 145	13	25
Dibromomethane	ND		15.8	13.9		ug/Kg		88	65 - 140	18	25
Dichlorobromomethane	ND		15.8	13.4		ug/Kg		85	65 - 145	14	20
2-Hexanone	ND		15.8	13.6		ug/Kg		86	35 - 160	18	40
Dichlorodifluoromethane	ND		15.8	12.1		ug/Kg		77	30 - 160	33	35
Ethylbenzene	ND		15.8	12.1		ug/Kg		77	70 - 135	13	25
4-Isopropyltoluene	ND		15.8	11.4		ug/Kg		72	60 - 140	3	25
Hexachlorobutadiene	ND	F1	15.8	8.21		ug/Kg		52	50 - 145	9	35
Isopropylbenzene	ND		15.8	12.1		ug/Kg		76	70 - 145	11	25
Methylene Chloride	ND		15.8	10.7		ug/Kg		68	55 - 145	25	25
Methyl tert-butyl ether	ND		15.8	14.0		ug/Kg		88	55 - 155	21	35
Naphthalene	ND		15.8	10.4		ug/Kg		66	40 - 150	5	40
1,1,1,2-Tetrachloroethane	ND		15.8	13.1		ug/Kg		83	65 - 145	16	20
n-Butylbenzene	ND		15.8	10.3		ug/Kg		65	55 - 145	4	30
1,1,2,2-Tetrachloroethane	ND		15.8	13.9		ug/Kg		88	40 - 160	17	30
N-Propylbenzene	ND		15.8	11.9		ug/Kg		75	65 - 140	8	25
sec-Butylbenzene	ND		15.8	11.5		ug/Kg		72	60 - 135	3	25
1,2,3-Trichlorobenzene	ND		15.8	9.26		ug/Kg		59	45 - 145	10	30
Styrene	ND		15.8	11.6		ug/Kg		73	70 - 140	12	25
1,2,4-Trichlorobenzene	ND		15.8	9.63		ug/Kg		61	50 - 140	8	30
tert-Butylbenzene	ND		15.8	11.9		ug/Kg		75	60 - 140	7	25
1,1,1-Trichloroethane	ND	F2	15.8	12.4	F2	ug/Kg		78	65 - 145	21	20
Tetrachloroethene	ND		15.8	12.2		ug/Kg		77	65 - 135	10	25
1,1,2-Trichloroethane	ND		15.8	13.2		ug/Kg		83	65 - 140	20	30
Toluene	ND		15.8	13.3		ug/Kg		84	70 - 130	13	20
trans-1,2-Dichloroethene	ND		15.8	12.9		ug/Kg		82	70 - 135	19	25
1,2,3-Trichloropropane	ND		15.8	13.9		ug/Kg		88	50 - 150	15	30
trans-1,3-Dichloropropene	ND		15.8	13.3		ug/Kg		84	60 - 145	14	25
Trichloroethene	ND		15.8	12.8		ug/Kg		81	65 - 140	15	25
1,2,4-Trimethylbenzene	ND		15.8	11.8		ug/Kg		74	65 - 140	9	25
Trichlorofluoromethane	ND	F2	15.8	12.9	F2	ug/Kg		82	55 - 155	27	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15.8	12.2		ug/Kg		77	60 - 140	26	40
1,3,5-Trimethylbenzene	ND		15.8	11.9		ug/Kg		75	65 - 135	10	25
Vinyl acetate	ND		15.8	13.1		ug/Kg		83	40 - 150	16	30
Vinyl chloride	ND		15.8	13.1		ug/Kg		83	55 - 140	23	30
m-Xylene & p-Xylene	ND		15.8	12.2		ug/Kg		77	70 - 130	14	25
Ethylene Dibromide	ND		15.8	13.4		ug/Kg		85	65 - 140	17	25
o-Xylene	ND		15.8	12.4		ug/Kg		78	65 - 130	13	25
2-Butanone (MEK)	ND		15.8	13.4		ug/Kg		84	25 - 170	36	40
4-Methyl-2-pentanone (MIBK)	ND		15.8	14.0		ug/Kg		88	40 - 155	17	40
2,2-Dichloropropane	ND		15.8	12.7		ug/Kg		80	65 - 150	24	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-A-16-B MSD
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526116

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-525180/5
Matrix: Water
Analysis Batch: 525180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	52.1		50	35	ug/L			01/27/19 10:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*01/27/19 10:37*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/27/19 10:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*01/27/19 10:37*	*1*

Lab Sample ID: LCS 440-525180/7
Matrix: Water
Analysis Batch: 525180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	415		ug/L		83	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 440-231090-B-9 MS
Matrix: Water
Analysis Batch: 525180

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1340		ug/L		77	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-231090-B-9 MSD
Matrix: Water
Analysis Batch: 525180

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1470		ug/L		85	50 - 145	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: MB 440-525480/5
Matrix: Solid
Analysis Batch: 525480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/29/19 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*01/29/19 08:59*	*1*
4-Bromofluorobenzene (Surr)	*88*		*79 - 120*		*01/29/19 08:59*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*		*01/29/19 08:59*	*1*

Lab Sample ID: LCS 440-525480/8
Matrix: Solid
Analysis Batch: 525480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	697		ug/Kg		70	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*91*		*79 - 120*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: LCSD 440-525480/9
Matrix: Solid
Analysis Batch: 525480

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	705		ug/Kg		70	60 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*86*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-525788/4
Matrix: Solid
Analysis Batch: 525788

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	84.8	J	100	70	ug/Kg			01/30/19 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*01/30/19 10:53*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*		*01/30/19 10:53*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/30/19 10:53*	*1*

Lab Sample ID: LCS 440-525788/6
Matrix: Solid
Analysis Batch: 525788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	1010		ug/Kg		101	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: MB 440-525791/8
Matrix: Solid
Analysis Batch: 525791

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/30/19 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*01/30/19 12:31*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*		*01/30/19 12:31*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*		*01/30/19 12:31*	*1*

Lab Sample ID: LCS 440-525791/6
Matrix: Solid
Analysis Batch: 525791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	937		ug/Kg		94	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 440-525791/10
Matrix: Solid
Analysis Batch: 525791

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	1020		ug/Kg		102	60 - 135	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 720-91011-A-8-B MS
Matrix: Solid
Analysis Batch: 525788

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		2420	2090		ug/Kg		86	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: 720-91011-B-8-B MSD
Matrix: Solid
Analysis Batch: 525788

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		2430	2180		ug/Kg		90	55 - 140	5	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-525939/4
Matrix: Solid
Analysis Batch: 525939

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/30/19 22:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*		*01/30/19 22:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*01/30/19 22:27*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*		*01/30/19 22:27*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-525939/7
Matrix: Solid
Analysis Batch: 525939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	847		ug/Kg		85	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: LCSD 440-525939/8
Matrix: Solid
Analysis Batch: 525939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1000	878		ug/Kg		88	60 - 135	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: MB 440-526003/4
Matrix: Solid
Analysis Batch: 526003

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/31/19 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*01/31/19 08:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*01/31/19 08:27*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*		*01/31/19 08:27*	*1*

Lab Sample ID: LCS 440-526003/6
Matrix: Solid
Analysis Batch: 526003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	890		ug/Kg		89	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-91048-A-16-A MS
Matrix: Solid
Analysis Batch: 526003

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1130	962		ug/Kg		85	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-91048-A-16-B MSD
Matrix: Solid
Analysis Batch: 526003

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1090	837		ug/Kg		77	55 - 140	14	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-526313/1-A
Matrix: Solid
Analysis Batch: 526662

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Acenaphthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Fluorene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Phenanthrene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Chrysene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Pyrene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/01/19 09:44	02/04/19 13:45	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-526313/1-A
Matrix: Solid
Analysis Batch: 526662

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526313

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	95		29 - 120	02/01/19 09:44	02/04/19 13:45	1
Nitrobenzene-d5	80		11 - 118	02/01/19 09:44	02/04/19 13:45	1
Terphenyl-d14	96		10 - 120	02/01/19 09:44	02/04/19 13:45	1

Lab Sample ID: LCS 440-526313/2-A
Matrix: Solid
Analysis Batch: 526662

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	66.7	54.2		ug/Kg		81	46 - 120
Acenaphthene	66.7	59.0		ug/Kg		88	48 - 120
Acenaphthylene	66.7	62.2		ug/Kg		93	47 - 120
Fluorene	66.7	67.2		ug/Kg		101	47 - 120
Phenanthrene	66.7	57.2		ug/Kg		86	47 - 120
Anthracene	66.7	60.2		ug/Kg		90	46 - 120
Benzo[a]anthracene	66.7	63.7		ug/Kg		96	48 - 120
Chrysene	66.7	58.1		ug/Kg		87	48 - 120
Benzo[a]pyrene	66.7	54.9		ug/Kg		82	48 - 120
Benzo[b]fluoranthene	66.7	54.8		ug/Kg		82	49 - 120
Benzo[k]fluoranthene	66.7	51.6		ug/Kg		77	48 - 120
Benzo[g,h,i]perylene	66.7	54.3		ug/Kg		81	38 - 127
Indeno[1,2,3-cd]pyrene	66.7	57.3		ug/Kg		86	42 - 120
Fluoranthene	66.7	64.7		ug/Kg		97	46 - 120
Pyrene	66.7	63.8		ug/Kg		96	46 - 120
Dibenz(a,h)anthracene	66.7	51.5		ug/Kg		77	39 - 120
2-Methylnaphthalene	66.7	56.6		ug/Kg		85	49 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	98		29 - 120
Nitrobenzene-d5	85		11 - 118
Terphenyl-d14	100		10 - 120

Lab Sample ID: MB 440-526317/1-A
Matrix: Solid
Analysis Batch: 526662

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Acenaphthene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Fluorene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Phenanthrene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Anthracene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Chrysene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-526317/1-A
Matrix: Solid
Analysis Batch: 526662

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Fluoranthene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Pyrene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/01/19 09:52	02/04/19 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*100*		*29 - 120*	*02/01/19 09:52*	*02/04/19 14:34*	*1*
Nitrobenzene-d5	*88*		*11 - 118*	*02/01/19 09:52*	*02/04/19 14:34*	*1*
Terphenyl-d14	*98*		*10 - 120*	*02/01/19 09:52*	*02/04/19 14:34*	*1*

Lab Sample ID: LCS 440-526317/2-A
Matrix: Solid
Analysis Batch: 526662

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	66.7	60.9		ug/Kg		91	46 - 120
Acenaphthene	66.7	67.3		ug/Kg		101	48 - 120
Acenaphthylene	66.7	72.0		ug/Kg		108	47 - 120
Fluorene	66.7	76.9		ug/Kg		115	47 - 120
Phenanthrene	66.7	64.1		ug/Kg		96	47 - 120
Anthracene	66.7	67.5		ug/Kg		101	46 - 120
Benzo[a]anthracene	66.7	71.5		ug/Kg		107	48 - 120
Chrysene	66.7	65.4		ug/Kg		98	48 - 120
Benzo[a]pyrene	66.7	63.8		ug/Kg		96	48 - 120
Benzo[b]fluoranthene	66.7	63.2		ug/Kg		95	49 - 120
Benzo[k]fluoranthene	66.7	59.5		ug/Kg		89	48 - 120
Benzo[g,h,i]perylene	66.7	63.1		ug/Kg		95	38 - 127
Indeno[1,2,3-cd]pyrene	66.7	68.1		ug/Kg		102	42 - 120
Fluoranthene	66.7	72.9		ug/Kg		109	46 - 120
Pyrene	66.7	71.3		ug/Kg		107	46 - 120
Dibenz(a,h)anthracene	66.7	60.9		ug/Kg		91	39 - 120
2-Methylnaphthalene	66.7	63.1		ug/Kg		95	49 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*113*		*29 - 120*
Nitrobenzene-d5	*97*		*11 - 118*
Terphenyl-d14	*111*		*10 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-525025/1-A
Matrix: Solid
Analysis Batch: 524947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 03:19	1
Motor Oil Range Organics [C24-C36]	ND		5.0	2.5	mg/Kg		01/25/19 15:17	01/26/19 03:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*40 - 140*	*01/25/19 15:17*	*01/26/19 03:19*	*1*

Lab Sample ID: LCS 440-525025/2-A
Matrix: Solid
Analysis Batch: 524947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.7	58.2		mg/Kg		87	45 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*82*		*40 - 140*

Lab Sample ID: 720-90981-1 MS
Matrix: Solid
Analysis Batch: 524947

Client Sample ID: DG-AR13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525025

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	48	F1 F2	65.7	135	F1	mg/Kg		132	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*101*		*40 - 140*

Lab Sample ID: 720-90981-1 MSD
Matrix: Solid
Analysis Batch: 524947

Client Sample ID: DG-AR13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525025

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	48	F1 F2	65.0	96.1	F2	mg/Kg		74	40 - 120	33	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*98*		*40 - 140*

Lab Sample ID: MB 440-525032/1-A
Matrix: Solid
Analysis Batch: 525504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.86	J	5.0	2.5	mg/Kg		01/25/19 15:47	01/29/19 10:22	1
Motor Oil Range Organics [C24-C36]	2.74	J	5.0	2.5	mg/Kg		01/25/19 15:47	01/29/19 10:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-525032/1-A
Matrix: Solid
Analysis Batch: 525504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525032

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	91		40 - 140	01/25/19 15:47	01/29/19 10:22	1

Lab Sample ID: LCS 440-525032/2-A
Matrix: Solid
Analysis Batch: 525504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525032

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.7	63.3		mg/Kg		95	45 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	89		40 - 140

Lab Sample ID: 720-90981-21 MS
Matrix: Solid
Analysis Batch: 525504

Client Sample ID: DG-AW11S-7.5-8
Prep Type: Total/NA
Prep Batch: 525032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	1600	B	65.3	1220	4	mg/Kg		-509	40 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	103		40 - 140

Lab Sample ID: 720-90981-21 MSD
Matrix: Solid
Analysis Batch: 525504

Client Sample ID: DG-AW11S-7.5-8
Prep Type: Total/NA
Prep Batch: 525032

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1600	B	66.0	1560	4	mg/Kg		7	40 - 120	24	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	92		40 - 140

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-525472/1-A
Matrix: Solid
Analysis Batch: 525535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 13:15	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-525472/1-A
Matrix: Solid
Analysis Batch: 525535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
delta-BHC	ND		10	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
Chlordane (technical)	ND		50	10	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:19	01/29/19 13:15	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:19	01/29/19 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*28 - 115*	*01/29/19 06:19*	*01/29/19 13:15*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*21 - 117*	*01/29/19 06:19*	*01/29/19 13:15*	*1*

Lab Sample ID: LCS 440-525472/2-A
Matrix: Solid
Analysis Batch: 525535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	12.0		ug/Kg		90	53 - 115
Dieldrin	13.3	12.3		ug/Kg		92	57 - 115
Endrin aldehyde	13.3	10.9		ug/Kg		81	54 - 115
Endrin	13.3	13.1		ug/Kg		98	61 - 120
Endrin ketone	13.3	11.4		ug/Kg		86	54 - 119
Heptachlor	13.3	11.8		ug/Kg		89	52 - 115
Heptachlor epoxide	13.3	12.2		ug/Kg		92	59 - 115
4,4'-DDT	13.3	12.4		ug/Kg		93	60 - 131
4,4'-DDE	13.3	12.3		ug/Kg		92	55 - 115
4,4'-DDD	13.3	11.9		ug/Kg		89	59 - 118
Endosulfan I	13.3	11.9		ug/Kg		89	56 - 115
Endosulfan II	13.3	12.2		ug/Kg		91	60 - 117
alpha-BHC	13.3	11.7		ug/Kg		88	57 - 115
beta-BHC	13.3	12.2		ug/Kg		92	58 - 115
gamma-BHC (Lindane)	13.3	9.99		ug/Kg		75	56 - 115
delta-BHC	13.3	11.6		ug/Kg		87	52 - 115
Endosulfan sulfate	13.3	11.3		ug/Kg		85	60 - 115
Methoxychlor	13.3	12.5		ug/Kg		94	60 - 133
alpha-Chlordane	13.3	12.0		ug/Kg		90	56 - 115
gamma-Chlordane	13.3	12.0		ug/Kg		90	38 - 150

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-525472/2-A
Matrix: Solid
Analysis Batch: 525535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525472

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	90		28 - 115
DCB Decachlorobiphenyl (Surr)	87		21 - 117

Lab Sample ID: 720-90981-1 MS
Matrix: Solid
Analysis Batch: 525535

Client Sample ID: DG-AR13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		13.0	9.25		ug/Kg		71	10 - 150
Dieldrin	ND		13.0	9.50		ug/Kg		73	10 - 150
Endrin aldehyde	ND		13.0	7.16		ug/Kg		55	10 - 131
Endrin	ND		13.0	9.52		ug/Kg		73	10 - 150
Endrin ketone	ND		13.0	6.85		ug/Kg		53	10 - 134
Heptachlor	ND		13.0	9.78		ug/Kg		75	10 - 150
Heptachlor epoxide	ND		13.0	9.80		ug/Kg		76	10 - 150
4,4'-DDT	ND		13.0	9.89		ug/Kg		76	13 - 141
4,4'-DDE	ND		13.0	9.90		ug/Kg		76	10 - 150
4,4'-DDD	ND		13.0	8.26		ug/Kg		64	10 - 150
Endosulfan I	ND		13.0	9.06		ug/Kg		70	10 - 150
Endosulfan II	ND		13.0	8.51		ug/Kg		66	10 - 150
alpha-BHC	ND		13.0	9.77		ug/Kg		75	12 - 125
beta-BHC	ND		13.0	9.48		ug/Kg		73	10 - 150
gamma-BHC (Lindane)	ND		13.0	8.77		ug/Kg		68	20 - 119
delta-BHC	ND		13.0	8.86	J	ug/Kg		68	12 - 130
Endosulfan sulfate	ND		13.0	8.16	J	ug/Kg		63	10 - 150
Methoxychlor	ND		13.0	6.29		ug/Kg		49	10 - 150
alpha-Chlordane	ND		13.0	8.82		ug/Kg		68	10 - 150
gamma-Chlordane	ND		13.0	8.74		ug/Kg		67	10 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	77		28 - 115
DCB Decachlorobiphenyl (Surr)	86		21 - 117

Lab Sample ID: 720-90981-1 MSD
Matrix: Solid
Analysis Batch: 525535

Client Sample ID: DG-AR13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.3	9.47		ug/Kg		71	10 - 150	2	26
Dieldrin	ND		13.3	9.30		ug/Kg		70	10 - 150	2	28
Endrin aldehyde	ND		13.3	7.18		ug/Kg		54	10 - 131	0	33
Endrin	ND		13.3	9.29		ug/Kg		70	10 - 150	2	27
Endrin ketone	ND		13.3	6.92		ug/Kg		52	10 - 134	1	40
Heptachlor	ND		13.3	9.98		ug/Kg		75	10 - 150	2	28
Heptachlor epoxide	ND		13.3	9.89		ug/Kg		75	10 - 150	1	25
4,4'-DDT	ND		13.3	9.82		ug/Kg		74	13 - 141	1	26
4,4'-DDE	ND		13.3	9.75		ug/Kg		74	10 - 150	2	40
4,4'-DDD	ND		13.3	8.28		ug/Kg		62	10 - 150	0	26

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-90981-1 MSD
Matrix: Solid
Analysis Batch: 525535

Client Sample ID: DG-AR13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan I	ND		13.3	8.80		ug/Kg		66	10 - 150	3	32
Endosulfan II	ND		13.3	8.97		ug/Kg		68	10 - 150	5	25
alpha-BHC	ND		13.3	10.0		ug/Kg		76	12 - 125	3	18
beta-BHC	ND		13.3	9.58		ug/Kg		72	10 - 150	1	33
gamma-BHC (Lindane)	ND		13.3	9.05		ug/Kg		68	20 - 119	3	24
delta-BHC	ND		13.3	8.98	J	ug/Kg		68	12 - 130	1	35
Endosulfan sulfate	ND		13.3	8.19	J	ug/Kg		62	10 - 150	0	35
Methoxychlor	ND		13.3	6.14		ug/Kg		46	10 - 150	2	34
alpha-Chlordane	ND		13.3	8.76		ug/Kg		66	10 - 150	1	40
gamma-Chlordane	ND		13.3	8.62		ug/Kg		65	10 - 150	1	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*74*		*21 - 117*

Lab Sample ID: MB 440-525476/1-A
Matrix: Solid
Analysis Batch: 526074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
delta-BHC	ND		10	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Chlordane (technical)	ND		50	10	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*28 - 115*	*01/29/19 06:33*	*01/31/19 12:35*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*21 - 117*	*01/29/19 06:33*	*01/31/19 12:35*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-525476/2-A
Matrix: Solid
Analysis Batch: 526074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	11.7		ug/Kg		88	53 - 115
Dieldrin	13.3	12.4		ug/Kg		93	57 - 115
Endrin aldehyde	13.3	10.0		ug/Kg		75	54 - 115
Endrin	13.3	13.2		ug/Kg		99	61 - 120
Endrin ketone	13.3	10.6		ug/Kg		80	54 - 119
Heptachlor	13.3	11.7		ug/Kg		88	52 - 115
Heptachlor epoxide	13.3	12.4		ug/Kg		93	59 - 115
4,4'-DDT	13.3	11.1		ug/Kg		84	60 - 131
4,4'-DDE	13.3	12.1		ug/Kg		91	55 - 115
4,4'-DDD	13.3	11.9		ug/Kg		90	59 - 118
Endosulfan I	13.3	12.2		ug/Kg		91	56 - 115
Endosulfan II	13.3	12.1		ug/Kg		91	60 - 117
alpha-BHC	13.3	11.6		ug/Kg		87	57 - 115
beta-BHC	13.3	12.3		ug/Kg		92	58 - 115
gamma-BHC (Lindane)	13.3	10.2		ug/Kg		77	56 - 115
delta-BHC	13.3	12.0		ug/Kg		90	52 - 115
Endosulfan sulfate	13.3	10.4		ug/Kg		78	60 - 115
Methoxychlor	13.3	11.0		ug/Kg		83	60 - 133
alpha-Chlordane	13.3	12.1		ug/Kg		91	56 - 115
gamma-Chlordane	13.3	12.1		ug/Kg		91	38 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*80*		*21 - 117*

Lab Sample ID: 720-91011-E-8-A MS
Matrix: Solid
Analysis Batch: 526074

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		13.3	9.53		ug/Kg		72	10 - 150
Dieldrin	ND		13.3	10.0		ug/Kg		75	10 - 150
Endrin aldehyde	ND		13.3	5.96		ug/Kg		45	10 - 131
Endrin	ND		13.3	9.00		ug/Kg		68	10 - 150
Endrin ketone	ND		13.3	6.88	p	ug/Kg		52	10 - 134
Heptachlor	ND		13.3	8.59		ug/Kg		64	10 - 150
Heptachlor epoxide	ND		13.3	12.4		ug/Kg		93	10 - 150
4,4'-DDT	6.3		13.3	9.29		ug/Kg		22	13 - 141
4,4'-DDE	4.4	J	13.3	10.2		ug/Kg		44	10 - 150
4,4'-DDD	2.9	J p	13.3	9.97		ug/Kg		53	10 - 150
Endosulfan I	ND		13.3	7.41		ug/Kg		56	10 - 150
Endosulfan II	ND		13.3	7.73		ug/Kg		58	10 - 150
alpha-BHC	ND		13.3	9.01		ug/Kg		68	12 - 125
gamma-BHC (Lindane)	ND		13.3	8.46		ug/Kg		64	20 - 119
delta-BHC	ND		13.3	8.33	J p	ug/Kg		63	12 - 130
Endosulfan sulfate	ND		13.3	7.20	J	ug/Kg		54	10 - 150
Methoxychlor	ND		13.3	5.12	p	ug/Kg		38	10 - 150
alpha-Chlordane	ND		13.3	6.96		ug/Kg		52	10 - 150

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91011-E-8-A MS
Matrix: Solid
Analysis Batch: 526074

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-Chlordane	ND		13.3	8.48		ug/Kg		64	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*64*		*21 - 117*

Lab Sample ID: 720-91011-E-8-B MSD
Matrix: Solid
Analysis Batch: 526074

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.3	11.0		ug/Kg		83	10 - 150	15	26
Dieldrin	ND		13.3	9.46		ug/Kg		71	10 - 150	6	28
Endrin aldehyde	ND		13.3	5.66		ug/Kg		43	10 - 131	5	33
Endrin	ND		13.3	8.38		ug/Kg		63	10 - 150	7	27
Endrin ketone	ND		13.3	6.58		ug/Kg		50	10 - 134	4	40
Heptachlor	ND		13.3	9.38		ug/Kg		71	10 - 150	9	28
Heptachlor epoxide	ND		13.3	11.2		ug/Kg		85	10 - 150	10	25
4,4'-DDT	6.3		13.3	8.22		ug/Kg		14	13 - 141	12	26
4,4'-DDE	4.4	J	13.3	9.85		ug/Kg		41	10 - 150	4	40
4,4'-DDD	2.9	J p	13.3	9.69		ug/Kg		51	10 - 150	3	26
Endosulfan I	ND		13.3	9.22		ug/Kg		70	10 - 150	22	32
Endosulfan II	ND		13.3	7.88		ug/Kg		59	10 - 150	2	25
alpha-BHC	ND		13.3	9.33		ug/Kg		70	12 - 125	4	18
gamma-BHC (Lindane)	ND		13.3	9.19		ug/Kg		69	20 - 119	8	24
delta-BHC	ND		13.3	8.59	J	ug/Kg		65	12 - 130	3	35
Endosulfan sulfate	ND		13.3	6.84	J	ug/Kg		52	10 - 150	5	35
Methoxychlor	ND		13.3	4.70	J	ug/Kg		35	10 - 150	9	34
alpha-Chlordane	ND		13.3	8.24		ug/Kg		62	10 - 150	17	40
gamma-Chlordane	ND		13.3	9.70		ug/Kg		73	10 - 150	13	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*70*		*21 - 117*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-525472/1-A
Matrix: Solid
Analysis Batch: 525532

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 13:56	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 13:56	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 13:56	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 13:56	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 13:56	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-525472/1-A
Matrix: Solid
Analysis Batch: 525532

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 13:56	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:19	01/29/19 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*01/29/19 06:19*	*01/29/19 13:56*	*1*

Lab Sample ID: LCS 440-525472/5-A
Matrix: Solid
Analysis Batch: 525532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	224		ug/Kg		84	65 - 115
Aroclor 1260	267	228		ug/Kg		86	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*

Lab Sample ID: 720-90981-1 MS
Matrix: Solid
Analysis Batch: 525532

Client Sample ID: DG-AR13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		262	185		ug/Kg		71	50 - 120
Aroclor 1260	ND		262	170		ug/Kg		65	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*

Lab Sample ID: 720-90981-1 MSD
Matrix: Solid
Analysis Batch: 525532

Client Sample ID: DG-AR13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		265	179		ug/Kg		68	50 - 120	4	30
Aroclor 1260	ND		265	164		ug/Kg		62	50 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*

Lab Sample ID: MB 440-525476/1-A
Matrix: Solid
Analysis Batch: 525830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-525476/1-A
Matrix: Solid
Analysis Batch: 525830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*45 - 120*	*01/29/19 06:33*	*01/30/19 13:58*	*1*

Lab Sample ID: LCS 440-525476/5-A
Matrix: Solid
Analysis Batch: 525830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	252		ug/Kg		94	65 - 115
Aroclor 1260	267	262		ug/Kg		98	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*98*		*45 - 120*

Lab Sample ID: 720-91011-E-8-F MS
Matrix: Solid
Analysis Batch: 526128

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND	*	263	190		ug/Kg		72	50 - 120
Aroclor 1260	ND	* F1	263	193		ug/Kg		73	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*

Lab Sample ID: 720-91011-E-8-G MSD
Matrix: Solid
Analysis Batch: 526128

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		264	183		ug/Kg		69	50 - 120	4	30
Aroclor 1260	ND	* F1	264	189		ug/Kg		71	50 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-526066/1-A ^5
Matrix: Solid
Analysis Batch: 526507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Arsenic	ND		3.0	1.5	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Barium	ND		1.5	0.75	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Beryllium	ND		0.50	0.25	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Cobalt	ND		1.0	0.50	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Chromium	ND		1.0	0.50	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Copper	ND		2.0	1.1	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Nickel	ND		2.0	1.0	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Lead	ND		2.0	1.0	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Vanadium	ND		1.0	0.50	mg/Kg		01/31/19 09:40	02/01/19 19:01	5
Zinc	ND		5.0	2.5	mg/Kg		01/31/19 09:40	02/01/19 19:01	5

Lab Sample ID: LCS 440-526066/2-A ^5
Matrix: Solid
Analysis Batch: 526507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	24.9	21.5		mg/Kg		86	80 - 120
Arsenic	49.8	40.4		mg/Kg		81	80 - 120
Barium	49.8	40.8		mg/Kg		82	80 - 120
Beryllium	49.8	42.3		mg/Kg		85	80 - 120
Cadmium	49.8	41.7		mg/Kg		84	80 - 120
Cobalt	49.8	43.0		mg/Kg		86	80 - 120
Chromium	49.8	43.1		mg/Kg		87	80 - 120
Copper	49.8	43.2		mg/Kg		87	80 - 120
Molybdenum	49.8	42.8		mg/Kg		86	80 - 120
Nickel	49.8	42.6		mg/Kg		86	80 - 120
Lead	49.8	43.3		mg/Kg		87	80 - 120
Antimony	49.8	43.3		mg/Kg		87	80 - 120
Selenium	49.8	39.8		mg/Kg		80	80 - 120
Thallium	49.8	41.5		mg/Kg		83	80 - 120
Vanadium	49.8	42.9		mg/Kg		86	80 - 120
Zinc	49.8	41.4		mg/Kg		83	80 - 120

Lab Sample ID: 720-90982-A-8-C MS ^5
Matrix: Solid
Analysis Batch: 526507

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		25.0	22.0		mg/Kg		88	75 - 125
Arsenic	8.0		50.0	48.9		mg/Kg		82	75 - 125
Barium	98	F1	50.0	124	F1	mg/Kg		52	75 - 125
Beryllium	0.57		50.0	44.6		mg/Kg		88	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90982-A-8-C MS ^5
Matrix: Solid
Analysis Batch: 526507

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND		50.0	42.3		mg/Kg		85	75 - 125
Cobalt	15		50.0	55.8		mg/Kg		81	75 - 125
Chromium	36		50.0	82.4		mg/Kg		93	75 - 125
Copper	75	F1	50.0	87.6	F1	mg/Kg		26	75 - 125
Molybdenum	ND		50.0	43.5		mg/Kg		87	75 - 125
Nickel	43		50.0	80.3		mg/Kg		75	75 - 125
Lead	10		50.0	50.8		mg/Kg		81	75 - 125
Antimony	ND	F1	50.0	25.7	F1	mg/Kg		51	75 - 125
Selenium	ND		50.0	41.6		mg/Kg		83	75 - 125
Thallium	ND		50.0	40.9		mg/Kg		82	75 - 125
Vanadium	43		50.0	92.4		mg/Kg		98	75 - 125
Zinc	64		50.0	103		mg/Kg		76	75 - 125

Lab Sample ID: 720-90982-A-8-D MSD ^5
Matrix: Solid
Analysis Batch: 526507

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		24.9	21.8		mg/Kg		88	75 - 125	1	20
Arsenic	8.0		49.8	51.0		mg/Kg		86	75 - 125	4	20
Barium	98	F1	49.8	134	F1	mg/Kg		72	75 - 125	7	20
Beryllium	0.57		49.8	44.3		mg/Kg		88	75 - 125	1	20
Cadmium	ND		49.8	41.9		mg/Kg		84	75 - 125	1	20
Cobalt	15		49.8	56.9		mg/Kg		83	75 - 125	2	20
Chromium	36		49.8	81.0		mg/Kg		91	75 - 125	2	20
Copper	75	F1	49.8	107	F1	mg/Kg		65	75 - 125	20	20
Molybdenum	ND		49.8	43.2		mg/Kg		87	75 - 125	1	20
Nickel	43		49.8	81.6		mg/Kg		78	75 - 125	2	20
Lead	10		49.8	51.6		mg/Kg		83	75 - 125	1	20
Antimony	ND	F1	49.8	26.7	F1	mg/Kg		54	75 - 125	4	20
Selenium	ND		49.8	41.7		mg/Kg		84	75 - 125	0	20
Thallium	ND		49.8	40.7		mg/Kg		82	75 - 125	0	20
Vanadium	43		49.8	92.4		mg/Kg		99	75 - 125	0	20
Zinc	64		49.8	111		mg/Kg		94	75 - 125	8	20

Lab Sample ID: MB 440-526067/1-A ^5
Matrix: Solid
Analysis Batch: 526660

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Arsenic	ND		3.0	1.5	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Barium	ND		1.5	0.75	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Beryllium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Cobalt	ND		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Chromium	ND		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Copper	ND		2.0	1.1	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 10:53	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-526067/1-A ^5
Matrix: Solid
Analysis Batch: 526660

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Lead	ND		2.0	1.0	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Vanadium	ND		1.0	0.50	mg/Kg		01/31/19 09:45	02/04/19 10:53	5
Zinc	ND		5.0	2.5	mg/Kg		01/31/19 09:45	02/04/19 10:53	5

Lab Sample ID: LCS 440-526067/2-A ^5
Matrix: Solid
Analysis Batch: 526660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	24.9	23.3		mg/Kg		94	80 - 120
Arsenic	49.8	45.0		mg/Kg		90	80 - 120
Barium	49.8	47.2		mg/Kg		95	80 - 120
Beryllium	49.8	46.3		mg/Kg		93	80 - 120
Cadmium	49.8	46.7		mg/Kg		94	80 - 120
Cobalt	49.8	47.8		mg/Kg		96	80 - 120
Chromium	49.8	47.2		mg/Kg		95	80 - 120
Copper	49.8	47.3		mg/Kg		95	80 - 120
Molybdenum	49.8	47.5		mg/Kg		96	80 - 120
Nickel	49.8	47.1		mg/Kg		95	80 - 120
Lead	49.8	47.3		mg/Kg		95	80 - 120
Antimony	49.8	49.5		mg/Kg		99	80 - 120
Selenium	49.8	42.2		mg/Kg		85	80 - 120
Thallium	49.8	45.3		mg/Kg		91	80 - 120
Vanadium	49.8	46.8		mg/Kg		94	80 - 120
Zinc	49.8	46.9		mg/Kg		94	80 - 120

Lab Sample ID: 720-90981-10 MS
Matrix: Solid
Analysis Batch: 526660

Client Sample ID: DG-AM15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		25.0	24.3		mg/Kg		97	75 - 125
Arsenic	5.3		50.0	51.1		mg/Kg		92	75 - 125
Barium	110	F1	50.0	147	F1	mg/Kg		71	75 - 125
Beryllium	0.30	J	50.0	47.9		mg/Kg		95	75 - 125
Cadmium	0.37	J	50.0	44.1		mg/Kg		87	75 - 125
Cobalt	5.2		50.0	50.2		mg/Kg		90	75 - 125
Chromium	66	F1	50.0	101	F1	mg/Kg		70	75 - 125
Copper	31		50.0	80.8		mg/Kg		99	75 - 125
Molybdenum	ND		50.0	46.5		mg/Kg		93	75 - 125
Nickel	31		50.0	73.5		mg/Kg		84	75 - 125
Lead	180	F2 F1	50.0	181	F1	mg/Kg		11	75 - 125
Antimony	ND		50.0	41.5		mg/Kg		83	75 - 125
Selenium	ND		50.0	43.8		mg/Kg		88	75 - 125
Thallium	ND		50.0	43.8		mg/Kg		88	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90981-10 MS
Matrix: Solid
Analysis Batch: 526660

Client Sample ID: DG-AM15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	28		50.0	76.4		mg/Kg		97	75 - 125
Zinc	130	F1	50.0	167	F1	mg/Kg		66	75 - 125

Lab Sample ID: 720-90981-10 MSD
Matrix: Solid
Analysis Batch: 526660

Client Sample ID: DG-AM15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		25.0	24.1		mg/Kg		96	75 - 125	1	20
Arsenic	5.3		50.0	50.3		mg/Kg		90	75 - 125	2	20
Barium	110	F1	50.0	131	F1	mg/Kg		37	75 - 125	12	20
Beryllium	0.30	J	50.0	47.2		mg/Kg		94	75 - 125	1	20
Cadmium	0.37	J	50.0	44.7		mg/Kg		89	75 - 125	1	20
Cobalt	5.2		50.0	49.5		mg/Kg		89	75 - 125	1	20
Chromium	66	F1	50.0	100	F1	mg/Kg		69	75 - 125	1	20
Copper	31		50.0	73.2		mg/Kg		84	75 - 125	10	20
Molybdenum	ND		50.0	46.4		mg/Kg		93	75 - 125	0	20
Nickel	31		50.0	69.0		mg/Kg		75	75 - 125	6	20
Lead	180	F2 F1	50.0	147	F2 F1	mg/Kg		-58	75 - 125	21	20
Antimony	ND		50.0	41.8		mg/Kg		84	75 - 125	1	20
Selenium	ND		50.0	44.0		mg/Kg		88	75 - 125	1	20
Thallium	ND		50.0	44.3		mg/Kg		89	75 - 125	1	20
Vanadium	28		50.0	70.6		mg/Kg		86	75 - 125	8	20
Zinc	130	F1	50.0	153	F1	mg/Kg		38	75 - 125	9	20

Lab Sample ID: MB 440-526072/1-A ^5
Matrix: Solid
Analysis Batch: 526503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Arsenic	ND		3.0	1.5	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Barium	ND		1.5	0.75	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Beryllium	ND		0.50	0.25	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Cadmium	ND		0.50	0.25	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Cobalt	ND		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Chromium	ND		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Copper	ND		2.0	1.1	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Molybdenum	ND		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Nickel	ND		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Lead	ND		2.0	1.0	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Antimony	ND		10	5.0	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Selenium	ND		3.0	1.7	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Thallium	ND		10	5.0	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Vanadium	ND		1.0	0.50	mg/Kg		01/31/19 09:51	02/01/19 15:47	5
Zinc	ND		5.0	2.5	mg/Kg		01/31/19 09:51	02/01/19 15:47	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-526072/2-A ^5
Matrix: Solid
Analysis Batch: 526503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	24.9	24.6		mg/Kg		99	80 - 120
Arsenic	49.8	47.9		mg/Kg		96	80 - 120
Barium	49.8	49.0		mg/Kg		98	80 - 120
Beryllium	49.8	47.5		mg/Kg		96	80 - 120
Cadmium	49.8	48.3		mg/Kg		97	80 - 120
Cobalt	49.8	49.5		mg/Kg		100	80 - 120
Chromium	49.8	49.3		mg/Kg		99	80 - 120
Copper	49.8	50.2		mg/Kg		101	80 - 120
Molybdenum	49.8	49.1		mg/Kg		99	80 - 120
Nickel	49.8	48.3		mg/Kg		97	80 - 120
Lead	49.8	48.7		mg/Kg		98	80 - 120
Antimony	49.8	48.8		mg/Kg		98	80 - 120
Selenium	49.8	44.6		mg/Kg		90	80 - 120
Thallium	49.8	45.2		mg/Kg		91	80 - 120
Vanadium	49.8	48.6		mg/Kg		98	80 - 120
Zinc	49.8	47.8		mg/Kg		96	80 - 120

Lab Sample ID: 440-231710-A-1-B MS ^5
Matrix: Solid
Analysis Batch: 526503

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		24.9	23.8		mg/Kg		96	75 - 125
Arsenic	3.8		49.8	47.2		mg/Kg		87	75 - 125
Barium	140		49.8	190		mg/Kg		93	75 - 125
Beryllium	0.76		49.8	49.6		mg/Kg		98	75 - 125
Cadmium	ND		49.8	47.5		mg/Kg		96	75 - 125
Cobalt	11		49.8	60.4		mg/Kg		100	75 - 125
Chromium	22		49.8	73.4		mg/Kg		104	75 - 125
Copper	14		49.8	68.8		mg/Kg		109	75 - 125
Molybdenum	1.0	J	49.8	48.1		mg/Kg		95	75 - 125
Nickel	10		49.8	61.3		mg/Kg		103	75 - 125
Lead	10		49.8	56.0		mg/Kg		93	75 - 125
Antimony	ND	F1	49.8	21.0	F1	mg/Kg		42	75 - 125
Selenium	ND		49.8	44.4		mg/Kg		89	75 - 125
Thallium	ND		49.8	43.7		mg/Kg		88	75 - 125
Vanadium	51		49.8	103		mg/Kg		105	75 - 125
Zinc	39		49.8	90.8		mg/Kg		103	75 - 125

Lab Sample ID: 440-231710-A-1-C MSD ^5
Matrix: Solid
Analysis Batch: 526503

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526072

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		24.9	23.3		mg/Kg		93	75 - 125	2	20
Arsenic	3.8		49.8	46.4		mg/Kg		86	75 - 125	2	20
Barium	140		49.8	202		mg/Kg		118	75 - 125	6	20
Beryllium	0.76		49.8	48.3		mg/Kg		96	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-231710-A-1-C MSD ^5
Matrix: Solid
Analysis Batch: 526503

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526072

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	ND		49.8	46.3		mg/Kg		93	75 - 125	3	20
Cobalt	11		49.8	59.0		mg/Kg		97	75 - 125	2	20
Chromium	22		49.8	72.7		mg/Kg		103	75 - 125	1	20
Copper	14		49.8	66.7		mg/Kg		105	75 - 125	3	20
Molybdenum	1.0	J	49.8	47.1		mg/Kg		93	75 - 125	2	20
Nickel	10		49.8	60.1		mg/Kg		100	75 - 125	2	20
Lead	10		49.8	55.6		mg/Kg		92	75 - 125	1	20
Antimony	ND	F1	49.8	19.5	F1	mg/Kg		39	75 - 125	8	20
Selenium	ND		49.8	43.3		mg/Kg		87	75 - 125	2	20
Thallium	ND		49.8	42.0		mg/Kg		84	75 - 125	4	20
Vanadium	51		49.8	102		mg/Kg		104	75 - 125	0	20
Zinc	39		49.8	89.5		mg/Kg		101	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-525862/1-A
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		01/30/19 12:50	01/30/19 20:27	1

Lab Sample ID: LCS 440-525862/2-A
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.764		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 440-525862/25-A
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.800	0.763		mg/Kg		95	80 - 120	0	20

Lab Sample ID: 720-90981-1 MS
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: DG-AR13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.36	F1	0.800	0.841	F1	mg/Kg		60	75 - 125

Lab Sample ID: 720-90981-1 MSD
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: DG-AR13S-0.5-1
Prep Type: Total/NA
Prep Batch: 525862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.36	F1	0.800	0.965		mg/Kg		76	75 - 125	14	20

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 440-525866/1-A
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		01/30/19 12:53	01/30/19 22:08	1

Lab Sample ID: LCS 440-525866/2-A
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525866

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.784	0.640		mg/Kg		82	80 - 120		

Lab Sample ID: LCSD 440-525866/25-A
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525866

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.800	0.685		mg/Kg		86	80 - 120	7	20

Lab Sample ID: 720-90981-21 MS
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: DG-AW11S-7.5-8
Prep Type: Total/NA
Prep Batch: 525866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	2.6	F1	0.816	3.28		mg/Kg		79	75 - 125		

Lab Sample ID: 720-90981-21 MSD
Matrix: Solid
Analysis Batch: 526106

Client Sample ID: DG-AW11S-7.5-8
Prep Type: Total/NA
Prep Batch: 525866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	2.6	F1	0.784	3.17	F1	mg/Kg		68	75 - 125	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: 440-231325-B-2 DU
Matrix: Solid
Analysis Batch: 525673

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	24.6			23.5		%				4	20

Lab Sample ID: 720-90981-20 DU
Matrix: Solid
Analysis Batch: 525686

Client Sample ID: DG-AW11S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	18.2			18.1		%				0.3	20

GC/MS VOA

Analysis Batch: 525179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-26	TB-01.23.19	Total/NA	Water	8260B	
MB 440-525179/5	Method Blank	Total/NA	Water	8260B	
LCS 440-525179/6	Lab Control Sample	Total/NA	Water	8260B	
440-231090-B-9 MS	Matrix Spike	Total/NA	Water	8260B	
440-231090-B-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 525180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-26	TB-01.23.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-525180/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-525180/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-231090-B-9 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-231090-B-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 525479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	8260B	525570
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	8260B	525570
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	8260B	525570
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	8260B	525570
MB 440-525479/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-525479/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-525479/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 525480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525570
MB 440-525480/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525480/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-525480/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 525570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	5035	
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	5035	
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	5035	
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	5035	
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	5035	
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 525570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	5035	
720-90981-11	DUP-113	Total/NA	Solid	5035	
720-90981-12	DUP-96	Total/NA	Solid	5035	
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	5035	
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	5035	
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	5035	
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	5035	
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	5035	
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	5035	
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	5035	
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	5035	
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	5035	
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	5035	

Analysis Batch: 525787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	8260B	525870
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	8260B	525870
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	8260B	525570
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	8260B	525570
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	8260B	525570
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	8260B	525870
MB 440-525787/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-525787/5	Lab Control Sample	Total/NA	Solid	8260B	
720-91011-A-8-B MS	Matrix Spike	Total/NA	Solid	8260B	525870
720-91011-B-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	525870

Analysis Batch: 525788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525870
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	525870
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	525870
MB 440-525788/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525788/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-91011-A-8-B MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	525870
720-91011-B-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	525870

Analysis Batch: 525790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	8260B	525870

GC/MS VOA (Continued)

Analysis Batch: 525790 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	8260B	525570
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	8260B	525570
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	8260B	525570
720-90981-11	DUP-113	Total/NA	Solid	8260B	525570
720-90981-12	DUP-96	Total/NA	Solid	8260B	525570
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	8260B	525570
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	8260B	525570
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	8260B	525570
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	8260B	525570
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	8260B	525570
MB 440-525790/8	Method Blank	Total/NA	Solid	8260B	
LCS 440-525790/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-525790/9	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 525791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525870
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-11	DUP-113	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-12	DUP-96	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	525570
MB 440-525791/8	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525791/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-525791/10	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 525870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	5035	
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	5035	
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	5035	
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	5035	
720-91011-A-8-B MS	Matrix Spike	Total/NA	Solid	5035	
720-91011-B-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Analysis Batch: 525938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	8260B	525966
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	8260B	525570
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	8260B	525570
MB 440-525938/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-525938/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-525938/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 525939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525570
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525570
MB 440-525939/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525939/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-525939/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 525966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	5035	

Analysis Batch: 526002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	8260B	526096
MB 440-526002/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526002/5	Lab Control Sample	Total/NA	Solid	8260B	
720-91048-A-16-A MS	Matrix Spike	Total/NA	Solid	8260B	526116
720-91048-A-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	526116

Analysis Batch: 526003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526096
MB 440-526003/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526003/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-91048-A-16-A MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-A-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	526116

Prep Batch: 526096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 526116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-A-16-A MS	Matrix Spike	Total/NA	Solid	5035	
720-91048-A-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 526313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	3546	
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	3546	
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	3546	
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	3546	
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	3546	
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	3546	
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	3546	
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	3546	
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	3546	
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	3546	
720-90981-11	DUP-113	Total/NA	Solid	3546	
720-90981-12	DUP-96	Total/NA	Solid	3546	
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	3546	
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	3546	
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	3546	
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	3546	
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	3546	
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	3546	
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	3546	
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	3546	
MB 440-526313/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526313/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 526317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	3546	
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	3546	
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	3546	
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	3546	
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	3546	
MB 440-526317/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526317/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 526662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	8270C SIM	526313
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	8270C SIM	526313
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	8270C SIM	526313
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	8270C SIM	526313
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	8270C SIM	526313
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	8270C SIM	526313
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	8270C SIM	526313
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	8270C SIM	526313

GC/MS Semi VOA (Continued)

Analysis Batch: 526662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	8270C SIM	526313
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	8270C SIM	526313
720-90981-11	DUP-113	Total/NA	Solid	8270C SIM	526313
720-90981-12	DUP-96	Total/NA	Solid	8270C SIM	526313
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	8270C SIM	526313
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	8270C SIM	526313
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	8270C SIM	526313
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	8270C SIM	526313
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	8270C SIM	526313
MB 440-526313/1-A	Method Blank	Total/NA	Solid	8270C SIM	526313
MB 440-526317/1-A	Method Blank	Total/NA	Solid	8270C SIM	526317
LCS 440-526313/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	526313
LCS 440-526317/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	526317

Analysis Batch: 526670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	8270C SIM	526317
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	8270C SIM	526317

Analysis Batch: 526850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	8270C SIM	526317
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	8270C SIM	526317

Analysis Batch: 527041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	8270C SIM	526313
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	8270C SIM	526313
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	8270C SIM	526313
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	8270C SIM	526317

GC Semi VOA

Analysis Batch: 524947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	8015B	525025
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	8015B	525025
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	8015B	525025
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	8015B	525025
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	8015B	525025
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	8015B	525025
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	8015B	525025
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	8015B	525025
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	8015B	525025
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	8015B	525025
720-90981-11	DUP-113	Total/NA	Solid	8015B	525025
720-90981-12	DUP-96	Total/NA	Solid	8015B	525025
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	8015B	525025
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	8015B	525025
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	8015B	525025

GC Semi VOA (Continued)

Analysis Batch: 524947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	8015B	525025
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	8015B	525025
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	8015B	525025
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	8015B	525025
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	8015B	525025
MB 440-525025/1-A	Method Blank	Total/NA	Solid	8015B	525025
LCS 440-525025/2-A	Lab Control Sample	Total/NA	Solid	8015B	525025
720-90981-1 MS	DG-AR13S-0.5-1	Total/NA	Solid	8015B	525025
720-90981-1 MSD	DG-AR13S-0.5-1	Total/NA	Solid	8015B	525025

Prep Batch: 525025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	3546	
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	3546	
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	3546	
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	3546	
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	3546	
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	3546	
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	3546	
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	3546	
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	3546	
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	3546	
720-90981-11	DUP-113	Total/NA	Solid	3546	
720-90981-12	DUP-96	Total/NA	Solid	3546	
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	3546	
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	3546	
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	3546	
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	3546	
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	3546	
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	3546	
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	3546	
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	3546	
MB 440-525025/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525025/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90981-1 MS	DG-AR13S-0.5-1	Total/NA	Solid	3546	
720-90981-1 MSD	DG-AR13S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 525032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	3546	
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	3546	
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	3546	
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	3546	
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	3546	
MB 440-525032/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525032/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-90981-21 MS	DG-AW11S-7.5-8	Total/NA	Solid	3546	
720-90981-21 MSD	DG-AW11S-7.5-8	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 525472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	3546	
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	3546	
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	3546	
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	3546	
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	3546	
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	3546	
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	3546	
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	3546	
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	3546	
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	3546	
720-90981-11	DUP-113	Total/NA	Solid	3546	
720-90981-12	DUP-96	Total/NA	Solid	3546	
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	3546	
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	3546	
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	3546	
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	3546	
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	3546	
720-90981-17 - DL	DG-AU11S-3.5-4	Total/NA	Solid	3546	
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	3546	
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	3546	
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	3546	
MB 440-525472/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525472/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 440-525472/5-A	Lab Control Sample	Total/NA	Solid	3546	
720-90981-1 MS	DG-AR13S-0.5-1	Total/NA	Solid	3546	
720-90981-1 MS	DG-AR13S-0.5-1	Total/NA	Solid	3546	
720-90981-1 MSD	DG-AR13S-0.5-1	Total/NA	Solid	3546	
720-90981-1 MSD	DG-AR13S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 525476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	3546	
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	3546	
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	3546	
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	3546	
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	3546	
MB 440-525476/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525476/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 440-525476/5-A	Lab Control Sample	Total/NA	Solid	3546	
720-91011-E-8-A MS	Matrix Spike	Total/NA	Solid	3546	
720-91011-E-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
720-91011-E-8-F MS	Matrix Spike	Total/NA	Solid	3546	
720-91011-E-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 525504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	8015B	525032
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	8015B	525032
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	8015B	525032
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	8015B	525032
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	8015B	525032

GC Semi VOA (Continued)

Analysis Batch: 525504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-525032/1-A	Method Blank	Total/NA	Solid	8015B	525032
LCS 440-525032/2-A	Lab Control Sample	Total/NA	Solid	8015B	525032
720-90981-21 MS	DG-AW11S-7.5-8	Total/NA	Solid	8015B	525032
720-90981-21 MSD	DG-AW11S-7.5-8	Total/NA	Solid	8015B	525032

Analysis Batch: 525532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	8082	525472
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	8082	525472
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	8082	525472
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	8082	525472
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	8082	525472
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	8082	525472
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	8082	525472
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	8082	525472
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	8082	525472
720-90981-11	DUP-113	Total/NA	Solid	8082	525472
720-90981-12	DUP-96	Total/NA	Solid	8082	525472
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	8082	525472
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	8082	525472
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	8082	525472
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	8082	525472
MB 440-525472/1-A	Method Blank	Total/NA	Solid	8082	525472
LCS 440-525472/5-A	Lab Control Sample	Total/NA	Solid	8082	525472
720-90981-1 MS	DG-AR13S-0.5-1	Total/NA	Solid	8082	525472
720-90981-1 MSD	DG-AR13S-0.5-1	Total/NA	Solid	8082	525472

Analysis Batch: 525535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	8081A	525472
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	8081A	525472
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	8081A	525472
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	8081A	525472
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	8081A	525472
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	8081A	525472
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	8081A	525472
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	8081A	525472
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	8081A	525472
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	8081A	525472
720-90981-11	DUP-113	Total/NA	Solid	8081A	525472
720-90981-12	DUP-96	Total/NA	Solid	8081A	525472
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	8081A	525472
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	8081A	525472
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	8081A	525472
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	8081A	525472
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	8081A	525472
MB 440-525472/1-A	Method Blank	Total/NA	Solid	8081A	525472
LCS 440-525472/2-A	Lab Control Sample	Total/NA	Solid	8081A	525472
720-90981-1 MS	DG-AR13S-0.5-1	Total/NA	Solid	8081A	525472
720-90981-1 MSD	DG-AR13S-0.5-1	Total/NA	Solid	8081A	525472

GC Semi VOA (Continued)

Analysis Batch: 525826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	8081A	525472
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	8081A	525472
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	8081A	525472

Analysis Batch: 525828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	8081A	525476
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	8081A	525476

Analysis Batch: 525830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	8082	525476
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	8082	525476
MB 440-525476/1-A	Method Blank	Total/NA	Solid	8082	525476
LCS 440-525476/5-A	Lab Control Sample	Total/NA	Solid	8082	525476

Analysis Batch: 526074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	8081A	525476
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	8081A	525476
MB 440-525476/1-A	Method Blank	Total/NA	Solid	8081A	525476
LCS 440-525476/2-A	Lab Control Sample	Total/NA	Solid	8081A	525476
720-91011-E-8-A MS	Matrix Spike	Total/NA	Solid	8081A	525476
720-91011-E-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	525476

Analysis Batch: 526128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	8082	525472
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	8082	525472
720-90981-17 - DL	DG-AU11S-3.5-4	Total/NA	Solid	8082	525472
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	8082	525472
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	8082	525472
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	8082	525472
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	8082	525476
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	8082	525476
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	8082	525476
720-91011-E-8-F MS	Matrix Spike	Total/NA	Solid	8082	525476
720-91011-E-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	525476

Analysis Batch: 526363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	8081A	525476

Metals

Prep Batch: 525862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	7471A	
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	7471A	
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 525862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	7471A	
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	7471A	
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	7471A	
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	7471A	
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	7471A	
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	7471A	
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	7471A	
720-90981-11	DUP-113	Total/NA	Solid	7471A	
720-90981-12	DUP-96	Total/NA	Solid	7471A	
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	7471A	
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	7471A	
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	7471A	
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	7471A	
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	7471A	
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	7471A	
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	7471A	
MB 440-525862/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-525862/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 440-525862/25-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
720-90981-1 MS	DG-AR13S-0.5-1	Total/NA	Solid	7471A	
720-90981-1 MSD	DG-AR13S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 525866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	7471A	
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	7471A	
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	7471A	
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	7471A	
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	7471A	
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	7471A	
MB 440-525866/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-525866/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 440-525866/25-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
720-90981-21 MS	DG-AW11S-7.5-8	Total/NA	Solid	7471A	
720-90981-21 MSD	DG-AW11S-7.5-8	Total/NA	Solid	7471A	

Prep Batch: 526066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	3050B	
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	3050B	
MB 440-526066/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-526066/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
720-90982-A-8-C MS ^5	Matrix Spike	Total/NA	Solid	3050B	
720-90982-A-8-D MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 526067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	3050B	
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	3050B	
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	3050B	
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 526067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	3050B	
720-90981-11	DUP-113	Total/NA	Solid	3050B	
720-90981-12	DUP-96	Total/NA	Solid	3050B	
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	3050B	
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	3050B	
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	3050B	
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	3050B	
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	3050B	
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	3050B	
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	3050B	
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	3050B	
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	3050B	
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	3050B	
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	3050B	
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	3050B	
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	3050B	
MB 440-526067/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-526067/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
720-90981-10 MS	DG-AM15S-3.5-4	Total/NA	Solid	3050B	
720-90981-10 MSD	DG-AM15S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 526072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	3050B	
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	3050B	
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	3050B	
MB 440-526072/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-526072/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-231710-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-231710-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 526106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	7471A	525862
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	7471A	525862
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	7471A	525862
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	7471A	525862
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	7471A	525862
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	7471A	525862
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	7471A	525862
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	7471A	525862
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	7471A	525862
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	7471A	525862
720-90981-11	DUP-113	Total/NA	Solid	7471A	525862
720-90981-12	DUP-96	Total/NA	Solid	7471A	525862
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	7471A	525862
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	7471A	525862
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	7471A	525862
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	7471A	525862
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	7471A	525862
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	7471A	525862

Metals (Continued)

Analysis Batch: 526106 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	7471A	525862
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	7471A	525866
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	7471A	525866
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	7471A	525866
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	7471A	525866
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	7471A	525866
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	7471A	525866
MB 440-525862/1-A	Method Blank	Total/NA	Solid	7471A	525862
MB 440-525866/1-A	Method Blank	Total/NA	Solid	7471A	525866
LCS 440-525862/2-A	Lab Control Sample	Total/NA	Solid	7471A	525862
LCS 440-525866/2-A	Lab Control Sample	Total/NA	Solid	7471A	525866
LCSD 440-525862/25-A	Lab Control Sample Dup	Total/NA	Solid	7471A	525862
LCSD 440-525866/25-A	Lab Control Sample Dup	Total/NA	Solid	7471A	525866
720-90981-1 MS	DG-AR13S-0.5-1	Total/NA	Solid	7471A	525862
720-90981-1 MSD	DG-AR13S-0.5-1	Total/NA	Solid	7471A	525862
720-90981-21 MS	DG-AW11S-7.5-8	Total/NA	Solid	7471A	525866
720-90981-21 MSD	DG-AW11S-7.5-8	Total/NA	Solid	7471A	525866

Analysis Batch: 526503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	6010B	526072
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	6010B	526072
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	6010B	526072
MB 440-526072/1-A ^5	Method Blank	Total/NA	Solid	6010B	526072
LCS 440-526072/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	526072
440-231710-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	526072
440-231710-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	526072

Analysis Batch: 526507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	6010B	526066
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	6010B	526066
MB 440-526066/1-A ^5	Method Blank	Total/NA	Solid	6010B	526066
LCS 440-526066/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	526066
720-90982-A-8-C MS ^5	Matrix Spike	Total/NA	Solid	6010B	526066
720-90982-A-8-D MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	526066

Analysis Batch: 526660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	6010B	526067
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	6010B	526067
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	6010B	526067
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	6010B	526067
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	6010B	526067
720-90981-11	DUP-113	Total/NA	Solid	6010B	526067
720-90981-12	DUP-96	Total/NA	Solid	6010B	526067
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	6010B	526067
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	6010B	526067
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	6010B	526067
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	6010B	526067
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	6010B	526067

Metals (Continued)

Analysis Batch: 526660 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	6010B	526067
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	6010B	526067
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	6010B	526067
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	6010B	526067
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	6010B	526067
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	6010B	526067
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	6010B	526067
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	6010B	526067
MB 440-526067/1-A ^5	Method Blank	Total/NA	Solid	6010B	526067
LCS 440-526067/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	526067
720-90981-10 MS	DG-AM15S-3.5-4	Total/NA	Solid	6010B	526067
720-90981-10 MSD	DG-AM15S-3.5-4	Total/NA	Solid	6010B	526067

Analysis Batch: 526707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	6010B	526067
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	6010B	526067

Analysis Batch: 526933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	6010B	526066

General Chemistry

Analysis Batch: 525673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-1	DG-AR13S-0.5-1	Total/NA	Solid	Moisture	
720-90981-2	DG-AR13S-3.5-4	Total/NA	Solid	Moisture	
720-90981-3	DG-AR13S-9.5-10	Total/NA	Solid	Moisture	
720-90981-4	DG-AP13S-0.5-1	Total/NA	Solid	Moisture	
720-90981-5	DG-AP13S-3.5-4	Total/NA	Solid	Moisture	
720-90981-6	DG-AP13S-9.5-10	Total/NA	Solid	Moisture	
720-90981-7	DG-AK15S-0.5-1	Total/NA	Solid	Moisture	
720-90981-8	DG-AK15S-3.5-4	Total/NA	Solid	Moisture	
720-90981-9	DG-AM15S-0.5-1	Total/NA	Solid	Moisture	
720-90981-10	DG-AM15S-3.5-4	Total/NA	Solid	Moisture	
720-90981-11	DUP-113	Total/NA	Solid	Moisture	
720-90981-12	DUP-96	Total/NA	Solid	Moisture	
720-90981-13	DG-AX9S-0.5-1	Total/NA	Solid	Moisture	
720-90981-14	DG-AX9S-3.5-4	Total/NA	Solid	Moisture	
720-90981-15	DG-AX9S-9.5-10	Total/NA	Solid	Moisture	
720-90981-16	DG-AU11S-0.5-1	Total/NA	Solid	Moisture	
720-90981-17	DG-AU11S-3.5-4	Total/NA	Solid	Moisture	
720-90981-18	DG-AU11S-9.5-10	Total/NA	Solid	Moisture	
720-90981-19	DG-AW11S-0.5-1	Total/NA	Solid	Moisture	
440-231325-B-2 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 525686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-20	DG-AW11S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 525686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90981-21	DG-AW11S-7.5-8	Total/NA	Solid	Moisture	
720-90981-22	DG-AT12S-0.5-1	Total/NA	Solid	Moisture	
720-90981-23	DG-AT12S-3.5-4	Total/NA	Solid	Moisture	
720-90981-24	DG-AT12S-9.5-10	Total/NA	Solid	Moisture	
720-90981-25	DG-AM15S-9.5-10	Total/NA	Solid	Moisture	
720-90981-20 DU	DG-AW11S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-AR13S-0.5-1

Lab Sample ID: 720-90981-1

Date Collected: 01/23/19 13:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525479	01/29/19 16:22	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525480	01/29/19 16:22	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		5	526662	02/04/19 19:04	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 03:39	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 14:43	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 14:51	D1D	TAL IRV
Total/NA	Prep	3050B			526066	01/31/19 09:40	DT	TAL IRV
Total/NA	Analysis	6010B		5	526507	02/01/19 19:23	P1R	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 20:32	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AR13S-3.5-4

Lab Sample ID: 720-90981-2

Date Collected: 01/23/19 13:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525479	01/29/19 16:50	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525480	01/29/19 16:50	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 19:28	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 12:08	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 15:12	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 15:04	D1D	TAL IRV
Total/NA	Prep	3050B			526066	01/31/19 09:40	DT	TAL IRV
Total/NA	Analysis	6010B		10	526933	02/05/19 16:01	P1P	TAL IRV
Total/NA	Prep	3050B			526066	01/31/19 09:40	DT	TAL IRV
Total/NA	Analysis	6010B		5	526507	02/01/19 19:26	P1R	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		5	526106	01/31/19 01:11	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AR13S-9.5-10

Date Collected: 01/23/19 13:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525479	01/29/19 17:17	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525480	01/29/19 17:17	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 16:13	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 07:43	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 15:27	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 15:18	D1D	TAL IRV
Total/NA	Prep	3050B			526072	01/31/19 09:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	526503	02/01/19 17:15	P1R	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		5	526106	01/31/19 01:13	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AP13S-0.5-1

Date Collected: 01/23/19 13:30
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525479	01/29/19 17:45	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525480	01/29/19 17:45	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 18:40	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 05:01	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 15:42	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 15:31	D1D	TAL IRV
Total/NA	Prep	3050B			526072	01/31/19 09:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	526503	02/01/19 17:18	P1R	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 20:44	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AP13S-3.5-4

Lab Sample ID: 720-90981-5

Date Collected: 01/23/19 13:30

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525870	01/23/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	525787	01/30/19 18:25	AYL	TAL IRV
Total/NA	Prep	5035			525870	01/23/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525788	01/30/19 18:25	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 16:37	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 12:28	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 16:11	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 15:45	D1D	TAL IRV
Total/NA	Prep	3050B			526072	01/31/19 09:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	526503	02/01/19 17:20	P1R	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 20:49	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AP13S-9.5-10

Lab Sample ID: 720-90981-6

Date Collected: 01/23/19 13:30

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525870	01/23/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	525787	01/30/19 18:50	AYL	TAL IRV
Total/NA	Prep	5035			525870	01/23/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525788	01/30/19 18:50	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 17:01	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 11:27	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 16:26	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 15:58	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		10	526660	02/04/19 11:11	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 20:51	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AK15S-0.5-1

Lab Sample ID: 720-90981-7

Date Collected: 01/23/19 14:40

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525870	01/23/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 20:19	AYL	TAL IRV
Total/NA	Prep	5035			525870	01/23/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 20:19	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 19:53	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 10:06	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 16:40	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 16:12	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:14	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 20:53	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AK15S-3.5-4

Lab Sample ID: 720-90981-8

Date Collected: 01/23/19 14:40

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 15:24	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 15:24	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		10	526662	02/04/19 20:17	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 05:21	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 16:55	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 16:26	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:16	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 20:55	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AM15S-0.5-1

Lab Sample ID: 720-90981-9

Date Collected: 01/23/19 15:30

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 15:48	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 15:48	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 20:41	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 10:26	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 17:24	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 16:39	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:39	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 20:57	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AM15S-3.5-4

Lab Sample ID: 720-90981-10

Date Collected: 01/23/19 15:30

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 16:13	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 16:13	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 21:06	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 11:47	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 17:39	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 15:12	JM	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 10:58	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 20:58	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DUP-113

Lab Sample ID: 720-90981-11

Date Collected: 01/23/19 00:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 16:38	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 16:38	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 17:26	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 13:08	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 17:53	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 17:06	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:41	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 21:00	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DUP-96

Lab Sample ID: 720-90981-12

Date Collected: 01/23/19 00:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 17:02	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 17:02	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 21:30	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 08:24	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 18:08	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 17:20	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:44	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 21:02	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Client Sample ID: DG-AX9S-0.5-1

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 17:27	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 17:27	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 21:55	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 05:41	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 18:37	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 17:34	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:46	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 21:04	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AX9S-3.5-4

Date Collected: 01/23/19 09:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90981-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 17:51	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 17:51	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		5	527041	02/06/19 11:15	L1B	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 06:22	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 19:07	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 17:47	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:49	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 21:05	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AX9S-9.5-10

Lab Sample ID: 720-90981-15

Date Collected: 01/23/19 09:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 18:16	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 18:16	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 17:50	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 09:46	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 19:36	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 18:01	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:51	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		20	526106	01/31/19 01:15	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AU11S-0.5-1

Lab Sample ID: 720-90981-16

Date Collected: 01/23/19 10:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 18:40	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 18:40	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 22:44	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 06:42	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 19:51	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	525532	01/29/19 18:14	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:54	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 21:13	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AU11S-3.5-4

Lab Sample ID: 720-90981-17

Date Collected: 01/23/19 10:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525787	01/30/19 19:16	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525788	01/30/19 19:16	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 23:08	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 07:02	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525826	01/30/19 16:00	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 15:40	JM	TAL IRV
Total/NA	Prep	3546	DL		525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082	DL	5	526128	01/31/19 15:53	JM	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 11:57	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 21:15	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AU11S-9.5-10

Lab Sample ID: 720-90981-18

Date Collected: 01/23/19 10:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525787	01/30/19 19:53	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525788	01/30/19 19:53	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526662	02/04/19 18:15	HN	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 11:07	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525535	01/29/19 20:20	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 15:26	JM	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		10	526660	02/04/19 11:59	TQN	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		20	526660	02/04/19 12:44	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		20	526106	01/31/19 01:09	DB	TAL IRV

Client Sample ID: DG-AU11S-9.5-10

Lab Sample ID: 720-90981-18

Date Collected: 01/23/19 10:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AW11S-0.5-1

Lab Sample ID: 720-90981-19

Date Collected: 01/23/19 10:50

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525787	01/30/19 20:19	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525788	01/30/19 20:19	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 11:38	L1B	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 08:44	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525826	01/30/19 16:30	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 16:07	JM	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 12:26	TQN	TAL IRV
Total/NA	Prep	7471A			525862	01/30/19 12:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 21:18	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525673	01/29/19 19:05	HTL	TAL IRV

Client Sample ID: DG-AW11S-3.5-4

Lab Sample ID: 720-90981-20

Date Collected: 01/23/19 10:50

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526096	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 11:54	AYL	TAL IRV
Total/NA	Prep	5035			526096	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 11:54	AYL	TAL IRV
Total/NA	Prep	3546			526313	02/01/19 09:44	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		5	527041	02/06/19 12:01	L1B	TAL IRV
Total/NA	Prep	3546			525025	01/25/19 15:17	EGC	TAL IRV
Total/NA	Analysis	8015B		1	524947	01/26/19 09:05	LMB	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8081A		1	525826	01/30/19 16:59	D1D	TAL IRV
Total/NA	Prep	3546			525472	01/29/19 06:19	L1A	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 16:20	JM	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV

Client Sample ID: DG-AW11S-3.5-4

Lab Sample ID: 720-90981-20

Date Collected: 01/23/19 10:50

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		5	526660	02/04/19 12:29	TQN	TAL IRV
Total/NA	Prep	7471A			525866	01/30/19 12:53	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 22:17	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AW11S-7.5-8

Lab Sample ID: 720-90981-21

Date Collected: 01/23/19 10:50

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/23/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/30/19 23:40	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/23/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/30/19 23:40	OH1	TAL IRV
Total/NA	Prep	3546			526317	02/01/19 09:52	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		5	527041	02/06/19 12:24	L1B	TAL IRV
Total/NA	Prep	3546			525032	01/25/19 15:47	EGC	TAL IRV
Total/NA	Analysis	8015B		10	525504	01/29/19 10:42	LMB	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	526363	02/01/19 17:50	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 18:50	JM	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		50	526707	02/04/19 16:03	P1R	TAL IRV
Total/NA	Prep	7471A			525866	01/30/19 12:53	DB	TAL IRV
Total/NA	Analysis	7471A		5	526106	01/31/19 01:00	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AT12S-0.5-1

Lab Sample ID: 720-90981-22

Date Collected: 01/23/19 11:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/30/19 22:51	OH1	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/30/19 22:51	OH1	TAL IRV
Total/NA	Prep	3546			526317	02/01/19 09:52	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526850	02/05/19 20:41	L1B	TAL IRV
Total/NA	Prep	3546			525032	01/25/19 15:47	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525504	01/29/19 13:49	LMB	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:38	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 20:26	D1D	TAL IRV

Client Sample ID: DG-AT12S-0.5-1

Lab Sample ID: 720-90981-22

Date Collected: 01/23/19 11:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			525476	01/29/19 06:38	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 19:24	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		10	526660	02/04/19 12:34	TQN	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		20	526660	02/04/19 12:47	TQN	TAL IRV
Total/NA	Prep	7471A			525866	01/30/19 12:53	DB	TAL IRV
Total/NA	Analysis	7471A		5	526106	01/31/19 01:05	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AT12S-3.5-4

Lab Sample ID: 720-90981-23

Date Collected: 01/23/19 11:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/30/19 23:16	OH1	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/30/19 23:16	OH1	TAL IRV
Total/NA	Prep	3546			526317	02/01/19 09:52	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526850	02/05/19 21:04	L1B	TAL IRV
Total/NA	Prep	3546			525032	01/25/19 15:47	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525504	01/29/19 11:45	LMB	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:38	L1H	TAL IRV
Total/NA	Analysis	8081A		1	526074	01/31/19 19:59	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:38	L1H	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 18:22	JM	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 12:37	TQN	TAL IRV
Total/NA	Prep	7471A			525866	01/30/19 12:53	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/31/19 01:24	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AT12S-9.5-10

Lab Sample ID: 720-90981-24

Date Collected: 01/23/19 11:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	525790	01/30/19 19:54	AYL	TAL IRV
Total/NA	Prep	5035			525570	01/23/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525791	01/30/19 19:54	AYL	TAL IRV
Total/NA	Prep	3546			526317	02/01/19 09:52	L1A	TAL IRV

Client Sample ID: DG-AT12S-9.5-10

Lab Sample ID: 720-90981-24

Date Collected: 01/23/19 11:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C SIM		1	526670	02/04/19 16:00	HN	TAL IRV
Total/NA	Prep	3546			525032	01/25/19 15:47	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525504	01/29/19 14:09	LMB	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:38	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 18:56	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:38	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 18:30	D1D	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		25	526707	02/04/19 16:06	P1R	TAL IRV
Total/NA	Prep	7471A			525866	01/30/19 12:53	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 22:31	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AM15S-9.5-10

Lab Sample ID: 720-90981-25

Date Collected: 01/23/19 15:30

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525870	01/23/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	525787	01/30/19 18:00	AYL	TAL IRV
Total/NA	Prep	5035			525870	01/23/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525788	01/30/19 18:00	AYL	TAL IRV
Total/NA	Prep	3546			526317	02/01/19 09:52	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526670	02/04/19 16:23	HN	TAL IRV
Total/NA	Prep	3546			525032	01/25/19 15:47	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525504	01/29/19 14:30	LMB	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:43	L1H	TAL IRV
Total/NA	Analysis	8081A		1	526074	01/31/19 20:28	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:43	L1H	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 18:36	JM	TAL IRV
Total/NA	Prep	3050B			526067	01/31/19 09:45	DT	TAL IRV
Total/NA	Analysis	6010B		5	526660	02/04/19 12:42	TQN	TAL IRV
Total/NA	Prep	7471A			525866	01/30/19 12:53	DB	TAL IRV
Total/NA	Analysis	7471A		1	526106	01/30/19 22:33	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: TB-01.23.19

Lab Sample ID: 720-90981-26

Date Collected: 01/23/19 00:00

Matrix: Water

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	525179	01/27/19 18:01	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525180	01/27/19 18:01	JB	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90981-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3546	Solid	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total
8270C SIM	3546	Solid	2-Methylnaphthalene
8270C SIM	3546	Solid	Acenaphthene
8270C SIM	3546	Solid	Acenaphthylene
8270C SIM	3546	Solid	Anthracene
8270C SIM	3546	Solid	Benzo[a]anthracene
8270C SIM	3546	Solid	Benzo[a]pyrene
8270C SIM	3546	Solid	Benzo[b]fluoranthene
8270C SIM	3546	Solid	Benzo[g,h,i]perylene
8270C SIM	3546	Solid	Benzo[k]fluoranthene
8270C SIM	3546	Solid	Chrysene
8270C SIM	3546	Solid	Dibenz(a,h)anthracene
8270C SIM	3546	Solid	Fluoranthene
8270C SIM	3546	Solid	Fluorene
8270C SIM	3546	Solid	Indeno[1,2,3-cd]pyrene
8270C SIM	3546	Solid	Naphthalene
8270C SIM	3546	Solid	Phenanthrene
8270C SIM	3546	Solid	Pyrene
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
Moisture	Percent Moisture	EPA	TAL IRV
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90981-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90981-1	DG-AR13S-0.5-1	Solid	01/23/19 13:00	01/23/19 18:45
720-90981-2	DG-AR13S-3.5-4	Solid	01/23/19 13:00	01/23/19 18:45
720-90981-3	DG-AR13S-9.5-10	Solid	01/23/19 13:00	01/23/19 18:45
720-90981-4	DG-AP13S-0.5-1	Solid	01/23/19 13:30	01/23/19 18:45
720-90981-5	DG-AP13S-3.5-4	Solid	01/23/19 13:30	01/23/19 18:45
720-90981-6	DG-AP13S-9.5-10	Solid	01/23/19 13:30	01/23/19 18:45
720-90981-7	DG-AK15S-0.5-1	Solid	01/23/19 14:40	01/23/19 18:45
720-90981-8	DG-AK15S-3.5-4	Solid	01/23/19 14:40	01/23/19 18:45
720-90981-9	DG-AM15S-0.5-1	Solid	01/23/19 15:30	01/23/19 18:45
720-90981-10	DG-AM15S-3.5-4	Solid	01/23/19 15:30	01/23/19 18:45
720-90981-11	DUP-113	Solid	01/23/19 00:00	01/23/19 18:45
720-90981-12	DUP-96	Solid	01/23/19 00:00	01/23/19 18:45
720-90981-13	DG-AX9S-0.5-1	Solid	01/23/19 09:00	01/23/19 18:45
720-90981-14	DG-AX9S-3.5-4	Solid	01/23/19 09:00	01/23/19 18:45
720-90981-15	DG-AX9S-9.5-10	Solid	01/23/19 09:00	01/23/19 18:45
720-90981-16	DG-AU11S-0.5-1	Solid	01/23/19 10:00	01/23/19 18:45
720-90981-17	DG-AU11S-3.5-4	Solid	01/23/19 10:00	01/23/19 18:45
720-90981-18	DG-AU11S-9.5-10	Solid	01/23/19 10:00	01/23/19 18:45
720-90981-19	DG-AW11S-0.5-1	Solid	01/23/19 10:50	01/23/19 18:45
720-90981-20	DG-AW11S-3.5-4	Solid	01/23/19 10:50	01/23/19 18:45
720-90981-21	DG-AW11S-7.5-8	Solid	01/23/19 10:50	01/23/19 18:45
720-90981-22	DG-AT12S-0.5-1	Solid	01/23/19 11:20	01/23/19 18:45
720-90981-23	DG-AT12S-3.5-4	Solid	01/23/19 11:20	01/23/19 18:45
720-90981-24	DG-AT12S-9.5-10	Solid	01/23/19 11:20	01/23/19 18:45
720-90981-25	DG-AM15S-9.5-10	Solid	01/23/19 15:30	01/23/19 18:45
720-90981-26	TB-01.23.19	Water	01/23/19 00:00	01/23/19 18:45

eurofins | CEI

Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A191599
Received:01/25/2019
Reported:2/06/2019
Analyst: Mikaela Batta

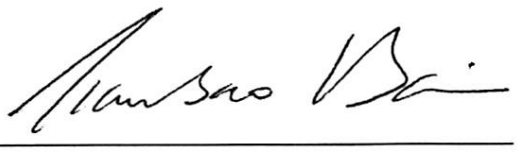
Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AR13S-0.5-1 (720-90981-1)	A24173	No	None Detected	0.00
DG-AR13S-3.5-4 (720-90981-2)	A24174	Yes	Chrysotile	<0.25
DG-AR13S-9.5-10 (720-90981-3)	A24175	Yes	Chrysotile	<0.25
DG-AP13S-0.5-1 (720-90981-4)	A24176	No	None Detected	0.00
DG-AP13S-3.5-4 (720-90981-5)	A24177	No	None Detected	0.00
DG-AP13S-9.5-10 (720-90981-6)	A24178	No	None Detected	0.00
DG-AK15S-0.5-1 (720-90981-7)	A24179	No	None Detected	0.00
DG-AK15S-3.5-4 (720-90981-8)	A24180	No	None Detected	0.00
DG-AM15S-0.5-1 (720-90981-9)	A24181	No	None Detected	0.00
DG-AM15S-3.5-4 (720-90981-10)	A24182	Yes	Amosite	<0.25
DUP-113 (720-90981-11)	A24183	Yes	Chrysotile	<0.25
DUP-96 (720-90981-12)	A24184	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

eurofins | CEI

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AX9S-0.5-1 (720-90981-13)	A24185	No	None Detected	0.00
DG-AX9S-3.5-4 (720-90981-14)	A24186	No	None Detected	0.00
DG-AX9S-9.5-10 (720-90981-15)	A24187	No	None Detected	0.00
DG-AU11S-0.5-1 (720-90981-16)	A24188	Yes	Chrysotile	<0.25
DG-AU11S-3.5-4 (720-90981-17)	A24189	No	None Detected	0.00
DG-AU11S-9.5-10 (720-90981-18)	A24190	No	None Detected	0.00
DG-AW11S-0.5-1 (720-90981-19)	A24191	No	None Detected	0.00
DG-AW11S-3.5-4 (720-90981-20)	A24192	No	None Detected	0.00
DG-AW11S-7.5-8 (720-90981-21)	A24193	No	None Detected	0.00
DG-AT12S-0.5-1 (720-90981-22)	A24194	No	None Detected	0.00
DG-AT12S-3.5-4 (720-90981-23)	A24195	No	None Detected	0.00
DG-AT12S-9.5-10 (720-90981-24)	A24196	No	None Detected	0.00
DG-AM15S-9.5-10 (720-90981-25)	A24197	No	None Detected	0.00

REVIEWED BY: 

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

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Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

A191599 (2) A24173-A24197

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40934.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/6/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AR13S-0.5-1 (720-90981-1)	1/23/19	13:00 Pacific		Solid			X	1	
DG-AR13S-3.5-4 (720-90981-2)	1/23/19	13:00 Pacific		Solid			X	1	
DG-AR13S-9.5-10 (720-90981-3)	1/23/19	13:00 Pacific		Solid			X	1	
DG-AP13S-0.5-1 (720-90981-4)	1/23/19	13:30 Pacific		Solid			X	1	
DG-AP13S-3.5-4 (720-90981-5)	1/23/19	13:30 Pacific		Solid			X	1	
DG-AP13S-9.5-10 (720-90981-6)	1/23/19	13:30 Pacific		Solid			X	1	
DG-AK15S-0.5-1 (720-90981-7)	1/23/19	14:40 Pacific		Solid			X	1	
DG-AK15S-3.5-4 (720-90981-8)	1/23/19	14:40 Pacific		Solid			X	1	
DG-AM15S-0.5-1 (720-90981-9)	1/23/19	15:30 Pacific		Solid			X	1	

EUROFINS CEI, INC
SAMPLES ACCEPTED

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 1/24/19 1209	Company TAPLS	Received by: CS	Date/Time: 1/25 9:40	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

A-191599

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40934.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/6/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AM15S-3.5-4 (720-90981-10)	1/23/19	15:30 Pacific		Solid			X	1	
DUP-113 (720-90981-11)	1/23/19	Pacific		Solid			X	1	
DUP-96 (720-90981-12)	1/23/19	Pacific		Solid			X	1	
DG-AX9S-0.5-1 (720-90981-13)	1/23/19	09:00 Pacific		Solid			X	1	
DG-AX9S-3.5-4 (720-90981-14)	1/23/19	09:00 Pacific		Solid			X	1	
DG-AX9S-9.5-10 (720-90981-15)	1/23/19	09:00 Pacific		Solid			X	1	
DG-AU11S-0.5-1 (720-90981-16)	1/23/19	10:00 Pacific		Solid			X	1	
DG-AU11S-3.5-4 (720-90981-17)	1/23/19	10:00 Pacific		Solid			X	1	
DG-AU11S-9.5-10 (720-90981-18)	1/23/19	10:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/24/19 1229	TAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

A191599

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40934.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/6/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AW11S-0.5-1 (720-90981-19)	1/23/19	10:50 Pacific		Solid			X	1	
DG-AW11S-3.5-4 (720-90981-20)	1/23/19	10:50 Pacific		Solid			X	1	
DG-AW11S-7.5-8 (720-90981-21)	1/23/19	10:50 Pacific		Solid			X	1	
DG-AT12S-0.5-1 (720-90981-22)	1/23/19	11:20 Pacific		Solid			X	1	
DG-AT12S-3.5-4 (720-90981-23)	1/23/19	11:20 Pacific		Solid			X	1	
DG-AT12S-9.5-10 (720-90981-24)	1/23/19	11:20 Pacific		Solid			X	1	
DG-AM15S-9.5-10 (720-90981-25)	1/23/19	15:30 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/24/19 1229	Company TKDW	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90981

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90981 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1.	DG-AR13S-~~0.5-3~~ 0.5-1	1/23/2019	1300	G	S	7	N		X	X	X	X	X	X	X	
2.	DG-AR13S-3.5-4	1/23/2019	1300	G	S	7	N		X	X	X	X	X	X	X	
3.	DG-AR13S-9.5-10	1/23/2019	1300	G	S	7	N		X	X	X	X	X	X	X	
4.	~~DG-AR13~~ DG-AP13S-0.5-1	1/23/2019	1330	G	S	7	N		X	X	X	X	X	X	X	
5.	DG-AP13S-3.5-4	1/23/2019	1330	G	S	7	N		X	X	X	X	X	X	X	
6.	DG-AP13S-9.5-10	1/23/2019	1330	G	S	7	N		X	X	X	X	X	X	X	
7.	DG-AK15S-0.5-1	1/23/2019	~~1330~~ 1440	G	S	7	N		X	X	X	X	X	X	X	
8.	DG-AK15S-3.5-4	1/23/2019	1440	G	S	7	N		X	X	X	X	X	X	X	
9.	DG-AM15S-0.5-1	1/23/2019	1530	G	S	7	N		X	X	X	X	X	X	X	
10.	DG-AM15S-3.5-4	1/23/2019	1530	G	S	7	N		X	X	X	X	X	X	X	
11.	DUP-113	1/23/2019	—	G	S	7	N		X	X	X	X	X	X	X	
12.	DUP-96	1/23/2019	—	G	S	7	N	N	X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

4.9°C, 1.0°C, 3.4°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____	
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 16:15	Received by:	Company: TA PLS	Date/Time: 1/23/19 1615
Relinquished by:	Company: TA PLS	Date/Time: 1-23-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-23-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90981

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

15511

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec com, mkahnias@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13	DG-AX9S-0.5-1	1/23/2019	0900	G	S	1	N		X	X	X	X	X	X	X	
14	DG-AX9S-3.5-4	1/23/2019	0900	G	S	1	N		X	X	X	X	X	X	X	
15	DG-AX9S-9.5-10	1/23/2019	0900	G	S	1	N		X	X	X	X	X	X	X	
16	DG-AU11S-0.5-1	1/23/2019	1000	G	S	1	N		X	X	X	X	X	X	X	
17	DG-AU11S-3.5-4	1/23/2019	1000	G	S	1	N		X	X	X	X	X	X	X	
18	DG-AU11S-9.5-10	1/23/2019	1000	G	S	1	N		X	X	X	X	X	X	X	
19	DG-AW11S-0.5-1	1/23/2019	1050	G	S	1	N		X	X	X	X	X	X	X	
20	DG-AW11S-3.5-4	1/23/2019	1050	G	S	1	N		X	X	X	X	X	X	X	
21	DG-AW11S-7.5-8	1/23/2019	1050	G	S	1	N		X	X	X	X	X	X	X	
22	DG-AT12S-0.5-1	1/23/2019	1120	G	S	1	N		X	X	X	X	X	X	X	
23	DG-AT12S-3.5-4	1/23/2019	1120	G	S	1	N		X	X	X	X	X	X	X	
24	DG-AT12S-9.5-10	1/23/2019	1120	G	S	1	N		X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 1615	Received by:	Company: TA PLS	Date/Time: 1/23/19 16:15
Relinquished by:	Company: TA PLS	Date/Time: 1-23-19 18:45	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/23/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/14/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90981

Chain of Custody Record

18607

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
25	DG-AM15S-9.5-10	1/23/2019	1530	G	S	7	N		X	X	X	X	X	X	X	
26	TB-1232019	1/23/2019	—	G	W	1	N			X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd: _____ Therm ID No. _____		
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 16:15	Received by:	Company: TA-PLS	Date/Time: 1-23-19 16:15
Relinquished by:	Company: TA-PLS	Date/Time: 1-23-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-23-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/14/2019

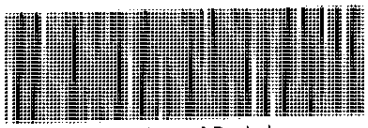
WEB
GEOSYNTEC TERRA CORES
720-90981

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
478645742657

Total Pieces: 1



720-90981-02 Chain of Custody

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Wgt: 40.00 LBS

DV: 100.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: PRIORITY OVERNIGHT

TRCK: 4786 4574 2657

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90981

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#188071

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90981 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1.	DG-AR13S-~~0.5~~ 0.5-1	1/23/2019	1300	G	S	1	N		X	X	X	X	X	X	X	
2.	DG-AR13S-3.5-4	1/23/2019	1300	G	S	1	N		X	X	X	X	X	X	X	
3.	DG-AR13S-9.5-10	1/23/2019	1300	G	S	1	N		X	X	X	X	X	X	X	
4.	~~DG-AR13~~ DG-AP13S-0.5-1	1/23/2019	1320	G	S	1	N		X	X	X	X	X	X	X	
5.	DG-AP13S-3.5-4	1/23/2019	1330	G	S	1	N		X	X	X	X	X	X	X	
6.	DG-AP13S-9.5-10	1/23/2019	1330	G	S	1	N		X	X	X	X	X	X	X	
7.	DG-AK15S-0.5-1	1/23/2019	~~1330~~ 1440	G	S	1	N		X	X	X	X	X	X	X	
8.	DG-AK15S-3.5-4	1/23/2019	1440	G	S	1	N		X	X	X	X	X	X	X	
9.	DG-AM15S-0.5-1	1/23/2019	1530	G	S	1	N		X	X	X	X	X	X	X	
10.	DG-AM15S-3.5-4	1/23/2019	1530	G	S	1	N		X	X	X	X	X	X	X	
11.	DUP-113	1/23/2019	—	G	S	1	N		X	X	X	X	X	X	X	
12.	DUP-96	1/23/2019	—	G	S	1	N		X	X	X	X	X	X	X	

720-90981 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

4.9°C, 1.0°C, 3.4°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 1615	Received by:	Company: TA PLS	Date/Time: 1-23-19 1615
Relinquished by:	Company: TA PCS	Date/Time: 1-23-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-23-19 1845

Received @ AS

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TAT 8/1-3 HR 44

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

TO-90981

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188071

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahnias@geosyntec.com, tamith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
13.	DG-AX9S-0.5-1	1/23/2019	0900	G	S	7	N		X	X	X	X	X	X	X	
14.	DG-AX9S-3.5-4	1/23/2019	0900	G	S	7	N		X	X	X	X	X	X	X	
15.	DG-AX9S-9.5-10	1/23/2019	0900	G	S	7	N		X	X	X	X	X	X	X	
16.	DG-AW11S-0.5-1	1/23/2019	1000	G	S	7	N		X	X	X	X	X	X	X	
17.	DG-AW11S-3.5-4	1/23/2019	1000	G	S	7	N		X	X	X	X	X	X	X	
18.	DG-AW11S-9.5-10	1/23/2019	1000	G	S	7	N		X	X	X	X	X	X	X	
19.	DG-AW11S-0.5-1	1/23/2019	1050	G	S	7	N		X	X	X	X	X	X	X	
20.	DG-AW11S-3.5-4	1/23/2019	1050	G	S	7	N		X	X	X	X	X	X	X	
21.	DG-AW11S-7.5-8	1/23/2019	1050	G	S	7	N		X	X	X	X	X	X	X	
22.	DG-AT12S-0.5-1	1/23/2019	1120	G	S	7	N		X	X	X	X	X	X	X	
23.	DG-AT12S-3.5-4	1/23/2019	1120	G	S	7	N		X	X	X	X	X	X	X	
24.	DG-AT12S-9.5-10	1/23/2019	1120	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 1615	Received by:	Company: TA PLS	Date/Time: 1-23-19 16:15
Relinquished by:	Company: TA PLS	Date/Time: 1-23-19 1845	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-23-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90981

Chain of Custody Record

168071

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
25	DG-AM15S-9.5-10	1/23/2019	1530	G	S	7	N		X	X	X	X	X	X	X	
26	TB-1232019	1/23/2019	—	G	W	1	N			X						

Preservation Used: 1= Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by: Nathan Schachtman	Geosyntec	1/23/2019 1615	Received by:	TA PLS	1-23-19 16:15
Relinquished by:	TA PLS	1-23-19 16:45	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	TA-PLS	1-23-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 2657	COC No: 720-40933.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:				
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Special Instructions/Note: 4 TERRA CORES

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B_LL/5035A_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035B 8260-(MOD) VOCs	8260B/CA_LUFTMS/M30B 8260-C4-C12 Volatile Fuel Hydrocarbons
DG-AR13S-0.5-1 (720-90981-1)	1/23/19	13:00 Pacific		Solid	X	X	X	X
DG-AR13S-3.5-4 (720-90981-2)	1/23/19	13:00 Pacific		Solid	X	X	X	X
DG-AR13S-9.5-10 (720-90981-3)	1/23/19	13:00 Pacific		Solid	X	X	X	X
DG-AP13S-0.5-1 (720-90981-4)	1/23/19	13:30 Pacific		Solid	X	X	X	X
DG-AP13S-3.5-4 (720-90981-5)	1/23/19	13:30 Pacific		Solid	X	X	X	X
DG-AP13S-9.5-10 (720-90981-6)	1/23/19	13:30 Pacific		Solid	X	X	X	X
DG-AK15S-0.5-1 (720-90981-7)	1/23/19	14:40 Pacific		Solid	X	X	X	X
DG-AK15S-3.5-4 (720-90981-8)	1/23/19	14:40 Pacific		Solid	X	X	X	X
DG-AM15S-0.5-1 (720-90981-9)	1/23/19	15:30 Pacific		Solid	X	X	X	X

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O			
Relinquished by:	Date/Time: 1/23/19 16:42	Company TA-PLS	Received by:	Date/Time: 1/24/19 9:45	Company TA-PLS	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes ☒ No
Custody Seal No.: TRK #4786 4574 2657
1/23/19 4786 4 8 1123/19

Cooler Temperature(s) °C and Other Remarks: 1.8/1.3 16.4Y

Ver: 09/20/2016

Encores or Terracores Frozen 1/24/19 Time: 10 30 Initials: AS

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40933.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8082/3546 Standard 8082 PCB list	8015M/3546 (MOD) 8015-(MOD) Standard DRO	8015B_DRO/3546 (MOD) 8015-(MOD) Standard DRO (with Silica Gel)	8015B (DRO) Organics	Moisture Percent Moisture	6010B/3050B 6010-CAM-17, Hg Mercury	7471A/7471A Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5035B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AM15S-3.5-4 (720-90981-10)	1/23/19	15:30 Pacific		Solid								X	X			4) - TERRA CORES
DUP-113 (720-90981-11)	1/23/19	Pacific		Solid								X	X			
DUP-96 (720-90981-12)	1/23/19	Pacific		Solid								X	X			
DG-AX9S-0.5-1 (720-90981-13)	1/23/19	09:00 Pacific		Solid								X	X			
DG-AX9S-3.5-4 (720-90981-14)	1/23/19	09:00 Pacific		Solid								X	X			
DG-AX9S-9.5-10 (720-90981-15)	1/23/19	09:00 Pacific		Solid								X	X			
DG-AU11S-0.5-1 (720-90981-16)	1/23/19	10:00 Pacific		Solid								X	X			
DG-AU11S-3.5-4 (720-90981-17)	1/23/19	10:00 Pacific		Solid								X	X			
DG-AU11S-9.5-10 (720-90981-18)	1/23/19	10:00 Pacific		Solid								X	X			

1/23/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment: FED-EX O/O	
Relinquished by:	Date/Time: 1/23/19 1642	Company TA-PLS	Received by:	Date/Time: 1/24/19 9:45	Company TA IRV		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.8 / 1.3 IR-94				

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40933.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8082/3546 Standard 8082 PCB list	DRO/AK3546 (MOD) 8015-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/7471A Prep 7471A-Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_PW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFT/5035A_F_PW_7 8260-CA-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFT/5030B 8260-CA-C12 Volatile Fuel Hydrocarbons				Total Number of containers
DG-AW11S-0.5-1 (720-90981-19)	1/23/19	10:50 Pacific		Solid	X	X	X	X	X	X	X	X						4
DG-AW11S-3.5-4 (720-90981-20)	1/23/19	10:50 Pacific		Solid	X	X	X	X	X	X	X	X						4
DG-AW11S-7.5-8 (720-90981-21)	1/23/19	10:50 Pacific		Solid	X	X	X	X	X	X	X	X						4
DG-AT12S-0.5-1 (720-90981-22)	1/23/19	11:20 Pacific		Solid	X	X	X	X	X	X	X	X						4
DG-AT12S-3.5-4 (720-90981-23)	1/23/19	11:20 Pacific		Solid	X	X	X	X	X	X	X	X						4
DG-AT12S-9.5-10 (720-90981-24)	1/23/19	11:20 Pacific		Solid	X	X	X	X	X	X	X	X						4
DG-AM15S-9.5-10 (720-90981-25)	1/23/19	15:30 Pacific		Solid	X	X	X	X	X	X	X	X						4
TB-1232019 (720-90981-26)	1/23/19	Pacific		Water									X	X				2

Special Instructions/Note: 1/23/19
4 TERRA CORES
check for 2 phases 40ml HCL VIAL

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment: FED-EX D/D	
Relinquished by:	Date/Time: 1/23/19 1642	Company TA-PLS	Received by:	Date/Time: 1/24/19 9:15	Company THRU		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645742727	COC No: 720-40933.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-CA-02 Volatile Petr hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-CA-02 Volatile Petr Hydrocarbons	Total Number of containers	Special Instructions/Note:
		Preservation Code:																
DG-AR13S-0.5-1 (720-90981-1)	1/23/19	13:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	2 JARS
DG-AR13S-3.5-4 (720-90981-2)	1/23/19	13:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AR13S-9.5-10 (720-90981-3)	1/23/19	13:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AP13S-0.5-1 (720-90981-4)	1/23/19	13:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AP13S-3.5-4 (720-90981-5)	1/23/19	13:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AP13S-9.5-10 (720-90981-6)	1/23/19	13:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AK15S-0.5-1 (720-90981-7)	1/23/19	14:40 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AK15S-3.5-4 (720-90981-8)	1/23/19	14:40 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AM15S-0.5-1 (720-90981-9)	1/23/19	15:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Joan Mullen	Date/Time: 1-24-19 1340	Company: PTS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/25/19 10:00	Company TA-IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.6 / 3.0 / 2.1 / 2.5 IR93

Ver. 09/20/2016

2/14/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645742727	COC No: 720-40933.2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_E_FW_7 8260-(MOD) VOCs-EDD	8260B(CA_LUFT)/5035A_E_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B(CA_LUFT)/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
		Preservation Code:																
DG-AM15S-3.5-4 (720-90981-10)	1/23/19	15:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	2 of JARS
DUP-113 (720-90981-11)	1/23/19	Pacific		Solid			X	X	X	X	X	X	X	X			6	1/23/19
DUP-96 (720-90981-12)	1/23/19	Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AX9S-0.5-1 (720-90981-13)	1/23/19	09:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AX9S-3 5-4 (720-90981-14)	1/23/19	09:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AX9S-9.5-10 (720-90981-15)	1/23/19	09:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AU11S-0.5-1 (720-90981-16)	1/23/19	10:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AU11S-3.5-4 (720-90981-17)	1/23/19	10:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AU11S-9 5-10 (720-90981-18)	1/23/19	10:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1-24-19 1340	Company: DLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/25/19	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/25/19 10:00	Company: TA-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	2.6/3.0 2.1/2.5 IR93

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4706 4574 2727	COC No: 720-40933.3
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNeO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Petrl Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Petrl Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:															
DG-AW11S-0.5-1 (720-90981-19)	1/23/19	10:50 Pacific		Solid			X	X	X	X	X	X	X	X			6	(2) TARS
DG-AW11S-3.5-4 (720-90981-20)	1/23/19	10:50 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AW11S-7.5-8 (720-90981-21)	1/23/19	10:50 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AT12S-0.5-1 (720-90981-22)	1/23/19	11:20 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AT12S-3.5-4 (720-90981-23)	1/23/19	11:20 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AT12S-9 5-10 (720-90981-24)	1/23/19	11:20 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AM15S-9.5-10 (720-90981-25)	1/23/19	15:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	
TB-1232019 (720-90981-26)	1/23/19	Pacific		Water									X	X			1	check for 2 phases
													X					

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by:	Date/Time: 1-24-19/340	Company: PTS	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1/25/19 10:00	Company: TA-IRV

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.6/3.0 2.1/2.5 IR93	

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90981-1

Login Number: 90981
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90981-1

Login Number: 90981
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/24/19 02:56 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, January 24, 2019 11:36 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90981-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

That is correct for what to sample the TB for, thank you for catching that and I will remind the field staff.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Thursday, January 24, 2019 11:31 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90981-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90981-1; Brisbane OU-2 Data Gap Investigation

COC requests PAHs for TB sample. Sample was logged in for VOCs and GRO instead. Please confirm if this is correct.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [497489]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90982-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Jill Kellmann

Authorized for release by:
2/15/2019 1:46:22 PM
Jill Kellmann, Manager of Project Management
(916)374-4402
jill.kellmann@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-90982-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90982-1

Comments
No additional comments.

Receipt
The samples were received on 1/23/2019 6:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.0º C, 3.4º C and 4.9º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DG-V15S-0.5-1 (720-90982-40). The container label lists DG-V15S-.5-1.5 while the COC lists DG-V15S-0.5-1. Sample was logged in using ID on COC.

No containers were received for matrix spike / matrix spike duplicate (MS/MSD).

Metals
Method 6010B: The continuing calibration blank (CCB) associated with batch 440-526507 contained Lead above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL). The following sample is impacted: (CCB 440-526507/28).

Method 6010B: The continuing calibration blank (CCB) associated with batch 440-526937 contained Antimony above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL). The following samples are impacted: (CCB 440-526937/27) and (CCB 440-526937/50).

Method 6010B: The continuing calibration blank (CCB) associated with batch 440-527002 contained Antimony above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL). The following samples are impacted: (CCB 440-527002/16) and (CCB 440-527002/28).

Method 6010B: The serial dilution performed for the following sample associated with batch 440-526933 was outside control limits for Barium and Lead: (720-90982-A-1-J SD ^25).

Method 6010B: The serial dilution performed for the following sample associated with batch 440-526937 was outside control limits for Barium, Lead and Zinc: (720-90982-A-21-C SD ^25).

Method 6010B: The serial dilution performed for the following sample associated with batch 440-527276 was outside control limits for Barium and Lead: (720-90982-A-1-J SD ^25).

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries/precision of Barium, Zinc, Lead and Antimony for preparation batch 440-526653 and analytical batch 440-527276 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision of Silver, Copper, Lead and Zinc for preparation batch 440-526654 and analytical batch 440-526937 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Antimony for preparation batch 440-526654 and analytical batch 440-526937 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Barium, Copper, Lead, Antimony and Zinc for preparation batch 440-526776 and analytical batch 440-527002 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision of Arsenic, Barium, Copper and Antimony for

Job ID: 720-90982-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

preparation batch 440-527108 and analytical batch 440-527403 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Copper, Antimony and Zinc for preparation batch 440-527108 and analytical batch 440-527403 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-525956 and analytical batch 440-526382 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Client Sample ID: DG-AE17S-0.5-1 — Lab Sample ID: 720-90982-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	39	F1	1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	0.49	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.7		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	23		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	36		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	26		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	220	F2	2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	25		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	81	F1	5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.043		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE17S-3.5-4 — Lab Sample ID: 720-90982-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	32		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cobalt	7.7		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	8.8		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	79		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	4.0		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	80		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	62		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.052		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF16S-0.5-1 — Lab Sample ID: 720-90982-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	300		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.39	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.25	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.8		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	20		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	54	F1	2.0	1.1	mg/Kg	5		6010B	Total/NA
Molybdenum	3.4		2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	33		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	13		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	36		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	58	F1	5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.11	F1	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF16S-3.5-4 — Lab Sample ID: 720-90982-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	91		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.36	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	12		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	52		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	17		2.0	1.1	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample ID: DG-AF16S-3.5-4 (Continued) — Lab Sample ID: 720-90982-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	29		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	7.6		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	44		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	42		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.025		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC17S-0.5-1 — Lab Sample ID: 720-90982-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	48		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.50		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.2		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	27		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	18		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	31		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	6.5		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	41		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	39		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.041		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC17S-3.5-4 — Lab Sample ID: 720-90982-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	37		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	150		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.33	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	39		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	37		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	44		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	46		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	36		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	78		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.079		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF18S-0.5-1 — Lab Sample ID: 720-90982-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	31		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	110		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.38	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.29	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.1		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	39		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	27		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	28		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	74		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	37		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	110		5.0	2.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AF18S-0.5-1 (Continued) — Lab Sample ID: 720-90982-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.12		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF18S-3.5-4 — Lab Sample ID: 720-90982-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	18	F1	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	520	F2	1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.54		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.33	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	14		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	38		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	160	F1	2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	43		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	12		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	40		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	65		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.51		0.041	0.024	mg/Kg	2		7471A	Total/NA

Client Sample ID: DG-AE18S-0.5-1 — Lab Sample ID: 720-90982-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	81		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.45	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	14		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	44		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	17		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	32		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	10		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	45		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	59		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.051		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE18S-3.5-4 — Lab Sample ID: 720-90982-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	190		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.56		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	27		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	26		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	20		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	24		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	15		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	39		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	140		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.048		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-73 — Lab Sample ID: 720-90982-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-73 (Continued) — Lab Sample ID: 720-90982-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	79		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.36	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.9		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	55		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	14		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	30		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	7.4		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	49		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	57		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.016	J	0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-119 — Lab Sample ID: 720-90982-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	100		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.46	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	14		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	46		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	20		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	30		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	9.4		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	46		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	48		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.020		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG18S-0.5-1 — Lab Sample ID: 720-90982-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	120		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.47	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	15		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	76		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	16		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	49		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	12		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	62		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	41		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.36		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG18S-3.5-4 — Lab Sample ID: 720-90982-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	93		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.35	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	62		1.0	0.50	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG18S-3.5-4 (Continued) — Lab Sample ID: 720-90982-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	13		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	44		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	6.4		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	54		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	33		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.034		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD15S-0.5-1 — Lab Sample ID: 720-90982-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	53		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.50		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.30	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	13		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	36		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	50		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	31		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	28		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	45		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	93		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.022		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD15S-3.5-4 — Lab Sample ID: 720-90982-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	26		1.5	0.74	mg/Kg	5		6010B	Total/NA
Cobalt	3.2		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	45		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	7.6		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	17		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	3.0		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	37		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	16		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.032		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE14S-0.5-1 — Lab Sample ID: 720-90982-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	110		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	0.81		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	5.6		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	37		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	25		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	42		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	26		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	66		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	63		5.0	2.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE14S-0.5-1 (Continued) — Lab Sample ID: 720-90982-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.061		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE14S-3.5-4 — Lab Sample ID: 720-90982-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	35		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	130		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	0.44	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.7		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	110		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	110		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	31		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	92		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	47		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	180		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.25		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD16S-0.5-1 — Lab Sample ID: 720-90982-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	210		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	130		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.36	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.44	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.0		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	25		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	150		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	23		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	39		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	28		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	210		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.064		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD16S-3.5-4 — Lab Sample ID: 720-90982-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	19		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	49		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	0.37	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.1		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	92		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	7.6		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	120		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	59		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	180		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.13		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE16S-0.5-1 — Lab Sample ID: 720-90982-21

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE16S-0.5-1 (Continued)

Lab Sample ID: 720-90982-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	100		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.33	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.44	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	5.8		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	29		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	38	F1 F2	2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	43		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	120	F1 F2	2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	23		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	170	F1 F2	5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.28		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE16S-3.5-4

Lab Sample ID: 720-90982-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	98		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.35	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.48	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	5.6		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	30		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	45		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	35		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	140		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	22		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	200		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.72		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA18S-0.5-1

Lab Sample ID: 720-90982-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	94		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.32	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.31	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	7.7		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	32		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	47		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	31		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	100		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	37		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	89		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.080		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-118

Lab Sample ID: 720-90982-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	76	F1	1.5	0.74	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-118 (Continued) — Lab Sample ID: 720-90982-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.35	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.33	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	7.2		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	36		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	33	F1	2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	30		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	72	F1	2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	44		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	74	F1	5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.064		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA18S-3.5-4 — Lab Sample ID: 720-90982-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	100		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	0.59		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	5.2		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	210		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	180		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	55		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	330		2.0	1.0	mg/Kg	5		6010B	Total/NA
Antimony	5.5	J	10	5.0	mg/Kg	5		6010B	Total/NA
Vanadium	48		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	170		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.18		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y18S-0.5-1 — Lab Sample ID: 720-90982-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	51		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cobalt	3.5		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	15		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	17		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	11		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	4.4		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	32		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	29		5.0	2.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: DG-Y18S-3.5-4 — Lab Sample ID: 720-90982-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	52		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	1.9		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	21		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	140		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	27		2.0	1.0	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y18S-3.5-4 (Continued) — Lab Sample ID: 720-90982-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	310		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	83		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	290		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.099		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z18S-0.5-1 — Lab Sample ID: 720-90982-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	130		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.48	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	46		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	42		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	62		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	9.3		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	50		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	49		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.070		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z18S-3.5-4 — Lab Sample ID: 720-90982-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	55		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.32	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.56		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.4		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	19		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	210		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	46		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	570		2.0	1.0	mg/Kg	5		6010B	Total/NA
Antimony	6.6	J	10	5.0	mg/Kg	5		6010B	Total/NA
Vanadium	68		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	290		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.054		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y17S-0.5-1 — Lab Sample ID: 720-90982-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	65		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	2.1		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	8.4		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	14		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	180		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	34		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	170		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	80		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	510		5.0	2.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y17S-0.5-1 (Continued) — Lab Sample ID: 720-90982-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.065		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y17S-3.5-4 — Lab Sample ID: 720-90982-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	88		1.5	0.74	mg/Kg	5		6010B	Total/NA
Cadmium	0.64		0.49	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	6.2		0.99	0.49	mg/Kg	5		6010B	Total/NA
Chromium	24		0.99	0.49	mg/Kg	5		6010B	Total/NA
Copper	240		2.0	1.1	mg/Kg	5		6010B	Total/NA
Molybdenum	1.2	J	2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	55		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	440		2.0	0.99	mg/Kg	5		6010B	Total/NA
Antimony	6.2	J	9.9	4.9	mg/Kg	5		6010B	Total/NA
Vanadium	57		0.99	0.49	mg/Kg	5		6010B	Total/NA
Zinc	100		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.42		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X16S-0.5-1 — Lab Sample ID: 720-90982-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	39		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	0.36	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.1		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	35		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	140		2.0	1.1	mg/Kg	5		6010B	Total/NA
Molybdenum	1.2	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	26		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	110		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	75		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	76		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.12		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X16S-3.5-4 — Lab Sample ID: 720-90982-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	64		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.42	J	0.49	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.5		0.99	0.49	mg/Kg	5		6010B	Total/NA
Chromium	52		0.99	0.49	mg/Kg	5		6010B	Total/NA
Copper	71		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	71		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	100		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	60		0.99	0.49	mg/Kg	5		6010B	Total/NA
Zinc	49		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	2.2		0.098	0.059	mg/Kg	5		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Client Sample ID: DG-W14S-0.5-1 — Lab Sample ID: 720-90982-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	95		1.5	0.74	mg/Kg	5		6010B	Total/NA
Cadmium	2.7		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	7.3		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	36		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	170		2.0	1.1	mg/Kg	5		6010B	Total/NA
Molybdenum	2.4		2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	30		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	420		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	34		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	490		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.56		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W14S-3.5-4 — Lab Sample ID: 720-90982-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	56		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.40	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	31		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	99		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	74		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	58		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	75		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	50		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.022		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-127 — Lab Sample ID: 720-90982-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	110		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.29	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.76		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	6.8		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	160		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	170		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	53		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	390		2.0	1.0	mg/Kg	5		6010B	Total/NA
Antimony	5.3	J	10	5.0	mg/Kg	5		6010B	Total/NA
Vanadium	49		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	190		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.21		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W14S-9.5-10 — Lab Sample ID: 720-90982-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	29		1.5	0.75	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W14S-9.5-10 (Continued) — Lab Sample ID: 720-90982-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.35	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.44	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	40		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	37		2.0	1.1	mg/Kg	5		6010B	Total/NA
Molybdenum	1.1	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	51		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	18		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	41		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	69		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.079		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V14S-0.5-1 — Lab Sample ID: 720-90982-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	45		1.5	0.75	mg/Kg	5		6010B	Total/NA
Cadmium	0.51		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	9.9		1.0	0.50	mg/Kg	5		6010B	Total/NA
Chromium	20		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	120		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	35		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	390		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	77		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	190		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.20		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V14S-3.5-4 — Lab Sample ID: 720-90982-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.2		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	49		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.56		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	10		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	38		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	42		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	31		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	6.4		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	56		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	47		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.027		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V15S-0.5-1 — Lab Sample ID: 720-90982-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	120		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.28	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	1.1		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	11		1.0	0.50	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V15S-0.5-1 (Continued)

Lab Sample ID: 720-90982-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	38		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	270		2.0	1.1	mg/Kg	5		6010B	Total/NA
Molybdenum	1.1	J	2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	77		2.0	1.0	mg/Kg	5		6010B	Total/NA
Lead	1800		2.0	1.0	mg/Kg	5		6010B	Total/NA
Antimony	5.4	J	10	5.0	mg/Kg	5		6010B	Total/NA
Vanadium	78		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	540		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.037		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V15S-3.5-4

Lab Sample ID: 720-90982-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.6	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	65		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.63		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	0.32	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cobalt	24		0.99	0.50	mg/Kg	5		6010B	Total/NA
Chromium	87		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	31		2.0	1.1	mg/Kg	5		6010B	Total/NA
Nickel	39		2.0	0.99	mg/Kg	5		6010B	Total/NA
Lead	2.7		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	170		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	52		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.031		0.020	0.012	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE17S-0.5-1

Date Collected: 01/23/19 08:15
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Arsenic	**7.6**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Barium	**39**	**F1**	1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Cadmium	**0.49**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Cobalt	**8.7**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Chromium	**23**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Copper	**36**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Nickel	**26**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Lead	**220**	**F2**	2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Antimony	ND	F1	10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Vanadium	**25**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:13	5
Zinc	**81**	**F1**	5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:13	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:27	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**81.8**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AE17S-3.5-4

Date Collected: 01/23/19 08:15
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Arsenic	ND		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Barium	**32**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Cobalt	**7.7**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Chromium	**8.8**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Copper	**79**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Nickel	**4.0**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Lead	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Vanadium	**80**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:27	5
Zinc	**62**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:27	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.052**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**90.8**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AF16S-0.5-1

Date Collected: 01/23/19 08:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Arsenic	**2.8**	**J**	3.0	1.5	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Barium	**300**		1.5	0.75	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Beryllium	**0.39**	**J**	0.50	0.25	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Cadmium	**0.25**	**J**	0.50	0.25	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Cobalt	**8.8**		1.0	0.50	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Chromium	**20**		1.0	0.50	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Copper	**54**	**F1**	2.0	1.1	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Molybdenum	**3.4**		2.0	1.0	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Nickel	**33**		2.0	1.0	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Lead	**13**		2.0	1.0	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Antimony	ND	F1	10	5.0	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Selenium	ND		3.0	1.7	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Thallium	ND		10	5.0	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Vanadium	**36**		1.0	0.50	mg/Kg		02/06/19 13:30	02/07/19 13:16	5
Zinc	**58**	**F1**	5.0	2.5	mg/Kg		02/06/19 13:30	02/07/19 13:16	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**	**F1**	0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**91.0**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AF16S-3.5-4

Date Collected: 01/23/19 08:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Arsenic	**5.9**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Barium	**91**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Beryllium	**0.36**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Cobalt	**12**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Chromium	**52**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Copper	**17**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Nickel	**29**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Lead	**7.6**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Vanadium	**44**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:36	5
Zinc	**42**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:36	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:33	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.1**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**85.9**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AC17S-0.5-1

Date Collected: 01/23/19 08:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Arsenic	**6.7**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Barium	**48**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Beryllium	**0.50**		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Cobalt	**9.2**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Chromium	**27**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Copper	**18**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Nickel	**31**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Lead	**6.5**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Vanadium	**41**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:38	5
Zinc	**39**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:38	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**91.0**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AC17S-3.5-4

Date Collected: 01/23/19 08:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Arsenic	**37**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Barium	**150**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Beryllium	**0.33**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Cobalt	**11**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Chromium	**39**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Copper	**37**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Nickel	**44**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Lead	**46**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Vanadium	**36**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:17	5
Zinc	**78**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 17:17	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.079**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**89.3**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AF18S-0.5-1

Date Collected: 01/23/19 09:15
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Arsenic	**31**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Barium	**110**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Beryllium	**0.38**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Cadmium	**0.29**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Cobalt	**9.1**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Chromium	**39**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Copper	**27**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Nickel	**28**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Lead	**74**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Vanadium	**37**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:40	5
Zinc	**110**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:40	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:42	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.1**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**85.9**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AF18S-3.5-4

Date Collected: 01/23/19 09:15
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Arsenic	**18**	**F1**	3.0	1.5	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Barium	**520**	**F2**	1.5	0.75	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Beryllium	**0.54**		0.50	0.25	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Cadmium	**0.33**	**J**	0.50	0.25	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Cobalt	**14**		1.0	0.50	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Chromium	**38**		1.0	0.50	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Copper	**160**	**F1**	2.0	1.1	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Nickel	**43**		2.0	1.0	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Lead	**12**		2.0	1.0	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Antimony	ND	F1	10	5.0	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Selenium	ND		3.0	1.7	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Thallium	ND		10	5.0	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Vanadium	**40**		1.0	0.50	mg/Kg		02/06/19 13:30	02/07/19 13:28	5
Zinc	**65**		5.0	2.5	mg/Kg		02/06/19 13:30	02/07/19 13:28	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.51**		0.041	0.024	mg/Kg		01/31/19 12:34	02/01/19 11:23	2

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.6**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**87.4**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AE18S-0.5-1

Date Collected: 01/23/19 09:05
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Arsenic	**7.4**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Barium	**81**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Beryllium	**0.45**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Cobalt	**14**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Chromium	**44**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Copper	**17**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Nickel	**32**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Lead	**10**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Vanadium	**45**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:45	5
Zinc	**59**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:45	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.3**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**84.7**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AE18S-3.5-4

Date Collected: 01/23/19 09:05
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Arsenic	**15**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Barium	**190**		1.5	0.74	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Beryllium	**0.56**		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Cobalt	**27**		0.99	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Chromium	**26**		0.99	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Copper	**20**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Nickel	**24**		2.0	0.99	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Lead	**15**		2.0	0.99	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Antimony	ND		9.9	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Thallium	ND		9.9	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Vanadium	**39**		0.99	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:47	5
Zinc	**140**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:47	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.048**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**87.5**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DUP-73

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Arsenic	**6.8**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Barium	**79**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Beryllium	**0.36**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Cobalt	**9.9**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Chromium	**55**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Copper	**14**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Nickel	**30**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Lead	**7.4**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Vanadium	**49**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:50	5
Zinc	**57**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:50	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:47	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.3**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**83.7**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DUP-119

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Arsenic	**6.3**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Barium	**100**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Beryllium	**0.46**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Cobalt	**14**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Chromium	**46**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Copper	**20**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Nickel	**30**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Lead	**9.4**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Vanadium	**46**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:52	5
Zinc	**48**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:52	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**86.5**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AG18S-0.5-1

Date Collected: 01/23/19 09:35
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Arsenic	**7.1**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Barium	**120**		1.5	0.74	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Beryllium	**0.47**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Cobalt	**15**		0.99	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Chromium	**76**		0.99	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Copper	**16**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Nickel	**49**		2.0	0.99	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Lead	**12**		2.0	0.99	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Antimony	ND		9.9	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Thallium	ND		9.9	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Vanadium	**62**		0.99	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:54	5
Zinc	**41**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:54	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.36**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**85.3**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AG18S-3.5-4

Date Collected: 01/23/19 09:35
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Arsenic	**4.7**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Barium	**93**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Beryllium	**0.35**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Cobalt	**11**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Chromium	**62**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Copper	**13**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Nickel	**44**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Lead	**6.4**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Vanadium	**54**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:01	5
Zinc	**33**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 17:01	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.1	%			01/29/19 19:50	1
Percent Solids	**88.4**		0.1	0.1	%			01/29/19 19:50	1

Client Sample ID: DG-AD15S-0.5-1

Date Collected: 01/23/19 09:45
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Arsenic	**12**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Barium	**53**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Beryllium	**0.50**		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Cadmium	**0.30**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Cobalt	**13**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Chromium	**36**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Copper	**50**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Nickel	**31**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Lead	**28**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Vanadium	**45**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:03	5
Zinc	**93**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 17:03	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			02/05/19 17:56	1
Percent Solids	**89.8**		0.1	0.1	%			02/05/19 17:56	1

Client Sample ID: DG-AD15S-3.5-4

Date Collected: 01/23/19 09:45
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Arsenic	**1.7**	**J**	3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Barium	**26**		1.5	0.74	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Cobalt	**3.2**		0.99	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Chromium	**45**		0.99	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Copper	**7.6**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Nickel	**17**		2.0	0.99	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Lead	**3.0**		2.0	0.99	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Antimony	ND		9.9	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Thallium	ND		9.9	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Vanadium	**37**		0.99	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:06	5
Zinc	**16**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 17:06	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.020	0.012	mg/Kg		01/31/19 12:31	02/01/19 00:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**86.5**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-AE14S-0.5-1

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Arsenic	**4.4**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Barium	**110**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Cadmium	**0.81**		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Cobalt	**5.6**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Chromium	**37**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Copper	**25**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Nickel	**42**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Lead	**26**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Vanadium	**66**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:08	5
Zinc	**63**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 17:08	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**		0.020	0.012	mg/Kg		01/31/19 12:31	02/01/19 00:02	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**89.5**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-AE14S-3.5-4

Date Collected: 01/23/19 10:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Arsenic	**35**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Barium	**130**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Cadmium	**0.44**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Cobalt	**9.7**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Chromium	**110**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Copper	**110**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Nickel	**31**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Lead	**92**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Vanadium	**47**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:10	5
Zinc	**180**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 17:10	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.020	0.012	mg/Kg		01/31/19 12:31	02/01/19 00:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.4**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**80.6**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-AD16S-0.5-1

Date Collected: 01/23/19 10:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Arsenic	**210**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Barium	**130**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Beryllium	**0.36**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Cadmium	**0.44**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Cobalt	**8.0**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Chromium	**25**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Copper	**150**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Nickel	**23**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Lead	**39**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Vanadium	**28**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:13	5
Zinc	**210**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 17:13	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.064**		0.020	0.012	mg/Kg		01/31/19 12:31	02/01/19 00:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		0.1	0.1	%			02/01/19 21:20	1
Percent Solids	**85.3**		0.1	0.1	%			02/01/19 21:20	1

Client Sample ID: DG-AD16S-3.5-4

Date Collected: 01/23/19 10:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Arsenic	**19**		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Barium	**49**		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Cadmium	**0.37**	**J**	0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Cobalt	**8.1**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Chromium	**11**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Copper	**92**		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Nickel	**7.6**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Lead	**120**		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Vanadium	**59**		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 17:15	5
Zinc	**180**		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 17:15	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.020	0.012	mg/Kg		01/31/19 12:31	02/01/19 00:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.2**		0.1	0.1	%			02/01/19 21:20	1
Percent Solids	**87.8**		0.1	0.1	%			02/01/19 21:20	1

Client Sample ID: DG-AE16S-0.5-1

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND	F1 F2	1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Arsenic	**5.3**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Barium	**100**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Beryllium	**0.33**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Cadmium	**0.44**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Cobalt	**5.8**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Chromium	**29**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Copper	**38**	**F1 F2**	2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Nickel	**43**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Lead	**120**	**F1 F2**	2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Antimony	ND	F1	10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Vanadium	**23**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:18	5
Zinc	**170**	**F1 F2**	5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:18	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			02/01/19 21:20	1
Percent Solids	**86.9**		0.1	0.1	%			02/01/19 21:20	1

Client Sample ID: DG-AE16S-3.5-4

Date Collected: 01/23/19 10:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Arsenic	**5.8**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Barium	**98**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Beryllium	**0.35**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Cadmium	**0.48**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Cobalt	**5.6**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Chromium	**30**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Copper	**45**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Nickel	**35**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Lead	**140**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Vanadium	**22**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:31	5
Zinc	**200**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:31	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.72**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.8**		0.1	0.1	%			02/01/19 21:20	1
Percent Solids	**82.2**		0.1	0.1	%			02/01/19 21:20	1

Client Sample ID: DG-AA18S-0.5-1

Date Collected: 01/23/19 11:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Arsenic	**6.9**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Barium	**94**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Beryllium	**0.32**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Cadmium	**0.31**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Cobalt	**7.7**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Chromium	**32**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Copper	**47**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Nickel	**31**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Lead	**100**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Vanadium	**37**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:33	5
Zinc	**89**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:33	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.080**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		0.1	0.1	%			02/01/19 21:20	1
Percent Solids	**91.1**		0.1	0.1	%			02/01/19 21:20	1

Client Sample ID: DUP-118

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Arsenic	**6.3**		3.0	1.5	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Barium	**76**	**F1**	1.5	0.74	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Beryllium	**0.35**	**J**	0.50	0.25	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Cadmium	**0.33**	**J**	0.50	0.25	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Cobalt	**7.2**		0.99	0.50	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Chromium	**36**		0.99	0.50	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Copper	**33**	**F1**	2.0	1.1	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Nickel	**30**		2.0	0.99	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Lead	**72**	**F1**	2.0	0.99	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Antimony	ND	F1	9.9	5.0	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Selenium	ND		3.0	1.7	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Thallium	ND		9.9	5.0	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Vanadium	**44**		0.99	0.50	mg/Kg		02/05/19 08:30	02/05/19 17:53	5
Zinc	**74**	**F1**	5.0	2.5	mg/Kg		02/05/19 08:30	02/05/19 17:53	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.064**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.4**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**84.6**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-AA18S-3.5-4

Date Collected: 01/23/19 11:50
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Arsenic	**6.2**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Barium	**100**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Cadmium	**0.59**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Cobalt	**5.2**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Chromium	**210**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Copper	**180**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Nickel	**55**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Lead	**330**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Antimony	**5.5**	**J**	10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Vanadium	**48**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:41	5
Zinc	**170**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:41	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.9**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**81.1**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-Y18S-0.5-1

Date Collected: 01/23/19 12:55
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Arsenic	**3.9**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Barium	**51**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Cobalt	**3.5**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Chromium	**15**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Copper	**17**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Nickel	**11**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Lead	**4.4**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Vanadium	**32**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:44	5
Zinc	**29**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:44	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.1	%			02/01/19 21:20	1
Percent Solids	**89.3**		0.1	0.1	%			02/01/19 21:20	1

Client Sample ID: DG-Y18S-3.5-4

Date Collected: 01/23/19 12:55
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Arsenic	**12**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Barium	**52**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Cadmium	**1.9**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Cobalt	**11**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Chromium	**21**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Copper	**140**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Nickel	**27**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Lead	**310**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Vanadium	**83**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:46	5
Zinc	**290**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:46	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.099**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.0**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**87.0**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-Z18S-0.5-1

Date Collected: 01/23/19 13:05
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Arsenic	**4.6**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Barium	**130**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Beryllium	**0.48**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Cobalt	**11**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Chromium	**46**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Copper	**42**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Nickel	**62**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Lead	**9.3**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Vanadium	**50**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:49	5
Zinc	**49**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:49	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.070**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**90.3**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-Z18S-3.5-4

Date Collected: 01/23/19 13:05
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Arsenic	**11**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Barium	**55**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Beryllium	**0.32**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Cadmium	**0.56**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Cobalt	**8.4**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Chromium	**19**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Copper	**210**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Nickel	**46**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Lead	**570**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Antimony	**6.6**	**J**	10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Vanadium	**68**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:51	5
Zinc	**290**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:51	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.054**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.8**		0.1	0.1	%			02/01/19 21:20	1
Percent Solids	**78.2**		0.1	0.1	%			02/01/19 21:20	1

Client Sample ID: DG-Y17S-0.5-1
Date Collected: 01/23/19 13:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-30
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Arsenic	**3.6**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Barium	**65**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Cadmium	**2.1**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Cobalt	**8.4**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Chromium	**14**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Copper	**180**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Nickel	**34**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Lead	**170**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Vanadium	**80**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:54	5
Zinc	**510**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:54	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.065**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**92.3**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-Y17S-3.5-4

Date Collected: 01/23/19 13:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Arsenic	**11**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Barium	**88**		1.5	0.74	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Beryllium	ND		0.49	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Cadmium	**0.64**		0.49	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Cobalt	**6.2**		0.99	0.49	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Chromium	**24**		0.99	0.49	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Copper	**240**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Molybdenum	**1.2**	**J**	2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Nickel	**55**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Lead	**440**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Antimony	**6.2**	**J**	9.9	4.9	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Thallium	ND		9.9	4.9	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Vanadium	**57**		0.99	0.49	mg/Kg		02/04/19 12:59	02/05/19 16:56	5
Zinc	**100**		4.9	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:56	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.1**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**82.9**		0.1	0.1	%			01/31/19 16:47	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Client Sample ID: DG-X16S-0.5-1

Date Collected: 01/23/19 13:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Arsenic	**4.3**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Barium	**39**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Cadmium	**0.36**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Cobalt	**9.1**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Chromium	**35**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Copper	**140**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Molybdenum	**1.2**	**J**	2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Nickel	**26**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Lead	**110**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Vanadium	**75**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:59	5
Zinc	**76**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:59	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**90.9**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-X16S-3.5-4

Date Collected: 01/23/19 13:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Arsenic	**5.6**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Barium	**64**		1.5	0.74	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Beryllium	**0.42**	**J**	0.49	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Cadmium	ND		0.49	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Cobalt	**9.5**		0.99	0.49	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Chromium	**52**		0.99	0.49	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Copper	**71**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Nickel	**71**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Lead	**100**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Antimony	ND		9.9	4.9	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Thallium	ND		9.9	4.9	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Vanadium	**60**		0.99	0.49	mg/Kg		02/04/19 12:59	02/05/19 17:01	5
Zinc	**49**		4.9	2.5	mg/Kg		02/04/19 12:59	02/05/19 17:01	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.2**		0.098	0.059	mg/Kg		01/31/19 12:34	02/01/19 15:04	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.6**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**86.4**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DG-W14S-0.5-1

Date Collected: 01/23/19 14:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Arsenic	**7.6**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Barium	**95**		1.5	0.74	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Cadmium	**2.7**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Cobalt	**7.3**		0.99	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Chromium	**36**		0.99	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Copper	**170**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Molybdenum	**2.4**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Nickel	**30**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Lead	**420**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Antimony	ND		9.9	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Thallium	ND		9.9	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Vanadium	**34**		0.99	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:13	5
Zinc	**490**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 17:13	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.56**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**92.0**		0.1	0.1	%			01/31/19 16:47	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Client Sample ID: DG-W14S-3.5-4

Date Collected: 01/23/19 14:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Arsenic	**6.2**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Barium	**56**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Beryllium	**0.40**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Cobalt	**11**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Chromium	**31**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Copper	**99**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Nickel	**74**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Lead	**58**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Vanadium	**75**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:16	5
Zinc	**50**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 17:16	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.8**		0.1	0.1	%			01/31/19 16:47	1
Percent Solids	**84.2**		0.1	0.1	%			01/31/19 16:47	1

Client Sample ID: DUP-127

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Arsenic	**8.1**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Barium	**110**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Beryllium	**0.29**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Cadmium	**0.76**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Cobalt	**6.8**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Chromium	**160**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Copper	**170**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Nickel	**53**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Lead	**390**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Antimony	**5.3**	**J**	10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Vanadium	**49**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:25	5
Zinc	**190**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 17:25	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.3**		0.1	0.1	%			01/31/19 19:40	1
Percent Solids	**83.7**		0.1	0.1	%			01/31/19 19:40	1

Client Sample ID: DG-W14S-9.5-10

Date Collected: 01/23/19 14:20
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Arsenic	**14**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Barium	**29**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Beryllium	**0.35**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Cadmium	**0.44**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Cobalt	**11**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Chromium	**40**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Copper	**37**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Molybdenum	**1.1**	**J**	2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Nickel	**51**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Lead	**18**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Vanadium	**41**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:28	5
Zinc	**69**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 17:28	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.079**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.8**		0.1	0.1	%			01/31/19 19:40	1
Percent Solids	**68.2**		0.1	0.1	%			01/31/19 19:40	1

Client Sample ID: DG-V14S-0.5-1

Date Collected: 01/23/19 15:15
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-38

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Arsenic	**3.9**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Barium	**45**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Cadmium	**0.51**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Cobalt	**9.9**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Chromium	**20**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Copper	**120**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Nickel	**35**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Lead	**390**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Vanadium	**77**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:30	5
Zinc	**190**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 17:30	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.1**		0.1	0.1	%			01/31/19 19:40	1
Percent Solids	**93.9**		0.1	0.1	%			01/31/19 19:40	1

Client Sample ID: DG-V14S-3.5-4

Date Collected: 01/23/19 15:15
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-39

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Arsenic	**7.2**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Barium	**49**		1.5	0.74	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Beryllium	**0.56**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Cobalt	**10**		0.99	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Chromium	**38**		0.99	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Copper	**42**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Nickel	**31**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Lead	**6.4**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Antimony	ND		9.9	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Thallium	ND		9.9	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Vanadium	**56**		0.99	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:33	5
Zinc	**47**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 17:33	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.020	0.012	mg/Kg		01/31/19 12:39	02/01/19 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.6**		0.1	0.1	%			01/31/19 19:40	1
Percent Solids	**84.4**		0.1	0.1	%			01/31/19 19:40	1

Client Sample ID: DG-V15S-0.5-1

Date Collected: 01/23/19 15:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-40

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Arsenic	**11**		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Barium	**120**		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Beryllium	**0.28**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Cadmium	**1.1**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Cobalt	**11**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Chromium	**38**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Copper	**270**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Molybdenum	**1.1**	**J**	2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Nickel	**77**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Lead	**1800**		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Antimony	**5.4**	**J**	10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Vanadium	**78**		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:35	5
Zinc	**540**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 17:35	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.037**		0.020	0.012	mg/Kg		01/31/19 12:39	02/01/19 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.8**		0.1	0.1	%			01/31/19 19:40	1
Percent Solids	**90.2**		0.1	0.1	%			01/31/19 19:40	1

Client Sample ID: DG-V15S-3.5-4

Date Collected: 01/23/19 15:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-41

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Arsenic	**1.6**	**J**	3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Barium	**65**		1.5	0.74	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Beryllium	**0.63**		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Cadmium	**0.32**	**J**	0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Cobalt	**24**		0.99	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Chromium	**87**		0.99	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Copper	**31**		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Nickel	**39**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Lead	**2.7**		2.0	0.99	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Antimony	ND		9.9	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Thallium	ND		9.9	5.0	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Vanadium	**170**		0.99	0.50	mg/Kg		02/04/19 12:59	02/05/19 17:38	5
Zinc	**52**		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 17:38	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.020	0.012	mg/Kg		01/31/19 12:39	02/01/19 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.4**		0.1	0.1	%			01/31/19 19:40	1
Percent Solids	**83.6**		0.1	0.1	%			01/31/19 19:40	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-526653/1-A ^5
Matrix: Solid
Analysis Batch: 527276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526653

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Arsenic	ND		3.0	1.5	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Barium	ND		1.5	0.75	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Cobalt	ND		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Chromium	ND		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Copper	ND		2.0	1.1	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Nickel	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Lead	ND		2.0	1.0	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Vanadium	ND		1.0	0.50	mg/Kg		02/04/19 12:51	02/05/19 16:08	5
Zinc	ND		5.0	2.5	mg/Kg		02/04/19 12:51	02/05/19 16:08	5

Lab Sample ID: LCS 440-526653/2-A ^5
Matrix: Solid
Analysis Batch: 527276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526653

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	25.0	24.2		mg/Kg		97	80 - 120
Arsenic	50.0	46.4		mg/Kg		93	80 - 120
Barium	50.0	47.8		mg/Kg		96	80 - 120
Beryllium	50.0	47.3		mg/Kg		95	80 - 120
Cadmium	50.0	48.0		mg/Kg		96	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Chromium	50.0	48.7		mg/Kg		97	80 - 120
Copper	50.0	49.0		mg/Kg		98	80 - 120
Molybdenum	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Lead	50.0	47.8		mg/Kg		96	80 - 120
Antimony	50.0	48.6		mg/Kg		97	80 - 120
Selenium	50.0	43.6		mg/Kg		87	80 - 120
Thallium	50.0	46.8		mg/Kg		94	80 - 120
Vanadium	50.0	47.7		mg/Kg		95	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120

Lab Sample ID: 720-90982-1 MS
Matrix: Solid
Analysis Batch: 527276

Client Sample ID: DG-AE17S-0.5-1
Prep Type: Total/NA
Prep Batch: 526653

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		25.0	21.9		mg/Kg		88	75 - 125
Arsenic	7.6		50.0	48.3		mg/Kg		81	75 - 125
Barium	39	F1	50.0	112	F1	mg/Kg		147	75 - 125
Beryllium	ND		50.0	43.1		mg/Kg		86	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90982-1 MS
Matrix: Solid
Analysis Batch: 527276

Client Sample ID: DG-AE17S-0.5-1
Prep Type: Total/NA
Prep Batch: 526653

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.49	J	50.0	42.5		mg/Kg		84	75 - 125
Cobalt	8.7		50.0	51.2		mg/Kg		85	75 - 125
Chromium	23		50.0	71.8		mg/Kg		97	75 - 125
Copper	36		50.0	73.4		mg/Kg		75	75 - 125
Molybdenum	ND		50.0	42.2		mg/Kg		84	75 - 125
Nickel	26		50.0	64.6		mg/Kg		78	75 - 125
Lead	220	F2	50.0	115	4	mg/Kg		-201	75 - 125
Antimony	ND	F1	50.0	27.1	F1	mg/Kg		54	75 - 125
Selenium	ND		50.0	41.2		mg/Kg		82	75 - 125
Thallium	ND		50.0	41.1		mg/Kg		82	75 - 125
Vanadium	25		50.0	73.0		mg/Kg		96	75 - 125
Zinc	81	F1	50.0	148	F1	mg/Kg		135	75 - 125

Lab Sample ID: 720-90982-1 MSD
Matrix: Solid
Analysis Batch: 527276

Client Sample ID: DG-AE17S-0.5-1
Prep Type: Total/NA
Prep Batch: 526653

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		24.6	21.2		mg/Kg		86	75 - 125	3	20
Arsenic	7.6		49.3	51.8		mg/Kg		90	75 - 125	7	20
Barium	39	F1	49.3	105	F1	mg/Kg		134	75 - 125	7	20
Beryllium	ND		49.3	41.8		mg/Kg		85	75 - 125	3	20
Cadmium	0.49	J	49.3	41.3		mg/Kg		83	75 - 125	3	20
Cobalt	8.7		49.3	50.7		mg/Kg		85	75 - 125	1	20
Chromium	23		49.3	65.7		mg/Kg		86	75 - 125	9	20
Copper	36		49.3	72.9		mg/Kg		75	75 - 125	1	20
Molybdenum	ND		49.3	40.6		mg/Kg		82	75 - 125	4	20
Nickel	26		49.3	66.7		mg/Kg		83	75 - 125	3	20
Lead	220	F2	49.3	92.9	4 F2	mg/Kg		-249	75 - 125	21	20
Antimony	ND	F1	49.3	24.2	F1	mg/Kg		49	75 - 125	11	20
Selenium	ND		49.3	39.5		mg/Kg		80	75 - 125	4	20
Thallium	ND		49.3	39.9		mg/Kg		81	75 - 125	3	20
Vanadium	25		49.3	70.7		mg/Kg		93	75 - 125	3	20
Zinc	81	F1	49.3	139		mg/Kg		119	75 - 125	6	20

Lab Sample ID: MB 440-526654/1-A ^5
Matrix: Solid
Analysis Batch: 526937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Arsenic	ND		3.0	1.5	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Barium	ND		1.5	0.75	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Beryllium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Cadmium	ND		0.50	0.25	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Cobalt	ND		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Chromium	ND		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Copper	ND		2.0	1.1	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:13	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-526654/1-A ^5
Matrix: Solid
Analysis Batch: 526937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Lead	ND		2.0	1.0	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Antimony	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Selenium	ND		3.0	1.7	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Thallium	ND		10	5.0	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Vanadium	ND		1.0	0.50	mg/Kg		02/04/19 12:59	02/05/19 16:13	5
Zinc	ND		5.0	2.5	mg/Kg		02/04/19 12:59	02/05/19 16:13	5

Lab Sample ID: LCS 440-526654/2-A ^5
Matrix: Solid
Analysis Batch: 526937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	25.0	21.3		mg/Kg		85	80 - 120
Arsenic	50.0	42.9		mg/Kg		86	80 - 120
Barium	50.0	42.9		mg/Kg		86	80 - 120
Beryllium	50.0	42.4		mg/Kg		85	80 - 120
Cadmium	50.0	42.5		mg/Kg		85	80 - 120
Cobalt	50.0	43.2		mg/Kg		86	80 - 120
Chromium	50.0	43.6		mg/Kg		87	80 - 120
Copper	50.0	43.7		mg/Kg		87	80 - 120
Molybdenum	50.0	43.3		mg/Kg		87	80 - 120
Nickel	50.0	43.4		mg/Kg		87	80 - 120
Lead	50.0	43.3		mg/Kg		87	80 - 120
Antimony	50.0	44.2		mg/Kg		88	80 - 120
Selenium	50.0	40.3		mg/Kg		81	80 - 120
Thallium	50.0	41.9		mg/Kg		84	80 - 120
Vanadium	50.0	42.8		mg/Kg		86	80 - 120
Zinc	50.0	43.1		mg/Kg		86	80 - 120

Lab Sample ID: 720-90982-21 MS
Matrix: Solid
Analysis Batch: 526937

Client Sample ID: DG-AE16S-0.5-1
Prep Type: Total/NA
Prep Batch: 526654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND	F1 F2	24.9	255	F1	mg/Kg		1025	75 - 125
Arsenic	5.3		49.8	51.0		mg/Kg		92	75 - 125
Barium	100		49.8	152		mg/Kg		101	75 - 125
Beryllium	0.33	J	49.8	45.4		mg/Kg		91	75 - 125
Cadmium	0.44	J	49.8	42.6		mg/Kg		85	75 - 125
Cobalt	5.8		49.8	47.6		mg/Kg		84	75 - 125
Chromium	29		49.8	76.0		mg/Kg		95	75 - 125
Copper	38	F1 F2	49.8	8670	E F1	mg/Kg		17349	75 - 125
Molybdenum	ND		49.8	43.6		mg/Kg		88	75 - 125
Nickel	43		49.8	85.0		mg/Kg		84	75 - 125
Lead	120	F1 F2	49.8	191	F1	mg/Kg		135	75 - 125
Antimony	ND	F1	49.8	26.4	F1	mg/Kg		53	75 - 125
Selenium	ND		49.8	42.7		mg/Kg		86	75 - 125
Thallium	ND		49.8	42.0		mg/Kg		84	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90982-21 MS
Matrix: Solid
Analysis Batch: 526937

Client Sample ID: DG-AE16S-0.5-1
Prep Type: Total/NA
Prep Batch: 526654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	23		49.8	72.2		mg/Kg		100	75 - 125
Zinc	170	F1 F2	49.8	225		mg/Kg		113	75 - 125

Lab Sample ID: 720-90982-21 MSD
Matrix: Solid
Analysis Batch: 526937

Client Sample ID: DG-AE16S-0.5-1
Prep Type: Total/NA
Prep Batch: 526654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND	F1 F2	25.0	23.6	F2	mg/Kg		94	75 - 125	166	20
Arsenic	5.3		50.0	49.9		mg/Kg		89	75 - 125	2	20
Barium	100		50.0	143		mg/Kg		81	75 - 125	7	20
Beryllium	0.33	J	50.0	46.6		mg/Kg		92	75 - 125	2	20
Cadmium	0.44	J	50.0	43.3		mg/Kg		86	75 - 125	2	20
Cobalt	5.8		50.0	48.8		mg/Kg		86	75 - 125	2	20
Chromium	29		50.0	82.2		mg/Kg		107	75 - 125	8	20
Copper	38	F1 F2	50.0	85.8	F2	mg/Kg		96	75 - 125	196	20
Molybdenum	ND		50.0	44.5		mg/Kg		89	75 - 125	2	20
Nickel	43		50.0	83.0		mg/Kg		80	75 - 125	2	20
Lead	120	F1 F2	50.0	137	F1 F2	mg/Kg		27	75 - 125	33	20
Antimony	ND	F1	50.0	28.7	F1	mg/Kg		57	75 - 125	8	20
Selenium	ND		50.0	42.8		mg/Kg		86	75 - 125	0	20
Thallium	ND		50.0	42.4		mg/Kg		85	75 - 125	1	20
Vanadium	23		50.0	78.0		mg/Kg		111	75 - 125	8	20
Zinc	170	F1 F2	50.0	180	F1 F2	mg/Kg		23	75 - 125	22	20

Lab Sample ID: MB 440-526776/1-A ^5
Matrix: Solid
Analysis Batch: 527002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526776

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.88	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Arsenic	ND		3.0	1.5	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Barium	ND		1.5	0.74	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Beryllium	ND		0.49	0.25	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Cadmium	ND		0.49	0.25	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Cobalt	ND		0.99	0.49	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Chromium	ND		0.99	0.49	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Copper	ND		2.0	1.1	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Nickel	ND		2.0	0.99	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Lead	ND		2.0	0.99	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Antimony	ND		9.9	4.9	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Selenium	ND		3.0	1.7	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Thallium	ND		9.9	4.9	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Vanadium	ND		0.99	0.49	mg/Kg		02/05/19 08:30	02/05/19 17:48	5
Zinc	ND		4.9	2.5	mg/Kg		02/05/19 08:30	02/05/19 17:48	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-526776/2-A ^5
Matrix: Solid
Analysis Batch: 527002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	24.9	25.6		mg/Kg		103	80 - 120
Arsenic	49.8	51.0		mg/Kg		102	80 - 120
Barium	49.8	52.1		mg/Kg		105	80 - 120
Beryllium	49.8	50.6		mg/Kg		102	80 - 120
Cadmium	49.8	50.8		mg/Kg		102	80 - 120
Cobalt	49.8	52.0		mg/Kg		104	80 - 120
Chromium	49.8	51.9		mg/Kg		104	80 - 120
Copper	49.8	52.7		mg/Kg		106	80 - 120
Molybdenum	49.8	52.1		mg/Kg		105	80 - 120
Nickel	49.8	52.4		mg/Kg		105	80 - 120
Lead	49.8	51.2		mg/Kg		103	80 - 120
Antimony	49.8	52.7		mg/Kg		106	80 - 120
Selenium	49.8	47.2		mg/Kg		95	80 - 120
Thallium	49.8	50.0		mg/Kg		101	80 - 120
Vanadium	49.8	51.4		mg/Kg		103	80 - 120
Zinc	49.8	51.1		mg/Kg		103	80 - 120

Lab Sample ID: 720-90982-24 MS
Matrix: Solid
Analysis Batch: 527002

Client Sample ID: DUP-118
Prep Type: Total/NA
Prep Batch: 526776

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		25.0	24.2		mg/Kg		97	75 - 125
Arsenic	6.3		50.0	55.5		mg/Kg		98	75 - 125
Barium	76	F1	50.0	149	F1	mg/Kg		148	75 - 125
Beryllium	0.35	J	50.0	48.5		mg/Kg		96	75 - 125
Cadmium	0.33	J	50.0	46.9		mg/Kg		93	75 - 125
Cobalt	7.2		50.0	56.0		mg/Kg		98	75 - 125
Chromium	36		50.0	82.8		mg/Kg		94	75 - 125
Copper	33	F1	50.0	97.4	F1	mg/Kg		130	75 - 125
Molybdenum	ND		50.0	47.8		mg/Kg		96	75 - 125
Nickel	30		50.0	82.0		mg/Kg		105	75 - 125
Lead	72	F1	50.0	140	F1	mg/Kg		135	75 - 125
Antimony	ND	F1	50.0	31.0	F1	mg/Kg		62	75 - 125
Selenium	ND		50.0	45.3		mg/Kg		91	75 - 125
Thallium	ND		50.0	44.1		mg/Kg		88	75 - 125
Vanadium	44		50.0	91.1		mg/Kg		95	75 - 125
Zinc	74	F1	50.0	144	F1	mg/Kg		140	75 - 125

Lab Sample ID: 720-90982-24 MSD
Matrix: Solid
Analysis Batch: 527002

Client Sample ID: DUP-118
Prep Type: Total/NA
Prep Batch: 526776

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		24.9	23.9		mg/Kg		96	75 - 125	1	20
Arsenic	6.3		49.8	54.2		mg/Kg		96	75 - 125	2	20
Barium	76	F1	49.8	138		mg/Kg		125	75 - 125	8	20
Beryllium	0.35	J	49.8	47.9		mg/Kg		96	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90982-24 MSD
Matrix: Solid
Analysis Batch: 527002

Client Sample ID: DUP-118
Prep Type: Total/NA
Prep Batch: 526776

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.33	J	49.8	45.8		mg/Kg		91	75 - 125	2	20
Cobalt	7.2		49.8	53.6		mg/Kg		93	75 - 125	4	20
Chromium	36		49.8	81.9		mg/Kg		92	75 - 125	1	20
Copper	33	F1	49.8	96.1	F1	mg/Kg		128	75 - 125	1	20
Molybdenum	ND		49.8	47.3		mg/Kg		95	75 - 125	1	20
Nickel	30		49.8	78.9		mg/Kg		99	75 - 125	4	20
Lead	72	F1	49.8	134		mg/Kg		125	75 - 125	4	20
Antimony	ND	F1	49.8	29.5	F1	mg/Kg		59	75 - 125	5	20
Selenium	ND		49.8	44.2		mg/Kg		89	75 - 125	2	20
Thallium	ND		49.8	44.7		mg/Kg		90	75 - 125	1	20
Vanadium	44		49.8	98.1		mg/Kg		109	75 - 125	7	20
Zinc	74	F1	49.8	126		mg/Kg		106	75 - 125	13	20

Lab Sample ID: MB 440-527108/1-A ^5
Matrix: Solid
Analysis Batch: 527403

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.89	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Arsenic	ND		3.0	1.5	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Barium	ND		1.5	0.75	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Beryllium	ND		0.50	0.25	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Cadmium	ND		0.50	0.25	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Cobalt	ND		1.0	0.50	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Chromium	ND		1.0	0.50	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Copper	ND		2.0	1.1	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Nickel	ND		2.0	1.0	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Lead	ND		2.0	1.0	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Antimony	ND		10	5.0	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Selenium	ND		3.0	1.7	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Thallium	ND		10	5.0	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Vanadium	ND		1.0	0.50	mg/Kg		02/06/19 13:30	02/07/19 13:11	5
Zinc	ND		5.0	2.5	mg/Kg		02/06/19 13:30	02/07/19 13:11	5

Lab Sample ID: LCS 440-527108/2-A ^5
Matrix: Solid
Analysis Batch: 527403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	24.8	23.2		mg/Kg		94	80 - 120
Arsenic	49.5	45.7		mg/Kg		92	80 - 120
Barium	49.5	46.5		mg/Kg		94	80 - 120
Beryllium	49.5	45.6		mg/Kg		92	80 - 120
Cadmium	49.5	46.0		mg/Kg		93	80 - 120
Cobalt	49.5	46.7		mg/Kg		94	80 - 120
Chromium	49.5	46.8		mg/Kg		94	80 - 120
Copper	49.5	47.0		mg/Kg		95	80 - 120
Molybdenum	49.5	46.7		mg/Kg		94	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-527108/2-A ^5
Matrix: Solid
Analysis Batch: 527403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	49.5	46.7		mg/Kg		94	80 - 120
Lead	49.5	46.9		mg/Kg		95	80 - 120
Antimony	49.5	46.5		mg/Kg		94	80 - 120
Selenium	49.5	43.0		mg/Kg		87	80 - 120
Thallium	49.5	45.8		mg/Kg		93	80 - 120
Vanadium	49.5	46.1		mg/Kg		93	80 - 120
Zinc	49.5	45.6		mg/Kg		92	80 - 120

Lab Sample ID: 720-90982-3 MS
Matrix: Solid
Analysis Batch: 527403

Client Sample ID: DG-AF16S-0.5-1
Prep Type: Total/NA
Prep Batch: 527108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		24.8	22.8		mg/Kg		92	75 - 125
Arsenic	2.8	J	49.5	49.8		mg/Kg		95	75 - 125
Barium	300		49.5	378	4	mg/Kg		162	75 - 125
Beryllium	0.39	J	49.5	45.7		mg/Kg		91	75 - 125
Cadmium	0.25	J	49.5	44.6		mg/Kg		90	75 - 125
Cobalt	8.8		49.5	54.8		mg/Kg		93	75 - 125
Chromium	20		49.5	69.4		mg/Kg		99	75 - 125
Copper	54	F1	49.5	96.6		mg/Kg		86	75 - 125
Molybdenum	3.4		49.5	50.1		mg/Kg		95	75 - 125
Nickel	33		49.5	76.2		mg/Kg		87	75 - 125
Lead	13		49.5	55.2		mg/Kg		85	75 - 125
Antimony	ND	F1	49.5	29.6	F1	mg/Kg		60	75 - 125
Selenium	ND		49.5	42.3		mg/Kg		85	75 - 125
Thallium	ND		49.5	43.0		mg/Kg		87	75 - 125
Vanadium	36		49.5	87.0		mg/Kg		102	75 - 125
Zinc	58	F1	49.5	93.7	F1	mg/Kg		73	75 - 125

Lab Sample ID: 720-90982-3 MSD
Matrix: Solid
Analysis Batch: 527403

Client Sample ID: DG-AF16S-0.5-1
Prep Type: Total/NA
Prep Batch: 527108

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		24.9	21.4		mg/Kg		86	75 - 125	7	20
Arsenic	2.8	J	49.8	45.6		mg/Kg		86	75 - 125	9	20
Barium	300		49.8	346	4	mg/Kg		95	75 - 125	9	20
Beryllium	0.39	J	49.8	42.8		mg/Kg		85	75 - 125	7	20
Cadmium	0.25	J	49.8	41.7		mg/Kg		84	75 - 125	7	20
Cobalt	8.8		49.8	50.1		mg/Kg		83	75 - 125	9	20
Chromium	20		49.8	65.2		mg/Kg		90	75 - 125	6	20
Copper	54	F1	49.8	90.6	F1	mg/Kg		74	75 - 125	6	20
Molybdenum	3.4		49.8	46.5		mg/Kg		87	75 - 125	7	20
Nickel	33		49.8	74.5		mg/Kg		83	75 - 125	2	20
Lead	13		49.8	55.4		mg/Kg		85	75 - 125	0	20
Antimony	ND	F1	49.8	27.8	F1	mg/Kg		56	75 - 125	6	20
Selenium	ND		49.8	39.3		mg/Kg		79	75 - 125	7	20
Thallium	ND		49.8	40.0		mg/Kg		80	75 - 125	7	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90982-3 MSD
Matrix: Solid
Analysis Batch: 527403

Client Sample ID: DG-AF16S-0.5-1
Prep Type: Total/NA
Prep Batch: 527108

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	36		49.8	81.9		mg/Kg		92	75 - 125	6	20
Zinc	58	F1	49.8	90.0	F1	mg/Kg		65	75 - 125	4	20

Lab Sample ID: 720-90982-8 MS
Matrix: Solid
Analysis Batch: 527403

Client Sample ID: DG-AF18S-3.5-4
Prep Type: Total/NA
Prep Batch: 527108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		25.1	23.1		mg/Kg		92	75 - 125
Arsenic	18	F1	50.3	59.3		mg/Kg		82	75 - 125
Barium	520	F2	50.3	525	4	mg/Kg		20	75 - 125
Beryllium	0.54		50.3	46.8		mg/Kg		92	75 - 125
Cadmium	0.33	J	50.3	45.0		mg/Kg		89	75 - 125
Cobalt	14		50.3	63.5		mg/Kg		98	75 - 125
Chromium	38		50.3	89.5		mg/Kg		103	75 - 125
Copper	160	F1	50.3	192	F1	mg/Kg		61	75 - 125
Molybdenum	ND		50.3	45.9		mg/Kg		91	75 - 125
Nickel	43		50.3	95.3		mg/Kg		104	75 - 125
Lead	12		50.3	57.2		mg/Kg		90	75 - 125
Antimony	ND	F1	50.3	29.2	F1	mg/Kg		58	75 - 125
Selenium	ND		50.3	42.2		mg/Kg		84	75 - 125
Thallium	ND		50.3	43.0		mg/Kg		86	75 - 125
Vanadium	40		50.3	94.1		mg/Kg		107	75 - 125
Zinc	65		50.3	113		mg/Kg		96	75 - 125

Lab Sample ID: 720-90982-8 MSD
Matrix: Solid
Analysis Batch: 527403

Client Sample ID: DG-AF18S-3.5-4
Prep Type: Total/NA
Prep Batch: 527108

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		25.0	22.6		mg/Kg		90	75 - 125	2	20
Arsenic	18	F1	50.0	54.7	F1	mg/Kg		74	75 - 125	8	20
Barium	520	F2	50.0	249	4 F2	mg/Kg		-533	75 - 125	71	20
Beryllium	0.54		50.0	45.6		mg/Kg		90	75 - 125	3	20
Cadmium	0.33	J	50.0	44.0		mg/Kg		87	75 - 125	2	20
Cobalt	14		50.0	60.6		mg/Kg		93	75 - 125	5	20
Chromium	38		50.0	82.5		mg/Kg		89	75 - 125	8	20
Copper	160	F1	50.0	158	F1	mg/Kg		-7	75 - 125	19	20
Molybdenum	ND		50.0	44.8		mg/Kg		90	75 - 125	2	20
Nickel	43		50.0	85.6		mg/Kg		85	75 - 125	11	20
Lead	12		50.0	54.2		mg/Kg		85	75 - 125	5	20
Antimony	ND	F1	50.0	28.7	F1	mg/Kg		57	75 - 125	2	20
Selenium	ND		50.0	41.7		mg/Kg		83	75 - 125	1	20
Thallium	ND		50.0	41.8		mg/Kg		84	75 - 125	3	20
Vanadium	40		50.0	88.9		mg/Kg		97	75 - 125	6	20
Zinc	65		50.0	110		mg/Kg		91	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-525956/1-A
Matrix: Solid
Analysis Batch: 526382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		01/31/19 12:31	01/31/19 23:17	1

Lab Sample ID: LCS 440-525956/2-A
Matrix: Solid
Analysis Batch: 526382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.816	0.722		mg/Kg		88	80 - 120

Lab Sample ID: LCSD 440-525956/3-A
Matrix: Solid
Analysis Batch: 526382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525956

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.784	0.689		mg/Kg		88	80 - 120	5	20

Lab Sample ID: 720-90982-3 MS
Matrix: Solid
Analysis Batch: 526382

Client Sample ID: DG-AF16S-0.5-1
Prep Type: Total/NA
Prep Batch: 525956

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.11	F1	0.784	0.664	F1	mg/Kg		71	75 - 125

Lab Sample ID: 720-90982-3 MSD
Matrix: Solid
Analysis Batch: 526382

Client Sample ID: DG-AF16S-0.5-1
Prep Type: Total/NA
Prep Batch: 525956

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.11	F1	0.816	0.777		mg/Kg		82	75 - 125	16	20

Lab Sample ID: MB 440-525957/1-A
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		01/31/19 12:34	02/01/19 11:18	1

Lab Sample ID: LCS 440-525957/2-A
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.784	0.693		mg/Kg		88	80 - 120

Lab Sample ID: LCSD 440-525957/3-A
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.784	0.689		mg/Kg		88	80 - 120	1	20

Lab Sample ID: 720-90982-8 MS
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: DG-AF18S-3.5-4
Prep Type: Total/NA
Prep Batch: 525957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.51		0.784	1.24		mg/Kg		93	75 - 125

Lab Sample ID: 720-90982-8 MSD
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: DG-AF18S-3.5-4
Prep Type: Total/NA
Prep Batch: 525957

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.51		0.816	1.51		mg/Kg		123	75 - 125	20	20

Lab Sample ID: MB 440-525958/1-A
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		01/31/19 12:39	02/01/19 12:11	1

Lab Sample ID: LCS 440-525958/2-A
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.784	0.736		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 440-525958/3-A
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525958

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.816	0.758		mg/Kg		93	80 - 120	3	20

Lab Sample ID: 720-90982-39 MS
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: DG-V14S-3.5-4
Prep Type: Total/NA
Prep Batch: 525958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.027		0.800	0.742		mg/Kg		89	75 - 125

Lab Sample ID: 720-90982-39 MSD
Matrix: Solid
Analysis Batch: 526387

Client Sample ID: DG-V14S-3.5-4
Prep Type: Total/NA
Prep Batch: 525958

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.027		0.800	0.730		mg/Kg		88	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90981-F-20 DU
Matrix: Solid
Analysis Batch: 525686

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	18.2			18.1		%				0.3	20
Percent Solids	81.8			81.9		%				0.06	20

Lab Sample ID: 720-90982-16 DU
Matrix: Solid
Analysis Batch: 526187

Client Sample ID: DG-AD15S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.5			13.3		%				1	20
Percent Solids	86.5			86.7		%				0.2	20

Lab Sample ID: 720-90982-39 DU
Matrix: Solid
Analysis Batch: 526217

Client Sample ID: DG-V14S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	15.6			15.7		%				0.4	20
Percent Solids	84.4			84.3		%				0.07	20

Lab Sample ID: 720-90982-19 DU
Matrix: Solid
Analysis Batch: 526433

Client Sample ID: DG-AD16S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.7			15.5		%				5	20
Percent Solids	85.3			84.5		%				1	20

Lab Sample ID: 440-231762-B-23 DU
Matrix: Solid
Analysis Batch: 526930

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16.7			15.4		%				8	20
Percent Solids	83.3			84.6		%				2	20

Metals

Prep Batch: 525956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-1	DG-AE17S-0.5-1	Total/NA	Solid	7471A	
720-90982-2	DG-AE17S-3.5-4	Total/NA	Solid	7471A	
720-90982-3	DG-AF16S-0.5-1	Total/NA	Solid	7471A	
720-90982-4	DG-AF16S-3.5-4	Total/NA	Solid	7471A	
720-90982-5	DG-AC17S-0.5-1	Total/NA	Solid	7471A	
720-90982-6	DG-AC17S-3.5-4	Total/NA	Solid	7471A	
720-90982-7	DG-AF18S-0.5-1	Total/NA	Solid	7471A	
720-90982-9	DG-AE18S-0.5-1	Total/NA	Solid	7471A	
720-90982-10	DG-AE18S-3.5-4	Total/NA	Solid	7471A	
720-90982-11	DUP-73	Total/NA	Solid	7471A	
720-90982-12	DUP-119	Total/NA	Solid	7471A	
720-90982-13	DG-AG18S-0.5-1	Total/NA	Solid	7471A	
720-90982-14	DG-AG18S-3.5-4	Total/NA	Solid	7471A	
720-90982-15	DG-AD15S-0.5-1	Total/NA	Solid	7471A	
720-90982-16	DG-AD15S-3.5-4	Total/NA	Solid	7471A	
720-90982-17	DG-AE14S-0.5-1	Total/NA	Solid	7471A	
720-90982-18	DG-AE14S-3.5-4	Total/NA	Solid	7471A	
720-90982-19	DG-AD16S-0.5-1	Total/NA	Solid	7471A	
720-90982-20	DG-AD16S-3.5-4	Total/NA	Solid	7471A	
MB 440-525956/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-525956/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 440-525956/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
720-90982-3 MS	DG-AF16S-0.5-1	Total/NA	Solid	7471A	
720-90982-3 MSD	DG-AF16S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 525957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-8	DG-AF18S-3.5-4	Total/NA	Solid	7471A	
720-90982-21	DG-AE16S-0.5-1	Total/NA	Solid	7471A	
720-90982-22	DG-AE16S-3.5-4	Total/NA	Solid	7471A	
720-90982-23	DG-AA18S-0.5-1	Total/NA	Solid	7471A	
720-90982-24	DUP-118	Total/NA	Solid	7471A	
720-90982-25	DG-AA18S-3.5-4	Total/NA	Solid	7471A	
720-90982-26	DG-Y18S-0.5-1	Total/NA	Solid	7471A	
720-90982-27	DG-Y18S-3.5-4	Total/NA	Solid	7471A	
720-90982-28	DG-Z18S-0.5-1	Total/NA	Solid	7471A	
720-90982-29	DG-Z18S-3.5-4	Total/NA	Solid	7471A	
720-90982-30	DG-Y17S-0.5-1	Total/NA	Solid	7471A	
720-90982-31	DG-Y17S-3.5-4	Total/NA	Solid	7471A	
720-90982-32	DG-X16S-0.5-1	Total/NA	Solid	7471A	
720-90982-33	DG-X16S-3.5-4	Total/NA	Solid	7471A	
720-90982-34	DG-W14S-0.5-1	Total/NA	Solid	7471A	
720-90982-35	DG-W14S-3.5-4	Total/NA	Solid	7471A	
720-90982-36	DUP-127	Total/NA	Solid	7471A	
720-90982-37	DG-W14S-9.5-10	Total/NA	Solid	7471A	
720-90982-38	DG-V14S-0.5-1	Total/NA	Solid	7471A	
MB 440-525957/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-525957/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 440-525957/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
720-90982-8 MS	DG-AF18S-3.5-4	Total/NA	Solid	7471A	
720-90982-8 MSD	DG-AF18S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 525958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-39	DG-V14S-3.5-4	Total/NA	Solid	7471A	
720-90982-40	DG-V15S-0.5-1	Total/NA	Solid	7471A	
720-90982-41	DG-V15S-3.5-4	Total/NA	Solid	7471A	
MB 440-525958/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-525958/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 440-525958/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
720-90982-39 MS	DG-V14S-3.5-4	Total/NA	Solid	7471A	
720-90982-39 MSD	DG-V14S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 526382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-1	DG-AE17S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-2	DG-AE17S-3.5-4	Total/NA	Solid	7471A	525956
720-90982-3	DG-AF16S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-4	DG-AF16S-3.5-4	Total/NA	Solid	7471A	525956
720-90982-5	DG-AC17S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-6	DG-AC17S-3.5-4	Total/NA	Solid	7471A	525956
720-90982-7	DG-AF18S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-9	DG-AE18S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-10	DG-AE18S-3.5-4	Total/NA	Solid	7471A	525956
720-90982-11	DUP-73	Total/NA	Solid	7471A	525956
720-90982-12	DUP-119	Total/NA	Solid	7471A	525956
720-90982-13	DG-AG18S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-14	DG-AG18S-3.5-4	Total/NA	Solid	7471A	525956
720-90982-15	DG-AD15S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-16	DG-AD15S-3.5-4	Total/NA	Solid	7471A	525956
720-90982-17	DG-AE14S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-18	DG-AE14S-3.5-4	Total/NA	Solid	7471A	525956
720-90982-19	DG-AD16S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-20	DG-AD16S-3.5-4	Total/NA	Solid	7471A	525956
MB 440-525956/1-A	Method Blank	Total/NA	Solid	7471A	525956
LCS 440-525956/2-A	Lab Control Sample	Total/NA	Solid	7471A	525956
LCSD 440-525956/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	525956
720-90982-3 MS	DG-AF16S-0.5-1	Total/NA	Solid	7471A	525956
720-90982-3 MSD	DG-AF16S-0.5-1	Total/NA	Solid	7471A	525956

Analysis Batch: 526387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-8	DG-AF18S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-21	DG-AE16S-0.5-1	Total/NA	Solid	7471A	525957
720-90982-22	DG-AE16S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-23	DG-AA18S-0.5-1	Total/NA	Solid	7471A	525957
720-90982-24	DUP-118	Total/NA	Solid	7471A	525957
720-90982-25	DG-AA18S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-26	DG-Y18S-0.5-1	Total/NA	Solid	7471A	525957
720-90982-27	DG-Y18S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-28	DG-Z18S-0.5-1	Total/NA	Solid	7471A	525957
720-90982-29	DG-Z18S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-30	DG-Y17S-0.5-1	Total/NA	Solid	7471A	525957
720-90982-31	DG-Y17S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-32	DG-X16S-0.5-1	Total/NA	Solid	7471A	525957
720-90982-33	DG-X16S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-34	DG-W14S-0.5-1	Total/NA	Solid	7471A	525957

Metals (Continued)

Analysis Batch: 526387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-35	DG-W14S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-36	DUP-127	Total/NA	Solid	7471A	525957
720-90982-37	DG-W14S-9.5-10	Total/NA	Solid	7471A	525957
720-90982-38	DG-V14S-0.5-1	Total/NA	Solid	7471A	525957
720-90982-39	DG-V14S-3.5-4	Total/NA	Solid	7471A	525958
720-90982-40	DG-V15S-0.5-1	Total/NA	Solid	7471A	525958
720-90982-41	DG-V15S-3.5-4	Total/NA	Solid	7471A	525958
MB 440-525957/1-A	Method Blank	Total/NA	Solid	7471A	525957
MB 440-525958/1-A	Method Blank	Total/NA	Solid	7471A	525958
LCS 440-525957/2-A	Lab Control Sample	Total/NA	Solid	7471A	525957
LCS 440-525958/2-A	Lab Control Sample	Total/NA	Solid	7471A	525958
LCSD 440-525957/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	525957
LCSD 440-525958/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	525958
720-90982-8 MS	DG-AF18S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-8 MSD	DG-AF18S-3.5-4	Total/NA	Solid	7471A	525957
720-90982-39 MS	DG-V14S-3.5-4	Total/NA	Solid	7471A	525958
720-90982-39 MSD	DG-V14S-3.5-4	Total/NA	Solid	7471A	525958

Prep Batch: 526653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-1	DG-AE17S-0.5-1	Total/NA	Solid	3050B	
720-90982-2	DG-AE17S-3.5-4	Total/NA	Solid	3050B	
720-90982-4	DG-AF16S-3.5-4	Total/NA	Solid	3050B	
720-90982-5	DG-AC17S-0.5-1	Total/NA	Solid	3050B	
720-90982-6	DG-AC17S-3.5-4	Total/NA	Solid	3050B	
720-90982-7	DG-AF18S-0.5-1	Total/NA	Solid	3050B	
720-90982-9	DG-AE18S-0.5-1	Total/NA	Solid	3050B	
720-90982-10	DG-AE18S-3.5-4	Total/NA	Solid	3050B	
720-90982-11	DUP-73	Total/NA	Solid	3050B	
720-90982-12	DUP-119	Total/NA	Solid	3050B	
720-90982-13	DG-AG18S-0.5-1	Total/NA	Solid	3050B	
720-90982-14	DG-AG18S-3.5-4	Total/NA	Solid	3050B	
720-90982-15	DG-AD15S-0.5-1	Total/NA	Solid	3050B	
720-90982-16	DG-AD15S-3.5-4	Total/NA	Solid	3050B	
720-90982-17	DG-AE14S-0.5-1	Total/NA	Solid	3050B	
720-90982-18	DG-AE14S-3.5-4	Total/NA	Solid	3050B	
720-90982-19	DG-AD16S-0.5-1	Total/NA	Solid	3050B	
720-90982-20	DG-AD16S-3.5-4	Total/NA	Solid	3050B	
MB 440-526653/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-526653/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
720-90982-1 MS	DG-AE17S-0.5-1	Total/NA	Solid	3050B	
720-90982-1 MSD	DG-AE17S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 526654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-21	DG-AE16S-0.5-1	Total/NA	Solid	3050B	
720-90982-22	DG-AE16S-3.5-4	Total/NA	Solid	3050B	
720-90982-23	DG-AA18S-0.5-1	Total/NA	Solid	3050B	
720-90982-25	DG-AA18S-3.5-4	Total/NA	Solid	3050B	
720-90982-26	DG-Y18S-0.5-1	Total/NA	Solid	3050B	
720-90982-27	DG-Y18S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 526654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-28	DG-Z18S-0.5-1	Total/NA	Solid	3050B	
720-90982-29	DG-Z18S-3.5-4	Total/NA	Solid	3050B	
720-90982-30	DG-Y17S-0.5-1	Total/NA	Solid	3050B	
720-90982-31	DG-Y17S-3.5-4	Total/NA	Solid	3050B	
720-90982-32	DG-X16S-0.5-1	Total/NA	Solid	3050B	
720-90982-33	DG-X16S-3.5-4	Total/NA	Solid	3050B	
720-90982-34	DG-W14S-0.5-1	Total/NA	Solid	3050B	
720-90982-35	DG-W14S-3.5-4	Total/NA	Solid	3050B	
720-90982-36	DUP-127	Total/NA	Solid	3050B	
720-90982-37	DG-W14S-9.5-10	Total/NA	Solid	3050B	
720-90982-38	DG-V14S-0.5-1	Total/NA	Solid	3050B	
720-90982-39	DG-V14S-3.5-4	Total/NA	Solid	3050B	
720-90982-40	DG-V15S-0.5-1	Total/NA	Solid	3050B	
720-90982-41	DG-V15S-3.5-4	Total/NA	Solid	3050B	
MB 440-526654/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-526654/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
720-90982-21 MS	DG-AE16S-0.5-1	Total/NA	Solid	3050B	
720-90982-21 MSD	DG-AE16S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 526776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-24	DUP-118	Total/NA	Solid	3050B	
MB 440-526776/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-526776/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
720-90982-24 MS	DUP-118	Total/NA	Solid	3050B	
720-90982-24 MSD	DUP-118	Total/NA	Solid	3050B	

Analysis Batch: 526937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-21	DG-AE16S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-22	DG-AE16S-3.5-4	Total/NA	Solid	6010B	526654
720-90982-23	DG-AA18S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-25	DG-AA18S-3.5-4	Total/NA	Solid	6010B	526654
720-90982-26	DG-Y18S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-27	DG-Y18S-3.5-4	Total/NA	Solid	6010B	526654
720-90982-28	DG-Z18S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-29	DG-Z18S-3.5-4	Total/NA	Solid	6010B	526654
720-90982-30	DG-Y17S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-31	DG-Y17S-3.5-4	Total/NA	Solid	6010B	526654
720-90982-32	DG-X16S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-33	DG-X16S-3.5-4	Total/NA	Solid	6010B	526654
720-90982-34	DG-W14S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-35	DG-W14S-3.5-4	Total/NA	Solid	6010B	526654
720-90982-36	DUP-127	Total/NA	Solid	6010B	526654
720-90982-37	DG-W14S-9.5-10	Total/NA	Solid	6010B	526654
720-90982-38	DG-V14S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-39	DG-V14S-3.5-4	Total/NA	Solid	6010B	526654
720-90982-40	DG-V15S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-41	DG-V15S-3.5-4	Total/NA	Solid	6010B	526654
MB 440-526654/1-A ^5	Method Blank	Total/NA	Solid	6010B	526654
LCS 440-526654/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	526654

Metals (Continued)

Analysis Batch: 526937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-21 MS	DG-AE16S-0.5-1	Total/NA	Solid	6010B	526654
720-90982-21 MSD	DG-AE16S-0.5-1	Total/NA	Solid	6010B	526654

Analysis Batch: 527002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-24	DUP-118	Total/NA	Solid	6010B	526776
MB 440-526776/1-A ^5	Method Blank	Total/NA	Solid	6010B	526776
LCS 440-526776/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	526776
720-90982-24 MS	DUP-118	Total/NA	Solid	6010B	526776
720-90982-24 MSD	DUP-118	Total/NA	Solid	6010B	526776

Prep Batch: 527108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-3	DG-AF16S-0.5-1	Total/NA	Solid	3050B	
720-90982-8	DG-AF18S-3.5-4	Total/NA	Solid	3050B	
MB 440-527108/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-527108/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
720-90982-3 MS	DG-AF16S-0.5-1	Total/NA	Solid	3050B	
720-90982-3 MSD	DG-AF16S-0.5-1	Total/NA	Solid	3050B	
720-90982-8 MS	DG-AF18S-3.5-4	Total/NA	Solid	3050B	
720-90982-8 MSD	DG-AF18S-3.5-4	Total/NA	Solid	3050B	

Analysis Batch: 527276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-1	DG-AE17S-0.5-1	Total/NA	Solid	6010B	526653
720-90982-2	DG-AE17S-3.5-4	Total/NA	Solid	6010B	526653
720-90982-4	DG-AF16S-3.5-4	Total/NA	Solid	6010B	526653
720-90982-5	DG-AC17S-0.5-1	Total/NA	Solid	6010B	526653
720-90982-6	DG-AC17S-3.5-4	Total/NA	Solid	6010B	526653
720-90982-7	DG-AF18S-0.5-1	Total/NA	Solid	6010B	526653
720-90982-9	DG-AE18S-0.5-1	Total/NA	Solid	6010B	526653
720-90982-10	DG-AE18S-3.5-4	Total/NA	Solid	6010B	526653
720-90982-11	DUP-73	Total/NA	Solid	6010B	526653
720-90982-12	DUP-119	Total/NA	Solid	6010B	526653
720-90982-13	DG-AG18S-0.5-1	Total/NA	Solid	6010B	526653
720-90982-14	DG-AG18S-3.5-4	Total/NA	Solid	6010B	526653
720-90982-15	DG-AD15S-0.5-1	Total/NA	Solid	6010B	526653
720-90982-16	DG-AD15S-3.5-4	Total/NA	Solid	6010B	526653
720-90982-17	DG-AE14S-0.5-1	Total/NA	Solid	6010B	526653
720-90982-18	DG-AE14S-3.5-4	Total/NA	Solid	6010B	526653
720-90982-19	DG-AD16S-0.5-1	Total/NA	Solid	6010B	526653
720-90982-20	DG-AD16S-3.5-4	Total/NA	Solid	6010B	526653
MB 440-526653/1-A ^5	Method Blank	Total/NA	Solid	6010B	526653
LCS 440-526653/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	526653
720-90982-1 MS	DG-AE17S-0.5-1	Total/NA	Solid	6010B	526653
720-90982-1 MSD	DG-AE17S-0.5-1	Total/NA	Solid	6010B	526653

Analysis Batch: 527403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-3	DG-AF16S-0.5-1	Total/NA	Solid	6010B	527108
720-90982-8	DG-AF18S-3.5-4	Total/NA	Solid	6010B	527108

Metals (Continued)

Analysis Batch: 527403 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-527108/1-A ^5	Method Blank	Total/NA	Solid	6010B	527108
LCS 440-527108/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	527108
720-90982-3 MS	DG-AF16S-0.5-1	Total/NA	Solid	6010B	527108
720-90982-3 MSD	DG-AF16S-0.5-1	Total/NA	Solid	6010B	527108
720-90982-8 MS	DG-AF18S-3.5-4	Total/NA	Solid	6010B	527108
720-90982-8 MSD	DG-AF18S-3.5-4	Total/NA	Solid	6010B	527108

General Chemistry

Analysis Batch: 525686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-1	DG-AE17S-0.5-1	Total/NA	Solid	Moisture	
720-90982-2	DG-AE17S-3.5-4	Total/NA	Solid	Moisture	
720-90982-3	DG-AF16S-0.5-1	Total/NA	Solid	Moisture	
720-90982-4	DG-AF16S-3.5-4	Total/NA	Solid	Moisture	
720-90982-5	DG-AC17S-0.5-1	Total/NA	Solid	Moisture	
720-90982-6	DG-AC17S-3.5-4	Total/NA	Solid	Moisture	
720-90982-7	DG-AF18S-0.5-1	Total/NA	Solid	Moisture	
720-90982-8	DG-AF18S-3.5-4	Total/NA	Solid	Moisture	
720-90982-9	DG-AE18S-0.5-1	Total/NA	Solid	Moisture	
720-90982-10	DG-AE18S-3.5-4	Total/NA	Solid	Moisture	
720-90982-11	DUP-73	Total/NA	Solid	Moisture	
720-90982-12	DUP-119	Total/NA	Solid	Moisture	
720-90982-13	DG-AG18S-0.5-1	Total/NA	Solid	Moisture	
720-90982-14	DG-AG18S-3.5-4	Total/NA	Solid	Moisture	
720-90981-F-20 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 526187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-16	DG-AD15S-3.5-4	Total/NA	Solid	Moisture	
720-90982-17	DG-AE14S-0.5-1	Total/NA	Solid	Moisture	
720-90982-18	DG-AE14S-3.5-4	Total/NA	Solid	Moisture	
720-90982-24	DUP-118	Total/NA	Solid	Moisture	
720-90982-25	DG-AA18S-3.5-4	Total/NA	Solid	Moisture	
720-90982-27	DG-Y18S-3.5-4	Total/NA	Solid	Moisture	
720-90982-28	DG-Z18S-0.5-1	Total/NA	Solid	Moisture	
720-90982-30	DG-Y17S-0.5-1	Total/NA	Solid	Moisture	
720-90982-31	DG-Y17S-3.5-4	Total/NA	Solid	Moisture	
720-90982-32	DG-X16S-0.5-1	Total/NA	Solid	Moisture	
720-90982-33	DG-X16S-3.5-4	Total/NA	Solid	Moisture	
720-90982-34	DG-W14S-0.5-1	Total/NA	Solid	Moisture	
720-90982-35	DG-W14S-3.5-4	Total/NA	Solid	Moisture	
720-90982-16 DU	DG-AD15S-3.5-4	Total/NA	Solid	Moisture	

Analysis Batch: 526217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-36	DUP-127	Total/NA	Solid	Moisture	
720-90982-37	DG-W14S-9.5-10	Total/NA	Solid	Moisture	
720-90982-38	DG-V14S-0.5-1	Total/NA	Solid	Moisture	
720-90982-39	DG-V14S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 526217 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-40	DG-V15S-0.5-1	Total/NA	Solid	Moisture	
720-90982-41	DG-V15S-3.5-4	Total/NA	Solid	Moisture	
720-90982-39 DU	DG-V14S-3.5-4	Total/NA	Solid	Moisture	

Analysis Batch: 526433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-19	DG-AD16S-0.5-1	Total/NA	Solid	Moisture	
720-90982-20	DG-AD16S-3.5-4	Total/NA	Solid	Moisture	
720-90982-21	DG-AE16S-0.5-1	Total/NA	Solid	Moisture	
720-90982-22	DG-AE16S-3.5-4	Total/NA	Solid	Moisture	
720-90982-23	DG-AA18S-0.5-1	Total/NA	Solid	Moisture	
720-90982-26	DG-Y18S-0.5-1	Total/NA	Solid	Moisture	
720-90982-29	DG-Z18S-3.5-4	Total/NA	Solid	Moisture	
720-90982-19 DU	DG-AD16S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 526930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90982-15	DG-AD15S-0.5-1	Total/NA	Solid	Moisture	
440-231762-B-23 DU	Duplicate	Total/NA	Solid	Moisture	

Client Sample ID: DG-AE17S-0.5-1

Lab Sample ID: 720-90982-1

Date Collected: 01/23/19 08:15

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:13	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:27	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AE17S-3.5-4

Lab Sample ID: 720-90982-2

Date Collected: 01/23/19 08:15

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:27	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:31	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AF16S-0.5-1

Lab Sample ID: 720-90982-3

Date Collected: 01/23/19 08:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			527108	02/06/19 13:30	TQN	TAL IRV
Total/NA	Analysis	6010B		5	527403	02/07/19 13:16	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:22	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AF16S-3.5-4

Lab Sample ID: 720-90982-4

Date Collected: 01/23/19 08:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:36	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:33	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AC17S-0.5-1

Lab Sample ID: 720-90982-5

Date Collected: 01/23/19 08:40

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:38	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:38	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AC17S-3.5-4

Lab Sample ID: 720-90982-6

Date Collected: 01/23/19 08:40

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 17:17	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:40	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AF18S-0.5-1

Lab Sample ID: 720-90982-7

Date Collected: 01/23/19 09:15

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:40	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:42	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AF18S-3.5-4

Lab Sample ID: 720-90982-8

Date Collected: 01/23/19 09:15

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			527108	02/06/19 13:30	TQN	TAL IRV
Total/NA	Analysis	6010B		5	527403	02/07/19 13:28	VS	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		2	526387	02/01/19 11:23	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Client Sample ID: DG-AE18S-0.5-1

Date Collected: 01/23/19 09:05
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:45	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:44	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AE18S-3.5-4

Date Collected: 01/23/19 09:05
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:47	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:46	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DUP-73

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:50	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:47	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DUP-119

Date Collected: 01/23/19 00:00
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:52	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:49	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Client Sample ID: DG-AG18S-0.5-1

Lab Sample ID: 720-90982-13

Date Collected: 01/23/19 09:35
Matrix: Solid
Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 16:54	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:51	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AG18S-3.5-4

Lab Sample ID: 720-90982-14

Date Collected: 01/23/19 09:35
Matrix: Solid
Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 17:01	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:53	DB	TAL IRV
Total/NA	Analysis	Moisture		1	525686	01/29/19 19:50	HTL	TAL IRV

Client Sample ID: DG-AD15S-0.5-1

Lab Sample ID: 720-90982-15

Date Collected: 01/23/19 09:45
Matrix: Solid
Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 17:03	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	01/31/19 23:54	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Client Sample ID: DG-AD15S-3.5-4

Lab Sample ID: 720-90982-16

Date Collected: 01/23/19 09:45
Matrix: Solid
Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 17:06	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	02/01/19 00:00	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-AE14S-0.5-1

Lab Sample ID: 720-90982-17

Date Collected: 01/23/19 10:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 17:08	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	02/01/19 00:02	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-AE14S-3.5-4

Lab Sample ID: 720-90982-18

Date Collected: 01/23/19 10:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 17:10	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	02/01/19 00:03	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-AD16S-0.5-1

Lab Sample ID: 720-90982-19

Date Collected: 01/23/19 10:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 17:13	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	02/01/19 00:05	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Client Sample ID: DG-AD16S-3.5-4

Lab Sample ID: 720-90982-20

Date Collected: 01/23/19 10:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526653	02/04/19 12:51	DT	TAL IRV
Total/NA	Analysis	6010B		5	527276	02/05/19 17:15	VS	TAL IRV
Total/NA	Prep	7471A			525956	01/31/19 12:31	DB	TAL IRV
Total/NA	Analysis	7471A		1	526382	02/01/19 00:07	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Client Sample ID: DG-AE16S-0.5-1

Lab Sample ID: 720-90982-21

Date Collected: 01/23/19 10:50
Matrix: Solid
Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:18	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:31	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Client Sample ID: DG-AE16S-3.5-4

Lab Sample ID: 720-90982-22

Date Collected: 01/23/19 10:50
Matrix: Solid
Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:31	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:32	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Client Sample ID: DG-AA18S-0.5-1

Lab Sample ID: 720-90982-23

Date Collected: 01/23/19 11:50
Matrix: Solid
Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:33	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:34	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Client Sample ID: DUP-118

Lab Sample ID: 720-90982-24

Date Collected: 01/23/19 00:00
Matrix: Solid
Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526776	02/05/19 08:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	527002	02/05/19 17:53	TQN	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:40	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-AA18S-3.5-4

Lab Sample ID: 720-90982-25

Date Collected: 01/23/19 11:50

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:41	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:42	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-Y18S-0.5-1

Lab Sample ID: 720-90982-26

Date Collected: 01/23/19 12:55

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:44	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:43	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Client Sample ID: DG-Y18S-3.5-4

Lab Sample ID: 720-90982-27

Date Collected: 01/23/19 12:55

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:46	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:45	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-Z18S-0.5-1

Lab Sample ID: 720-90982-28

Date Collected: 01/23/19 13:05

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:49	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:47	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-Z18S-3.5-4

Lab Sample ID: 720-90982-29

Date Collected: 01/23/19 13:05

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:51	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:49	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Client Sample ID: DG-Y17S-0.5-1

Lab Sample ID: 720-90982-30

Date Collected: 01/23/19 13:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:54	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:50	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-Y17S-3.5-4

Lab Sample ID: 720-90982-31

Date Collected: 01/23/19 13:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:56	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:52	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-X16S-0.5-1

Lab Sample ID: 720-90982-32

Date Collected: 01/23/19 13:40

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 16:59	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 11:54	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-X16S-3.5-4

Lab Sample ID: 720-90982-33

Date Collected: 01/23/19 13:40

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 17:01	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		5	526387	02/01/19 15:04	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-W14S-0.5-1

Lab Sample ID: 720-90982-34

Date Collected: 01/23/19 14:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 17:13	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 12:02	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DG-W14S-3.5-4

Lab Sample ID: 720-90982-35

Date Collected: 01/23/19 14:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 17:16	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 12:03	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526187	01/31/19 16:47	QTN	TAL IRV

Client Sample ID: DUP-127

Lab Sample ID: 720-90982-36

Date Collected: 01/23/19 00:00

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 17:25	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 12:05	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Client Sample ID: DG-W14S-9.5-10

Lab Sample ID: 720-90982-37

Date Collected: 01/23/19 14:20

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 17:28	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 12:07	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Client Sample ID: DG-V14S-0.5-1

Lab Sample ID: 720-90982-38

Date Collected: 01/23/19 15:15

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 17:30	P1R	TAL IRV
Total/NA	Prep	7471A			525957	01/31/19 12:34	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 12:09	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Client Sample ID: DG-V14S-3.5-4

Lab Sample ID: 720-90982-39

Date Collected: 01/23/19 15:15

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 17:33	P1R	TAL IRV
Total/NA	Prep	7471A			525958	01/31/19 12:39	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 12:16	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Client Sample ID: DG-V15S-0.5-1

Lab Sample ID: 720-90982-40

Date Collected: 01/23/19 15:40

Matrix: Solid

Date Received: 01/23/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 17:35	P1R	TAL IRV
Total/NA	Prep	7471A			525958	01/31/19 12:39	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 12:27	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Client Sample ID: DG-V15S-3.5-4
Date Collected: 01/23/19 15:40
Date Received: 01/23/19 18:45

Lab Sample ID: 720-90982-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			526654	02/04/19 12:59	DT	TAL IRV
Total/NA	Analysis	6010B		5	526937	02/05/19 17:38	P1R	TAL IRV
Total/NA	Prep	7471A			525958	01/31/19 12:39	DB	TAL IRV
Total/NA	Analysis	7471A		1	526387	02/01/19 12:29	DB	TAL IRV
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-90982-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
Moisture	Percent Moisture	EPA	TAL IRV
3050B	Preparation, Metals	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-90982-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90982-1	DG-AE17S-0.5-1	Solid	01/23/19 08:15	01/23/19 18:45
720-90982-2	DG-AE17S-3.5-4	Solid	01/23/19 08:15	01/23/19 18:45
720-90982-3	DG-AF16S-0.5-1	Solid	01/23/19 08:20	01/23/19 18:45
720-90982-4	DG-AF16S-3.5-4	Solid	01/23/19 08:20	01/23/19 18:45
720-90982-5	DG-AC17S-0.5-1	Solid	01/23/19 08:40	01/23/19 18:45
720-90982-6	DG-AC17S-3.5-4	Solid	01/23/19 08:40	01/23/19 18:45
720-90982-7	DG-AF18S-0.5-1	Solid	01/23/19 09:15	01/23/19 18:45
720-90982-8	DG-AF18S-3.5-4	Solid	01/23/19 09:15	01/23/19 18:45
720-90982-9	DG-AE18S-0.5-1	Solid	01/23/19 09:05	01/23/19 18:45
720-90982-10	DG-AE18S-3.5-4	Solid	01/23/19 09:05	01/23/19 18:45
720-90982-11	DUP-73	Solid	01/23/19 00:00	01/23/19 18:45
720-90982-12	DUP-119	Solid	01/23/19 00:00	01/23/19 18:45
720-90982-13	DG-AG18S-0.5-1	Solid	01/23/19 09:35	01/23/19 18:45
720-90982-14	DG-AG18S-3.5-4	Solid	01/23/19 09:35	01/23/19 18:45
720-90982-15	DG-AD15S-0.5-1	Solid	01/23/19 09:45	01/23/19 18:45
720-90982-16	DG-AD15S-3.5-4	Solid	01/23/19 09:45	01/23/19 18:45
720-90982-17	DG-AE14S-0.5-1	Solid	01/23/19 10:00	01/23/19 18:45
720-90982-18	DG-AE14S-3.5-4	Solid	01/23/19 10:00	01/23/19 18:45
720-90982-19	DG-AD16S-0.5-1	Solid	01/23/19 10:20	01/23/19 18:45
720-90982-20	DG-AD16S-3.5-4	Solid	01/23/19 10:20	01/23/19 18:45
720-90982-21	DG-AE16S-0.5-1	Solid	01/23/19 10:50	01/23/19 18:45
720-90982-22	DG-AE16S-3.5-4	Solid	01/23/19 10:50	01/23/19 18:45
720-90982-23	DG-AA18S-0.5-1	Solid	01/23/19 11:50	01/23/19 18:45
720-90982-24	DUP-118	Solid	01/23/19 00:00	01/23/19 18:45
720-90982-25	DG-AA18S-3.5-4	Solid	01/23/19 11:50	01/23/19 18:45
720-90982-26	DG-Y18S-0.5-1	Solid	01/23/19 12:55	01/23/19 18:45
720-90982-27	DG-Y18S-3.5-4	Solid	01/23/19 12:55	01/23/19 18:45
720-90982-28	DG-Z18S-0.5-1	Solid	01/23/19 13:05	01/23/19 18:45
720-90982-29	DG-Z18S-3.5-4	Solid	01/23/19 13:05	01/23/19 18:45
720-90982-30	DG-Y17S-0.5-1	Solid	01/23/19 13:20	01/23/19 18:45
720-90982-31	DG-Y17S-3.5-4	Solid	01/23/19 13:20	01/23/19 18:45
720-90982-32	DG-X16S-0.5-1	Solid	01/23/19 13:40	01/23/19 18:45
720-90982-33	DG-X16S-3.5-4	Solid	01/23/19 13:40	01/23/19 18:45
720-90982-34	DG-W14S-0.5-1	Solid	01/23/19 14:20	01/23/19 18:45
720-90982-35	DG-W14S-3.5-4	Solid	01/23/19 14:20	01/23/19 18:45
720-90982-36	DUP-127	Solid	01/23/19 00:00	01/23/19 18:45
720-90982-37	DG-W14S-9.5-10	Solid	01/23/19 14:20	01/23/19 18:45
720-90982-38	DG-V14S-0.5-1	Solid	01/23/19 15:15	01/23/19 18:45
720-90982-39	DG-V14S-3.5-4	Solid	01/23/19 15:15	01/23/19 18:45
720-90982-40	DG-V15S-0.5-1	Solid	01/23/19 15:40	01/23/19 18:45
720-90982-41	DG-V15S-3.5-4	Solid	01/23/19 15:40	01/23/19 18:45

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90982

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#188670

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/23/19	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James - Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90982 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AC175-0.5-1	1/23/19	815	G	S	1	N		X	
2	DG-AC175-3.5-4		815							
3	DG-AF165-0.5-1		820					Y		
4	DG-AF165-3.5-4		820							
5	DG-AC175 0.5-1		840							
6	DG-AC175-3.5-4		840							
7	DG-AF185-0.5-1	915	~~905~~ 915							
8	DG-AF185-3.5-4	WAP	915	~~905~~				X		* MS/MSD sample
9	DG-AE185-0.5-1		905							
10	DG-AE185-3.5-4		905							
11	DUP-73		—							
12	DUP-119	↓	—	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

4.9°C 1.0, 3.4°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company Geosyntec	Date/Time 1615 23 Jan. 2019	Received by	Company TA PLS	Date/Time 1-23-19 1615
Relinquished by	Company TA PLS	Date/Time 1615 1-23-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time:	Received in Laboratory by	Company TA-PLS	Date/Time 1/23/19 1845

4.9, 1.0, 3.4°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

120-90982

185070

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/23/19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James - Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AG1BS-0.5-1	1/23/19	935	G	S	1	N		X	
14	DG-AG1BS-3.5-4		935							
15	DG-AD1SS-0.5-1		945							
16	DG-AD1SS-3.5-4		945							
17	DG-AE1SS-0.5-1		1000							
18	DG-AE1SS-3.5-4		1000							
19	DG-AD1BS-0.5-1		1020							
20	DG-AD1BS-3.5-4		1020							
21	DG-AE1BS-0.5-1		1050							
22	DG-AE1BS-3.5-4		1050							
23	DG-AA1BS-0.5-1		1150							
24	DUP-118		—							

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd ____ Corr'd ____		Therm ID No. ____	
Relinquished by	Company Geosyntec	Date/Time 1615 23 Jan. 2019	Received by	Company TA PLS	Date/Time 1-23-19	16:15
Relinquished by	Company	Date/Time 1-23-19	Received by	Company	Date/Time.	
Relinquished by.	Company	Date/Time	Received in Laboratory by	Company TA PLS	Date/Time 1/23/19	1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/15/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

Chain of Custody Record

720-90982

153050

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 23 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James - Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25.	DG-AA18s-3.5-4	23 Jan. 2019	1150	G	S	1	N		X	
26.	DG-Y18s-0.5-1		1255							
27.	DG-Y18s-3.5-4		1255							
28.	DG-Z18s-0.5-1		1305							
29.	DG-Z18s-3.5-4		1305							
30.	DG-Y17s-0.5-1		1320							
31.	DG-Y17s-3.5-4		1320							
32.	DG-X16s-0.5-1		1340							
33.	DG-X16s-3.5-4		1340							
34.	DG-W14s-0.5-1		1420							
35.	DG-W14s-3.5-4		1420							
36.	DUP-127	↓	—	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company Geosyntec	Date/Time 1615 23 Jan. 2019	Received by	Company TA PLS	Date/Time 1-23-19 16:15
Relinquished by	Company TA PLS	Date/Time 18:16 1-23-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/23/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/15/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

Chain of Custody Record

720-90982

150070

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 23 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Dylan James-Kavanagh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnias@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
37.	DG-W14S-9.5-10	23 Jan. 2019	1420	G	S	1	N		X	
38.	DG-V14S-0.5-1	↓	1515	↓	↓	↓			↓	
39.	DG-V14S-3.5-4		1515							
40.	DG-V15S-0.5-1		1540							
41.	DG-V15S-3.5-4		1540							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd. _____ Therm ID No. _____		
Relinquished by: Urvashi Patel	Company: Geosyntec	Date/Time: 1615 23 Jan 2019	Received by:	Company: TA PLS	Date/Time: 1-23-19 1615
Relinquished by:	Company: TA PLS	Date/Time: 1-23-19 1845	Received by	Company	Date/Time
Relinquished by	Company.	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/23/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4756 4574 2793	COC No: 720-40935.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90982-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AE17S-0.5-1 (720-90982-1)	1/23/19	08:15 Pacific		Solid			X	X	X	1	
DG-AE17S-3.5-4 (720-90982-2)	1/23/19	08:15 Pacific		Solid			X	X	X	1	
DG-AF16S-0.5-1 (720-90982-3)	1/23/19	08:20 Pacific		Solid			X	X	X	1	
DG-AF16S-0.5-1 (720-90982-3MS)	1/23/19	08:20 Pacific	MS	Solid				X	X	1	
DG-AF16S-0.5-1 (720-90982-3MSD)	1/23/19	08:20 Pacific	MSD	Solid				X	X	1	
DG-AF16S-3 5-4 (720-90982-4)	1/23/19	08.20 Pacific		Solid			X	X	X	1	
DG-AC17S-0 5-1 (720-90982-5)	1/23/19	08:40 Pacific		Solid			X	X	X	1	
DG-AC17S-3.5-4 (720-90982-6)	1/23/19	08:40 Pacific		Solid			X	X	X	1	
DG-AF18S-0.5-1 (720-90982-7)	1/23/19	09:15 Pacific		Solid			X	X	X	1	

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/24/19 1507	TAPS		1/25/19 10:00	TA-PLS
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ~~Δ Yes~~ Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3 1/3.5 12-89

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 2793	COC No. 720-40935.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90982-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #			
Email:	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AF18S-3.5-4 (720-90982-8)	1/23/19	09:15 Pacific		Solid			X	X	X	1	
DG-AF18S-3.5-4 (720-90982-8MS)	1/23/19	09:15 Pacific	MS	Solid				X	X	1	
DG-AF18S-3 5-4 (720-90982-8MSD)	1/23/19	09:15 Pacific	MSD	Solid				X	X	1	
DG-AE18S-0.5-1 (720-90982-9)	1/23/19	09:05 Pacific		Solid			X	X	X	1	
DG-AE18S-3.5-4 (720-90982-10)	1/23/19	09:05 Pacific		Solid			X	X	X	1	
DUP-73 (720-90982-11)	1/23/19	Pacific		Solid			X	X	X	1	
DUP-119 (720-90982-12)	1/23/19	Pacrfic		Solid			X	X	X	1	
DG-AG18S-0.5-1 (720-90982-13)	1/23/19	09:35 Pacific		Solid			X	X	X	1	
DG-AG18S-3.5-4 (720-90982-14)	1/23/19	09:35 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by.	Date.	Time:	Method of Shipment			
Relinquished by	Date/Time: 1/24/19 1507	Company TAPS	Received by	Date/Time: 1/25/19 10:00	Company TAPLV	
Relinquished by	Date/Time:	Company	Received by.	Date/Time:	Company	
Relinquished by	Date/Time:	Company	Received by.	Date/Time:	Company	
Custody Seals Intact: △ Yes △ No	Custody Seal No..		Cooler Temperature(s) °C and Other Remarks.	3 1/3 5	1k-89	

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4759 4574 2793	COC No: 720-40935.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 5
Company: TestAmenca Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90982-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AD15S-0.5-1 (720-90982-15)	1/23/19	09:45 Pacific		Solid			X	X	X	1	
DG-AD15S-3.5-4 (720-90982-16)	1/23/19	09:45 Pacific		Solid			X	X	X	1	
DG-AE14S-0.5-1 (720-90982-17)	1/23/19	10:00 Pacific		Solid			X	X	X	1	
DG-AE14S-3.5-4 (720-90982-18)	1/23/19	10:00 Pacific		Solid			X	X	X	1	
DG-AD16S-0.5-1 (720-90982-19)	1/23/19	10:20 Pacific		Solid			X	X	X	1	
DG-AD16S-3.5-4 (720-90982-20)	1/23/19	10:20 Pacific		Solid			X	X	X	1	
DG-AE16S-0.5-1 (720-90982-21)	1/23/19	10:50 Pacific		Solid			X	X	X	1	
DG-AE16S-3 5-4 (720-90982-22)	1/23/19	10:50 Pacific		Solid			X	X	X	1	
DG-AA18S-0.5-1 (720-90982-23)	1/23/19	11.50 Pacific		Solid			X	X	X	1	

Note Since laboratory accreditations are subject to change, TestAmenca Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by: Date:	Time: Method of Shipment:

Relinquished by:	Date/Time: 1/24/19 1507	Company: TPUS	Received by:	Date/Time: 1/25/19 10:00	Company: TA-PLS
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.1/3.5 IR-89

Ver: 09/20/2016

2/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 7789 4574 2793	COC No: 720-40935.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90982-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #			
Email:	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#:			
Site				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X				X	
DUP-118 (720-90982-24)	1/23/19	Pacific		Solid			X	X	X	1	
DG-AA18S-3.5-4 (720-90982-25)	1/23/19	11:50 Pacific		Solid			X	X	X	1	
DG-Y18S-0.5-1 (720-90982-26)	1/23/19	12:55 Pacific		Solid			X	X	X	1	
DG-Y18S-3.5-4 (720-90982-27)	1/23/19	12:55 Pacific		Solid			X	X	X	1	
DG-Z18S-0.5-1 (720-90982-28)	1/23/19	13:05 Pacific		Solid			X	X	X	1	
DG-Z18S-3.5-4 (720-90982-29)	1/23/19	13:05 Pacific		Solid			X	X	X	1	
DG-Y17S-0.5-1 (720-90982-30)	1/23/19	13:20 Pacific		Solid			X	X	X	1	
DG-Y17S-3.5-4 (720-90982-31)	1/23/19	13:20 Pacific		Solid			X	X	X	1	
DG-X16S-0.5-1 (720-90982-32)	1/23/19	13 40 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. *This sample shipment is forwarded under chain-of-custody.*

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1/24/19 1507	TAPLS		1/25/19 1000	TAPLS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
☐ Yes ☐ No		3.1/3.5 IR-5

Ver: 09/20/2016

2/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4789 4574 2793	COC No: 720-40935.5
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 5 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90982-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-X16S-3.5-4 (720-90982-33)	1/23/19	13:40 Pacific		Solid			X	X	X	1	
DG-W14S-0.5-1 (720-90982-34)	1/23/19	14:20 Pacific		Solid			X	X	X	1	
DG-W14S-3.5-4 (720-90982-35)	1/23/19	14:20 Pacific		Solid			X	X	X	1	
DUP-127 (720-90982-36)	1/23/19	Pacific		Solid			X	X	X	1	
DG-W14S-9.5-10 (720-90982-37)	1/23/19	14:20 Pacific		Solid			X	X	X	1	
DG-V14S-0 5-1 (720-90982-38)	1/23/19	15:15 Pacific		Solid			X	X	X	1	
DG-V14S-3.5-4 (720-90982-39)	1/23/19	15:15 Pacific		Solid			X	X	X	1	
DG-V15S-0.5-1 (720-90982-40)	1/23/19	15:40 Pacific		Solid			X	X	X	1	
DG-V15S-3.5-4 (720-90982-41)	1/23/19	15:40 Pacific		Solid			X	X	X	1	

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/24/19 1507	TAPL		1/25/19 10:20	TAPL
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ▲ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks. 3.1/3.5 IR 89

Ver. 09/20/2016

2/15/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90982-1

Login Number: 90982
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90982-1

Login Number: 90982
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/25/19 12:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Saturday, January 26, 2019 12:57 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-90982-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Yes please log per the COC as DG-V15S-0.5-1.

Thank you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Thursday, January 24, 2019 11:56 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-90982-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-90982-1; Brisbane OU-2 Data Gap Investigation

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DG-V15S-0.5-1. The container labels list DG-V15S-.5-1.5 while the COC lists DG-V15S-0.5-1. Sample was logged in per COC because the container label was handwritten rather than pre-typed. Please confirm that this is correct.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [497505]
Attachments: 3

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91011-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 7:55:05 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91011-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91011-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 1/24/2019 6:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.2º C, 2.3º C, 2.6º C and 2.7º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
#19E DG-AD17S-7-7.5 The 4oz container label list DG-AD17S-, while the COC lists DG-AD17S-7-7.5; the sample was logged in according to the COC.
#20 DUP-125 The container labels list date 1/25/19, while the COC lists date: 1/24/19; the sample was logged in according to the COC.
#27 TB-S-1.24.19 This Trip Blank was listed on the COC but no vials were received.

GC/MS VOA
Method 8260B/CA_LUFTMS: The method blank for analytical batch 440-525788 contained Gasoline Range Organics (GRO) C4-C12 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Methods 8260B and 8260B/CA_LUFTMS: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (440-231832-C-2 MS) and (440-231832-C-2 MSD). The parent sample's surrogate recovery was within limits. The MS/MSD samples have been qualified and reported. Sample matrix interference was suspected.

Methods 8280B and 8260B/CA_LUFTMS: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH of 4 was outside the required criteria when verified by the laboratory, and corrective action was not possible: DG-AG15W (720-91011-4). The sample was analyzed outside the 7 days EPA recommendation.

Methods 8260B and 8260B/CA_LUFTMS: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH of 5 was outside the required criteria when verified by the laboratory, and corrective action was not possible: DG-AK15W (720-91011-3). The sample was analyzed outside the 7 days EPA recommendation.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-525787 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 440-526116 and analytical batch 440-526002 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526116 and analytical batch 440-526002 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-526188 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-526745 recovered outside control limits for the following analytes: Tetrachloroethene and Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a “*” symbol .

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 440-526745 recovered outside control limits for the following analyte: Bromoform. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the

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Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

data have been reported. Affected sample results for these compounds have been qualified with a "*" symbol .

Method 8260B: Due to instrument saturation of Dichlorodifluoromethane, the mid point of the calibration (CCV) is set at 10ppb instead of the normal 25ppb. The LCS in analytical batch 440-525787 was spiked at 25ppb, which is above the calibration range. All samples are non-detect for this analyte, and are unaffected.

Method 8260B: Reanalysis of the following samples were performed outside of the analytical holding time due to 1,2-Dichloropropane low in the CCV in the original analysis; the hold time was exceeded for this analyte in the MS/MSD only: DG-AD17S-3.5-4 (720-91011-21[MS]) and DG-AD17S-3.5-4 (720-91011-21[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C SIM: The following samples required a dilution due to the nature of the sample matrix: DG-AK15W (720-91011-3), DG-AG15W (720-91011-4), DG-AI15S-0.5-1 (720-91011-8), DG-AG15S-0.5-1 (720-91011-15), DG-AG15S-3.5-4 (720-91011-16), DG-AG15S-8.5-9 (720-91011-17), DG-AD17S-0.5-1 (720-91011-18), DUP-125 (720-91011-20), DG-AB17S-0.5-1 (720-91011-22), DG-AB17S-3.5-4 (720-91011-23), DG-AA19S-0.5-1 (720-91011-24), DG-AA19S-3.5-4 (720-91011-25), and DG-AA19S-8.5-9 (720-91011-26). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation may not provide useful information. Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Surrogate Nitrobenzene-d5 recovery for the following samples were outside control limits: DUP-76 (720-91011-7), DG-AD17S-3.5-4 (720-91011-21), DG-AD17S-3.5-4 (720-91011-21[MS]) and DG-AD17S-3.5-4 (720-91011-21[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: Surrogate Terphenyl-d14 recovery for the following sample was outside the upper control limit: (MB 440-525569/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The percent recovery of surrogate Terphenyl-d14 in the laboratory control sample duplicate (LCSD) of preparation batch 440-525569 and analytical batch 440-525768 was above the upper acceptance limit. The function of the LCS is to demonstrate the efficiency of extraction for target analytes All target analytes are represented in the LCS and these recoveries were within acceptance limits. (LCSD 440-525569/3-A)

Method 8270C SIM: The continuing calibration verification (CCV) associated with batch 440-526356 recovered above the upper control limit for Benzo[a]anthracene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 440-525490 and analytical batch 440-526356 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 8270C SIM: The continuing calibration verification (CCV) associated with batch 440-526356 recovered above the upper control limit for Benzo[a]anthracene. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. Associated samples: DG-AG15S-3.5-4 (720-91011-16), DG-AG15S-8.5-9 (720-91011-17), DUP-125 (720-91011-20), DG-AB17S-3.5-4 (720-91011-23) and (CCVIS 440-526356/1)

Method 8270C SIM: The source samples were diluted due to the nature of the sample matrix: DG-AI15S-0.5-1 (720-91011-8[MS]) and DG-AI15S-0.5-1 (720-91011-8[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-525292 and analytical batch 440-525506 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 720-91011-1 (Continued)

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Method 8015B: The hydrocarbon result for the following sample is partly due to individual peak in quantitation range: DG-AG15S-8.5-9 (720-91011-17).

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-525503 and analytical batch 440-525821 was outside control limits. Sample non-homogeneity is suspected. The individual recoveries met acceptance criteria.

Method 8015B: The method blank for preparation batch 440-525503 and analytical batch 440-525821 contained C10-C28 and C24-C36 are above the method detection limit. These target analytes concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-525719 and analytical batch 440-525834 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: DG-AB17S-3.5-4 (720-91011-23). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation may not provide useful information.

Method 8015B: The method blank for preparation batch 440-526368 and analytical batch 440-526266 contained C10-C28 and C24-C36 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 440-526368 and analytical batch 440-526644 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Methods 8081A and 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AI15S-0.5-1 (720-91011-8), DG-AI15S-0.5-1 (720-91011-8[MS]), DG-AI15S-0.5-1 (720-91011-8[MSD]), DG-AG15S-8.5-9 (720-91011-17), DG-AD17S-7-7.5 (720-91011-19), DUP-125 (720-91011-20), DG-AD17S-3.5-4 (720-91011-21), DG-AD17S-3.5-4 (720-91011-21[MS]), DG-AD17S-3.5-4 (720-91011-21[MSD]), DG-AB17S-3.5-4 (720-91011-23), DG-AA19S-3.5-4 (720-91011-25) and DG-AA19S-8.5-9 (720-91011-26).

Method 8082: The continuing calibration verification (CCV) associated with batch 440-526355 recovered above the upper control limit for Aroclor 1016 and Aroclor 1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AD17S-3.5-4 (720-91011-21), DG-AD17S-3.5-4 (720-91011-21[MS]), DG-AD17S-3.5-4 (720-91011-21[MSD]), DG-AB17S-3.5-4 (720-91011-23), DG-AA19S-0.5-1 (720-91011-24), DG-AA19S-3.5-4 (720-91011-25), DG-AA19S-8.5-9 (720-91011-26) and (720-91048-F-19-D). Affected sample results for these compounds have been qualified with a “*” symbol.

Method 8082:The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-525476 and analytical batch 440-526128 are flagged reflecting issues with the secondary column recoveries. Results are reported from the primary column for all analytes.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AI15S-0.5-1 (720-91011-8), DG-AI15S-0.5-1 (720-91011-8[MS]), DG-AI15S-0.5-1 (720-91011-8[MSD]), DG-AI15S-3.5-4 (720-91011-9), DUP-112 (720-91011-10), DG-AJ17S-0.5-1 (720-91011-11), DG-AJ17S-3.5-4 (720-91011-12), DG-AJ17S-9.5-10 (720-91011-13), DG-AH17S-0.5-1 (720-91011-14), DG-AG15S-0.5-1 (720-91011-15), DG-AG15S-3.5-4 (720-91011-16), DG-AG15S-8.5-9 (720-91011-17), DG-AD17S-0.5-1 (720-91011-18), DG-AD17S-7-7.5 (720-91011-19), DUP-125 (720-91011-20), DG-AD17S-3.5-4 (720-91011-21), DG-AB17S-0.5-1 (720-91011-22), DG-AB17S-3.5-4 (720-91011-23), DG-AA19S-0.5-1 (720-91011-24), (720-91011-E-8-L PDS), (720-91011-E-8-L SD ^20), DG-AA19S-3.5-4 (720-91011-25) and DG-AA19S-8.5-9 (720-91011-26). Elevated reporting limits (RLs) are provided.

Job ID: 720-91011-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB (ICSA 720-259445/7) and (ICSAB 720-259445/8), but target elements passed recoveries.

Method 6010B: The method blank for preparation batch 720-259288 and analytical batch 720-259445 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB (ICSA 720-259497/7) and (ICSAB 720-259497/8), but target elements passed recoveries.

Method 6010B: The method blank for preparation batch 720-259575 and analytical batch 720-259788 contained Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-259575 and analytical batch 720-259788 contained Barium above the reporting limit. All samples had detections of the analyte at more than 10X the level found in the blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259575 and analytical batch 720-259788 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The method blank for preparation batch 720-259601 and analytical batch 720-259871 contained Silver, Chromium, and Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259601 and analytical batch 720-259871 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-136%, Chromium-128%, Copper-127%, Vanadium-127%, and Zinc-131% associated with batch 720-259871 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259871 was outside control limits for Barium,-16%, Cobalt-13%, Chromium-14%, Nickel-12%, Vanadium-15%, and Zinc-13%: (720-91011-F-21-I SD)

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259975 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: DUP-125 (720-91011-20). Affected sample results for these compounds have been qualified with a "^" symbol .

Method 7471A: The method blank for preparation batch 720-259580 and analytical batch 720-259898 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7470A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: DG-AK15W (720-91011-3). The sample was preserved to the appropriate pH in the laboratory. 1 ml of Nitric acid added at 835 1/22/19. Reference batch is 259101.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Job ID: 720-91011-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 3510C: Due to the matrix, the following samples could not be concentrated to the final method required volume for 8015B: DG-AW11W (720-91011-1), DG-AG15W (720-91011-4), and DUP-76 (720-91011-7). The reporting limits (RLs) are elevated proportionately.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8015B preparation batch 440-525296. LCS was performed in duplicate to provide precision of data.

Method 3520C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation/analysis for 8270CSIM: DG-AG15W (720-91011-4).

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-525569 for 8270-SIM. LCS was performed in duplicate to provide precision of data.

Method 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume for method 8270C SIM: DG-AI15S-0.5-1 (720-91011-8), DG-AI15S-0.5-1 (720-91011-8[MS]), DG-AI15S-0.5-1 (720-91011-8[MSD]), DG-AG15S-0.5-1 (720-91011-15), DG-AG15S-3.5-4 (720-91011-16), DG-AD17S-0.5-1 (720-91011-18), DG-AB17S-3.5-4 (720-91011-23) and DG-AA19S-0.5-1 (720-91011-24). The reporting limits (RLs) are elevated proportionately.

Method 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume for method 8015B: DG-AI15S-0.5-1 (720-91011-8), DG-AI15S-0.5-1 (720-91011-8[MS]), DG-AI15S-0.5-1 (720-91011-8[MSD]) ,DG-AI15S-3.5-4 (720-91011-9), DG-AD17S-0.5-1 (720-91011-18), DG-AD17S-7-7.5 (720-91011-19), DG-AB17S-0.5-1 (720-91011-22), DG-AB17S-3.5-4 (720-91011-23), DG-AA19S-0.5-1 (720-91011-24) and DG-AA19S-3.5-4 (720-91011-25). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AW11W — Lab Sample ID: 720-91011-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	79		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Phenanthrene	0.15	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.14	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.17	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.20	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.19	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.21		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.21		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.43		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.55		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1100		1100	220	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	500	J	1100	220	ug/L	1		8015B	Total/NA
Barium	36	J B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.2	J	10	0.70	ug/L	1		6010B	Dissolved
Copper	4.6	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	5.1	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.1	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.6	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AM15W — Lab Sample ID: 720-91011-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	150		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
4-Isopropyltoluene	4.5		0.50	0.25	ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	J	2.0	0.50	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	110	J	530	110	ug/L	1		8015B	Total/NA
Arsenic	2.9	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	34	J B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.5	J	10	0.70	ug/L	1		6010B	Dissolved
Copper	3.9	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	4.4	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.1	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.3	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AK15W — Lab Sample ID: 720-91011-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	170		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Acetone	14	J	20	10	ug/L	1		8260B	Total/NA
Benzene	4.6		0.50	0.25	ug/L	1		8260B	Total/NA
Ethylbenzene	0.74		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	45		1.0	0.40	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.41	J	0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	0.93		0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.74		0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	2.4		1.0	0.50	ug/L	1		8260B	Total/NA
Naphthalene	41	J	50	25	ug/L	250		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	6500		520	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	610		520	100	ug/L	1		8015B	Total/NA
Arsenic	9.2	J	10	2.9	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK15W (Continued) — Lab Sample ID: 720-91011-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	290	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	3.0	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	5.8		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	5.5	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	7.0	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.0	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.4	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AG15W — Lab Sample ID: 720-91011-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	160		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	4.6		0.50	0.25	ug/L	1		8260B	Total/NA
n-Butylbenzene	1.1		1.0	0.40	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.87		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.69	J	1.0	0.40	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.7		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	1700		1000	200	ug/L	1		8015B	Total/NA
Arsenic	7.5	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	220	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	2.3	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	4.2		2.0	0.68	ug/L	1		6010B	Dissolved
Nickel	4.9	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	3.1	J	10	0.87	ug/L	1		6010B	Dissolved
Mercury	0.15	J	0.20	0.10	ug/L	1		7470A	Dissolved

Client Sample ID: TB-W-1.24.2019 — Lab Sample ID: 720-91011-5

No Detections.

Client Sample ID: FB-1.24.2019 — Lab Sample ID: 720-91011-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	40	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Acetone	49		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: DUP-76 — Lab Sample ID: 720-91011-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.12	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.14	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.16	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.20	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.19	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.22		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.36		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.46		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1100		1000	210	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	500	J	1000	210	ug/L	1		8015B	Total/NA
Arsenic	4.5	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	70	B	50	1.6	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-76 (Continued)

Lab Sample ID: 720-91011-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1.8	J	10	0.70	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AI15S-0.5-1

Lab Sample ID: 720-91011-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	170	J	590	79	ug/Kg	10		8270C SIM	Total/NA
Pyrene	110	J	590	79	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	370		10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		10	5.0	mg/Kg	1		8015B	Total/NA
4,4'-DDT	6.3		4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	4.4	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDD	2.9	J p	4.9	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1254	130		49	17	ug/Kg	1		8082	Total/NA
Aroclor 1260	70		49	17	ug/Kg	1		8082	Total/NA
Antimony	1.2	J F1	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	9.2		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	69	B F1	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.88		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.37	J	0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	34		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	30	F1 F2	5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	5.8		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.34	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	32	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Silver	0.26	J	0.85	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	50		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.030		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI15S-3.5-4

Lab Sample ID: 720-91011-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.2		1.4	0.71	ug/Kg	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	11	B	9.9	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	12	B	9.9	5.0	mg/Kg	1		8015B	Total/NA
Antimony	1.6	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	8.3		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	93	B	2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.28	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.33	J	0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	34		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	5.0		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	20		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	8.1		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	26	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	3.9	0.59	mg/Kg	4		6010B	Total/NA
Silver	0.21	J	0.98	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	45		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	47		5.9	2.5	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AI15S-3.5-4 (Continued) — Lab Sample ID: 720-91011-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.042		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-112 — Lab Sample ID: 720-91011-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.4		1.4	0.70	ug/Kg	1		8260B	Total/NA
Chrysene	4.9	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	5.3	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.9	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.2	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	17		5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	1.4	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	5.3		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	74	B	1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	36		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	20		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	16		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	42		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	45		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.045		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ17S-0.5-1 — Lab Sample ID: 720-91011-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.4		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	11		5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	1.7	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	8.3		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	30	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.52		0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	38		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	19		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	12		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	30	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.86	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	71		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.016		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ17S-3.5-4 — Lab Sample ID: 720-91011-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	3.1	J	5.0	2.5	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ17S-3.5-4 (Continued)
Lab Sample ID: 720-91011-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	7.6		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	54	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.43		0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	49		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	18		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	6.9		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.22	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	30	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	60		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.018		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ17S-9.5-10
Lab Sample ID: 720-91011-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	5.1		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	90	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	67		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	16		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	5.5		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	32	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	52		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.013	J	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH17S-0.5-1
Lab Sample ID: 720-91011-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	430		67	47	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
4-Isopropyltoluene	130		0.67	0.33	ug/Kg	1		8260B	Total/NA
Toluene	0.33	J	0.67	0.33	ug/Kg	1		8260B	Total/NA
Phenanthrene	5.6	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.3	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	6.9	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	12	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.7	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	9.0	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	11	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.6	J	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	5.2		5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	1.5	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	5.1		3.5	0.30	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH17S-0.5-1 (Continued)
Lab Sample ID: 720-91011-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	35	B	1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.65		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	26		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	15		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	10		1.7	0.37	mg/Kg	4		6010B	Total/NA
Nickel	25	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	75		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.019		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG15S-0.5-1
Lab Sample ID: 720-91011-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Isopropyltoluene	0.46	J	0.73	0.36	ug/Kg	1		8260B	Total/NA
Benzo[g,h,i]perylene	20	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.7		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	11		5.0	2.5	mg/Kg	1		8015B	Total/NA
Chlordane (technical)	35	J	50	10	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	2.2	J p	5.0	2.0	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	3.5	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
Antimony	0.30	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	3.1		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	23	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.090	J	0.25	0.081	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	24		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	3.8		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	8.1		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	28		1.3	0.26	mg/Kg	4		6010B	Total/NA
Nickel	20	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	30		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.065		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG15S-3.5-4
Lab Sample ID: 720-91011-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.2	J	6.4	3.2	ug/Kg	1		8260B	Total/NA
Phenanthrene	40	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	47	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Chrysene	59	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	43	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	59	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	40	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	67	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Pyrene	80	J	290	39	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	99		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	39		5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	1.3	J	1.7	0.28	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG15S-3.5-4 (Continued) Lab Sample ID: 720-91011-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.55		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	30		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	32		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	88		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.29	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	28	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	150		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG15S-8.5-9 Lab Sample ID: 720-91011-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	230		86	60	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2.9		1.7	0.86	ug/Kg	1		8260B	Total/NA
1,3,5-Trimethylbenzene	1.0	J	1.7	0.86	ug/Kg	1		8260B	Total/NA
4-Isopropyltoluene	0.44	J	0.86	0.43	ug/Kg	1		8260B	Total/NA
Benzene	15		0.86	0.43	ug/Kg	1		8260B	Total/NA
Carbon disulfide	3.7		1.7	0.86	ug/Kg	1		8260B	Total/NA
Ethylbenzene	2.1		0.86	0.43	ug/Kg	1		8260B	Total/NA
Isopropylbenzene	3.4		0.86	0.43	ug/Kg	1		8260B	Total/NA
Naphthalene	0.87	J	1.7	0.86	ug/Kg	1		8260B	Total/NA
n-Butylbenzene	2.4		1.7	0.86	ug/Kg	1		8260B	Total/NA
N-Propylbenzene	12		0.86	0.43	ug/Kg	1		8260B	Total/NA
Toluene	1.1		0.86	0.43	ug/Kg	1		8260B	Total/NA
Xylenes, Total	3.6		1.7	1.1	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	27		8.6	4.3	ug/Kg	1		8260B	Total/NA
Phenanthrene	47	J	120	16	ug/Kg	4		8270C SIM	Total/NA
Anthracene	20	J	120	16	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]anthracene	76	J	120	16	ug/Kg	4		8270C SIM	Total/NA
Chrysene	98	J	120	16	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]pyrene	140		120	16	ug/Kg	4		8270C SIM	Total/NA
Benzo[b]fluoranthene	170		120	16	ug/Kg	4		8270C SIM	Total/NA
Benzo[k]fluoranthene	39	J	120	16	ug/Kg	4		8270C SIM	Total/NA
Benzo[g,h,i]perylene	140		120	16	ug/Kg	4		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	150		120	16	ug/Kg	4		8270C SIM	Total/NA
Fluoranthene	160		120	16	ug/Kg	4		8270C SIM	Total/NA
Pyrene	150		120	16	ug/Kg	4		8270C SIM	Total/NA
Dibenz(a,h)anthracene	16	J	120	16	ug/Kg	4		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	27		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	5.5		5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	1.4	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	5.1		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	73	B	2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	31		2.0	0.21	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG15S-8.5-9 (Continued)

Lab Sample ID: 720-91011-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.8		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	28		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	70		2.0	0.41	mg/Kg	4		6010B	Total/NA
Nickel	44	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.9	0.59	mg/Kg	4		6010B	Total/NA
Silver	0.41	J	0.98	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	28		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	250		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.024		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD17S-0.5-1

Lab Sample ID: 720-91011-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	27	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Chrysene	32	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	22	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Pyrene	34	J	120	16	ug/Kg	2		8270C SIM	Total/NA
2-Methylnaphthalene	18	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	170		10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	300		10	5.0	mg/Kg	1		8015B	Total/NA
Antimony	1.3		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.4		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	230	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.25		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.35		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	31		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	56		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	13		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	27	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Silver	0.33	J	0.61	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	50		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD17S-7-7.5

Lab Sample ID: 720-91011-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	79		75	52	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	3.3		1.5	0.75	ug/Kg	1		8260B	Total/NA
Acenaphthene	13	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluorene	6.9	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	14	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Anthracene	6.6	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	12	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	11	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.7	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	14	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.5	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.6	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD17S-7-7.5 (Continued) Lab Sample ID: 720-91011-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	88		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	51		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	13	B	10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	13	B	10	5.0	mg/Kg	1		8015B	Total/NA
Antimony	1.4		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	8.6		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	57	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.61		0.23	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.25	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	57		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	29		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	15		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.33	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	32	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	80		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-125 Lab Sample ID: 720-91011-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	470		73	51	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Acenaphthene	200	J	290	39	ug/Kg	10		8270C SIM	Total/NA
Fluorene	47	J	290	39	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	280	J	290	39	ug/Kg	10		8270C SIM	Total/NA
Anthracene	75	J	290	39	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	71	J	290	39	ug/Kg	10		8270C SIM	Total/NA
Chrysene	48	J	290	39	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	43	J	290	39	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	59	J	290	39	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	400		290	39	ug/Kg	10		8270C SIM	Total/NA
Pyrene	220	J	290	39	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	100	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	2.4		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	15		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.35		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.63		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	44		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	91		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	15		1.2	0.26	mg/Kg	4		6010B	Total/NA
Nickel	49	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	3.0		2.4	0.37	mg/Kg	4		6010B	Total/NA
Silver	0.59	J	0.61	0.12	mg/Kg	4		6010B	Total/NA
Thallium	2.9		1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	160		3.7	1.5	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-125 (Continued) — Lab Sample ID: 720-91011-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.49		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD17S-3.5-4 — Lab Sample ID: 720-91011-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	130000		7600	5400	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Acenaphthene	69		59	7.8	ug/Kg	2		8270C SIM	Total/NA
Fluorene	16	J	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	15	J	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Anthracene	27	J	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Chrysene	99	F1	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	140	F1	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	190	F1	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	51	J	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	95		59	7.8	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	140	F1	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	170	F1 F2	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Pyrene	130	F1	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	33	J	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene - RA	86	F1	59	7.8	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	22	F1	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	7.4		5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	1.7	F1	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	9.2		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	98	F1	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.59		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.17	J	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	37	B F1	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	45	F1	4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	16		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	32	B F1	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.62	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	40	F1	1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	110	F1	4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.15	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB17S-0.5-1 — Lab Sample ID: 720-91011-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	11000		7500	5200	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	55	J	75	37	ug/Kg	100		8260B	Total/NA
1,3,5-Trimethylbenzene	42	J	75	37	ug/Kg	100		8260B	Total/NA
Ethylbenzene	240		75	37	ug/Kg	100		8260B	Total/NA
Isopropylbenzene	49	J	75	37	ug/Kg	100		8260B	Total/NA
Xylenes, Total	3100		150	75	ug/Kg	100		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	4000		370	150	ug/Kg	100		8260B	Total/NA
Naphthalene	120	J	300	40	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	47	J	300	40	ug/Kg	10		8270C SIM	Total/NA
Chrysene	44	J	300	40	ug/Kg	10		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB17S-0.5-1 (Continued) Lab Sample ID: 720-91011-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	46	J	300	40	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	80	J	300	40	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	78	J	300	40	ug/Kg	10		8270C SIM	Total/NA
Pyrene	92	J	300	40	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	610		10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	370		10	5.0	mg/Kg	1		8015B	Total/NA
4,4'-DDT	3.4	J p	5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	38	J	50	10	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	3.1	J	5.0	2.0	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	3.0	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1260	43	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	5.5		1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	4.0		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	150	B	1.7	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	220		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	69		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	620		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	5.2		1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	51	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.4	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Silver	0.29	J	0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	780		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.23		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB17S-3.5-4 Lab Sample ID: 720-91011-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	16		12	5.9	ug/Kg	1		8260B	Total/NA
Acenaphthylene	250	J	1200	160	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	200	J	1200	160	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	570	J	1200	160	ug/Kg	20		8270C SIM	Total/NA
Chrysene	590	J	1200	160	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	1100	J	1200	160	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	1200		1200	160	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	300	J	1200	160	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1000	J	1200	160	ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	1100	J	1200	160	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	1300		1200	160	ug/Kg	20		8270C SIM	Total/NA
Pyrene	1800		1200	160	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3100		200	100	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1000		200	100	mg/Kg	20		8015B	Total/NA
4,4'-DDE	1.6	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
Antimony	2.4		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	6.9		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	180	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.79		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	21		1.6	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB17S-3.5-4 (Continued) Lab Sample ID: 720-91011-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	7.7		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	150		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	330		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	41	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.19	J	0.80	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	370		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.38		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA19S-0.5-1 Lab Sample ID: 720-91011-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	50	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Chrysene	180	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	59	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	50	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Pyrene	65	J	300	40	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	350		10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	520		10	5.0	mg/Kg	1		8015B	Total/NA
Antimony	0.76	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	2.2	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	23	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	33		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	6.9		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	9.4		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	5.2		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.21	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	30	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.94	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	30		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.026	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA19S-3.5-4 Lab Sample ID: 720-91011-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	690		85	60	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Phenanthrene	140	J	230	31	ug/Kg	8		8270C SIM	Total/NA
Benzo[a]anthracene	100	J	230	31	ug/Kg	8		8270C SIM	Total/NA
Chrysene	170	J	230	31	ug/Kg	8		8270C SIM	Total/NA
Benzo[a]pyrene	230		230	31	ug/Kg	8		8270C SIM	Total/NA
Benzo[b]fluoranthene	270		230	31	ug/Kg	8		8270C SIM	Total/NA
Benzo[k]fluoranthene	77	J	230	31	ug/Kg	8		8270C SIM	Total/NA
Benzo[g,h,i]perylene	430		230	31	ug/Kg	8		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	330		230	31	ug/Kg	8		8270C SIM	Total/NA
Fluoranthene	270		230	31	ug/Kg	8		8270C SIM	Total/NA
Pyrene	320		230	31	ug/Kg	8		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	55		10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110		10	5.0	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AA19S-3.5-4 (Continued) Lab Sample ID: 720-91011-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	3.9		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	92		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	140	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	31		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	27		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	120	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	70		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.83	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA19S-8.5-9 Lab Sample ID: 720-91011-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.0		7.6	3.8	ug/Kg	1		8260B	Total/NA
Phenanthrene	10	J	60	8.0	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.9		5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	3.5	J	5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	1.6	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	9.2		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	71		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.62		0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.089	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	64	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	28		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	10		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	25	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	61		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	37		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.029	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AW11W

Date Collected: 01/24/19 09:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-1

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	79		50	35	ug/L			02/03/19 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*88*		*76 - 132*		*02/03/19 14:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*02/03/19 14:15*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/03/19 14:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Acetone	ND		20	10	ug/L			01/31/19 23:14	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 23:14	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 23:14	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 23:14	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 23:14	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 23:14	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 23:14	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 23:14	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 23:14	1

Client Sample ID: DG-AW11W
Date Collected: 01/24/19 09:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/31/19 23:14	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 23:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/31/19 23:14	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 23:14	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 23:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 23:14	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 23:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 23:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 23:14	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 23:14	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 23:14	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*01/31/19 23:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 23:14*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Acenaphthene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Fluorene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Phenanthrene	**0.15**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Anthracene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Benzo[a]anthracene	**0.14**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Chrysene	**0.17**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Benzo[a]pyrene	**0.20**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Benzo[b]fluoranthene	**0.19**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Benzo[g,h,i]perylene	**0.21**		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Indeno[1,2,3-cd]pyrene	**0.21**		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Fluoranthene	**0.43**		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Pyrene	**0.55**		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 21:51	1

Client Sample ID: DG-AW11W
Date Collected: 01/24/19 09:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*38 - 120*	*01/29/19 11:21*	*01/31/19 21:51*	*1*
Nitrobenzene-d5	*117*		*10 - 120*	*01/29/19 11:21*	*01/31/19 21:51*	*1*
Terphenyl-d14	*70*		*21 - 120*	*01/29/19 11:21*	*01/31/19 21:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1100**		1100	220	ug/L		01/28/19 09:49	01/28/19 21:54	1
Motor Oil Range Organics [C24-C36]	**500**	**J**	1100	220	ug/L		01/28/19 09:49	01/28/19 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*79*		*45 - 120*	*01/28/19 09:49*	*01/28/19 21:54*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 17:54	1
Arsenic	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 17:54	1
Barium	**36**	**J B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 17:54	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 17:54	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 17:54	1
Chromium	**1.2**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 17:54	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 17:54	1
Copper	**4.6**	**J**	20	3.7	ug/L		01/26/19 10:40	01/29/19 17:54	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 17:54	1
Molybdenum	**5.1**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 17:54	1
Nickel	**1.1**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 17:54	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 17:54	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 17:54	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 17:54	1
Vanadium	**2.6**	**J**	10	0.87	ug/L		01/26/19 10:40	01/29/19 17:54	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 17:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/24/19 21:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AM15W

Date Collected: 01/24/19 10:20
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-2

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	150		50	35	ug/L			01/31/19 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*01/31/19 23:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*01/31/19 23:39*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 23:39*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Acetone	ND		20	10	ug/L			01/31/19 23:39	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 23:39	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 23:39	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 23:39	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 23:39	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 23:39	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 23:39	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 23:39	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 23:39	1

Client Sample ID: DG-AM15W **Lab Sample ID: 720-91011-2**
Date Collected: 01/24/19 10:20 **Matrix: Water**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			01/31/19 23:39	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
4-Isopropyltoluene	**4.5**		0.50	0.25	ug/L			01/31/19 23:39	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 23:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/31/19 23:39	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 23:39	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 23:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 23:39	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 23:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.1**	**J**	2.0	0.50	ug/L			01/31/19 23:39	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 23:39	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 23:39	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 23:39	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*01/31/19 23:39*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 23:39*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Acenaphthene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Fluorene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Phenanthrene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Anthracene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Chrysene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Fluoranthene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Pyrene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/29/19 11:21	01/31/19 22:17	1

Client Sample ID: DG-AM15W
Date Collected: 01/24/19 10:20
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*38 - 120*	*01/29/19 11:21*	*01/31/19 22:17*	*1*
Nitrobenzene-d5	*98*		*10 - 120*	*01/29/19 11:21*	*01/31/19 22:17*	*1*
Terphenyl-d14	*57*		*21 - 120*	*01/29/19 11:21*	*01/31/19 22:17*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**	**J**	530	110	ug/L		01/28/19 09:49	01/29/19 00:24	1
Motor Oil Range Organics [C24-C36]	ND		530	110	ug/L		01/28/19 09:49	01/29/19 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*45 - 120*	*01/28/19 09:49*	*01/29/19 00:24*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 17:59	1
Arsenic	**2.9**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 17:59	1
Barium	**34**	**J B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 17:59	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 17:59	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 17:59	1
Chromium	**1.5**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 17:59	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 17:59	1
Copper	**3.9**	**J**	20	3.7	ug/L		01/26/19 10:40	01/29/19 17:59	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 17:59	1
Molybdenum	**4.4**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 17:59	1
Nickel	**1.1**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 17:59	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 17:59	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 17:59	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 17:59	1
Vanadium	**2.3**	**J**	10	0.87	ug/L		01/26/19 10:40	01/29/19 17:59	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 17:59	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/24/19 21:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AK15W

Date Collected: 01/24/19 11:10
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-3

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**170**		50	35	ug/L			02/01/19 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/01/19 00:04*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/01/19 00:04*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/01/19 00:04*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Acetone	**14**	**J**	20	10	ug/L			02/01/19 00:04	1
Benzene	**4.6**		0.50	0.25	ug/L			02/01/19 00:04	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Bromobenzene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Bromoform	ND		1.0	0.40	ug/L			02/01/19 00:04	1
Bromomethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/01/19 00:04	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/01/19 00:04	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/19 00:04	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Chloroethane	ND		1.0	0.40	ug/L			02/01/19 00:04	1
Chloroform	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Chloromethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/01/19 00:04	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Dibromomethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/01/19 00:04	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Ethylbenzene	**0.74**		0.50	0.25	ug/L			02/01/19 00:04	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/01/19 00:04	1

Client Sample ID: DG-AK15W
Date Collected: 01/24/19 11:10
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/01/19 00:04	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/01/19 00:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/01/19 00:04	1
Naphthalene	**45**		1.0	0.40	ug/L			02/01/19 00:04	1
N-Propylbenzene	**0.41**	**J**	0.50	0.25	ug/L			02/01/19 00:04	1
Styrene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Toluene	**0.93**		0.50	0.25	ug/L			02/01/19 00:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 00:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 00:04	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Trichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/01/19 00:04	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/01/19 00:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/01/19 00:04	1
1,2,4-Trimethylbenzene	**0.74**		0.50	0.25	ug/L			02/01/19 00:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/01/19 00:04	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/01/19 00:04	1
Xylenes, Total	**2.4**		1.0	0.50	ug/L			02/01/19 00:04	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/01/19 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*02/01/19 00:04*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/01/19 00:04*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**41**	**J**	50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Acenaphthene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Acenaphthylene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Fluorene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Phenanthrene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Anthracene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Benzo[a]anthracene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Chrysene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Benzo[a]pyrene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Benzo[b]fluoranthene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Benzo[k]fluoranthene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Benzo[g,h,i]perylene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Indeno[1,2,3-cd]pyrene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Fluoranthene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Pyrene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250
Dibenz(a,h)anthracene	ND		50	25	ug/L		01/29/19 11:21	01/31/19 22:43	250

Client Sample ID: DG-AK15W
Date Collected: 01/24/19 11:10
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*X*	*38 - 120*	*01/29/19 11:21*	*01/31/19 22:43*	*250*
Nitrobenzene-d5	*0*	*X*	*10 - 120*	*01/29/19 11:21*	*01/31/19 22:43*	*250*
Terphenyl-d14	*0*	*X*	*21 - 120*	*01/29/19 11:21*	*01/31/19 22:43*	*250*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6500**		520	100	ug/L		01/28/19 09:49	01/28/19 23:42	1
Motor Oil Range Organics [C24-C36]	**610**		520	100	ug/L		01/28/19 09:49	01/28/19 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*01/28/19 09:49*	*01/28/19 23:42*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:04	1
Arsenic	**9.2**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 18:04	1
Barium	**290**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 18:04	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:04	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:04	1
Chromium	**3.0**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 18:04	1
Cobalt	**5.8**		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:04	1
Copper	**5.5**	**J**	20	3.7	ug/L		01/26/19 10:40	01/29/19 18:04	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:04	1
Molybdenum	**7.0**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 18:04	1
Nickel	**2.0**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 18:04	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:04	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:04	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 18:04	1
Vanadium	**2.4**	**J**	10	0.87	ug/L		01/26/19 10:40	01/29/19 18:04	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 18:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/24/19 21:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AG15W

Date Collected: 01/24/19 11:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-4

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**160**		50	35	ug/L			02/01/19 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/01/19 00:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/01/19 00:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/01/19 00:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Acetone	ND		20	10	ug/L			02/01/19 00:30	1
Benzene	**4.6**		0.50	0.25	ug/L			02/01/19 00:30	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Bromobenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Bromoform	ND		1.0	0.40	ug/L			02/01/19 00:30	1
Bromomethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/01/19 00:30	1
n-Butylbenzene	**1.1**		1.0	0.40	ug/L			02/01/19 00:30	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/19 00:30	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Chloroethane	ND		1.0	0.40	ug/L			02/01/19 00:30	1
Chloroform	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Chloromethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/01/19 00:30	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Dibromomethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/01/19 00:30	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/01/19 00:30	1

Client Sample ID: DG-AG15W
Date Collected: 01/24/19 11:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/01/19 00:30	1
Isopropylbenzene	**0.87**		0.50	0.25	ug/L			02/01/19 00:30	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/01/19 00:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/01/19 00:30	1
Naphthalene	**0.69**	**J**	1.0	0.40	ug/L			02/01/19 00:30	1
N-Propylbenzene	**1.7**		0.50	0.25	ug/L			02/01/19 00:30	1
Styrene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Toluene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 00:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 00:30	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Trichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/01/19 00:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/01/19 00:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/01/19 00:30	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/01/19 00:30	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/01/19 00:30	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/01/19 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*02/01/19 00:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/01/19 00:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Acenaphthene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Acenaphthylene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Fluorene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Phenanthrene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Anthracene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Benzo[a]anthracene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Chrysene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Benzo[a]pyrene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Benzo[b]fluoranthene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Benzo[k]fluoranthene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Benzo[g,h,i]perylene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Indeno[1,2,3-cd]pyrene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Fluoranthene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Pyrene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25
Dibenz(a,h)anthracene	ND		5.7	2.9	ug/L		01/29/19 11:21	01/31/19 23:09	25

Client Sample ID: DG-AG15W
Date Collected: 01/24/19 11:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*38 - 120*	*01/29/19 11:21*	*01/31/19 23:09*	*25*
Nitrobenzene-d5	*398*	*X*	*10 - 120*	*01/29/19 11:21*	*01/31/19 23:09*	*25*
Terphenyl-d14	*0*	*X*	*21 - 120*	*01/29/19 11:21*	*01/31/19 23:09*	*25*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1700**		1000	200	ug/L		01/28/19 09:49	01/28/19 22:37	1
Motor Oil Range Organics [C24-C36]	ND		1000	200	ug/L		01/28/19 09:49	01/28/19 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*01/28/19 09:49*	*01/28/19 22:37*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:09	1
Arsenic	**7.5**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 18:09	1
Barium	**220**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 18:09	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:09	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:09	1
Chromium	**2.3**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 18:09	1
Cobalt	**4.2**		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:09	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 18:09	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:09	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:09	1
Nickel	**4.9**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 18:09	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:09	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:09	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/30/19 12:54	1
Vanadium	**3.1**	**J**	10	0.87	ug/L		01/26/19 10:40	01/29/19 18:09	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 18:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**	**J**	0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/24/19 21:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: TB-W-1.24.2019

Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-5

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/01/19 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/01/19 00:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/01/19 00:55*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/01/19 00:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Acetone	ND		20	10	ug/L			02/01/19 00:55	1
Benzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Bromobenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Bromoform	ND		1.0	0.40	ug/L			02/01/19 00:55	1
Bromomethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/01/19 00:55	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/01/19 00:55	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/19 00:55	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Chloroethane	ND		1.0	0.40	ug/L			02/01/19 00:55	1
Chloroform	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Chloromethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/01/19 00:55	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Dibromomethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/01/19 00:55	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/01/19 00:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: TB-W-1.24.2019
Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/01/19 00:55	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/01/19 00:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/01/19 00:55	1
Naphthalene	ND		1.0	0.40	ug/L			02/01/19 00:55	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Styrene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Toluene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 00:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 00:55	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Trichloroethene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/01/19 00:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/01/19 00:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/01/19 00:55	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/01/19 00:55	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/01/19 00:55	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/01/19 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*02/01/19 00:55*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/01/19 00:55*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: FB-1.24.2019

Date Collected: 01/24/19 12:05
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-6

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**40**	**J**	50	35	ug/L			02/01/19 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/01/19 01:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/01/19 01:20*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/01/19 01:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Acetone	**49**		20	10	ug/L			02/01/19 01:20	1
Benzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Bromobenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Bromoform	ND		1.0	0.40	ug/L			02/01/19 01:20	1
Bromomethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/01/19 01:20	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/01/19 01:20	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/19 01:20	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Chloroethane	ND		1.0	0.40	ug/L			02/01/19 01:20	1
Chloroform	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Chloromethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/01/19 01:20	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Dibromomethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/01/19 01:20	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/01/19 01:20	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: FB-1.24.2019
Date Collected: 01/24/19 12:05
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/01/19 01:20	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/01/19 01:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/01/19 01:20	1
Naphthalene	ND		1.0	0.40	ug/L			02/01/19 01:20	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Styrene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Toluene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 01:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 01:20	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Trichloroethene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/01/19 01:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/01/19 01:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/01/19 01:20	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/01/19 01:20	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/01/19 01:20	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/01/19 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/01/19 01:20*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/01/19 01:20*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DUP-76

Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-7

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/01/19 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/01/19 01:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/01/19 01:46*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/01/19 01:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Acetone	ND		20	10	ug/L			02/01/19 01:46	1
Benzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Bromobenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Bromoform	ND		1.0	0.40	ug/L			02/01/19 01:46	1
Bromomethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/01/19 01:46	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/01/19 01:46	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/19 01:46	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Chloroethane	ND		1.0	0.40	ug/L			02/01/19 01:46	1
Chloroform	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Chloromethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/01/19 01:46	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Dibromomethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/01/19 01:46	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/01/19 01:46	1

Client Sample ID: DUP-76
Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/01/19 01:46	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/01/19 01:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/01/19 01:46	1
Naphthalene	ND		1.0	0.40	ug/L			02/01/19 01:46	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Styrene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Toluene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 01:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/01/19 01:46	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Trichloroethene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/01/19 01:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/01/19 01:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/01/19 01:46	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/01/19 01:46	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/01/19 01:46	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/01/19 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/01/19 01:46*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/01/19 01:46*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Acenaphthene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Fluorene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Phenanthrene	**0.12**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Anthracene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Benzo[a]anthracene	**0.14**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Chrysene	**0.16**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Benzo[a]pyrene	**0.20**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Benzo[b]fluoranthene	**0.19**	**J**	0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Benzo[g,h,i]perylene	**0.22**		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Fluoranthene	**0.36**		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Pyrene	**0.46**		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/29/19 11:21	01/31/19 23:34	1

Client Sample ID: DUP-76
Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*38 - 120*	*01/29/19 11:21*	*01/31/19 23:34*	*1*
Nitrobenzene-d5	*124*	*X*	*10 - 120*	*01/29/19 11:21*	*01/31/19 23:34*	*1*
Terphenyl-d14	*50*		*21 - 120*	*01/29/19 11:21*	*01/31/19 23:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1100**		1000	210	ug/L		01/28/19 09:49	01/28/19 22:59	1
Motor Oil Range Organics [C24-C36]	**500**	**J**	1000	210	ug/L		01/28/19 09:49	01/28/19 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*45 - 120*	*01/28/19 09:49*	*01/28/19 22:59*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:14	1
Arsenic	**4.5**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 18:14	1
Barium	**70**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 18:14	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:14	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:14	1
Chromium	**1.8**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 18:14	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:14	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 18:14	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:14	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:14	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 18:14	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:14	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:14	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	02/07/19 16:14	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 18:14	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 18:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/24/19 21:06	1

Client Sample ID: DG-AI15S-0.5-1 Lab Sample ID: 720-91011-8

Date Collected: 01/24/19 08:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	46	ug/Kg		01/24/19 19:00	01/30/19 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/24/19 19:00*	*01/30/19 15:26*	*1*
4-Bromofluorobenzene (Surr)	*120*		*79 - 120*	*01/24/19 19:00*	*01/30/19 15:26*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*01/24/19 19:00*	*01/30/19 15:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
2-Hexanone	ND		6.6	3.3	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Benzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Bromobenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Bromoform	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Bromomethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Chloroethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Chloroform	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Chloromethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Dibromomethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1

Client Sample ID: DG-AI15S-0.5-1 Lab Sample ID: 720-91011-8

Date Collected: 01/24/19 08:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Naphthalene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Styrene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Toluene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Trichloroethene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Vinyl acetate	ND		5.2	2.6	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Xylenes, Total	ND		1.3	0.85	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
2-Butanone (MEK)	ND		6.6	3.3	ug/Kg		01/24/19 19:00	01/30/19 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.6	ug/Kg		01/24/19 19:00	01/30/19 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*79 - 123*	*01/24/19 19:00*	*01/30/19 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/24/19 19:00*	*01/30/19 15:26*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Acenaphthene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Acenaphthylene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Fluorene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Phenanthrene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Anthracene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Benzo[a]anthracene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Chrysene	**170**	**J**	590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Benzo[a]pyrene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Benzo[b]fluoranthene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Benzo[k]fluoranthene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Benzo[g,h,i]perylene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Indeno[1,2,3-cd]pyrene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Fluoranthene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Pyrene	**110**	**J**	590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
Dibenz(a,h)anthracene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10
2-Methylnaphthalene	ND		590	79	ug/Kg		01/29/19 07:40	02/01/19 19:44	10

Client Sample ID: DG-AI15S-0.5-1

Date Collected: 01/24/19 08:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*29 - 120*	*01/29/19 07:40*	*02/01/19 19:44*	*10*
Terphenyl-d14	*90*		*10 - 120*	*01/29/19 07:40*	*02/01/19 19:44*	*10*
Nitrobenzene-d5	*196*	*X*	*11 - 118*	*01/29/19 07:40*	*02/01/19 19:44*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**370**		10	5.0	mg/Kg		01/28/19 09:36	01/29/19 13:35	1
Motor Oil Range Organics [C24-C36]	**150**		10	5.0	mg/Kg		01/28/19 09:36	01/29/19 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*84*		*40 - 140*	*01/28/19 09:36*	*01/29/19 13:35*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Endrin ketone	ND		4.9	1.9	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Heptachlor	ND		4.9	1.9	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
4,4'-DDT	**6.3**		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
4,4'-DDE	**4.4**	**J**	4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
4,4'-DDD	**2.9**	**J p**	4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
delta-BHC	ND		9.7	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Toxaphene	ND		190	49	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
Chlordane (technical)	ND		49	9.7	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		01/29/19 06:33	01/31/19 18:46	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*28 - 115*	*01/29/19 06:33*	*01/31/19 18:46*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*21 - 117*	*01/29/19 06:33*	*01/31/19 18:46*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:14	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:14	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:14	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:14	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:14	1
Aroclor 1254	**130**		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:14	1
Aroclor 1260	**70**		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:14	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AI15S-0.5-1

Date Collected: 01/24/19 08:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-8

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*01/29/19 06:33*	*01/31/19 17:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J F1	1.7	0.28	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Arsenic	9.2		3.4	0.29	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Barium	69	B F1	1.7	0.24	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Beryllium	0.88		0.34	0.11	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Cadmium	0.37	J	0.42	0.042	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Chromium	34		1.7	0.18	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Cobalt	14		0.68	0.068	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Copper	30	F1 F2	5.1	2.4	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Lead	5.8		1.7	0.36	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Molybdenum	0.34	J	1.7	0.22	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Nickel	32	B	1.7	0.17	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Selenium	2.3	J	3.4	0.51	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Silver	0.26	J	0.85	0.17	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Thallium	ND		1.7	0.49	mg/Kg		02/01/19 08:26	03/16/19 17:11	4
Vanadium	50		1.7	0.23	mg/Kg		02/01/19 08:26	02/04/19 17:57	4
Zinc	50		5.1	2.2	mg/Kg		02/01/19 08:26	02/04/19 17:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.016	0.0023	mg/Kg		01/31/19 20:20	02/01/19 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.1	%			02/01/19 21:20	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AI15S-3.5-4

Date Collected: 01/24/19 08:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	49	ug/Kg		01/24/19 19:00	01/31/19 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/24/19 19:00*	*01/31/19 02:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/24/19 19:00*	*01/31/19 02:08*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/24/19 19:00*	*01/31/19 02:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,1,1-Trichloroethane	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,1,2-Trichloroethane	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,1-Dichloroethane	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,1-Dichloropropene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,2,4-Trichlorobenzene	ND		3.5	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,2-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,2-Dichloroethane	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,2-Dichloropropane	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,3-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,3-Dichloropropane	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,4-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
2-Hexanone	ND		7.1	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
4-Isopropyltoluene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Benzene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Bromoform	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Chlorobenzene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Chloroform	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
cis-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
cis-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Chlorodibromomethane	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Dibromomethane	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Dichlorobromomethane	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1

Client Sample ID: DG-AI15S-3.5-4 **Lab Sample ID: 720-91011-9**
Date Collected: 01/24/19 08:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Ethylbenzene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Isopropylbenzene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Methylene Chloride	ND		7.1	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Methyl tert-butyl ether	**2.2**		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
N-Propylbenzene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Styrene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Tetrachloroethene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Toluene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
trans-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
trans-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Trichloroethene	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Xylenes, Total	ND		1.4	0.92	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
Ethylene Dibromide	ND		0.71	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
2-Butanone (MEK)	ND		7.1	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:08	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		01/24/19 19:00	01/31/19 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/24/19 19:00*	*01/31/19 02:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*01/24/19 19:00*	*01/31/19 02:08*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Acenaphthene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Acenaphthylene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Fluorene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Phenanthrene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Anthracene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Benzo[a]anthracene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Chrysene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Benzo[a]pyrene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Benzo[b]fluoranthene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Benzo[k]fluoranthene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Benzo[g,h,i]perylene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Indeno[1,2,3-cd]pyrene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Fluoranthene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Pyrene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
Dibenz(a,h)anthracene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1
2-Methylnaphthalene	ND		29	3.9	ug/Kg		01/29/19 07:40	02/01/19 20:07	1

Client Sample ID: DG-AI15S-3.5-4 Lab Sample ID: 720-91011-9

Date Collected: 01/24/19 08:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*29 - 120*	*01/29/19 07:40*	*02/01/19 20:07*	*1*
Terphenyl-d14	*92*		*10 - 120*	*01/29/19 07:40*	*02/01/19 20:07*	*1*
Nitrobenzene-d5	*97*		*11 - 118*	*01/29/19 07:40*	*02/01/19 20:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11	B	9.9	5.0	mg/Kg		02/01/19 13:30	02/02/19 08:44	1
Motor Oil Range Organics [C24-C36]	12	B	9.9	5.0	mg/Kg		02/01/19 13:30	02/02/19 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*93*		*40 - 140*	*02/01/19 13:30*	*02/02/19 08:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:10	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*28 - 115*	*01/29/19 06:33*	*01/30/19 15:10*	*1*
DCB Decachlorobiphenyl (Surr)	*36*		*21 - 117*	*01/29/19 06:33*	*01/30/19 15:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 15:34	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 15:34	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 15:34	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 15:34	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 15:34	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 15:34	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 15:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AI15S-3.5-4

Date Collected: 01/24/19 08:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-9

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*01/29/19 06:33*	*01/30/19 15:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	2.0	0.33	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Arsenic	8.3		3.9	0.33	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Barium	93	B	2.0	0.28	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Beryllium	0.28	J	0.39	0.13	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Cadmium	0.33	J	0.49	0.049	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Chromium	34		2.0	0.21	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Cobalt	5.0		0.78	0.078	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Copper	20		5.9	2.8	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Lead	8.1		2.0	0.41	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Molybdenum	0.40	J	2.0	0.25	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Nickel	26	B	2.0	0.20	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Selenium	1.8	J	3.9	0.59	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Silver	0.21	J	0.98	0.20	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Thallium	ND		2.0	0.57	mg/Kg		02/01/19 08:26	03/16/19 17:16	4
Vanadium	45		2.0	0.27	mg/Kg		02/01/19 08:26	02/04/19 18:12	4
Zinc	47		5.9	2.5	mg/Kg		02/01/19 08:26	02/04/19 18:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.015	0.0021	mg/Kg		01/31/19 20:20	02/01/19 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.7		0.1	0.1	%			02/05/19 17:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DUP-112

Date Collected: 01/24/19 08:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		70	49	ug/Kg		01/24/19 19:00	01/31/19 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/24/19 19:00*	*01/31/19 02:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/24/19 19:00*	*01/31/19 02:33*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/24/19 19:00*	*01/31/19 02:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.0	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,1,1-Trichloroethane	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,1,2-Trichloroethane	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,1-Dichloroethane	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,1-Dichloropropene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,2,3-Trichlorobenzene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,2,4-Trichlorobenzene	ND		3.5	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,2,4-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,2-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,2-Dichloroethane	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,2-Dichloropropane	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,3,5-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,3-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,3-Dichloropropane	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,4-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
2,2-Dichloropropane	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
2-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
2-Hexanone	ND		7.0	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
4-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
4-Isopropyltoluene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Benzene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Bromobenzene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Bromoform	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Bromomethane	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Carbon disulfide	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Chlorobenzene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Chlorobromomethane	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Chloroethane	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Chloroform	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Chloromethane	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
cis-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
cis-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Chlorodibromomethane	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Dibromomethane	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Dichlorobromomethane	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1

Client Sample ID: DUP-112 **Lab Sample ID: 720-91011-10**
Date Collected: 01/24/19 08:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Ethylbenzene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Hexachlorobutadiene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Isopropylbenzene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Methylene Chloride	ND		7.0	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Methyl tert-butyl ether	**2.4**		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Naphthalene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
n-Butylbenzene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
N-Propylbenzene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
sec-Butylbenzene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Styrene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
tert-Butylbenzene	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Tetrachloroethene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Toluene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
trans-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
trans-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Trichloroethene	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Trichlorofluoromethane	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.0	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Vinyl chloride	ND		1.4	0.70	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Xylenes, Total	ND		1.4	0.91	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
Ethylene Dibromide	ND		0.70	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
2-Butanone (MEK)	ND		7.0	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:33	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		01/24/19 19:00	01/31/19 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/24/19 19:00*	*01/31/19 02:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/24/19 19:00*	*01/31/19 02:33*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Acenaphthene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Acenaphthylene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Fluorene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Phenanthrene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Anthracene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Benzo[a]anthracene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Chrysene	**4.9**	**J**	30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Benzo[a]pyrene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Benzo[b]fluoranthene	**5.3**	**J**	30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Benzo[k]fluoranthene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Benzo[g,h,i]perylene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Indeno[1,2,3-cd]pyrene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Fluoranthene	**4.9**	**J**	30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Pyrene	**8.2**	**J**	30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
Dibenz(a,h)anthracene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1
2-Methylnaphthalene	ND		30	3.9	ug/Kg		01/29/19 07:40	01/29/19 16:30	1

Client Sample ID: DUP-112

Date Collected: 01/24/19 08:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*103*		*29 - 120*	*01/29/19 07:40*	*01/29/19 16:30*	*1*
Terphenyl-d14	*102*		*10 - 120*	*01/29/19 07:40*	*01/29/19 16:30*	*1*
Nitrobenzene-d5	*89*		*11 - 118*	*01/29/19 07:40*	*01/29/19 16:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 15:44	1
Motor Oil Range Organics [C24-C36]	**17**		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*40 - 140*	*01/28/19 09:36*	*01/29/19 15:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
Chlordane (technical)	ND		50	9.9	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:25	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*28 - 115*	*01/29/19 06:33*	*01/30/19 15:25*	*1*
DCB Decachlorobiphenyl (Surr)	*46*		*21 - 117*	*01/29/19 06:33*	*01/30/19 15:25*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 15:47	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 15:47	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 15:47	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 15:47	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 15:47	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 15:47	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 15:47	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DUP-112

Date Collected: 01/24/19 08:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*01/29/19 06:33*	*01/30/19 15:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.7	0.29	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Arsenic	5.3		3.5	0.30	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Barium	74	B	1.7	0.25	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Beryllium	0.40		0.35	0.11	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Cadmium	0.18	J	0.43	0.043	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Chromium	36		1.7	0.18	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Cobalt	9.4		0.70	0.070	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Copper	20		5.2	2.5	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Lead	16		1.7	0.37	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Molybdenum	0.25	J	1.7	0.22	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Nickel	24	B	1.7	0.18	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Selenium	1.1	J	3.5	0.52	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Silver	ND		0.87	0.18	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Thallium	ND		1.7	0.50	mg/Kg		02/01/19 08:26	03/16/19 17:20	4
Vanadium	42		1.7	0.24	mg/Kg		02/01/19 08:26	02/04/19 18:17	4
Zinc	45		5.2	2.2	mg/Kg		02/01/19 08:26	02/04/19 18:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.014	0.0021	mg/Kg		01/31/19 20:20	02/01/19 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.5		0.1	0.1	%			02/05/19 17:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AJ17S-0.5-1

Date Collected: 01/24/19 09:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	49	ug/Kg		01/24/19 19:00	01/31/19 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/24/19 19:00*	*01/31/19 02:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/24/19 19:00*	*01/31/19 02:58*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/24/19 19:00*	*01/31/19 02:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,1,1-Trichloroethane	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,1,2-Trichloroethane	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,1-Dichloroethane	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,1-Dichloropropene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,2,4-Trichlorobenzene	ND		3.5	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,2-Dichlorobenzene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,2-Dichloroethane	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,2-Dichloropropane	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,3-Dichlorobenzene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,3-Dichloropropane	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,4-Dichlorobenzene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
2-Hexanone	ND		6.9	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
4-Isopropyltoluene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Benzene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Bromoform	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Chlorobenzene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Chloroform	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
cis-1,2-Dichloroethene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
cis-1,3-Dichloropropene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Chlorodibromomethane	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Dibromomethane	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Dichlorobromomethane	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1

Client Sample ID: DG-AJ17S-0.5-1 Lab Sample ID: 720-91011-11

Date Collected: 01/24/19 09:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Ethylbenzene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Isopropylbenzene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Methylene Chloride	ND		6.9	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
N-Propylbenzene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Styrene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Tetrachloroethene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Toluene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
trans-1,2-Dichloroethene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
trans-1,3-Dichloropropene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Trichloroethene	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
Ethylene Dibromide	ND		0.69	0.35	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
2-Butanone (MEK)	ND		6.9	3.5	ug/Kg		01/24/19 19:00	01/31/19 02:58	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.7	ug/Kg		01/24/19 19:00	01/31/19 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/24/19 19:00*	*01/31/19 02:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*	*01/24/19 19:00*	*01/31/19 02:58*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Acenaphthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Acenaphthylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Fluorene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Phenanthrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Chrysene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 16:55	1

Client Sample ID: DG-AJ17S-0.5-1 Lab Sample ID: 720-91011-11

Date Collected: 01/24/19 09:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*99*		*29 - 120*	*01/29/19 07:40*	*01/29/19 16:55*	*1*
Terphenyl-d14	*101*		*10 - 120*	*01/29/19 07:40*	*01/29/19 16:55*	*1*
Nitrobenzene-d5	*96*		*11 - 118*	*01/29/19 07:40*	*01/29/19 16:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.4**		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 16:05	1
Motor Oil Range Organics [C24-C36]	**11**		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*56*		*40 - 140*	*01/28/19 09:36*	*01/29/19 16:05*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:40	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*28 - 115*	*01/29/19 06:33*	*01/30/19 15:40*	*1*
DCB Decachlorobiphenyl (Surr)	*37*		*21 - 117*	*01/29/19 06:33*	*01/30/19 15:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:01	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:01	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:01	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:01	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:01	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:01	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AJ17S-0.5-1

Date Collected: 01/24/19 09:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*01/29/19 06:33*	*01/30/19 16:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	J	1.9	0.32	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Arsenic	8.3		3.8	0.33	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Barium	30	B	1.9	0.27	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Beryllium	0.52		0.38	0.13	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Cadmium	0.20	J	0.48	0.048	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Chromium	38		1.9	0.20	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Cobalt	7.5		0.77	0.077	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Copper	19		5.8	2.7	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Lead	12		1.9	0.40	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Molybdenum	ND		1.9	0.25	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Nickel	30	B	1.9	0.20	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Selenium	0.86	J	3.8	0.58	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Silver	ND		0.96	0.19	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Thallium	ND		1.9	0.56	mg/Kg		02/01/19 08:26	03/16/19 17:25	4
Vanadium	45		1.9	0.26	mg/Kg		02/01/19 08:26	02/04/19 18:21	4
Zinc	71		5.8	2.4	mg/Kg		02/01/19 08:26	02/04/19 18:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.016	0.0024	mg/Kg		01/31/19 20:20	02/01/19 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		0.1	0.1	%			02/05/19 17:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AJ17S-3.5-4

Date Collected: 01/24/19 09:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-12

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		73	51	ug/Kg		01/24/19 19:00	01/31/19 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/24/19 19:00*	*01/31/19 03:22*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/24/19 19:00*	*01/31/19 03:22*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/24/19 19:00*	*01/31/19 03:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
2-Hexanone	ND		7.3	3.6	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
4-Isopropyltoluene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Benzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Bromoform	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Chloroform	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Dibromomethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1

Client Sample ID: DG-AJ17S-3.5-4 **Lab Sample ID: 720-91011-12**
Date Collected: 01/24/19 09:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Styrene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Tetrachloroethene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Toluene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Trichloroethene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Xylenes, Total	ND		1.5	0.94	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		01/24/19 19:00	01/31/19 03:22	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/24/19 19:00	01/31/19 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/24/19 19:00*	*01/31/19 03:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*01/24/19 19:00*	*01/31/19 03:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Acenaphthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Acenaphthylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Fluorene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Phenanthrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Chrysene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:19	1

Client Sample ID: DG-AJ17S-3.5-4 Lab Sample ID: 720-91011-12

Date Collected: 01/24/19 09:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*29 - 120*	*01/29/19 07:40*	*01/29/19 17:19*	*1*
Terphenyl-d14	*94*		*10 - 120*	*01/29/19 07:40*	*01/29/19 17:19*	*1*
Nitrobenzene-d5	*85*		*11 - 118*	*01/29/19 07:40*	*01/29/19 17:19*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 18:57	1
Motor Oil Range Organics [C24-C36]	**3.1**	**J**	5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*60*		*40 - 140*	*01/28/19 09:36*	*01/29/19 18:57*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 15:55	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*28 - 115*	*01/29/19 06:33*	*01/30/19 15:55*	*1*
DCB Decachlorobiphenyl (Surr)	*41*		*21 - 117*	*01/29/19 06:33*	*01/30/19 15:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:14	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:14	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:14	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:14	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:14	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:14	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:14	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AJ17S-3.5-4

Date Collected: 01/24/19 09:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/29/19 06:33*	*01/30/19 16:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.5	0.25	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Arsenic	7.6		3.1	0.26	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Barium	54	B	1.5	0.22	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Beryllium	0.43		0.31	0.099	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Cadmium	0.26	J	0.38	0.038	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Chromium	49		1.5	0.16	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Cobalt	9.2		0.61	0.061	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Copper	18		4.6	2.2	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Lead	6.9		1.5	0.32	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Molybdenum	0.22	J	1.5	0.20	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Nickel	30	B	1.5	0.16	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Selenium	1.5	J	3.1	0.46	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Silver	ND		0.76	0.15	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Thallium	ND		1.5	0.44	mg/Kg		02/01/19 08:26	03/16/19 17:30	4
Vanadium	52		1.5	0.21	mg/Kg		02/01/19 08:26	02/04/19 18:26	4
Zinc	60		4.6	1.9	mg/Kg		02/01/19 08:26	02/04/19 18:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.016	0.0023	mg/Kg		01/31/19 20:20	02/01/19 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.4		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AJ17S-9.5-10

Date Collected: 01/24/19 09:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	46	ug/Kg		01/24/19 19:00	01/31/19 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/24/19 19:00*	*01/31/19 03:47*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/24/19 19:00*	*01/31/19 03:47*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/24/19 19:00*	*01/31/19 03:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
2-Hexanone	ND		6.6	3.3	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Benzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Bromobenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Bromoform	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Bromomethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Chloroethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Chloroform	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Chloromethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Dibromomethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1

Client Sample ID: DG-AJ17S-9.5-10 **Lab Sample ID: 720-91011-13**
Date Collected: 01/24/19 09:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Naphthalene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Styrene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Toluene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Trichloroethene	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Vinyl acetate	ND		5.3	2.7	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Xylenes, Total	ND		1.3	0.86	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
2-Butanone (MEK)	ND		6.6	3.3	ug/Kg		01/24/19 19:00	01/31/19 03:47	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/24/19 19:00	01/31/19 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/24/19 19:00*	*01/31/19 03:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*	*01/24/19 19:00*	*01/31/19 03:47*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Acenaphthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Acenaphthylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Fluorene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Phenanthrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Chrysene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 17:43	1

Client Sample ID: DG-AJ17S-9.5-10 Lab Sample ID: 720-91011-13

Date Collected: 01/24/19 09:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*29 - 120*	*01/29/19 07:40*	*01/29/19 17:43*	*1*
Terphenyl-d14	*100*		*10 - 120*	*01/29/19 07:40*	*01/29/19 17:43*	*1*
Nitrobenzene-d5	*94*		*11 - 118*	*01/29/19 07:40*	*01/29/19 17:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 19:18	1
Motor Oil Range Organics [C24-C36]	ND		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*55*		*40 - 140*	*01/28/19 09:36*	*01/29/19 19:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
delta-BHC	ND		10	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
Chlordane (technical)	ND		50	10	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:10	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*28 - 115*	*01/29/19 06:33*	*01/30/19 16:10*	*1*
DCB Decachlorobiphenyl (Surr)	*39*		*21 - 117*	*01/29/19 06:33*	*01/30/19 16:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:28	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:28	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:28	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:28	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:28	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:28	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:28	1

Client Sample ID: DG-AJ17S-9.5-10 Lab Sample ID: 720-91011-13

Date Collected: 01/24/19 09:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/29/19 06:33*	*01/30/19 16:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.4	0.23	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Arsenic	5.1		2.8	0.24	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Barium	90	B	1.4	0.20	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Beryllium	0.41		0.28	0.092	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Cadmium	0.22	J	0.35	0.035	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Chromium	67		1.4	0.15	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Cobalt	9.0		0.56	0.056	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Copper	16		4.2	2.0	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Lead	5.5		1.4	0.30	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Molybdenum	ND		1.4	0.18	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Nickel	32	B	1.4	0.14	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Selenium	1.1	J	2.8	0.42	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Silver	ND		0.70	0.14	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Thallium	ND		1.4	0.41	mg/Kg		02/01/19 08:26	03/16/19 17:35	4
Vanadium	48		1.4	0.19	mg/Kg		02/01/19 08:26	02/04/19 18:31	4
Zinc	52		4.2	1.8	mg/Kg		02/01/19 08:26	02/04/19 18:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.016	0.0024	mg/Kg		01/31/19 20:20	02/01/19 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.3		0.1	0.1	%			02/05/19 17:56	1

Client Sample ID: DG-AH17S-0.5-1 Lab Sample ID: 720-91011-14

Date Collected: 01/24/19 10:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**430**		67	47	ug/Kg		01/24/19 19:00	01/31/19 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/24/19 19:00*	*01/31/19 04:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/24/19 19:00*	*01/31/19 04:12*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/24/19 19:00*	*01/31/19 04:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.7	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,1,1-Trichloroethane	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,1,2-Trichloroethane	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,1-Dichloroethane	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,1-Dichloropropene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,2,3-Trichlorobenzene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,2,4-Trichlorobenzene	ND		3.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,2,4-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,2-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,2-Dichloroethane	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,2-Dichloropropane	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,3,5-Trimethylbenzene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,3-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,3-Dichloropropane	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,4-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
2,2-Dichloropropane	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
2-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
2-Hexanone	ND		6.7	3.3	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
4-Chlorotoluene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
4-Isopropyltoluene	**130**		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Benzene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Bromobenzene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Bromoform	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Bromomethane	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Carbon disulfide	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Chlorobenzene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Chlorobromomethane	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Chloroethane	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Chloroform	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Chloromethane	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
cis-1,2-Dichloroethene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
cis-1,3-Dichloropropene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Chlorodibromomethane	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Dibromomethane	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Dichlorobromomethane	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1

Client Sample ID: DG-AH17S-0.5-1 **Lab Sample ID: 720-91011-14**
Date Collected: 01/24/19 10:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Ethylbenzene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Hexachlorobutadiene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Isopropylbenzene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Methylene Chloride	ND		6.7	3.3	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Methyl tert-butyl ether	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Naphthalene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
n-Butylbenzene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
N-Propylbenzene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
sec-Butylbenzene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Styrene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
tert-Butylbenzene	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Tetrachloroethene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Toluene	**0.33**	**J**	0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
trans-1,2-Dichloroethene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
trans-1,3-Dichloropropene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Trichloroethene	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Trichlorofluoromethane	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	3.3	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Vinyl acetate	ND		5.3	2.7	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Vinyl chloride	ND		1.3	0.67	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Xylenes, Total	ND		1.3	0.87	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
Ethylene Dibromide	ND		0.67	0.33	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
2-Butanone (MEK)	ND		6.7	3.3	ug/Kg		01/24/19 19:00	01/31/19 04:12	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/24/19 19:00	01/31/19 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/24/19 19:00*	*01/31/19 04:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/24/19 19:00*	*01/31/19 04:12*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Acenaphthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Acenaphthylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Fluorene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Phenanthrene	**5.6**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Benzo[a]anthracene	**5.3**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Chrysene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Benzo[a]pyrene	**6.9**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Benzo[b]fluoranthene	**12**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Benzo[k]fluoranthene	**4.7**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Fluoranthene	**9.0**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Pyrene	**11**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 18:08	1

Client Sample ID: DG-AH17S-0.5-1

Date Collected: 01/24/19 10:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*105*		*29 - 120*	*01/29/19 07:40*	*01/29/19 18:08*	*1*
Terphenyl-d14	*107*		*10 - 120*	*01/29/19 07:40*	*01/29/19 18:08*	*1*
Nitrobenzene-d5	*103*		*11 - 118*	*01/29/19 07:40*	*01/29/19 18:08*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.6**	**J**	5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 16:27	1
Motor Oil Range Organics [C24-C36]	**5.2**		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*40 - 140*	*01/28/19 09:36*	*01/29/19 16:27*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:26	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*		*28 - 115*	*01/29/19 06:33*	*01/30/19 16:26*	*1*
DCB Decachlorobiphenyl (Surr)	*33*		*21 - 117*	*01/29/19 06:33*	*01/30/19 16:26*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:41	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:41	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:41	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:41	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:41	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:41	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 16:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AH17S-0.5-1

Date Collected: 01/24/19 10:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*01/29/19 06:33*	*01/30/19 16:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	1.7	0.29	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Arsenic	5.1		3.5	0.30	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Barium	35	B	1.7	0.25	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Beryllium	0.65		0.35	0.11	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Cadmium	0.22	J	0.43	0.043	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Chromium	26		1.7	0.18	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Cobalt	12		0.70	0.070	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Copper	15		5.2	2.5	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Lead	10		1.7	0.37	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Molybdenum	ND		1.7	0.22	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Nickel	25	B	1.7	0.18	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Selenium	1.1	J	3.5	0.52	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Silver	ND		0.87	0.18	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Thallium	ND		1.7	0.50	mg/Kg		02/01/19 08:26	03/16/19 17:39	4
Vanadium	34		1.7	0.24	mg/Kg		02/01/19 08:26	02/04/19 18:36	4
Zinc	75		5.2	2.2	mg/Kg		02/01/19 08:26	02/04/19 18:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.016	0.0023	mg/Kg		01/31/19 20:20	02/01/19 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.0		0.1	0.1	%			02/05/19 17:56	1

Client Sample ID: DG-AG15S-0.5-1 Lab Sample ID: 720-91011-15

Date Collected: 01/24/19 11:15 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		73	51	ug/Kg		01/24/19 19:00	01/31/19 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/24/19 19:00*	*01/31/19 04:36*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*01/24/19 19:00*	*01/31/19 04:36*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/24/19 19:00*	*01/31/19 04:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
2-Hexanone	ND		7.3	3.6	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
4-Isopropyltoluene	**0.46**	**J**	0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Benzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Bromoform	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Chloroform	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Dibromomethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1

Client Sample ID: DG-AG15S-0.5-1 Lab Sample ID: 720-91011-15

Date Collected: 01/24/19 11:15 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Styrene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Tetrachloroethene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Toluene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Trichloroethene	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Xylenes, Total	ND		1.5	0.94	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		01/24/19 19:00	01/31/19 04:36	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/24/19 19:00	01/31/19 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/24/19 19:00*	*01/31/19 04:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*01/24/19 19:00*	*01/31/19 04:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Acenaphthene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Acenaphthylene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Fluorene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Phenanthrene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Anthracene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Benzo[a]anthracene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Chrysene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Benzo[a]pyrene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Benzo[b]fluoranthene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Benzo[k]fluoranthene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Benzo[g,h,i]perylene	**20**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Indeno[1,2,3-cd]pyrene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Fluoranthene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Pyrene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
Dibenz(a,h)anthracene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2
2-Methylnaphthalene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 20:30	2

Client Sample ID: DG-AG15S-0.5-1 Lab Sample ID: 720-91011-15

Date Collected: 01/24/19 11:15 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*29 - 120*	*01/29/19 07:40*	*02/01/19 20:30*	*2*
Terphenyl-d14	*91*		*10 - 120*	*01/29/19 07:40*	*02/01/19 20:30*	*2*
Nitrobenzene-d5	*122*	*X*	*11 - 118*	*01/29/19 07:40*	*02/01/19 20:30*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.7**		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 16:48	1
Motor Oil Range Organics [C24-C36]	**11**		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*40 - 140*	*01/28/19 09:36*	*01/29/19 16:48*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
delta-BHC	ND		10	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
Chlordane (technical)	**35**	**J**	50	10	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
alpha-Chlordane	**2.2**	**J p**	5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 19:26	1
gamma-Chlordane	**3.5**	**J**	5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*28 - 115*	*01/29/19 06:33*	*01/30/19 19:26*	*1*
DCB Decachlorobiphenyl (Surr)	*34*		*21 - 117*	*01/29/19 06:33*	*01/30/19 19:26*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:55	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:55	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:55	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:55	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:55	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:55	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 16:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AG15S-0.5-1

Date Collected: 01/24/19 11:15
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-15

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*01/29/19 06:33*	*01/30/19 16:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J**	1.3	0.21	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Arsenic	**3.1**		2.5	0.21	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Barium	**23**	**B**	1.3	0.18	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Beryllium	**0.090**	**J**	0.25	0.081	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Cadmium	**0.13**	**J**	0.31	0.031	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Chromium	**24**		1.3	0.13	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Cobalt	**3.8**		0.50	0.050	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Copper	**8.1**		3.8	1.8	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Lead	**28**		1.3	0.26	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Molybdenum	ND		1.3	0.16	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Nickel	**20**	**B**	1.3	0.13	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Selenium	ND		2.5	0.38	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Silver	ND		0.63	0.13	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Thallium	ND		1.3	0.36	mg/Kg		02/01/19 08:26	03/16/19 17:44	4
Vanadium	**22**		1.3	0.17	mg/Kg		02/01/19 08:26	02/04/19 18:41	4
Zinc	**30**		3.8	1.6	mg/Kg		02/01/19 08:26	02/04/19 18:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.065**		0.015	0.0022	mg/Kg		01/31/19 20:20	02/01/19 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.1**		0.1	0.1	%			02/05/19 17:56	1

Client Sample ID: DG-AG15S-3.5-4 Lab Sample ID: 720-91011-16

Date Collected: 01/24/19 11:15 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		64	45	ug/Kg		01/24/19 19:00	01/31/19 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/24/19 19:00*	*01/31/19 05:01*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/24/19 19:00*	*01/31/19 05:01*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/24/19 19:00*	*01/31/19 05:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.4	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,1,1-Trichloroethane	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,1,2-Trichloroethane	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,1-Dichloroethane	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,1-Dichloropropene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,2,3-Trichlorobenzene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,2,4-Trichlorobenzene	ND		3.2	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,2,4-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,2-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,2-Dichloroethane	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,2-Dichloropropane	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,3,5-Trimethylbenzene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,3-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,3-Dichloropropane	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,4-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
2,2-Dichloropropane	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
2-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
2-Hexanone	ND		6.4	3.2	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
4-Chlorotoluene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
4-Isopropyltoluene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Benzene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Bromobenzene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Bromoform	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Bromomethane	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Carbon disulfide	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Chlorobenzene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Chlorobromomethane	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Chloroethane	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Chloroform	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Chloromethane	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
cis-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
cis-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Chlorodibromomethane	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Dibromomethane	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Dichlorobromomethane	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1

Client Sample ID: DG-AG15S-3.5-4 Lab Sample ID: 720-91011-16

Date Collected: 01/24/19 11:15 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Ethylbenzene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Hexachlorobutadiene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Isopropylbenzene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Methylene Chloride	ND		6.4	3.2	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Methyl tert-butyl ether	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Naphthalene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
n-Butylbenzene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
N-Propylbenzene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
sec-Butylbenzene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Styrene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
tert-Butylbenzene	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Tetrachloroethene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Toluene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
trans-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
trans-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Trichloroethene	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Trichlorofluoromethane	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	3.2	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Vinyl acetate	ND		5.1	2.5	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Vinyl chloride	ND		1.3	0.64	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Xylenes, Total	ND		1.3	0.83	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
Ethylene Dibromide	ND		0.64	0.32	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
2-Butanone (MEK)	**4.2**	**J**	6.4	3.2	ug/Kg		01/24/19 19:00	01/31/19 05:01	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/24/19 19:00	01/31/19 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/24/19 19:00*	*01/31/19 05:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*	*01/24/19 19:00*	*01/31/19 05:01*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Acenaphthene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Acenaphthylene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Fluorene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Phenanthrene	**40**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Anthracene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Benzo[a]anthracene	**47**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Chrysene	**59**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Benzo[a]pyrene	**43**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Benzo[b]fluoranthene	**59**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Benzo[k]fluoranthene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Benzo[g,h,i]perylene	**40**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Indeno[1,2,3-cd]pyrene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Fluoranthene	**67**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Pyrene	**80**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
Dibenz(a,h)anthracene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5
2-Methylnaphthalene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 20:53	5

Client Sample ID: DG-AG15S-3.5-4 — Lab Sample ID: 720-91011-16

Date Collected: 01/24/19 11:15 — **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	86		29 - 120	01/29/19 07:40	02/01/19 20:53	5
Terphenyl-d14	94		10 - 120	01/29/19 07:40	02/01/19 20:53	5
Nitrobenzene-d5	133	X	11 - 118	01/29/19 07:40	02/01/19 20:53	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	99		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 17:31	1
Motor Oil Range Organics [C24-C36]	39		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	64		40 - 140	01/28/19 09:36	01/29/19 17:31	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
Chlordane (technical)	ND		50	9.9	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/30/19 16:56	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/30/19 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		28 - 115	01/29/19 06:33	01/30/19 16:56	1
DCB Decachlorobiphenyl (Surr)	35		21 - 117	01/29/19 06:33	01/30/19 16:56	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 17:09	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 17:09	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 17:09	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 17:09	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 17:09	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 17:09	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 17:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AG15S-3.5-4

Date Collected: 01/24/19 11:15
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*01/29/19 06:33*	*01/30/19 17:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.7	0.28	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Arsenic	7.0		3.4	0.29	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Barium	110	B	1.7	0.24	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Beryllium	0.41		0.34	0.11	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Cadmium	0.55		0.42	0.042	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Chromium	30		1.7	0.18	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Cobalt	8.2		0.68	0.068	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Copper	32		5.1	2.4	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Lead	88		1.7	0.36	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Molybdenum	0.29	J	1.7	0.22	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Nickel	28	B	1.7	0.17	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Selenium	ND		3.4	0.51	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Silver	ND		0.85	0.17	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Thallium	ND		1.7	0.49	mg/Kg		02/01/19 08:26	03/16/19 17:49	4
Vanadium	40		1.7	0.23	mg/Kg		02/01/19 08:26	02/04/19 18:45	4
Zinc	150		5.1	2.2	mg/Kg		02/01/19 08:26	02/04/19 18:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.015	0.0022	mg/Kg		01/31/19 20:20	02/01/19 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1	0.1	%			02/05/19 17:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AG15S-8.5-9

Date Collected: 01/24/19 11:15
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-17

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**230**		86	60	ug/Kg		01/24/19 19:00	01/31/19 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/24/19 19:00*	*01/31/19 09:49*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/24/19 19:00*	*01/31/19 09:49*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/24/19 19:00*	*01/31/19 09:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.6	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,1,1-Trichloroethane	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,1,2-Trichloroethane	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,1-Dichloroethane	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,1-Dichloropropene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,2,3-Trichlorobenzene	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,2,4-Trichlorobenzene	ND		4.3	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,2,4-Trimethylbenzene	**2.9**		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,2-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,2-Dichloroethane	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,2-Dichloropropane	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,3,5-Trimethylbenzene	**1.0**	**J**	1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,3-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,3-Dichloropropane	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,4-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
2,2-Dichloropropane	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
2-Chlorotoluene	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
2-Hexanone	ND		8.6	4.3	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
4-Chlorotoluene	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
4-Isopropyltoluene	**0.44**	**J**	0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Benzene	**15**		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Bromobenzene	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Bromoform	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Bromomethane	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Carbon disulfide	**3.7**		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Chlorobenzene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Chlorobromomethane	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Chloroethane	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Chloroform	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Chloromethane	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
cis-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
cis-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Chlorodibromomethane	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Dibromomethane	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Dichlorobromomethane	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1

Client Sample ID: DG-AG15S-8.5-9 Lab Sample ID: 720-91011-17

Date Collected: 01/24/19 11:15 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Ethylbenzene	**2.1**		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Hexachlorobutadiene	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Isopropylbenzene	**3.4**		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Methylene Chloride	ND		8.6	4.3	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Methyl tert-butyl ether	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Naphthalene	**0.87**	**J**	1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
n-Butylbenzene	**2.4**		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
N-Propylbenzene	**12**		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
sec-Butylbenzene	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Styrene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
tert-Butylbenzene	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Tetrachloroethene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Toluene	**1.1**		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
trans-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
trans-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Trichloroethene	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Trichlorofluoromethane	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.6	4.3	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Vinyl acetate	ND		6.9	3.4	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Vinyl chloride	ND		1.7	0.86	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Xylenes, Total	**3.6**		1.7	1.1	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
Ethylene Dibromide	ND		0.86	0.43	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
2-Butanone (MEK)	**27**		8.6	4.3	ug/Kg		01/24/19 19:00	01/31/19 09:49	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		01/24/19 19:00	01/31/19 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/24/19 19:00*	*01/31/19 09:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/24/19 19:00*	*01/31/19 09:49*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Acenaphthene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Acenaphthylene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Fluorene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Phenanthrene	**47**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Anthracene	**20**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Benzo[a]anthracene	**76**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Chrysene	**98**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Benzo[a]pyrene	**140**		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Benzo[b]fluoranthene	**170**		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Benzo[k]fluoranthene	**39**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Benzo[g,h,i]perylene	**140**		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Indeno[1,2,3-cd]pyrene	**150**		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Fluoranthene	**160**		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Pyrene	**150**		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
Dibenz(a,h)anthracene	**16**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4
2-Methylnaphthalene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:16	4

Client Sample ID: DG-AG15S-8.5-9

Date Collected: 01/24/19 11:15
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*29 - 120*	*01/29/19 07:40*	*02/01/19 21:16*	*4*
Terphenyl-d14	*77*		*10 - 120*	*01/29/19 07:40*	*02/01/19 21:16*	*4*
Nitrobenzene-d5	*135*	*X*	*11 - 118*	*01/29/19 07:40*	*02/01/19 21:16*	*4*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**27**		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 17:52	1
Motor Oil Range Organics [C24-C36]	**5.5**		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*78*		*40 - 140*	*01/28/19 09:36*	*01/29/19 17:52*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:15	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*28 - 115*	*01/29/19 06:33*	*01/31/19 19:15*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*21 - 117*	*01/29/19 06:33*	*01/31/19 19:15*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:42	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:42	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:42	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:42	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:42	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:42	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 17:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AG15S-8.5-9

Date Collected: 01/24/19 11:15
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-17

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	47		45 - 120	01/29/19 06:33	01/31/19 17:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	2.0	0.33	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Arsenic	5.1		3.9	0.33	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Barium	73	B	2.0	0.28	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Beryllium	0.24	J	0.39	0.13	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Cadmium	1.2		0.49	0.049	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Chromium	31		2.0	0.21	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Cobalt	8.8		0.78	0.078	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Copper	28		5.9	2.8	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Lead	70		2.0	0.41	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Molybdenum	ND		2.0	0.25	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Nickel	44	B	2.0	0.20	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Selenium	1.2	J	3.9	0.59	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Silver	0.41	J	0.98	0.20	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Thallium	ND		2.0	0.57	mg/Kg		02/01/19 08:26	03/16/19 17:54	4
Vanadium	28		2.0	0.27	mg/Kg		02/01/19 08:26	02/04/19 18:50	4
Zinc	250		5.9	2.5	mg/Kg		02/01/19 08:26	02/04/19 18:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.016	0.0024	mg/Kg		01/31/19 20:20	02/01/19 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.2		0.1	0.1	%			02/05/19 17:56	1

Client Sample ID: DG-AD17S-0.5-1 Lab Sample ID: 720-91011-18

Date Collected: 01/24/19 13:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		84	59	ug/Kg		01/24/19 19:00	01/31/19 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/24/19 19:00*	*01/31/19 05:50*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/24/19 19:00*	*01/31/19 05:50*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/24/19 19:00*	*01/31/19 05:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.4	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,1,1-Trichloroethane	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,1,2-Trichloroethane	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,1-Dichloroethane	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,1-Dichloropropene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,2,3-Trichlorobenzene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,2,4-Trichlorobenzene	ND		4.2	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,2,4-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,2-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,2-Dichloroethane	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,2-Dichloropropane	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,3,5-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,3-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,3-Dichloropropane	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,4-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
2,2-Dichloropropane	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
2-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
2-Hexanone	ND		8.4	4.2	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
4-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
4-Isopropyltoluene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Benzene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Bromobenzene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Bromoform	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Bromomethane	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Carbon disulfide	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Chlorobenzene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Chlorobromomethane	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Chloroethane	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Chloroform	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Chloromethane	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
cis-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
cis-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Chlorodibromomethane	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Dibromomethane	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Dichlorobromomethane	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1

Client Sample ID: DG-AD17S-0.5-1 Lab Sample ID: 720-91011-18

Date Collected: 01/24/19 13:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Ethylbenzene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Hexachlorobutadiene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Isopropylbenzene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Methylene Chloride	ND		8.4	4.2	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Methyl tert-butyl ether	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Naphthalene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
n-Butylbenzene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
N-Propylbenzene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
sec-Butylbenzene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Styrene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
tert-Butylbenzene	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Tetrachloroethene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Toluene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
trans-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
trans-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Trichloroethene	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Trichlorofluoromethane	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.4	4.2	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Vinyl acetate	ND		6.7	3.3	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Vinyl chloride	ND		1.7	0.84	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
Ethylene Dibromide	ND		0.84	0.42	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
2-Butanone (MEK)	ND		8.4	4.2	ug/Kg		01/24/19 19:00	01/31/19 05:50	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		01/24/19 19:00	01/31/19 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/24/19 19:00*	*01/31/19 05:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/24/19 19:00*	*01/31/19 05:50*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Acenaphthene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Acenaphthylene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Fluorene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Phenanthrene	**27**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Anthracene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Benzo[a]anthracene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Chrysene	**32**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Benzo[a]pyrene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Benzo[b]fluoranthene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Benzo[k]fluoranthene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Benzo[g,h,i]perylene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Indeno[1,2,3-cd]pyrene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Fluoranthene	**22**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Pyrene	**34**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
Dibenz(a,h)anthracene	ND		120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2
2-Methylnaphthalene	**18**	**J**	120	16	ug/Kg		01/29/19 07:40	02/01/19 21:39	2

Client Sample ID: DG-AD17S-0.5-1 Lab Sample ID: 720-91011-18

Date Collected: 01/24/19 13:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	91		29 - 120	01/29/19 07:40	02/01/19 21:39	2
Terphenyl-d14	96		10 - 120	01/29/19 07:40	02/01/19 21:39	2
Nitrobenzene-d5	129	X	11 - 118	01/29/19 07:40	02/01/19 21:39	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		10	5.0	mg/Kg		01/28/19 09:36	01/29/19 17:09	1
Motor Oil Range Organics [C24-C36]	300		10	5.0	mg/Kg		01/28/19 09:36	01/29/19 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	91		40 - 140	01/28/19 09:36	01/29/19 17:09	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/30/19 17:26	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/30/19 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	54		28 - 115	01/29/19 06:33	01/30/19 17:26	1
DCB Decachlorobiphenyl (Surr)	36		21 - 117	01/29/19 06:33	01/30/19 17:26	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 17:36	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 17:36	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 17:36	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 17:36	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 17:36	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 17:36	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:33	01/30/19 17:36	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AD17S-0.5-1

Date Collected: 01/24/19 13:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-18

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	48		45 - 120	01/29/19 06:33	01/30/19 17:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3		1.2	0.20	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Arsenic	2.4		2.4	0.21	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Barium	230	B	1.2	0.17	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Beryllium	0.25		0.24	0.079	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Cadmium	0.35		0.30	0.030	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Chromium	31		1.2	0.13	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Cobalt	12		0.48	0.048	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Copper	56		3.6	1.7	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Lead	13		1.2	0.25	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Molybdenum	ND		1.2	0.16	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Nickel	27	B	1.2	0.12	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Selenium	1.4	J	2.4	0.36	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Silver	0.33	J	0.61	0.12	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Thallium	ND		1.2	0.35	mg/Kg		02/01/19 08:26	03/16/19 18:08	4
Vanadium	58		1.2	0.16	mg/Kg		02/01/19 08:26	02/04/19 18:55	4
Zinc	50		3.6	1.5	mg/Kg		02/01/19 08:26	02/04/19 18:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.016	0.0023	mg/Kg		01/31/19 20:20	02/01/19 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.2		0.1	0.1	%			02/05/19 17:56	1

Client Sample ID: DG-AD17S-7-7.5 Lab Sample ID: 720-91011-19

Date Collected: 01/24/19 13:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	79		75	52	ug/Kg		01/24/19 19:00	01/31/19 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/24/19 19:00*	*01/31/19 06:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/24/19 19:00*	*01/31/19 06:15*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/24/19 19:00*	*01/31/19 06:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,1,1-Trichloroethane	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
2-Hexanone	ND		7.5	3.7	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
4-Isopropyltoluene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Benzene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Bromobenzene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Bromoform	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Bromomethane	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Chloroethane	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Chloroform	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Chloromethane	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Dibromomethane	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1

Client Sample ID: DG-AD17S-7-7.5 Lab Sample ID: 720-91011-19

Date Collected: 01/24/19 13:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Naphthalene	**3.3**		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
N-Propylbenzene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Styrene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Tetrachloroethene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Toluene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Trichloroethene	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		01/24/19 19:00	01/31/19 06:15	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/24/19 19:00	01/31/19 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/24/19 19:00*	*01/31/19 06:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*01/24/19 19:00*	*01/31/19 06:15*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Acenaphthene	**13**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Acenaphthylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Fluorene	**6.9**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Phenanthrene	**14**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Anthracene	**6.6**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Benzo[a]anthracene	**12**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Chrysene	**11**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Benzo[a]pyrene	**8.7**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Benzo[b]fluoranthene	**14**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Benzo[k]fluoranthene	**5.5**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Benzo[g,h,i]perylene	**5.6**	**J**	30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Fluoranthene	**88**		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Pyrene	**51**		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 20:10	1

Client Sample ID: DG-AD17S-7-7.5

Date Collected: 01/24/19 13:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*29 - 120*	*01/29/19 07:40*	*01/29/19 20:10*	*1*
Terphenyl-d14	*99*		*10 - 120*	*01/29/19 07:40*	*01/29/19 20:10*	*1*
Nitrobenzene-d5	*110*		*11 - 118*	*01/29/19 07:40*	*01/29/19 20:10*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13	B	10	5.0	mg/Kg		02/01/19 14:10	02/02/19 04:06	1
Motor Oil Range Organics [C24-C36]	13	B	10	5.0	mg/Kg		02/01/19 14:10	02/02/19 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*02/01/19 14:10*	*02/02/19 04:06*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
Chlordane (technical)	ND		50	9.9	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:30	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*28 - 115*	*01/29/19 06:33*	*01/31/19 19:30*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*21 - 117*	*01/29/19 06:33*	*01/31/19 19:30*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 17:55	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 17:55	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 17:55	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 17:55	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 17:55	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 17:55	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:33	01/31/19 17:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AD17S-7-7.5

Date Collected: 01/24/19 13:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-19

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*01/29/19 06:33*	*01/31/19 17:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.4**		1.1	0.19	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Arsenic	**8.6**		2.3	0.19	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Barium	**57**	**B**	1.1	0.16	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Beryllium	**0.61**		0.23	0.073	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Cadmium	**0.25**	**J**	0.28	0.028	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Chromium	**57**		1.1	0.12	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Cobalt	**8.2**		0.45	0.045	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Copper	**29**		3.4	1.6	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Lead	**15**		1.1	0.24	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Molybdenum	**0.33**	**J**	1.1	0.14	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Nickel	**32**	**B**	1.1	0.12	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Selenium	**1.7**	**J**	2.3	0.34	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Silver	ND		0.56	0.11	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Thallium	ND		1.1	0.33	mg/Kg		02/01/19 08:26	03/16/19 18:13	4
Vanadium	**50**		1.1	0.15	mg/Kg		02/01/19 08:26	02/04/19 19:09	4
Zinc	**80**		3.4	1.4	mg/Kg		02/01/19 08:26	02/04/19 19:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.016	0.0024	mg/Kg		01/31/19 20:20	02/01/19 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		0.1	0.1	%			01/31/19 19:40	1

Client Sample ID: DUP-125
Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-20
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	470		73	51	ug/Kg		01/24/19 19:00	01/31/19 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/24/19 19:00*	*01/31/19 11:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*	*01/24/19 19:00*	*01/31/19 11:30*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/24/19 19:00*	*01/31/19 11:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,1,1-Trichloroethane	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,1,2-Trichloroethane	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,1-Dichloroethane	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,1-Dichloropropene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,2,4-Trichlorobenzene	ND		3.7	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,2-Dichlorobenzene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,2-Dichloroethane	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,2-Dichloropropane	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,3-Dichlorobenzene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,3-Dichloropropane	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,4-Dichlorobenzene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
2-Hexanone	ND		7.3	3.7	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
4-Isopropyltoluene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Benzene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Bromoform	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Chlorobenzene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Chloroform	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
cis-1,2-Dichloroethene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
cis-1,3-Dichloropropene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Chlorodibromomethane	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Dibromomethane	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Dichlorobromomethane	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1

Client Sample ID: DUP-125 — Lab Sample ID: 720-91011-20

Date Collected: 01/24/19 00:00 — **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Ethylbenzene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Isopropylbenzene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Methylene Chloride	ND		7.3	3.7	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
N-Propylbenzene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Styrene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Tetrachloroethene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Toluene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
trans-1,2-Dichloroethene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
trans-1,3-Dichloropropene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Trichloroethene	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.7	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Vinyl acetate	ND		5.9	2.9	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Xylenes, Total	ND		1.5	0.95	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
Ethylene Dibromide	ND		0.73	0.37	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
2-Butanone (MEK)	ND		7.3	3.7	ug/Kg		01/24/19 19:00	01/31/19 11:30	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.8	ug/Kg		01/24/19 19:00	01/31/19 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/24/19 19:00*	*01/31/19 11:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/24/19 19:00*	*01/31/19 11:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Acenaphthene	**200**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Acenaphthylene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Fluorene	**47**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Phenanthrene	**280**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Anthracene	**75**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Benzo[a]anthracene	**71**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Chrysene	**48**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Benzo[a]pyrene	**43**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Benzo[b]fluoranthene	**59**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Benzo[k]fluoranthene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Benzo[g,h,i]perylene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Indeno[1,2,3-cd]pyrene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Fluoranthene	**400**		290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Pyrene	**220**	**J**	290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
Dibenz(a,h)anthracene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10
2-Methylnaphthalene	ND		290	39	ug/Kg		01/29/19 07:40	02/01/19 22:02	10

Client Sample ID: DUP-125

Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*29 - 120*	*01/29/19 07:40*	*02/01/19 22:02*	*10*
Terphenyl-d14	*90*		*10 - 120*	*01/29/19 07:40*	*02/01/19 22:02*	*10*
Nitrobenzene-d5	*329*	*X*	*11 - 118*	*01/29/19 07:40*	*02/01/19 22:02*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**100**	**B**	5.0	2.5	mg/Kg		01/29/19 08:29	01/31/19 00:17	1
Motor Oil Range Organics [C24-C36]	**110**	**B**	5.0	2.5	mg/Kg		01/29/19 08:29	01/31/19 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*40 - 140*	*01/29/19 08:29*	*01/31/19 00:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Endrin	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Toxaphene	ND		200	49	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/29/19 06:33	01/31/19 19:44	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/29/19 06:33	01/31/19 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*28 - 115*	*01/29/19 06:33*	*01/31/19 19:44*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*21 - 117*	*01/29/19 06:33*	*01/31/19 19:44*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 18:09	1
Aroclor 1221	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 18:09	1
Aroclor 1232	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 18:09	1
Aroclor 1242	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 18:09	1
Aroclor 1248	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 18:09	1
Aroclor 1254	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 18:09	1
Aroclor 1260	ND		49	17	ug/Kg		01/29/19 06:33	01/31/19 18:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DUP-125

Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*01/29/19 06:33*	*01/31/19 18:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.2	0.20	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Arsenic	15		2.4	0.21	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Barium	120	B	1.2	0.17	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Beryllium	0.35		0.24	0.079	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Cadmium	0.63		0.30	0.030	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Chromium	44		1.2	0.13	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Cobalt	9.4		0.49	0.049	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Copper	91		3.7	1.7	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Lead	15		1.2	0.26	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Molybdenum	ND		1.2	0.16	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Nickel	49	B	1.2	0.12	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Selenium	3.0		2.4	0.37	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Silver	0.59	J	0.61	0.12	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Thallium	2.9		1.2	0.35	mg/Kg		02/01/19 08:26	03/16/19 18:18	4
Vanadium	36		1.2	0.17	mg/Kg		02/01/19 08:26	02/04/19 19:14	4
Zinc	160		3.7	1.5	mg/Kg		02/01/19 08:26	02/04/19 19:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.017	0.0025	mg/Kg		01/31/19 20:20	02/01/19 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.5		0.1	0.1	%			01/31/19 19:40	1

Client Sample ID: DG-AD17S-3.5-4 **Lab Sample ID: 720-91011-21**
Date Collected: 01/24/19 13:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	130000		7600	5400	ug/Kg		01/28/19 21:59	02/05/19 11:52	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*55 - 140*	*01/28/19 21:59*	*02/05/19 11:52*	*100*
4-Bromofluorobenzene (Surr)	*93*		*65 - 140*	*01/28/19 21:59*	*02/05/19 11:52*	*100*
Toluene-d8 (Surr)	*109*		*60 - 140*	*01/28/19 21:59*	*02/05/19 11:52*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		760	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,1,1,2-Tetrachloroethane	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,1,1-Trichloroethane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,1,2,2-Tetrachloroethane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,1,2-Trichloroethane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,1-Dichloroethane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,1-Dichloroethene	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,1-Dichloropropene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,2,3-Trichlorobenzene	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,2,4-Trichlorobenzene	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,2,4-Trimethylbenzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,2-Dibromo-3-Chloropropane	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,2-Dichlorobenzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,2-Dichloroethane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,2-Dichloropropane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,3,5-Trimethylbenzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,3-Dichlorobenzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,3-Dichloropropane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,4-Dichlorobenzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
2,2-Dichloropropane	ND		310	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
2-Chlorotoluene	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
2-Hexanone	ND		1900	760	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
4-Chlorotoluene	ND		380	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
4-Isopropyltoluene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Benzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Bromobenzene	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Bromoform	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Bromomethane	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Carbon disulfide	ND		380	190	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Carbon tetrachloride	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Chlorobenzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Chlorobromomethane	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Chloroethane	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Chloroform	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Chloromethane	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
cis-1,2-Dichloroethene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
cis-1,3-Dichloropropene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Chlorodibromomethane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Dibromomethane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Dichlorobromomethane	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200

Client Sample ID: DG-AD17S-3.5-4 **Lab Sample ID: 720-91011-21**
Date Collected: 01/24/19 13:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Ethylbenzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Hexachlorobutadiene	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Isopropylbenzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Methylene Chloride	ND		1500	760	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Methyl tert-butyl ether	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Naphthalene	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
n-Butylbenzene	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
N-Propylbenzene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
sec-Butylbenzene	ND		380	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Styrene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
tert-Butylbenzene	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Tetrachloroethene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Toluene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
trans-1,2-Dichloroethene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
trans-1,3-Dichloropropene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Trichloroethene	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Trichlorofluoromethane	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		760	310	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Vinyl acetate	ND		760	380	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Vinyl chloride	ND		380	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Xylenes, Total	ND		310	150	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
Ethylene Dibromide	ND		150	76	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
2-Butanone (MEK)	ND		1500	760	ug/Kg		01/28/19 21:59	01/31/19 12:05	200
4-Methyl-2-pentanone (MIBK)	ND		760	310	ug/Kg		01/28/19 21:59	01/31/19 12:05	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*	*01/28/19 21:59*	*01/31/19 12:05*	*200*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*01/28/19 21:59*	*01/31/19 12:05*	*200*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Acenaphthene	**69**		59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Acenaphthylene	ND		59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Fluorene	**16**	**J**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Phenanthrene	**15**	**J**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Anthracene	**27**	**J**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Chrysene	**99**	**F1**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Benzo[a]pyrene	**140**	**F1**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Benzo[b]fluoranthene	**190**	**F1**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Benzo[k]fluoranthene	**51**	**J**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Benzo[g,h,i]perylene	**95**		59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Indeno[1,2,3-cd]pyrene	**140**	**F1**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Fluoranthene	**170**	**F1 F2**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Pyrene	**130**	**F1**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
Dibenz(a,h)anthracene	**33**	**J**	59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2
2-Methylnaphthalene	ND		59	7.8	ug/Kg		01/29/19 07:40	02/01/19 18:35	2

Client Sample ID: DG-AD17S-3.5-4 Lab Sample ID: 720-91011-21

Date Collected: 01/24/19 13:30 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		29 - 120	01/29/19 07:40	02/01/19 18:35	2
Terphenyl-d14	87		10 - 120	01/29/19 07:40	02/01/19 18:35	2
Nitrobenzene-d5	176	X	11 - 118	01/29/19 07:40	02/01/19 18:35	2

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	86	F1	59	7.8	ug/Kg		01/29/19 07:40	02/05/19 22:36	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		29 - 120	01/29/19 07:40	02/05/19 22:36	2
Terphenyl-d14	88		10 - 120	01/29/19 07:40	02/05/19 22:36	2
Nitrobenzene-d5	136	X	11 - 118	01/29/19 07:40	02/05/19 22:36	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22	F1	5.0	2.5	mg/Kg		01/30/19 05:52	01/30/19 17:14	1
Motor Oil Range Organics [C24-C36]	7.4		5.0	2.5	mg/Kg		01/30/19 05:52	01/30/19 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	83		40 - 140	01/30/19 05:52	01/30/19 17:14	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Endrin	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
delta-BHC	ND		10	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Toxaphene	ND		200	50	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
Chlordane (technical)	ND		50	10	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/30/19 13:03	02/01/19 17:35	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/30/19 13:03	02/01/19 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		28 - 115	01/30/19 13:03	02/01/19 17:35	1
DCB Decachlorobiphenyl (Surr)	44		21 - 117	01/30/19 13:03	02/01/19 17:35	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AD17S-3.5-4

Date Collected: 01/24/19 13:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-21

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/30/19 13:03	02/01/19 23:14	1
Aroclor 1221	ND		50	17	ug/Kg		01/30/19 13:03	02/01/19 23:14	1
Aroclor 1232	ND		50	17	ug/Kg		01/30/19 13:03	02/01/19 23:14	1
Aroclor 1242	ND		50	17	ug/Kg		01/30/19 13:03	02/01/19 23:14	1
Aroclor 1248	ND		50	17	ug/Kg		01/30/19 13:03	02/01/19 23:14	1
Aroclor 1254	ND		50	17	ug/Kg		01/30/19 13:03	02/01/19 23:14	1
Aroclor 1260	ND		50	17	ug/Kg		01/30/19 13:03	02/01/19 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*01/30/19 13:03*	*02/01/19 23:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.7**	**F1**	1.6	0.26	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Arsenic	**9.2**		3.1	0.27	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Barium	**98**	**F1**	1.6	0.22	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Beryllium	**0.59**		0.31	0.10	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Cadmium	**0.17**	**J**	0.39	0.039	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Chromium	**37**	**B F1**	1.6	0.17	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Cobalt	**11**		0.63	0.063	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Copper	**45**	**F1**	4.7	2.2	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Lead	**16**		1.6	0.33	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Nickel	**32**	**B F1**	1.6	0.16	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Selenium	**0.62**	**J**	3.1	0.47	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Silver	ND		0.78	0.16	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Thallium	ND		1.6	0.45	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Vanadium	**40**	**F1**	1.6	0.21	mg/Kg		01/31/19 18:00	02/05/19 19:44	4
Zinc	**110**	**F1**	4.7	2.0	mg/Kg		01/31/19 18:00	02/05/19 19:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**	**B**	0.014	0.0021	mg/Kg		02/05/19 16:16	02/05/19 18:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.2**		0.1	0.1	%			01/31/19 19:40	1

Client Sample ID: DG-AB17S-0.5-1 Lab Sample ID: 720-91011-22

Date Collected: 01/24/19 14:20 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**11000**		7500	5200	ug/Kg		01/28/19 21:59	02/05/19 14:04	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*	*01/28/19 21:59*	*02/05/19 14:04*	*100*
4-Bromofluorobenzene (Surr)	*93*		*65 - 140*	*01/28/19 21:59*	*02/05/19 14:04*	*100*
Toluene-d8 (Surr)	*107*		*60 - 140*	*01/28/19 21:59*	*02/05/19 14:04*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		370	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,1,1,2-Tetrachloroethane	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,1,1-Trichloroethane	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,1,2,2-Tetrachloroethane	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,1,2-Trichloroethane	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,1-Dichloroethane	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,1-Dichloroethene	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,1-Dichloropropene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,2,3-Trichlorobenzene	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,2,4-Trichlorobenzene	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,2,4-Trimethylbenzene	**55**	**J**	75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,2-Dibromo-3-Chloropropane	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,2-Dichlorobenzene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,2-Dichloroethane	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,3,5-Trimethylbenzene	**42**	**J**	75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,3-Dichlorobenzene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,3-Dichloropropane	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,4-Dichlorobenzene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
2,2-Dichloropropane	ND		150	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
2-Chlorotoluene	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
2-Hexanone	ND		930	370	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
4-Chlorotoluene	ND		190	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
4-Isopropyltoluene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Benzene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Bromobenzene	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Bromoform	ND	*	190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Bromomethane	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Carbon disulfide	ND		190	93	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Carbon tetrachloride	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Chlorobenzene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Chlorobromomethane	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Chloroethane	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Chloroform	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Chloromethane	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
cis-1,2-Dichloroethene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
cis-1,3-Dichloropropene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Chlorodibromomethane	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Dibromomethane	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Dichlorobromomethane	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Dichlorodifluoromethane	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100

Client Sample ID: DG-AB17S-0.5-1 Lab Sample ID: 720-91011-22

Date Collected: 01/24/19 14:20 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**240**		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Hexachlorobutadiene	ND	*	190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Isopropylbenzene	**49**	**J**	75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Methylene Chloride	ND		750	370	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Methyl tert-butyl ether	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Naphthalene	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
n-Butylbenzene	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
N-Propylbenzene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
sec-Butylbenzene	ND		190	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Styrene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
tert-Butylbenzene	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Tetrachloroethene	ND	*	75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Toluene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
trans-1,2-Dichloroethene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
trans-1,3-Dichloropropene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Trichloroethene	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Trichlorofluoromethane	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		370	150	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Vinyl acetate	ND		370	190	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Vinyl chloride	ND		190	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Xylenes, Total	**3100**		150	75	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
Ethylene Dibromide	ND		75	37	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
2-Butanone (MEK)	ND		750	370	ug/Kg		01/28/19 21:59	02/05/19 14:04	100
4-Methyl-2-pentanone (MIBK)	**4000**		370	150	ug/Kg		01/28/19 21:59	02/05/19 14:04	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*60 - 140*	*01/28/19 21:59*	*02/05/19 14:04*	*100*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*01/28/19 21:59*	*02/05/19 14:04*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		75	37	ug/Kg		01/28/19 21:59	02/06/19 12:59	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*60 - 140*	*01/28/19 21:59*	*02/06/19 12:59*	*100*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*01/28/19 21:59*	*02/06/19 12:59*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**120**	**J**	300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Acenaphthene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Acenaphthylene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Fluorene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Phenanthrene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Anthracene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Benzo[a]anthracene	**47**	**J**	300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Chrysene	**44**	**J**	300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Benzo[a]pyrene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Benzo[b]fluoranthene	**46**	**J**	300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Benzo[k]fluoranthene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10

Client Sample ID: DG-AB17S-0.5-1 Lab Sample ID: 720-91011-22

Date Collected: 01/24/19 14:20 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**80**	**J**	300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Indeno[1,2,3-cd]pyrene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Fluoranthene	**78**	**J**	300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Pyrene	**92**	**J**	300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
Dibenz(a,h)anthracene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10
2-Methylnaphthalene	ND		300	40	ug/Kg		01/29/19 07:40	02/01/19 22:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*29 - 120*	*01/29/19 07:40*	*02/01/19 22:25*	*10*
Terphenyl-d14	*79*		*10 - 120*	*01/29/19 07:40*	*02/01/19 22:25*	*10*
Nitrobenzene-d5	*234*	*X*	*11 - 118*	*01/29/19 07:40*	*02/01/19 22:25*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**610**		10	5.0	mg/Kg		01/30/19 05:52	01/30/19 20:06	1
Motor Oil Range Organics [C24-C36]	**370**		10	5.0	mg/Kg		01/30/19 05:52	01/30/19 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*91*		*40 - 140*	*01/30/19 05:52*	*01/30/19 20:06*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Endrin	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
4,4'-DDT	**3.4**	**J p**	5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
delta-BHC	ND		10	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Toxaphene	ND		200	50	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
Chlordane (technical)	**38**	**J**	50	10	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
alpha-Chlordane	**3.1**	**J**	5.0	2.0	ug/Kg		01/30/19 13:03	01/31/19 20:02	1
gamma-Chlordane	**3.0**	**J**	5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*42*		*28 - 115*	*01/30/19 13:03*	*01/31/19 20:02*	*1*
DCB Decachlorobiphenyl (Surr)	*41*		*21 - 117*	*01/30/19 13:03*	*01/31/19 20:02*	*1*

Client Sample ID: DG-AB17S-0.5-1 Lab Sample ID: 720-91011-22

Date Collected: 01/24/19 14:20 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 20:48	1
Aroclor 1221	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 20:48	1
Aroclor 1232	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 20:48	1
Aroclor 1242	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 20:48	1
Aroclor 1248	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 20:48	1
Aroclor 1254	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 20:48	1
Aroclor 1260	**43**	**J**	50	17	ug/Kg		01/30/19 13:03	01/31/19 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*01/30/19 13:03*	*01/31/19 20:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.5**		1.7	0.27	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Arsenic	**4.0**		3.3	0.28	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Barium	**150**	**B**	1.7	0.23	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Beryllium	ND		0.33	0.11	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Cadmium	**1.5**		0.41	0.041	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Chromium	**220**		1.7	0.18	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Cobalt	**18**		0.66	0.066	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Copper	**69**		5.0	2.4	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Lead	**620**		1.7	0.35	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Molybdenum	**5.2**		1.7	0.21	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Nickel	**51**	**B**	1.7	0.17	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Selenium	**2.4**	**J**	3.3	0.50	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Silver	**0.29**	**J**	0.83	0.17	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Thallium	ND		1.7	0.48	mg/Kg		02/01/19 08:26	03/16/19 18:23	4
Vanadium	**81**		1.7	0.22	mg/Kg		02/01/19 08:26	02/04/19 19:19	4
Zinc	**780**		5.0	2.1	mg/Kg		02/01/19 08:26	02/04/19 19:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.014	0.0021	mg/Kg		01/31/19 20:20	02/01/19 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.8**		0.1	0.1	%			02/01/19 21:20	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AB17S-3.5-4

Date Collected: 01/24/19 14:20
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-23

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		120	83	ug/Kg		01/24/19 19:00	01/31/19 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/24/19 19:00*	*01/31/19 06:40*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/24/19 19:00*	*01/31/19 06:40*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/24/19 19:00*	*01/31/19 06:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		12	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,1,1,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,1,1-Trichloroethane	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,1,2,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,1,2-Trichloroethane	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,1-Dichloroethane	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,1-Dichloroethene	ND		2.4	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,1-Dichloropropene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,2,3-Trichlorobenzene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,2,4-Trichlorobenzene	ND		5.9	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,2,4-Trimethylbenzene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,2-Dibromo-3-Chloropropane	ND		5.9	2.4	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,2-Dichlorobenzene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,2-Dichloroethane	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,2-Dichloropropane	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,3,5-Trimethylbenzene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,3-Dichlorobenzene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,3-Dichloropropane	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,4-Dichlorobenzene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
2,2-Dichloropropane	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
2-Chlorotoluene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
2-Hexanone	ND		12	5.9	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
4-Chlorotoluene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
4-Isopropyltoluene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Benzene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Bromobenzene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Bromoform	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Bromomethane	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Carbon disulfide	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Carbon tetrachloride	ND		2.4	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Chlorobenzene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Chlorobromomethane	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Chloroethane	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Chloroform	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Chloromethane	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
cis-1,2-Dichloroethene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
cis-1,3-Dichloropropene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Chlorodibromomethane	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Dibromomethane	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Dichlorobromomethane	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1

Client Sample ID: DG-AB17S-3.5-4 Lab Sample ID: 720-91011-23

Date Collected: 01/24/19 14:20 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Ethylbenzene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Hexachlorobutadiene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Isopropylbenzene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Methylene Chloride	ND		12	5.9	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Methyl tert-butyl ether	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Naphthalene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
n-Butylbenzene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
N-Propylbenzene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
sec-Butylbenzene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Styrene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
tert-Butylbenzene	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Tetrachloroethene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Toluene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
trans-1,2-Dichloroethene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
trans-1,3-Dichloropropene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Trichloroethene	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Trichlorofluoromethane	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	5.9	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Vinyl acetate	ND		9.5	4.8	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Vinyl chloride	ND		2.4	1.2	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Xylenes, Total	ND		2.4	1.5	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
Ethylene Dibromide	ND		1.2	0.59	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
2-Butanone (MEK)	**16**		12	5.9	ug/Kg		01/24/19 19:00	01/31/19 06:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.9	3.0	ug/Kg		01/24/19 19:00	01/31/19 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/24/19 19:00*	*01/31/19 06:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*01/24/19 19:00*	*01/31/19 06:40*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Acenaphthene	ND		1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Acenaphthylene	**250**	**J**	1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Fluorene	ND		1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Phenanthrene	**200**	**J**	1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Anthracene	ND		1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Benzo[a]anthracene	**570**	**J**	1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Chrysene	**590**	**J**	1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Benzo[a]pyrene	**1100**	**J**	1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Benzo[b]fluoranthene	**1200**		1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Benzo[k]fluoranthene	**300**	**J**	1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Benzo[g,h,i]perylene	**1000**	**J**	1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Indeno[1,2,3-cd]pyrene	**1100**	**J**	1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Fluoranthene	**1300**		1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Pyrene	**1800**		1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
Dibenz(a,h)anthracene	ND		1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20
2-Methylnaphthalene	ND		1200	160	ug/Kg		01/29/19 07:40	02/01/19 22:48	20

Client Sample ID: DG-AB17S-3.5-4 Lab Sample ID: 720-91011-23

Date Collected: 01/24/19 14:20 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		29 - 120	01/29/19 07:40	02/01/19 22:48	20
Terphenyl-d14	91		10 - 120	01/29/19 07:40	02/01/19 22:48	20
Nitrobenzene-d5	228	X	11 - 118	01/29/19 07:40	02/01/19 22:48	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3100		200	100	mg/Kg		01/30/19 05:52	01/31/19 20:45	20
Motor Oil Range Organics [C24-C36]	1000		200	100	mg/Kg		01/30/19 05:52	01/31/19 20:45	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	54		40 - 140	01/30/19 05:52	01/31/19 20:45	20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Endrin	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Endrin ketone	ND		4.9	1.9	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Heptachlor	ND		4.9	1.9	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
4,4'-DDE	1.6	J	4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
delta-BHC	ND		9.7	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Toxaphene	ND		190	49	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
Chlordane (technical)	ND		49	9.7	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		01/30/19 13:03	02/01/19 18:04	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		28 - 115	01/30/19 13:03	02/01/19 18:04	1
DCB Decachlorobiphenyl (Surr)	60	p	21 - 117	01/30/19 13:03	02/01/19 18:04	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:27	1
Aroclor 1221	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:27	1
Aroclor 1232	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:27	1
Aroclor 1242	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:27	1
Aroclor 1248	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:27	1
Aroclor 1254	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:27	1
Aroclor 1260	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:27	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AB17S-3.5-4

Date Collected: 01/24/19 14:20
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-23

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*01/30/19 13:03*	*02/01/19 23:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.4**		1.6	0.27	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Arsenic	**6.9**		3.2	0.27	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Barium	**180**	**B**	1.6	0.23	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Beryllium	**0.22**	**J**	0.32	0.10	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Cadmium	**0.79**		0.40	0.040	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Chromium	**21**		1.6	0.17	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Cobalt	**7.7**		0.64	0.064	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Copper	**150**		4.8	2.3	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Lead	**330**		1.6	0.34	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Molybdenum	ND		1.6	0.20	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Nickel	**41**	**B**	1.6	0.16	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Selenium	**1.4**	**J**	3.2	0.48	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Silver	**0.19**	**J**	0.80	0.16	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Thallium	ND		1.6	0.46	mg/Kg		02/01/19 08:26	03/16/19 18:27	4
Vanadium	**40**		1.6	0.22	mg/Kg		02/01/19 08:26	02/04/19 19:24	4
Zinc	**370**		4.8	2.0	mg/Kg		02/01/19 08:26	02/04/19 19:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.38**		0.016	0.0024	mg/Kg		01/31/19 20:20	02/01/19 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**40.6**		0.1	0.1	%			02/01/19 21:20	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AA19S-0.5-1

Date Collected: 01/24/19 15:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-24

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg		01/24/19 19:00	01/31/19 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/24/19 19:00*	*01/31/19 10:13*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*01/24/19 19:00*	*01/31/19 10:13*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/24/19 19:00*	*01/31/19 10:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
2-Hexanone	ND		10	5.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Benzene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Bromobenzene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Bromoform	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Bromomethane	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Carbon disulfide	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Chlorobenzene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Chloroethane	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Chloroform	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Chloromethane	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Dibromomethane	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1

Client Sample ID: DG-AA19S-0.5-1 **Lab Sample ID: 720-91011-24**
Date Collected: 01/24/19 15:00 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Ethylbenzene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Methylene Chloride	ND		10	5.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Naphthalene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Styrene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Toluene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Trichloroethene	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Vinyl acetate	ND		8.0	4.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Vinyl chloride	ND		2.0	1.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg		01/24/19 19:00	01/31/19 10:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg		01/24/19 19:00	01/31/19 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/24/19 19:00*	*01/31/19 10:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/24/19 19:00*	*01/31/19 10:13*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Acenaphthene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Acenaphthylene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Fluorene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Phenanthrene	**50**	**J**	300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Anthracene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Benzo[a]anthracene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Chrysene	**180**	**J**	300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Benzo[a]pyrene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Benzo[b]fluoranthene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Benzo[k]fluoranthene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Benzo[g,h,i]perylene	**59**	**J**	300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Indeno[1,2,3-cd]pyrene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Fluoranthene	**50**	**J**	300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Pyrene	**65**	**J**	300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
Dibenz(a,h)anthracene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5
2-Methylnaphthalene	ND		300	40	ug/Kg		01/29/19 07:40	02/05/19 22:13	5

Client Sample ID: DG-AA19S-0.5-1 Lab Sample ID: 720-91011-24

Date Collected: 01/24/19 15:00 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*29 - 120*	*01/29/19 07:40*	*02/05/19 22:13*	*5*
Terphenyl-d14	*89*		*10 - 120*	*01/29/19 07:40*	*02/05/19 22:13*	*5*
Nitrobenzene-d5	*84*		*11 - 118*	*01/29/19 07:40*	*02/05/19 22:13*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**350**		10	5.0	mg/Kg		01/30/19 05:52	01/30/19 19:01	1
Motor Oil Range Organics [C24-C36]	**520**		10	5.0	mg/Kg		01/30/19 05:52	01/30/19 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*73*		*40 - 140*	*01/30/19 05:52*	*01/30/19 19:01*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Endrin	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Toxaphene	ND		200	49	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/31/19 06:13	01/31/19 21:32	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/31/19 06:13	01/31/19 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*28 - 115*	*01/31/19 06:13*	*01/31/19 21:32*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*21 - 117*	*01/31/19 06:13*	*01/31/19 21:32*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:39	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:39	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:39	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:39	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:39	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:39	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:39	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AA19S-0.5-1

Date Collected: 01/24/19 15:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*01/31/19 13:33*	*02/01/19 21:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.76	J	1.6	0.27	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Arsenic	2.2	J	3.2	0.27	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Barium	23	B	1.6	0.23	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Beryllium	ND		0.32	0.10	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Cadmium	0.15	J	0.40	0.040	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Chromium	33		1.6	0.17	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Cobalt	6.9		0.64	0.064	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Copper	9.4		4.8	2.3	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Lead	5.2		1.6	0.34	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Molybdenum	0.21	J	1.6	0.20	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Nickel	30	B	1.6	0.16	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Selenium	0.94	J	3.2	0.48	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Silver	ND		0.80	0.16	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Thallium	ND		1.6	0.46	mg/Kg		02/01/19 08:26	03/16/19 18:32	4
Vanadium	34		1.6	0.22	mg/Kg		02/01/19 08:26	02/04/19 19:28	4
Zinc	30		4.8	2.0	mg/Kg		02/01/19 08:26	02/04/19 19:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	B	0.016	0.0023	mg/Kg		02/05/19 16:16	02/05/19 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.1	%			01/31/19 19:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AA19S-3.5-4

Date Collected: 01/24/19 15:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-25

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	690		85	60	ug/Kg		01/24/19 19:00	01/31/19 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/24/19 19:00*	*01/31/19 10:38*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/24/19 19:00*	*01/31/19 10:38*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/24/19 19:00*	*01/31/19 10:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,1,1-Trichloroethane	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,1,2-Trichloroethane	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,1-Dichloroethane	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,1-Dichloropropene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,2,4-Trichlorobenzene	ND		4.3	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,2-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,2-Dichloroethane	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,2-Dichloropropane	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,3-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,3-Dichloropropane	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,4-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
2-Hexanone	ND		8.5	4.3	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
4-Isopropyltoluene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Benzene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Bromobenzene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Bromoform	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Bromomethane	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Chlorobenzene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Chloroethane	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Chloroform	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Chloromethane	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
cis-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
cis-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Chlorodibromomethane	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Dibromomethane	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Dichlorobromomethane	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1

Client Sample ID: DG-AA19S-3.5-4 Lab Sample ID: 720-91011-25

Date Collected: 01/24/19 15:00 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Ethylbenzene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Isopropylbenzene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Methylene Chloride	ND		8.5	4.3	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Naphthalene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
N-Propylbenzene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Styrene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Tetrachloroethene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Toluene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
trans-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
trans-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Trichloroethene	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.3	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
Ethylene Dibromide	ND		0.85	0.43	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
2-Butanone (MEK)	ND		8.5	4.3	ug/Kg		01/24/19 19:00	01/31/19 10:38	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		01/24/19 19:00	01/31/19 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/24/19 19:00*	*01/31/19 10:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/24/19 19:00*	*01/31/19 10:38*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Acenaphthene	ND		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Acenaphthylene	ND		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Fluorene	ND		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Phenanthrene	**140**	**J**	230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Anthracene	ND		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Benzo[a]anthracene	**100**	**J**	230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Chrysene	**170**	**J**	230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Benzo[a]pyrene	**230**		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Benzo[b]fluoranthene	**270**		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Benzo[k]fluoranthene	**77**	**J**	230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Benzo[g,h,i]perylene	**430**		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Indeno[1,2,3-cd]pyrene	**330**		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Fluoranthene	**270**		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Pyrene	**320**		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
Dibenz(a,h)anthracene	ND		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8
2-Methylnaphthalene	ND		230	31	ug/Kg		01/29/19 07:40	02/04/19 17:08	8

Client Sample ID: DG-AA19S-3.5-4 Lab Sample ID: 720-91011-25

Date Collected: 01/24/19 15:00 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*29 - 120*	*01/29/19 07:40*	*02/04/19 17:08*	*8*
Terphenyl-d14	*91*		*10 - 120*	*01/29/19 07:40*	*02/04/19 17:08*	*8*
Nitrobenzene-d5	*89*		*11 - 118*	*01/29/19 07:40*	*02/04/19 17:08*	*8*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**55**		10	5.0	mg/Kg		01/30/19 05:52	01/30/19 19:23	1
Motor Oil Range Organics [C24-C36]	**110**		10	5.0	mg/Kg		01/30/19 05:52	01/30/19 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*96*		*40 - 140*	*01/30/19 05:52*	*01/30/19 19:23*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Endrin	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
delta-BHC	ND		9.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Toxaphene	ND		200	49	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
Chlordane (technical)	ND		49	9.9	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:19	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*28 - 115*	*01/30/19 13:03*	*02/01/19 18:19*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*21 - 117*	*01/30/19 13:03*	*02/01/19 18:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:41	1
Aroclor 1221	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:41	1
Aroclor 1232	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:41	1
Aroclor 1242	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:41	1
Aroclor 1248	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:41	1
Aroclor 1254	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:41	1
Aroclor 1260	ND		49	17	ug/Kg		01/30/19 13:03	02/01/19 23:41	1

Client Sample ID: DG-AA19S-3.5-4
Lab Sample ID: 720-91011-25

Date Collected: 01/24/19 15:00
Matrix: Solid
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*	*01/30/19 13:03*	*02/01/19 23:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.60**	**J**	1.8	0.30	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Arsenic	**3.9**		3.6	0.31	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Barium	**92**		1.8	0.26	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Beryllium	ND		0.36	0.12	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Cadmium	**0.11**	**J**	0.45	0.045	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Chromium	**140**	**B**	1.8	0.19	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Cobalt	**17**		0.72	0.072	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Copper	**31**		5.4	2.6	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Lead	**27**		1.8	0.38	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Nickel	**120**	**B**	1.8	0.18	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Selenium	ND		3.6	0.54	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Silver	ND		0.90	0.18	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Thallium	ND		1.8	0.52	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Vanadium	**58**		1.8	0.25	mg/Kg		01/31/19 18:00	02/05/19 19:48	4
Zinc	**70**		5.4	2.3	mg/Kg		01/31/19 18:00	02/05/19 19:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.83**	**B**	0.015	0.0023	mg/Kg		02/05/19 16:16	02/05/19 19:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1	0.1	%			01/31/19 19:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AA19S-8.5-9

Date Collected: 01/24/19 15:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-26

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	53	ug/Kg		01/24/19 19:00	01/31/19 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/24/19 19:00*	*01/31/19 11:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/24/19 19:00*	*01/31/19 11:03*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/24/19 19:00*	*01/31/19 11:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.6	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,2,3-Trichlorobenzene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,2,4-Trichlorobenzene	ND		3.8	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,2,4-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,2-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,3,5-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,3-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,4-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
2,2-Dichloropropane	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
2-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
2-Hexanone	ND		7.6	3.8	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
4-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
4-Isopropyltoluene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Benzene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Bromobenzene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Bromoform	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Bromomethane	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Chloroethane	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Chloroform	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Chloromethane	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Dibromomethane	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1

Client Sample ID: DG-AA19S-8.5-9 Lab Sample ID: 720-91011-26

Date Collected: 01/24/19 15:00 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Hexachlorobutadiene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Naphthalene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
n-Butylbenzene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
N-Propylbenzene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
sec-Butylbenzene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Styrene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
tert-Butylbenzene	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Toluene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Trichloroethene	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Xylenes, Total	ND		1.5	0.98	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
2-Butanone (MEK)	**8.0**		7.6	3.8	ug/Kg		01/24/19 19:00	01/31/19 11:03	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/24/19 19:00	01/31/19 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/24/19 19:00*	*01/31/19 11:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/24/19 19:00*	*01/31/19 11:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Acenaphthene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Acenaphthylene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Fluorene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Phenanthrene	**10**	**J**	60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Anthracene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Benzo[a]anthracene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Chrysene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Benzo[a]pyrene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Benzo[b]fluoranthene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Benzo[k]fluoranthene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Benzo[g,h,i]perylene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Indeno[1,2,3-cd]pyrene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Fluoranthene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Pyrene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
Dibenz(a,h)anthracene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2
2-Methylnaphthalene	ND		60	8.0	ug/Kg		01/29/19 07:40	02/04/19 16:46	2

Client Sample ID: DG-AA19S-8.5-9 Lab Sample ID: 720-91011-26

Date Collected: 01/24/19 15:00 **Matrix: Solid**
Date Received: 01/24/19 18:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*29 - 120*	*01/29/19 07:40*	*02/04/19 16:46*	*2*
Terphenyl-d14	*93*		*10 - 120*	*01/29/19 07:40*	*02/04/19 16:46*	*2*
Nitrobenzene-d5	*79*		*11 - 118*	*01/29/19 07:40*	*02/04/19 16:46*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5.9		5.0	2.5	mg/Kg		01/30/19 05:52	01/30/19 21:31	1
Motor Oil Range Organics [C24-C36]	3.5	J	5.0	2.5	mg/Kg		01/30/19 05:52	01/30/19 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*91*		*40 - 140*	*01/30/19 05:52*	*01/30/19 21:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Dieldrin	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Endrin	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Endrin ketone	ND		4.9	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Heptachlor	ND		4.9	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Endosulfan I	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Endosulfan II	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
alpha-BHC	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
beta-BHC	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
delta-BHC	ND		9.8	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Methoxychlor	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Toxaphene	ND		200	49	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
Chlordane (technical)	ND		49	9.8	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		01/30/19 13:03	02/01/19 18:33	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		01/30/19 13:03	02/01/19 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*28 - 115*	*01/30/19 13:03*	*02/01/19 18:33*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*21 - 117*	*01/30/19 13:03*	*02/01/19 18:33*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/30/19 13:03	02/04/19 18:36	1
Aroclor 1221	ND		49	17	ug/Kg		01/30/19 13:03	02/04/19 18:36	1
Aroclor 1232	ND		49	17	ug/Kg		01/30/19 13:03	02/04/19 18:36	1
Aroclor 1242	ND		49	17	ug/Kg		01/30/19 13:03	02/04/19 18:36	1
Aroclor 1248	ND		49	17	ug/Kg		01/30/19 13:03	02/04/19 18:36	1
Aroclor 1254	ND		49	17	ug/Kg		01/30/19 13:03	02/04/19 18:36	1
Aroclor 1260	ND		49	17	ug/Kg		01/30/19 13:03	02/04/19 18:36	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AA19S-8.5-9

Date Collected: 01/24/19 15:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-26

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/30/19 13:03*	*02/04/19 18:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.6**	**J**	1.9	0.32	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Arsenic	**9.2**		3.8	0.33	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Barium	**71**		1.9	0.27	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Beryllium	**0.62**		0.38	0.13	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Cadmium	**0.089**	**J**	0.48	0.048	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Chromium	**64**	**B**	1.9	0.20	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Cobalt	**11**		0.77	0.077	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Copper	**28**		5.8	2.7	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Lead	**10**		1.9	0.40	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Molybdenum	ND		1.9	0.25	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Nickel	**25**	**B**	1.9	0.20	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Selenium	ND		3.8	0.58	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Silver	ND		0.96	0.19	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Thallium	ND		1.9	0.56	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Vanadium	**61**		1.9	0.26	mg/Kg		01/31/19 18:00	02/05/19 20:03	4
Zinc	**37**		5.8	2.4	mg/Kg		01/31/19 18:00	02/05/19 20:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**	**B**	0.014	0.0021	mg/Kg		02/05/19 16:16	02/05/19 19:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.6**		0.1	0.1	%			01/31/19 19:40	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TOL (60-140)	DCA (60-140)
720-91011-21	DG-AD17S-3.5-4	99	101
720-91011-21 MS	DG-AD17S-3.5-4	98	97
720-91011-21 MSD	DG-AD17S-3.5-4	96	101
720-91011-22	DG-AB17S-0.5-1	107	102
720-91011-22 - RA	DG-AB17S-0.5-1	100	104
720-91011-D-21-B MS	720-91011-D-21-B MS	104	101
720-91011-D-21-C MSD	720-91011-D-21-C MSD	105	99
LCS 440-526004/11	Lab Control Sample	98	100
LCS 440-526745/5	Lab Control Sample	104	95
LCS 440-526988/6	Lab Control Sample	97	102
LCSD 440-526004/6	Lab Control Sample Dup	99	101
LCSD 440-526745/6	Lab Control Sample Dup	103	104
LCSD 440-526988/7	Lab Control Sample Dup	97	100
MB 440-526004/4	Method Blank	101	98
MB 440-526745/4	Method Blank	110	99
MB 440-526988/5	Method Blank	101	98

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TOL (79-123)	DCA (70-130)
720-91011-8	DG-AI15S-0.5-1	111	103
720-91011-8 MS	DG-AI15S-0.5-1	101	103
720-91011-8 MSD	DG-AI15S-0.5-1	98	103
720-91011-9	DG-AI15S-3.5-4	97	112
720-91011-10	DUP-112	98	107
720-91011-11	DG-AJ17S-0.5-1	95	117
720-91011-12	DG-AJ17S-3.5-4	100	108
720-91011-13	DG-AJ17S-9.5-10	97	111
720-91011-14	DG-AH17S-0.5-1	98	107
720-91011-15	DG-AG15S-0.5-1	100	102
720-91011-16	DG-AG15S-3.5-4	98	111
720-91011-17	DG-AG15S-8.5-9	101	105
720-91011-18	DG-AD17S-0.5-1	98	104
720-91011-19	DG-AD17S-7-7.5	97	109
720-91011-20	DUP-125	99	103
720-91011-23	DG-AB17S-3.5-4	101	112
720-91011-24	DG-AA19S-0.5-1	102	105
720-91011-25	DG-AA19S-3.5-4	98	101
720-91011-26	DG-AA19S-8.5-9	97	107
720-91048-A-16-A MS	Matrix Spike	98	104
720-91048-A-16-B MSD	Matrix Spike Duplicate	100	99
LCS 440-525787/5	Lab Control Sample	98	100
LCS 440-525938/5	Lab Control Sample	99	101

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91011-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(79-123)	(70-130)
LCS 440-526002/5	Lab Control Sample	98	103
LCSD 440-525938/6	Lab Control Sample Dup	100	98
MB 440-525787/4	Method Blank	100	104
MB 440-525938/4	Method Blank	98	107
MB 440-526002/4	Method Blank	99	106

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
720-90959-C-1 MS	Matrix Spike	96	99
720-90959-C-1 MSD	Matrix Spike Duplicate	98	97
720-91011-1	DG-AW11W	97	100
720-91011-2	DG-AM15W	97	100
720-91011-3	DG-AK15W	96	100
720-91011-4	DG-AG15W	95	101
720-91011-5	TB-W-1.24.2019	95	100
720-91011-6	FB-1.24.2019	99	101
720-91011-7	DUP-76	98	101
LCS 440-526188/5	Lab Control Sample	94	97
MB 440-526188/4	Method Blank	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-91011-8	DG-AI15S-0.5-1	103	120	111
720-91011-8 MS	DG-AI15S-0.5-1	104	112	101
720-91011-8 MSD	DG-AI15S-0.5-1	105	100	98
720-91011-9	DG-AI15S-3.5-4	106	99	97
720-91011-10	DUP-112	102	102	98
720-91011-11	DG-AJ17S-0.5-1	106	99	95
720-91011-12	DG-AJ17S-3.5-4	103	101	100
720-91011-13	DG-AJ17S-9.5-10	103	100	97
720-91011-14	DG-AH17S-0.5-1	104	99	97
720-91011-15	DG-AG15S-0.5-1	102	100	100
720-91011-16	DG-AG15S-3.5-4	104	101	98
720-91011-17	DG-AG15S-8.5-9	104	104	101
720-91011-18	DG-AD17S-0.5-1	103	99	98
720-91011-19	DG-AD17S-7-7.5	104	99	97

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91011-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-91011-20	DUP-125	102	97	99
720-91011-23	DG-AB17S-3.5-4	105	103	101
720-91011-24	DG-AA19S-0.5-1	103	114	102
720-91011-25	DG-AA19S-3.5-4	100	104	98
720-91011-26	DG-AA19S-8.5-9	103	102	97
720-91048-A-16-A MS	Matrix Spike	105	100	98
720-91048-A-16-B MSD	Matrix Spike Duplicate	102	101	100
LCS 440-525788/6	Lab Control Sample	102	97	101
LCS 440-525939/7	Lab Control Sample	101	100	99
LCS 440-526003/6	Lab Control Sample	101	102	100
LCSD 440-525939/8	Lab Control Sample Dup	101	101	99
MB 440-525788/4	Method Blank	102	97	100
MB 440-525939/4	Method Blank	103	99	98
MB 440-526003/4	Method Blank	102	101	99

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
720-91011-21	DG-AD17S-3.5-4	105	93	109
720-91011-21 MS	DG-AD17S-3.5-4	105	92	104
720-91011-21 MSD	DG-AD17S-3.5-4	106	92	105
720-91011-22	DG-AB17S-0.5-1	104	93	107
LCS 440-526746/7	Lab Control Sample	103	90	110
LCSD 440-526746/8	Lab Control Sample Dup	103	91	109
MB 440-526746/4	Method Blank	106	89	110

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-231832-C-2 MS	Matrix Spike	94	112	75 X
440-231832-C-2 MSD	Matrix Spike Duplicate	92	109	62 X
720-90959-C-1 MS	Matrix Spike	99	100	99
720-90959-C-1 MSD	Matrix Spike Duplicate	101	97	97
720-91011-1	DG-AW11W	88	111	107
720-91011-2	DG-AM15W	99	97	100
720-91011-3	DG-AK15W	101	95	100

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91011-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (76-132)	BFB (80-120)	TOL (80-128)
720-91011-4	DG-AG15W	99	97	101
720-91011-5	TB-W-1.24.2019	100	97	100
720-91011-6	FB-1.24.2019	100	98	101
720-91011-7	DUP-76	102	99	101
LCS 440-526189/6	Lab Control Sample	100	99	100
LCS 440-526488/7	Lab Control Sample	88	112	108
MB 440-526189/4	Method Blank	100	98	100
MB 440-526488/5	Method Blank	92	107	109

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (29-120)	TPHL (10-120)	NBZ (11-118)
720-91011-8	DG-AI15S-0.5-1	91	90	196 X
720-91011-8 MS	DG-AI15S-0.5-1	122 X	124 X	122 X
720-91011-8 MSD	DG-AI15S-0.5-1	126 X	124 X	111
720-91011-9	DG-AI15S-3.5-4	79	92	97
720-91011-10	DUP-112	103	102	89
720-91011-11	DG-AJ17S-0.5-1	99	101	96
720-91011-12	DG-AJ17S-3.5-4	91	94	85
720-91011-13	DG-AJ17S-9.5-10	94	100	94
720-91011-14	DG-AH17S-0.5-1	105	107	103
720-91011-15	DG-AG15S-0.5-1	86	91	122 X
720-91011-16	DG-AG15S-3.5-4	86	94	133 X
720-91011-17	DG-AG15S-8.5-9	75	77	135 X
720-91011-18	DG-AD17S-0.5-1	91	96	129 X
720-91011-19	DG-AD17S-7-7.5	91	99	110
720-91011-20	DUP-125	86	90	329 X
720-91011-21	DG-AD17S-3.5-4	79	87	176 X
720-91011-21 - RA	DG-AD17S-3.5-4	83	88	136 X
720-91011-21 MS	DG-AD17S-3.5-4	83	88	182 X
720-91011-21 MSD	DG-AD17S-3.5-4	86	92	205 X
720-91011-22	DG-AB17S-0.5-1	78	79	234 X
720-91011-23	DG-AB17S-3.5-4	88	91	228 X
720-91011-24	DG-AA19S-0.5-1	91	89	84
720-91011-25	DG-AA19S-3.5-4	90	91	89
720-91011-26	DG-AA19S-8.5-9	84	93	79
LCS 440-525490/2-A	Lab Control Sample	100	112	79
LCS 440-525490/2-A	Lab Control Sample	88	94	100
MB 440-525490/1-A	Method Blank	95	107	103
MB 440-525490/1-A	Method Blank	87	96	99

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

TPHL = Terphenyl-d14
NBZ = Nitrobenzene-d5

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-91011-1	DG-AW11W	87	117	70
720-91011-2	DG-AM15W	68	98	57
720-91011-3	DG-AK15W	0 X	0 X	0 X
720-91011-4	DG-AG15W	73	398 X	0 X
720-91011-7	DUP-76	88	124 X	50
LCS 440-525569/2-A	Lab Control Sample	98	98	118
LCSD 440-525569/3-A	Lab Control Sample Dup	98	76	125 X
MB 440-525569/1-A	Method Blank	98	100	123 X

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(40-140)
440-229282-A-1-A MS	Matrix Spike	58
440-229282-A-1-B MSD	Matrix Spike Duplicate	87
440-231937-A-3-A MS	Matrix Spike	86
440-231937-A-3-B MSD	Matrix Spike Duplicate	70
720-91011-8	DG-AI15S-0.5-1	84
720-91011-8 MS	DG-AI15S-0.5-1	75
720-91011-8 MSD	DG-AI15S-0.5-1	81
720-91011-9	DG-AI15S-3.5-4	93
720-91011-10	DUP-112	64
720-91011-11	DG-AJ17S-0.5-1	56
720-91011-12	DG-AJ17S-3.5-4	60
720-91011-13	DG-AJ17S-9.5-10	55
720-91011-14	DG-AH17S-0.5-1	71
720-91011-15	DG-AG15S-0.5-1	87
720-91011-16	DG-AG15S-3.5-4	64
720-91011-17	DG-AG15S-8.5-9	78
720-91011-18	DG-AD17S-0.5-1	91
720-91011-19	DG-AD17S-7-7.5	89
720-91011-20	DUP-125	69
720-91011-21	DG-AD17S-3.5-4	83
720-91011-21 MS	DG-AD17S-3.5-4	85
720-91011-21 MSD	DG-AD17S-3.5-4	83
720-91011-22	DG-AB17S-0.5-1	91
720-91011-23	DG-AB17S-3.5-4	54
720-91011-24	DG-AA19S-0.5-1	73
720-91011-25	DG-AA19S-3.5-4	96
720-91011-26	DG-AA19S-8.5-9	91
LCS 440-525292/2-A	Lab Control Sample	88

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91011-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (40-140)
LCS 440-525503/2-A	Lab Control Sample	108
LCS 440-525719/2-A	Lab Control Sample	85
LCS 440-526368/2-A	Lab Control Sample	93
MB 440-525292/1-A	Method Blank	84
MB 440-525503/1-A	Method Blank	107
MB 440-525719/1-A	Method Blank	85
MB 440-526368/1-A	Method Blank	89

Surrogate Legend
OTCN = n-Octacosane

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
720-91011-1	DG-AW11W	79
720-91011-2	DG-AM15W	64
720-91011-3	DG-AK15W	69
720-91011-4	DG-AG15W	69
720-91011-7	DUP-76	77
LCS 440-525296/2-A	Lab Control Sample	79
LCSD 440-525296/3-A	Lab Control Sample Dup	75
MB 440-525296/1-A	Method Blank	82

Surrogate Legend
OTCN = n-Octacosane

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (28-115)	DCB2 (21-117)
440-231839-A-1-A MS	Matrix Spike	70	72
440-231839-A-1-B MSD	Matrix Spike Duplicate	73	73
720-91011-8	DG-AI15S-0.5-1	59	62
720-91011-8 MS	DG-AI15S-0.5-1	74	64
720-91011-8 MSD	DG-AI15S-0.5-1	76	70
720-91011-9	DG-AI15S-3.5-4	61	36
720-91011-10	DUP-112	70	46
720-91011-11	DG-AJ17S-0.5-1	53	37
720-91011-12	DG-AJ17S-3.5-4	62	41
720-91011-13	DG-AJ17S-9.5-10	60	39
720-91011-14	DG-AH17S-0.5-1	47	33
720-91011-15	DG-AG15S-0.5-1	50	34
720-91011-16	DG-AG15S-3.5-4	49	35
720-91011-17	DG-AG15S-8.5-9	86	64
720-91011-18	DG-AD17S-0.5-1	54	36
720-91011-19	DG-AD17S-7-7.5	88	75
720-91011-20	DUP-125	70	80

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91011-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (28-115)	DCB2 (21-117)
720-91011-21	DG-AD17S-3.5-4	55	44
720-91011-21 MS	DG-AD17S-3.5-4	75	66
720-91011-21 MSD	DG-AD17S-3.5-4	74	63
720-91011-22	DG-AB17S-0.5-1	42	41
720-91011-23	DG-AB17S-3.5-4	45	60 p
720-91011-24	DG-AA19S-0.5-1	55	65
720-91011-25	DG-AA19S-3.5-4	76	58
720-91011-26	DG-AA19S-8.5-9	49	60
LCS 440-525476/2-A	Lab Control Sample	85	80
LCS 440-525871/2-A	Lab Control Sample	85	81
LCS 440-525988/2-A	Lab Control Sample	69	76
MB 440-525476/1-A	Method Blank	92	82
MB 440-525871/1-A	Method Blank	58	69
MB 440-525988/1-A	Method Blank	76	84

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
720-91011-8	DG-AI15S-0.5-1	56
720-91011-8 MS	DG-AI15S-0.5-1	63
720-91011-8 MSD	DG-AI15S-0.5-1	60
720-91011-9	DG-AI15S-3.5-4	48
720-91011-10	DUP-112	50
720-91011-11	DG-AJ17S-0.5-1	52
720-91011-12	DG-AJ17S-3.5-4	58
720-91011-13	DG-AJ17S-9.5-10	58
720-91011-14	DG-AH17S-0.5-1	48
720-91011-15	DG-AG15S-0.5-1	52
720-91011-16	DG-AG15S-3.5-4	49
720-91011-17	DG-AG15S-8.5-9	47
720-91011-18	DG-AD17S-0.5-1	48
720-91011-19	DG-AD17S-7-7.5	59
720-91011-20	DUP-125	63
720-91011-21	DG-AD17S-3.5-4	74
720-91011-21 MS	DG-AD17S-3.5-4	74
720-91011-21 MSD	DG-AD17S-3.5-4	81
720-91011-22	DG-AB17S-0.5-1	63
720-91011-23	DG-AB17S-3.5-4	69
720-91011-24	DG-AA19S-0.5-1	69
720-91011-25	DG-AA19S-3.5-4	90
720-91011-26	DG-AA19S-8.5-9	60
720-91048-F-19-B MS	Matrix Spike	60
720-91048-F-19-C MSD	Matrix Spike Duplicate	57
LCS 440-525476/5-A	Lab Control Sample	98

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91011-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCB2 (45-120)								
LCS 440-525871/5-A	Lab Control Sample	83								
LCS 440-526140/2-A	Lab Control Sample	98								
MB 440-525476/1-A	Method Blank	99								
MB 440-525871/1-A	Method Blank	74								
MB 440-526140/1-A	Method Blank	94								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 720-91011-21 MS
Client Sample ID: DG-AD17S-3.5-4
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 526004
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		1530	1660		ug/Kg		109	50 - 145
1,1,1,2-Tetrachloroethane	ND		1530	1540		ug/Kg		101	60 - 150
1,1,1-Trichloroethane	ND		1530	1630		ug/Kg		107	60 - 140
1,1,2,2-Tetrachloroethane	ND		1530	1580		ug/Kg		103	50 - 145
1,1,2-Trichloroethane	ND		1530	1590		ug/Kg		104	60 - 145
1,1-Dichloroethane	ND		1530	1560		ug/Kg		102	60 - 145
1,1-Dichloroethene	ND		1530	1610		ug/Kg		105	55 - 155
1,1-Dichloropropene	ND		1530	1700		ug/Kg		111	60 - 140
1,2,3-Trichlorobenzene	ND		1530	1650		ug/Kg		108	50 - 140
1,2,4-Trichlorobenzene	ND		1530	1690		ug/Kg		111	60 - 140
1,2,4-Trimethylbenzene	ND		1530	1650		ug/Kg		108	60 - 140
1,2-Dibromo-3-Chloropropane	ND		1530	1520		ug/Kg		100	40 - 160
1,2-Dichlorobenzene	ND		1530	1630		ug/Kg		107	60 - 135
1,2-Dichloroethane	ND		1530	1480		ug/Kg		97	60 - 145
1,2-Dichloropropane	ND		1530	1630		ug/Kg		107	60 - 140
1,3,5-Trimethylbenzene	ND		1530	1640		ug/Kg		107	65 - 140
1,3-Dichlorobenzene	ND		1530	1660		ug/Kg		109	60 - 145
1,3-Dichloropropane	ND		1530	1580		ug/Kg		103	65 - 135
1,4-Dichlorobenzene	ND		1530	1630		ug/Kg		107	60 - 140
2,2-Dichloropropane	ND		1530	1620		ug/Kg		106	50 - 150
2-Chlorotoluene	ND		1530	1650		ug/Kg		108	60 - 145
2-Hexanone	ND		1530	1380	J	ug/Kg		90	30 - 155
4-Chlorotoluene	ND		1530	1630		ug/Kg		106	65 - 140
4-Isopropyltoluene	ND		1530	1740		ug/Kg		114	60 - 140
Benzene	ND		1530	1600		ug/Kg		105	55 - 140
Bromobenzene	ND		1530	1630		ug/Kg		107	60 - 140
Bromoform	ND		1530	1520		ug/Kg		99	50 - 140
Bromomethane	ND		1530	1560		ug/Kg		102	30 - 140
Carbon disulfide	ND		1530	1610		ug/Kg		106	50 - 130
Carbon tetrachloride	ND		1530	1650		ug/Kg		108	65 - 145
Chlorobenzene	ND		1530	1640		ug/Kg		107	65 - 145
Chlorobromomethane	ND		1530	1580		ug/Kg		103	60 - 145
Chloroethane	ND		1530	1490		ug/Kg		97	35 - 140
Chloroform	ND		1530	1590		ug/Kg		104	60 - 140
Chloromethane	ND		1530	1390		ug/Kg		91	25 - 140
cis-1,2-Dichloroethene	ND		1530	1630		ug/Kg		106	55 - 135
cis-1,3-Dichloropropene	ND		1530	1640		ug/Kg		107	65 - 140
Chlorodibromomethane	ND		1530	1590		ug/Kg		104	55 - 150
Dibromomethane	ND		1530	1610		ug/Kg		105	65 - 135
Dichlorobromomethane	ND		1530	1550		ug/Kg		101	60 - 150
Dichlorodifluoromethane	ND		1530	1550		ug/Kg		102	10 - 155
Ethylbenzene	ND		1530	1600		ug/Kg		105	50 - 150
Hexachlorobutadiene	ND		1530	1740		ug/Kg		114	55 - 145
Isopropylbenzene	ND		1530	1620		ug/Kg		106	65 - 145
m-Xylene & p-Xylene	ND		1530	1630		ug/Kg		106	60 - 145
Methylene Chloride	ND		1530	1330	J	ug/Kg		87	55 - 145
Methyl tert-butyl ether	ND		1530	1470		ug/Kg		96	55 - 155
Naphthalene	ND		1530	1600		ug/Kg		104	35 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-21 MS
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: DG-AD17S-3.5-4
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Butylbenzene	ND		1530	1750		ug/Kg		115	55 - 155
N-Propylbenzene	ND		1530	1690		ug/Kg		110	50 - 150
o-Xylene	ND		1530	1610		ug/Kg		105	55 - 145
sec-Butylbenzene	ND		1530	1680		ug/Kg		110	55 - 145
Styrene	ND		1530	1510		ug/Kg		99	60 - 150
tert-Butylbenzene	ND		1530	1750		ug/Kg		115	65 - 150
Tetrachloroethene	ND		1530	1700		ug/Kg		111	60 - 150
Toluene	ND		1530	1570		ug/Kg		103	55 - 140
trans-1,2-Dichloroethene	ND		1530	1730		ug/Kg		113	55 - 145
trans-1,3-Dichloropropene	ND		1530	1560		ug/Kg		102	60 - 145
Trichloroethene	ND		1530	1690		ug/Kg		111	65 - 150
Trichlorofluoromethane	ND		1530	1700		ug/Kg		111	35 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1530	1750		ug/Kg		115	60 - 140
Vinyl acetate	ND		1530	1550		ug/Kg		101	20 - 145
Vinyl chloride	ND		1530	1350		ug/Kg		89	10 - 120
Ethylene Dibromide	ND		1530	1580		ug/Kg		103	65 - 145
2-Butanone (MEK)	ND		1530	1680		ug/Kg		110	20 - 175
4-Methyl-2-pentanone (MIBK)	ND		1530	1370		ug/Kg		90	35 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*

Lab Sample ID: 720-91011-21 MSD
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: DG-AD17S-3.5-4
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		1530	1660		ug/Kg		109	50 - 145	0	30
1,1,1,2-Tetrachloroethane	ND		1530	1590		ug/Kg		104	60 - 150	3	20
1,1,1-Trichloroethane	ND		1530	1690		ug/Kg		111	60 - 140	3	20
1,1,2,2-Tetrachloroethane	ND		1530	1610		ug/Kg		105	50 - 145	2	25
1,1,2-Trichloroethane	ND		1530	1570		ug/Kg		103	60 - 145	1	25
1,1-Dichloroethane	ND		1530	1570		ug/Kg		102	60 - 145	0	25
1,1-Dichloroethene	ND		1530	1600		ug/Kg		105	55 - 155	1	25
1,1-Dichloropropene	ND		1530	1690		ug/Kg		110	60 - 140	1	25
1,2,3-Trichlorobenzene	ND		1530	1570		ug/Kg		103	50 - 140	5	25
1,2,4-Trichlorobenzene	ND		1530	1630		ug/Kg		107	60 - 140	4	25
1,2,4-Trimethylbenzene	ND		1530	1620		ug/Kg		106	60 - 140	2	25
1,2-Dibromo-3-Chloropropane	ND		1530	1420		ug/Kg		93	40 - 160	7	30
1,2-Dichlorobenzene	ND		1530	1590		ug/Kg		104	60 - 135	2	25
1,2-Dichloroethane	ND		1530	1540		ug/Kg		100	60 - 145	3	25
1,2-Dichloropropane	ND		1530	1660		ug/Kg		109	60 - 140	2	25
1,3,5-Trimethylbenzene	ND		1530	1630		ug/Kg		107	65 - 140	1	25
1,3-Dichlorobenzene	ND		1530	1630		ug/Kg		106	60 - 145	2	25
1,3-Dichloropropane	ND		1530	1530		ug/Kg		100	65 - 135	3	25
1,4-Dichlorobenzene	ND		1530	1580		ug/Kg		103	60 - 140	3	25
2,2-Dichloropropane	ND		1530	1590		ug/Kg		104	50 - 150	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-21 MSD **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526004 **Prep Batch: 525455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		1530	1590		ug/Kg		104	60 - 145	4	25
2-Hexanone	ND		1530	1330	J	ug/Kg		87	30 - 155	4	40
4-Chlorotoluene	ND		1530	1580		ug/Kg		104	65 - 140	3	25
4-Isopropyltoluene	ND		1530	1690		ug/Kg		110	60 - 140	3	25
Benzene	ND		1530	1650		ug/Kg		108	55 - 140	3	25
Bromobenzene	ND		1530	1620		ug/Kg		106	60 - 140	1	25
Bromoform	ND		1530	1490		ug/Kg		97	50 - 140	2	30
Bromomethane	ND		1530	1560		ug/Kg		102	30 - 140	0	30
Carbon disulfide	ND		1530	1600		ug/Kg		105	50 - 130	1	25
Carbon tetrachloride	ND		1530	1670		ug/Kg		109	65 - 145	1	25
Chlorobenzene	ND		1530	1600		ug/Kg		105	65 - 145	3	25
Chlorobromomethane	ND		1530	1620		ug/Kg		106	60 - 145	2	25
Chloroethane	ND		1530	1460		ug/Kg		96	35 - 140	2	30
Chloroform	ND		1530	1650		ug/Kg		108	60 - 140	3	25
Chloromethane	ND		1530	1400		ug/Kg		92	25 - 140	0	30
cis-1,2-Dichloroethene	ND		1530	1590		ug/Kg		104	55 - 135	2	25
cis-1,3-Dichloropropene	ND		1530	1580		ug/Kg		103	65 - 140	4	25
Chlorodibromomethane	ND		1530	1550		ug/Kg		102	55 - 150	2	25
Dibromomethane	ND		1530	1570		ug/Kg		103	65 - 135	2	25
Dichlorobromomethane	ND		1530	1570		ug/Kg		103	60 - 150	1	25
Dichlorodifluoromethane	ND		1530	1560		ug/Kg		102	10 - 155	0	35
Ethylbenzene	ND		1530	1560		ug/Kg		102	50 - 150	3	25
Hexachlorobutadiene	ND		1530	1710		ug/Kg		112	55 - 145	1	35
Isopropylbenzene	ND		1530	1580		ug/Kg		104	65 - 145	2	25
m-Xylene & p-Xylene	ND		1530	1630		ug/Kg		106	60 - 145	0	25
Methylene Chloride	ND		1530	1330	J	ug/Kg		87	55 - 145	0	25
Methyl tert-butyl ether	ND		1530	1540		ug/Kg		101	55 - 155	5	30
Naphthalene	ND		1530	1560		ug/Kg		102	35 - 160	2	30
n-Butylbenzene	ND		1530	1690		ug/Kg		110	55 - 155	4	25
N-Propylbenzene	ND		1530	1610		ug/Kg		106	50 - 150	4	25
o-Xylene	ND		1530	1620		ug/Kg		106	55 - 145	1	25
sec-Butylbenzene	ND		1530	1630		ug/Kg		106	55 - 145	3	25
Styrene	ND		1530	1510		ug/Kg		98	60 - 150	0	25
tert-Butylbenzene	ND		1530	1700		ug/Kg		111	65 - 150	3	25
Tetrachloroethene	ND		1530	1640		ug/Kg		107	60 - 150	4	25
Toluene	ND		1530	1520		ug/Kg		99	55 - 140	3	25
trans-1,2-Dichloroethene	ND		1530	1670		ug/Kg		109	55 - 145	4	25
trans-1,3-Dichloropropene	ND		1530	1480		ug/Kg		97	60 - 145	5	25
Trichloroethene	ND		1530	1700		ug/Kg		111	65 - 150	0	25
Trichlorofluoromethane	ND		1530	1700		ug/Kg		111	35 - 150	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1530	1630		ug/Kg		107	60 - 140	7	40
Vinyl acetate	ND		1530	1570		ug/Kg		103	20 - 145	1	30
Vinyl chloride	ND		1530	1400		ug/Kg		92	10 - 120	3	35
Ethylene Dibromide	ND		1530	1510		ug/Kg		99	65 - 145	4	25
2-Butanone (MEK)	ND		1530	1420	J	ug/Kg		93	20 - 175	17	40
4-Methyl-2-pentanone (MIBK)	ND		1530	1320		ug/Kg		87	35 - 155	3	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-21 MSD **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526004 **Prep Batch: 525455**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*96*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*

Lab Sample ID: 720-91011-D-21-B MS **Client Sample ID: 720-91011-D-21-B MS**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526745 **Prep Batch: 525455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	0.000		1910	1770		ug/Kg		93	60 - 145
1,2-Dichlorobenzene	0.000		1910	1830		ug/Kg		96	60 - 135
1,3-Dichlorobenzene	0.000		1910	1830		ug/Kg		96	60 - 145
4-Chlorotoluene	0.000		1910	1790		ug/Kg		94	65 - 140
1,4-Dichlorobenzene	0.000		1910	1840		ug/Kg		96	60 - 140
1,3-Dichloropropane	0.000		1910	2030		ug/Kg		106	65 - 135
Benzene	0.000		1910	2070		ug/Kg		108	55 - 140
1,1-Dichloropropene	0.000		1910	2260		ug/Kg		118	60 - 140
Bromobenzene	0.000		1910	1940		ug/Kg		102	60 - 140
1,2-Dibromo-3-Chloropropane	0.000		1910	2020		ug/Kg		106	40 - 160
Bromoform	0.000		1910	2460		ug/Kg		129	50 - 140
Bromomethane	0.000		1910	1980		ug/Kg		103	30 - 140
Carbon disulfide	0.000		1910	2100		ug/Kg		110	50 - 130
Carbon tetrachloride	0.000		1910	2270		ug/Kg		119	65 - 145
1,1-Dichloroethane	0.000		1910	1630		ug/Kg		85	60 - 145
Chlorobenzene	0.000		1910	2010		ug/Kg		105	65 - 145
1,2-Dichloroethane	0.000		1910	1970		ug/Kg		103	60 - 145
Chlorobromomethane	0.000		1910	2090		ug/Kg		110	60 - 145
1,1-Dichloroethene	0.000		1910	2150		ug/Kg		112	55 - 155
Chloroethane	0.000		1910	1520		ug/Kg		80	35 - 140
Chloroform	0.000		1910	2230		ug/Kg		117	60 - 140
Chloromethane	0.000		1910	1610		ug/Kg		84	25 - 140
1,2-Dichloropropane	0.000		1910	1550		ug/Kg		81	60 - 140
cis-1,2-Dichloroethene	0.000		1910	2260		ug/Kg		118	55 - 135
cis-1,3-Dichloropropene	0.000		1910	2250		ug/Kg		118	65 - 140
Chlorodibromomethane	0.000		1910	2070		ug/Kg		108	55 - 150
Dibromomethane	0.000		1910	2150		ug/Kg		112	65 - 135
Dichlorobromomethane	0.000		1910	2150		ug/Kg		113	60 - 150
2-Hexanone	0.000		1910	1750		ug/Kg		92	30 - 155
Dichlorodifluoromethane	0.000		1910	2070		ug/Kg		108	10 - 155
Ethylbenzene	0.000		1910	2050		ug/Kg		107	50 - 150
4-Isopropyltoluene	0.000		1910	1750		ug/Kg		92	60 - 140
Hexachlorobutadiene	0.000		1910	2400		ug/Kg		126	55 - 145
Isopropylbenzene	0.000		1910	2020		ug/Kg		106	65 - 145
Methylene Chloride	39.8		1910	2140		ug/Kg		112	55 - 145
Methyl tert-butyl ether	0.000		1910	2490		ug/Kg		130	55 - 155
Naphthalene	11.9		1910	1850		ug/Kg		97	35 - 160
1,1,1,2-Tetrachloroethane	0.000		1910	2080		ug/Kg		109	60 - 150
n-Butylbenzene	0.000		1910	1820		ug/Kg		95	55 - 155
1,1,2,2-Tetrachloroethane	57.5		1910	1790		ug/Kg		91	50 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-D-21-B MS **Client Sample ID: 720-91011-D-21-B MS**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526745 **Prep Batch: 525455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	0.000		1910	1780		ug/Kg		93	50 - 150
sec-Butylbenzene	0.000		1910	1740		ug/Kg		91	55 - 145
1,2,3-Trichlorobenzene	0.000		1910	2290		ug/Kg		120	50 - 140
Styrene	0.000		1910	1770		ug/Kg		93	60 - 150
1,2,4-Trichlorobenzene	0.000		1910	2320		ug/Kg		121	60 - 140
tert-Butylbenzene	0.000		1910	1730		ug/Kg		91	65 - 150
1,1,1-Trichloroethane	0.000		1910	2340		ug/Kg		122	60 - 140
Tetrachloroethene	0.000		1910	2360		ug/Kg		123	60 - 150
1,1,2-Trichloroethane	0.000		1910	2070		ug/Kg		109	60 - 145
Toluene	14.7		1910	2030		ug/Kg		106	55 - 140
trans-1,2-Dichloroethene	0.000		1910	2160		ug/Kg		113	55 - 145
1,2,3-Trichloropropane	0.000		1910	1930		ug/Kg		101	50 - 145
trans-1,3-Dichloropropene	0.000		1910	2220		ug/Kg		116	60 - 145
Trichloroethene	0.000		1910	2120		ug/Kg		111	65 - 150
1,2,4-Trimethylbenzene	0.000		1910	1770		ug/Kg		93	60 - 140
Trichlorofluoromethane	0.000		1910	2180		ug/Kg		114	35 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000		1910	2200		ug/Kg		115	60 - 140
1,3,5-Trimethylbenzene	0.000		1910	1770		ug/Kg		92	65 - 140
Vinyl acetate	0.000		1910	2010		ug/Kg		105	20 - 145
Vinyl chloride	0.000		1910	956		ug/Kg		50	10 - 120
m-Xylene & p-Xylene	0.000		1910	1990		ug/Kg		104	60 - 145
Ethylene Dibromide	0.000		1910	2040		ug/Kg		107	65 - 145
o-Xylene	0.000		1910	2030		ug/Kg		106	55 - 145
2-Butanone (MEK)	0.000		1910	2060		ug/Kg		108	20 - 175
4-Methyl-2-pentanone (MIBK)	0.000		1910	1770		ug/Kg		92	35 - 155
2,2-Dichloropropane	0.000		1910	2230		ug/Kg		117	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*104*		*60 - 140*

Lab Sample ID: 720-91011-D-21-C MSD **Client Sample ID: 720-91011-D-21-C MSD**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526745 **Prep Batch: 525455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	0.000		1910	1790		ug/Kg		93	60 - 145	1	25
1,2-Dichlorobenzene	0.000		1910	1820		ug/Kg		95	60 - 135	0	25
1,3-Dichlorobenzene	0.000		1910	1800		ug/Kg		94	60 - 145	2	25
4-Chlorotoluene	0.000		1910	1760		ug/Kg		92	65 - 140	2	25
1,4-Dichlorobenzene	0.000		1910	1820		ug/Kg		95	60 - 140	1	25
1,3-Dichloropropane	0.000		1910	2050		ug/Kg		107	65 - 135	1	25
Benzene	0.000		1910	2020		ug/Kg		106	55 - 140	2	25
1,1-Dichloropropene	0.000		1910	2180		ug/Kg		114	60 - 140	4	25
Bromobenzene	0.000		1910	1950		ug/Kg		102	60 - 140	1	25
1,2-Dibromo-3-Chloropropane	0.000		1910	1850		ug/Kg		97	40 - 160	9	30
Bromoform	0.000		1910	2410		ug/Kg		126	50 - 140	2	30
Bromomethane	0.000		1910	1910		ug/Kg		100	30 - 140	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-D-21-C MSD
Client Sample ID: 720-91011-D-21-C MSD
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 526745
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	0.000		1910	2070		ug/Kg		108	50 - 130	2	25
Carbon tetrachloride	0.000		1910	2190		ug/Kg		114	65 - 145	4	25
1,1-Dichloroethane	0.000		1910	1600		ug/Kg		84	60 - 145	2	25
Chlorobenzene	0.000		1910	2020		ug/Kg		106	65 - 145	0	25
1,2-Dichloroethane	0.000		1910	1930		ug/Kg		101	60 - 145	2	25
Chlorobromomethane	0.000		1910	2090		ug/Kg		109	60 - 145	0	25
1,1-Dichloroethene	0.000		1910	2180		ug/Kg		114	55 - 155	2	25
Chloroethane	0.000		1910	1540		ug/Kg		80	35 - 140	1	30
Chloroform	0.000		1910	2170		ug/Kg		113	60 - 140	3	25
Chloromethane	0.000		1910	1580		ug/Kg		83	25 - 140	2	30
1,2-Dichloropropane	0.000		1910	1570		ug/Kg		82	60 - 140	1	25
cis-1,2-Dichloroethene	0.000		1910	2200		ug/Kg		115	55 - 135	3	25
cis-1,3-Dichloropropene	0.000		1910	2250		ug/Kg		118	65 - 140	0	25
Chlorodibromomethane	0.000		1910	2070		ug/Kg		108	55 - 150	0	25
Dibromomethane	0.000		1910	2110		ug/Kg		111	65 - 135	2	25
Dichlorobromomethane	0.000		1910	2160		ug/Kg		113	60 - 150	0	25
2-Hexanone	0.000		1910	1680		ug/Kg		88	30 - 155	4	40
Dichlorodifluoromethane	0.000		1910	2030		ug/Kg		106	10 - 155	2	35
Ethylbenzene	0.000		1910	2060		ug/Kg		108	50 - 150	0	25
4-Isopropyltoluene	0.000		1910	1750		ug/Kg		91	60 - 140	0	25
Hexachlorobutadiene	0.000		1910	2430		ug/Kg		127	55 - 145	1	35
Isopropylbenzene	0.000		1910	2090		ug/Kg		109	65 - 145	3	25
Methylene Chloride	39.8		1910	2110		ug/Kg		110	55 - 145	2	25
Methyl tert-butyl ether	0.000		1910	2400		ug/Kg		126	55 - 155	4	30
Naphthalene	11.9		1910	1810		ug/Kg		95	35 - 160	2	30
1,1,1,2-Tetrachloroethane	0.000		1910	2060		ug/Kg		108	60 - 150	1	20
n-Butylbenzene	0.000		1910	1810		ug/Kg		95	55 - 155	1	25
1,1,2,2-Tetrachloroethane	57.5		1910	1730		ug/Kg		88	50 - 145	3	25
N-Propylbenzene	0.000		1910	1780		ug/Kg		93	50 - 150	0	25
sec-Butylbenzene	0.000		1910	1720		ug/Kg		90	55 - 145	1	25
1,2,3-Trichlorobenzene	0.000		1910	2180		ug/Kg		114	50 - 140	5	25
Styrene	0.000		1910	1810		ug/Kg		94	60 - 150	2	25
1,2,4-Trichlorobenzene	0.000		1910	2300		ug/Kg		120	60 - 140	1	25
tert-Butylbenzene	0.000		1910	1710		ug/Kg		90	65 - 150	1	25
1,1,1-Trichloroethane	0.000		1910	2280		ug/Kg		120	60 - 140	2	20
Tetrachloroethene	0.000		1910	2380		ug/Kg		125	60 - 150	1	25
1,1,2-Trichloroethane	0.000		1910	2040		ug/Kg		107	60 - 145	1	25
Toluene	14.7		1910	2040		ug/Kg		107	55 - 140	1	25
trans-1,2-Dichloroethene	0.000		1910	2050		ug/Kg		107	55 - 145	5	25
1,2,3-Trichloropropane	0.000		1910	1830		ug/Kg		96	50 - 145	5	30
trans-1,3-Dichloropropene	0.000		1910	2220		ug/Kg		116	60 - 145	0	25
Trichloroethene	0.000		1910	2050		ug/Kg		107	65 - 150	4	25
1,2,4-Trimethylbenzene	0.000		1910	1760		ug/Kg		92	60 - 140	1	25
Trichlorofluoromethane	0.000		1910	2120		ug/Kg		111	35 - 150	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000		1910	2150		ug/Kg		113	60 - 140	2	40
1,3,5-Trimethylbenzene	0.000		1910	1790		ug/Kg		94	65 - 140	1	25
Vinyl acetate	0.000		1910	1910		ug/Kg		100	20 - 145	5	30
Vinyl chloride	0.000		1910	932		ug/Kg		49	10 - 120	3	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-D-21-C MSD
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: 720-91011-D-21-C MSD
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.000		1910	2040		ug/Kg		107	60 - 145	3	25
Ethylene Dibromide	0.000		1910	1980		ug/Kg		104	65 - 145	3	25
o-Xylene	0.000		1910	2090		ug/Kg		109	55 - 145	3	25
2-Butanone (MEK)	0.000		1910	1860		ug/Kg		97	20 - 175	10	40
4-Methyl-2-pentanone (MIBK)	0.000		1910	1660		ug/Kg		87	35 - 155	6	40
2,2-Dichloropropane	0.000		1910	2150		ug/Kg		112	50 - 150	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*105*		*60 - 140*

Lab Sample ID: MB 440-525787/4
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Benzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/30/19 10:53	1
Bromoform	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/30/19 10:53	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/30/19 10:53	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Chloroform	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
2-Hexanone	ND		10	5.0	ug/Kg			01/30/19 10:53	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525787/4
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/30/19 10:53	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Styrene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/30/19 10:53	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Toluene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/30/19 10:53	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/30/19 10:53	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/30/19 10:53	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/30/19 10:53	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/30/19 10:53	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/30/19 10:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/30/19 10:53	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/30/19 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/30/19 10:53*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/30/19 10:53*	*1*

Lab Sample ID: LCS 440-525787/5
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	50.0	48.1		ug/Kg		96	70 - 125
1,2-Dichlorobenzene	50.0	49.3		ug/Kg		99	75 - 120
1,3-Dichlorobenzene	50.0	49.5		ug/Kg		99	75 - 125
4-Chlorotoluene	50.0	48.9		ug/Kg		98	75 - 125
1,4-Dichlorobenzene	50.0	48.4		ug/Kg		97	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525787/5
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	49.5		ug/Kg		99	70 - 125
Benzene	50.0	49.1		ug/Kg		98	65 - 120
1,1-Dichloropropene	50.0	51.0		ug/Kg		102	70 - 130
Bromobenzene	50.0	50.2		ug/Kg		100	75 - 120
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/Kg		106	50 - 135
Bromoform	50.0	52.9		ug/Kg		106	55 - 135
Bromomethane	50.0	50.2		ug/Kg		100	60 - 145
Carbon disulfide	50.0	51.6		ug/Kg		103	50 - 130
Carbon tetrachloride	50.0	50.9		ug/Kg		102	65 - 140
1,1-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 130
Chlorobenzene	50.0	49.4		ug/Kg		99	75 - 120
1,2-Dichloroethane	50.0	47.1		ug/Kg		94	60 - 140
Chlorobromomethane	50.0	51.8		ug/Kg		104	70 - 135
1,1-Dichloroethene	50.0	49.3		ug/Kg		99	70 - 125
Chloroethane	50.0	47.3		ug/Kg		95	60 - 140
Chloroform	50.0	48.3		ug/Kg		97	70 - 130
Chloromethane	50.0	53.9		ug/Kg		108	45 - 145
1,2-Dichloropropane	50.0	51.0		ug/Kg		102	70 - 130
cis-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	75 - 125
Chlorodibromomethane	50.0	53.0		ug/Kg		106	65 - 140
Dibromomethane	50.0	50.4		ug/Kg		101	70 - 130
Dichlorobromomethane	50.0	49.7		ug/Kg		99	70 - 135
2-Hexanone	50.0	46.2		ug/Kg		92	40 - 150
Dichlorodifluoromethane	50.0	51.9	E	ug/Kg		104	35 - 160
Ethylbenzene	50.0	47.0		ug/Kg		94	70 - 125
4-Isopropyltoluene	50.0	49.8		ug/Kg		100	75 - 125
Hexachlorobutadiene	50.0	50.3		ug/Kg		101	60 - 135
Isopropylbenzene	50.0	47.9		ug/Kg		96	75 - 130
Methylene Chloride	50.0	46.9		ug/Kg		94	55 - 135
Methyl tert-butyl ether	50.0	48.5		ug/Kg		97	60 - 140
Naphthalene	50.0	48.1		ug/Kg		96	55 - 135
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/Kg		102	70 - 130
n-Butylbenzene	50.0	48.5		ug/Kg		97	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	55 - 140
N-Propylbenzene	50.0	46.9		ug/Kg		94	70 - 130
sec-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 125
1,2,3-Trichlorobenzene	50.0	50.2		ug/Kg		100	60 - 130
Styrene	50.0	46.5		ug/Kg		93	75 - 130
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	70 - 135
tert-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 125
1,1,1-Trichloroethane	50.0	50.6		ug/Kg		101	65 - 135
Tetrachloroethene	50.0	49.9		ug/Kg		100	70 - 125
1,1,2-Trichloroethane	50.0	51.5		ug/Kg		103	65 - 135
Toluene	50.0	46.3		ug/Kg		93	70 - 125
trans-1,2-Dichloroethene	50.0	52.2		ug/Kg		104	70 - 125
1,2,3-Trichloropropane	50.0	51.9		ug/Kg		104	60 - 135
trans-1,3-Dichloropropene	50.0	51.4		ug/Kg		103	70 - 135
Trichloroethene	50.0	51.6		ug/Kg		103	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525787/5
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	48.5		ug/Kg		97	70 - 125
Trichlorofluoromethane	50.0	51.8		ug/Kg		104	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.5		ug/Kg		107	60 - 140
1,3,5-Trimethylbenzene	50.0	48.8		ug/Kg		98	70 - 125
Vinyl acetate	50.0	49.6		ug/Kg		99	45 - 145
Vinyl chloride	50.0	49.5		ug/Kg		99	55 - 135
m-Xylene & p-Xylene	50.0	49.4		ug/Kg		99	70 - 125
Ethylene Dibromide	50.0	50.1		ug/Kg		100	70 - 130
o-Xylene	50.0	49.9		ug/Kg		100	70 - 125
2-Butanone (MEK)	50.0	54.0		ug/Kg		108	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	45.8		ug/Kg		92	40 - 145
2,2-Dichloropropane	50.0	50.4		ug/Kg		101	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-91011-8 MS
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		35.0	46.0		ug/Kg		131	50 - 150
1,1,1,2-Tetrachloroethane	ND		35.0	35.7		ug/Kg		102	65 - 145
1,1,1-Trichloroethane	ND		35.0	35.0		ug/Kg		100	65 - 145
1,1,2,2-Tetrachloroethane	ND		35.0	41.4		ug/Kg		118	40 - 160
1,1,2-Trichloroethane	ND		35.0	37.0		ug/Kg		106	65 - 140
1,1-Dichloroethane	ND		35.0	33.7		ug/Kg		96	65 - 135
1,1-Dichloroethene	ND		35.0	33.0		ug/Kg		94	65 - 135
1,1-Dichloropropene	ND		35.0	34.1		ug/Kg		97	65 - 135
1,2,3-Trichlorobenzene	ND		35.0	21.8		ug/Kg		62	45 - 145
1,2,4-Trichlorobenzene	ND		35.0	24.1		ug/Kg		69	50 - 140
1,2,4-Trimethylbenzene	ND		35.0	35.8		ug/Kg		102	65 - 140
1,2-Dibromo-3-Chloropropane	ND		35.0	40.7		ug/Kg		116	40 - 150
1,2-Dichlorobenzene	ND		35.0	34.3		ug/Kg		98	70 - 130
1,2-Dichloroethane	ND		35.0	33.6		ug/Kg		96	60 - 150
1,2-Dichloropropane	ND		35.0	35.9		ug/Kg		103	65 - 130
1,3,5-Trimethylbenzene	ND		35.0	36.2		ug/Kg		103	65 - 135
1,3-Dichlorobenzene	ND		35.0	35.2		ug/Kg		101	70 - 130
1,3-Dichloropropane	ND		35.0	35.6		ug/Kg		102	65 - 140
1,4-Dichlorobenzene	ND		35.0	33.8		ug/Kg		97	70 - 130
2,2-Dichloropropane	ND		35.0	34.6		ug/Kg		99	65 - 150
2-Chlorotoluene	ND		35.0	37.7		ug/Kg		108	60 - 135
2-Hexanone	ND		35.0	35.1		ug/Kg		100	35 - 160
4-Chlorotoluene	ND		35.0	36.5		ug/Kg		104	65 - 135
4-Isopropyltoluene	ND		35.0	34.0		ug/Kg		97	60 - 140
Benzene	ND		35.0	33.9		ug/Kg		97	65 - 130
Bromobenzene	ND		35.0	39.2		ug/Kg		112	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-8 MS
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	ND		35.0	36.3		ug/Kg		104	50 - 145
Bromomethane	ND		35.0	32.5		ug/Kg		93	60 - 155
Carbon disulfide	ND		35.0	31.8		ug/Kg		91	40 - 140
Carbon tetrachloride	ND		35.0	35.0		ug/Kg		100	60 - 145
Chlorobenzene	ND		35.0	33.7		ug/Kg		96	70 - 130
Chlorobromomethane	ND		35.0	35.5		ug/Kg		101	65 - 145
Chloroethane	ND		35.0	31.1		ug/Kg		89	60 - 150
Chloroform	ND		35.0	34.4		ug/Kg		98	65 - 135
Chloromethane	ND		35.0	32.5		ug/Kg		93	40 - 145
cis-1,2-Dichloroethene	ND		35.0	34.4		ug/Kg		98	65 - 135
cis-1,3-Dichloropropene	ND		35.0	35.7		ug/Kg		102	70 - 135
Chlorodibromomethane	ND		35.0	37.6		ug/Kg		107	60 - 145
Dibromomethane	ND		35.0	35.3		ug/Kg		101	65 - 140
Dichlorobromomethane	ND		35.0	34.6		ug/Kg		99	65 - 145
Dichlorodifluoromethane	ND		35.0	30.9		ug/Kg		88	30 - 160
Ethylbenzene	ND		35.0	31.9		ug/Kg		91	70 - 135
Hexachlorobutadiene	ND		35.0	20.5		ug/Kg		59	50 - 145
Isopropylbenzene	ND		35.0	30.8		ug/Kg		88	70 - 145
m-Xylene & p-Xylene	ND		35.0	33.3		ug/Kg		95	70 - 130
Methylene Chloride	ND		35.0	32.4		ug/Kg		92	55 - 145
Methyl tert-butyl ether	ND		35.0	35.2		ug/Kg		101	55 - 155
Naphthalene	ND		35.0	27.8		ug/Kg		79	40 - 150
n-Butylbenzene	ND		35.0	30.7		ug/Kg		88	55 - 145
N-Propylbenzene	ND		35.0	35.8		ug/Kg		102	65 - 140
o-Xylene	ND		35.0	34.1		ug/Kg		97	65 - 130
sec-Butylbenzene	ND		35.0	32.7		ug/Kg		94	60 - 135
Styrene	ND		35.0	30.9		ug/Kg		88	70 - 140
tert-Butylbenzene	ND		35.0	36.7		ug/Kg		105	60 - 140
Tetrachloroethene	ND		35.0	34.0		ug/Kg		97	65 - 135
Toluene	ND		35.0	33.1		ug/Kg		95	70 - 130
trans-1,2-Dichloroethene	ND		35.0	33.5		ug/Kg		96	70 - 135
trans-1,3-Dichloropropene	ND		35.0	34.4		ug/Kg		98	60 - 145
Trichloroethene	ND		35.0	34.5		ug/Kg		99	65 - 140
Trichlorofluoromethane	ND		35.0	35.3		ug/Kg		101	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		35.0	35.3		ug/Kg		101	60 - 140
Vinyl acetate	ND		35.0	30.4		ug/Kg		87	40 - 150
Vinyl chloride	ND		35.0	30.9		ug/Kg		88	55 - 140
Ethylene Dibromide	ND		35.0	35.7		ug/Kg		102	65 - 140
2-Butanone (MEK)	ND		35.0	43.7		ug/Kg		125	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		35.0	33.8		ug/Kg		97	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-8 MSD
Client Sample ID: DG-AI15S-0.5-1
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 525787
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		35.2	37.0		ug/Kg		105	50 - 150	22	30
1,1,1,2-Tetrachloroethane	ND		35.2	34.2		ug/Kg		97	65 - 145	4	20
1,1,1-Trichloroethane	ND		35.2	34.4		ug/Kg		98	65 - 145	2	20
1,1,2,2-Tetrachloroethane	ND		35.2	33.8		ug/Kg		96	40 - 160	20	30
1,1,2-Trichloroethane	ND		35.2	35.0		ug/Kg		99	65 - 140	6	30
1,1-Dichloroethane	ND		35.2	33.0		ug/Kg		94	65 - 135	2	25
1,1-Dichloroethene	ND		35.2	31.5		ug/Kg		89	65 - 135	5	25
1,1-Dichloropropene	ND		35.2	32.7		ug/Kg		93	65 - 135	4	20
1,2,3-Trichlorobenzene	ND		35.2	28.7		ug/Kg		82	45 - 145	27	30
1,2,4-Trichlorobenzene	ND		35.2	28.8		ug/Kg		82	50 - 140	18	30
1,2,4-Trimethylbenzene	ND		35.2	31.2		ug/Kg		89	65 - 140	14	25
1,2-Dibromo-3-Chloropropane	ND		35.2	34.1		ug/Kg		97	40 - 150	18	30
1,2-Dichlorobenzene	ND		35.2	31.3		ug/Kg		89	70 - 130	9	25
1,2-Dichloroethane	ND		35.2	32.2		ug/Kg		91	60 - 150	4	25
1,2-Dichloropropane	ND		35.2	35.2		ug/Kg		100	65 - 130	2	20
1,3,5-Trimethylbenzene	ND		35.2	31.2		ug/Kg		89	65 - 135	15	25
1,3-Dichlorobenzene	ND		35.2	31.1		ug/Kg		88	70 - 130	12	25
1,3-Dichloropropane	ND		35.2	33.5		ug/Kg		95	65 - 140	6	25
1,4-Dichlorobenzene	ND		35.2	29.6		ug/Kg		84	70 - 130	13	25
2,2-Dichloropropane	ND		35.2	33.5		ug/Kg		95	65 - 150	3	25
2-Chlorotoluene	ND		35.2	30.6		ug/Kg		87	60 - 135	21	25
2-Hexanone	ND		35.2	32.8		ug/Kg		93	35 - 160	7	40
4-Chlorotoluene	ND		35.2	30.7		ug/Kg		87	65 - 135	17	25
4-Isopropyltoluene	ND		35.2	31.0		ug/Kg		88	60 - 140	9	25
Benzene	ND		35.2	33.0		ug/Kg		94	65 - 130	3	20
Bromobenzene	ND		35.2	32.2		ug/Kg		91	65 - 140	20	25
Bromoform	ND		35.2	34.9		ug/Kg		99	50 - 145	4	30
Bromomethane	ND		35.2	31.8		ug/Kg		90	60 - 155	2	25
Carbon disulfide	ND		35.2	29.9		ug/Kg		85	40 - 140	6	20
Carbon tetrachloride	ND		35.2	34.2		ug/Kg		97	60 - 145	2	25
Chlorobenzene	ND		35.2	31.6		ug/Kg		90	70 - 130	6	25
Chlorobromomethane	ND		35.2	34.4		ug/Kg		98	65 - 145	3	25
Chloroethane	ND		35.2	30.3		ug/Kg		86	60 - 150	3	25
Chloroform	ND		35.2	33.1		ug/Kg		94	65 - 135	4	20
Chloromethane	ND		35.2	32.5		ug/Kg		92	40 - 145	0	25
cis-1,2-Dichloroethene	ND		35.2	32.7		ug/Kg		93	65 - 135	5	25
cis-1,3-Dichloropropene	ND		35.2	32.9		ug/Kg		93	70 - 135	8	25
Chlorodibromomethane	ND		35.2	35.4		ug/Kg		101	60 - 145	6	25
Dibromomethane	ND		35.2	33.7		ug/Kg		96	65 - 140	4	25
Dichlorobromomethane	ND		35.2	33.9		ug/Kg		96	65 - 145	2	20
Dichlorodifluoromethane	ND		35.2	30.3		ug/Kg		86	30 - 160	2	35
Ethylbenzene	ND		35.2	30.1		ug/Kg		86	70 - 135	6	25
Hexachlorobutadiene	ND		35.2	25.8		ug/Kg		73	50 - 145	23	35
Isopropylbenzene	ND		35.2	30.4		ug/Kg		86	70 - 145	1	25
m-Xylene & p-Xylene	ND		35.2	31.2		ug/Kg		89	70 - 130	7	25
Methylene Chloride	ND		35.2	30.7		ug/Kg		87	55 - 145	5	25
Methyl tert-butyl ether	ND		35.2	34.2		ug/Kg		97	55 - 155	3	35
Naphthalene	ND		35.2	29.8		ug/Kg		85	40 - 150	7	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-8 MSD
Matrix: Solid
Analysis Batch: 525787

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 525870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
n-Butylbenzene	ND		35.2	28.9		ug/Kg		82	55 - 145	6	30
N-Propylbenzene	ND		35.2	29.8		ug/Kg		85	65 - 140	18	25
o-Xylene	ND		35.2	32.3		ug/Kg		92	65 - 130	5	25
sec-Butylbenzene	ND		35.2	30.1		ug/Kg		86	60 - 135	8	25
Styrene	ND		35.2	29.4		ug/Kg		84	70 - 140	5	25
tert-Butylbenzene	ND		35.2	32.5		ug/Kg		92	60 - 140	12	25
Tetrachloroethene	ND		35.2	31.4		ug/Kg		89	65 - 135	8	25
Toluene	ND		35.2	30.1		ug/Kg		85	70 - 130	10	20
trans-1,2-Dichloroethene	ND		35.2	31.9		ug/Kg		91	70 - 135	5	25
trans-1,3-Dichloropropene	ND		35.2	31.5		ug/Kg		89	60 - 145	9	25
Trichloroethene	ND		35.2	33.4		ug/Kg		95	65 - 140	3	25
Trichlorofluoromethane	ND		35.2	34.4		ug/Kg		98	55 - 155	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		35.2	34.6		ug/Kg		98	60 - 140	2	40
Vinyl acetate	ND		35.2	28.3		ug/Kg		80	40 - 150	7	30
Vinyl chloride	ND		35.2	30.6		ug/Kg		87	55 - 140	1	30
Ethylene Dibromide	ND		35.2	33.9		ug/Kg		96	65 - 140	5	25
2-Butanone (MEK)	ND		35.2	40.1		ug/Kg		114	25 - 170	9	40
4-Methyl-2-pentanone (MIBK)	ND		35.2	31.2		ug/Kg		89	40 - 155	8	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 440-525938/4
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Benzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/30/19 22:27	1
Bromoform	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/30/19 22:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/30/19 22:27	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525938/4
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
2-Hexanone	ND		10	5.0	ug/Kg			01/30/19 22:27	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/30/19 22:27	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Styrene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/30/19 22:27	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Toluene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/30/19 22:27	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/30/19 22:27	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/30/19 22:27	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/30/19 22:27	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/30/19 22:27	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/30/19 22:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/30/19 22:27	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/30/19 22:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*01/30/19 22:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-525938/4
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		79 - 123		01/30/19 22:27	1

Lab Sample ID: LCS 440-525938/5
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	18.6		ug/Kg		93	70 - 125
1,2-Dichlorobenzene	20.0	18.8		ug/Kg		94	75 - 120
1,3-Dichlorobenzene	20.0	19.0		ug/Kg		95	75 - 125
4-Chlorotoluene	20.0	18.7		ug/Kg		93	75 - 125
1,4-Dichlorobenzene	20.0	18.7		ug/Kg		93	75 - 120
1,3-Dichloropropane	20.0	18.6		ug/Kg		93	70 - 125
Benzene	20.0	19.0		ug/Kg		95	65 - 120
1,1-Dichloropropene	20.0	18.9		ug/Kg		95	70 - 130
Bromobenzene	20.0	18.9		ug/Kg		95	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/Kg		89	50 - 135
Bromoform	20.0	18.6		ug/Kg		93	55 - 135
Bromomethane	20.0	19.6		ug/Kg		98	60 - 145
Carbon disulfide	20.0	18.2		ug/Kg		91	50 - 130
Carbon tetrachloride	20.0	18.8		ug/Kg		94	65 - 140
1,1-Dichloroethane	20.0	19.1		ug/Kg		96	70 - 130
Chlorobenzene	20.0	18.9		ug/Kg		95	75 - 120
1,2-Dichloroethane	20.0	18.3		ug/Kg		92	60 - 140
Chlorobromomethane	20.0	19.7		ug/Kg		99	70 - 135
1,1-Dichloroethene	20.0	18.9		ug/Kg		95	70 - 125
Chloroethane	20.0	18.3		ug/Kg		91	60 - 140
Chloroform	20.0	19.3		ug/Kg		96	70 - 130
Chloromethane	20.0	16.7		ug/Kg		83	45 - 145
1,2-Dichloropropane	20.0	19.1		ug/Kg		96	70 - 130
cis-1,2-Dichloroethene	20.0	19.9		ug/Kg		100	70 - 125
cis-1,3-Dichloropropene	20.0	19.6		ug/Kg		98	75 - 125
Chlorodibromomethane	20.0	18.8		ug/Kg		94	65 - 140
Dibromomethane	20.0	19.0		ug/Kg		95	70 - 130
Dichlorobromomethane	20.0	19.2		ug/Kg		96	70 - 135
2-Hexanone	20.0	17.6		ug/Kg		88	40 - 150
Dichlorodifluoromethane	20.0	17.8		ug/Kg		89	35 - 160
Ethylbenzene	20.0	18.9		ug/Kg		95	70 - 125
4-Isopropyltoluene	20.0	19.7		ug/Kg		98	75 - 125
Hexachlorobutadiene	20.0	19.8		ug/Kg		99	60 - 135
Isopropylbenzene	20.0	19.7		ug/Kg		99	75 - 130
Methylene Chloride	20.0	16.4		ug/Kg		82	55 - 135
Methyl tert-butyl ether	20.0	19.7		ug/Kg		99	60 - 140
Naphthalene	20.0	17.2		ug/Kg		86	55 - 135
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/Kg		97	70 - 130
n-Butylbenzene	20.0	18.8		ug/Kg		94	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/Kg		94	55 - 140
N-Propylbenzene	20.0	19.2		ug/Kg		96	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-525938/5
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	20.0	19.2		ug/Kg		96	70 - 125
1,2,3-Trichlorobenzene	20.0	18.8		ug/Kg		94	60 - 130
Styrene	20.0	18.1		ug/Kg		90	75 - 130
1,2,4-Trichlorobenzene	20.0	19.6		ug/Kg		98	70 - 135
tert-Butylbenzene	20.0	18.6		ug/Kg		93	70 - 125
1,1,1-Trichloroethane	20.0	18.4		ug/Kg		92	65 - 135
Tetrachloroethene	20.0	18.8		ug/Kg		94	70 - 125
1,1,2-Trichloroethane	20.0	19.6		ug/Kg		98	65 - 135
Toluene	20.0	19.1		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	20.0	19.3		ug/Kg		97	70 - 125
1,2,3-Trichloropropane	20.0	18.3		ug/Kg		92	60 - 135
trans-1,3-Dichloropropene	20.0	18.7		ug/Kg		93	70 - 135
Trichloroethene	20.0	19.2		ug/Kg		96	70 - 125
1,2,4-Trimethylbenzene	20.0	18.7		ug/Kg		94	70 - 125
Trichlorofluoromethane	20.0	18.8		ug/Kg		94	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.4		ug/Kg		92	60 - 140
1,3,5-Trimethylbenzene	20.0	18.9		ug/Kg		95	70 - 125
Vinyl acetate	20.0	19.2		ug/Kg		96	45 - 145
Vinyl chloride	20.0	17.8		ug/Kg		89	55 - 135
m-Xylene & p-Xylene	20.0	19.0		ug/Kg		95	70 - 125
Ethylene Dibromide	20.0	19.3		ug/Kg		97	70 - 130
o-Xylene	20.0	18.9		ug/Kg		94	70 - 125
2-Butanone (MEK)	20.0	19.0		ug/Kg		95	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	17.9		ug/Kg		90	40 - 145
2,2-Dichloropropane	20.0	19.5		ug/Kg		97	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: LCSD 440-525938/6
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	20.0	17.2		ug/Kg		86	70 - 125	7	20
1,2-Dichlorobenzene	20.0	17.5		ug/Kg		88	75 - 120	7	20
1,3-Dichlorobenzene	20.0	17.4		ug/Kg		87	75 - 125	9	20
4-Chlorotoluene	20.0	17.1		ug/Kg		86	75 - 125	9	20
1,4-Dichlorobenzene	20.0	17.2		ug/Kg		86	75 - 120	8	20
1,3-Dichloropropane	20.0	17.2		ug/Kg		86	70 - 125	8	20
Benzene	20.0	17.5		ug/Kg		87	65 - 120	9	20
1,1-Dichloropropene	20.0	17.9		ug/Kg		89	70 - 130	6	20
Bromobenzene	20.0	17.2		ug/Kg		86	75 - 120	10	20
1,2-Dibromo-3-Chloropropane	20.0	15.6		ug/Kg		78	50 - 135	12	30
Bromoform	20.0	17.4		ug/Kg		87	55 - 135	7	25
Bromomethane	20.0	17.4		ug/Kg		87	60 - 145	12	20
Carbon disulfide	20.0	16.9		ug/Kg		84	50 - 130	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525938/6
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride	20.0	17.3		ug/Kg		87	65 - 140	8	20
1,1-Dichloroethane	20.0	17.4		ug/Kg		87	70 - 130	10	20
Chlorobenzene	20.0	17.8		ug/Kg		89	75 - 120	6	20
1,2-Dichloroethane	20.0	16.6		ug/Kg		83	60 - 140	10	20
Chlorobromomethane	20.0	19.0		ug/Kg		95	70 - 135	4	20
1,1-Dichloroethene	20.0	17.8		ug/Kg		89	70 - 125	6	20
Chloroethane	20.0	17.2		ug/Kg		86	60 - 140	6	25
Chloroform	20.0	17.4		ug/Kg		87	70 - 130	10	20
Chloromethane	20.0	15.6		ug/Kg		78	45 - 145	6	25
1,2-Dichloropropane	20.0	18.1		ug/Kg		91	70 - 130	5	20
cis-1,2-Dichloroethene	20.0	17.9		ug/Kg		90	70 - 125	11	20
cis-1,3-Dichloropropene	20.0	18.1		ug/Kg		91	75 - 125	8	20
Chlorodibromomethane	20.0	17.6		ug/Kg		88	65 - 140	7	20
Dibromomethane	20.0	17.5		ug/Kg		88	70 - 130	8	20
Dichlorobromomethane	20.0	17.1		ug/Kg		86	70 - 135	11	20
2-Hexanone	20.0	16.2		ug/Kg		81	40 - 150	8	35
Dichlorodifluoromethane	20.0	16.5		ug/Kg		82	35 - 160	8	30
Ethylbenzene	20.0	17.8		ug/Kg		89	70 - 125	6	20
4-Isopropyltoluene	20.0	17.8		ug/Kg		89	75 - 125	10	20
Hexachlorobutadiene	20.0	18.4		ug/Kg		92	60 - 135	7	20
Isopropylbenzene	20.0	18.5		ug/Kg		92	75 - 130	7	20
Methylene Chloride	20.0	14.8		ug/Kg		74	55 - 135	10	20
Methyl tert-butyl ether	20.0	16.9		ug/Kg		84	60 - 140	15	25
Naphthalene	20.0	16.7		ug/Kg		83	55 - 135	3	25
1,1,1,2-Tetrachloroethane	20.0	17.6		ug/Kg		88	70 - 130	9	20
n-Butylbenzene	20.0	17.3		ug/Kg		86	70 - 130	8	20
1,1,2,2-Tetrachloroethane	20.0	17.1		ug/Kg		86	55 - 140	9	30
N-Propylbenzene	20.0	17.7		ug/Kg		88	70 - 130	8	20
sec-Butylbenzene	20.0	17.8		ug/Kg		89	70 - 125	8	20
1,2,3-Trichlorobenzene	20.0	17.6		ug/Kg		88	60 - 130	6	20
Styrene	20.0	16.6		ug/Kg		83	75 - 130	8	20
1,2,4-Trichlorobenzene	20.0	18.0		ug/Kg		90	70 - 135	8	20
tert-Butylbenzene	20.0	17.3		ug/Kg		86	70 - 125	8	20
1,1,1-Trichloroethane	20.0	17.3		ug/Kg		87	65 - 135	6	20
Tetrachloroethene	20.0	17.5		ug/Kg		88	70 - 125	7	20
1,1,2-Trichloroethane	20.0	17.2		ug/Kg		86	65 - 135	13	20
Toluene	20.0	17.8		ug/Kg		89	70 - 125	7	20
trans-1,2-Dichloroethene	20.0	17.9		ug/Kg		90	70 - 125	7	20
1,2,3-Trichloropropane	20.0	16.5		ug/Kg		82	60 - 135	11	25
trans-1,3-Dichloropropene	20.0	17.8		ug/Kg		89	70 - 135	5	20
Trichloroethene	20.0	17.9		ug/Kg		89	70 - 125	7	20
1,2,4-Trimethylbenzene	20.0	17.1		ug/Kg		86	70 - 125	9	20
Trichlorofluoromethane	20.0	18.0		ug/Kg		90	60 - 145	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.6		ug/Kg		93	60 - 140	1	40
1,3,5-Trimethylbenzene	20.0	17.4		ug/Kg		87	70 - 125	9	20
Vinyl acetate	20.0	17.5		ug/Kg		88	45 - 145	9	20
Vinyl chloride	20.0	16.7		ug/Kg		83	55 - 135	6	25
m-Xylene & p-Xylene	20.0	17.6		ug/Kg		88	70 - 125	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-525938/6
Matrix: Solid
Analysis Batch: 525938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide			20.0	17.6		ug/Kg		88	70 - 130	10	20
o-Xylene			20.0	17.0		ug/Kg		85	70 - 125	10	20
2-Butanone (MEK)			20.0	18.8		ug/Kg		94	40 - 145	1	35
4-Methyl-2-pentanone (MIBK)			20.0	16.0		ug/Kg		80	40 - 145	12	35
2,2-Dichloropropane			20.0	17.6		ug/Kg		88	60 - 145	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-526002/4
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Benzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/31/19 08:27	1
Bromoform	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/31/19 08:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/31/19 08:27	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Chloroform	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
2-Hexanone	ND		10	5.0	ug/Kg			01/31/19 08:27	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526002/4
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/31/19 08:27	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Styrene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/31/19 08:27	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Toluene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/31/19 08:27	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/31/19 08:27	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/31/19 08:27	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/31/19 08:27	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/31/19 08:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/31/19 08:27	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/31/19 08:27*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*		*01/31/19 08:27*	*1*

Lab Sample ID: LCS 440-526002/5
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	20.3		ug/Kg		102	70 - 125
1,2-Dichlorobenzene	20.0	20.6		ug/Kg		103	75 - 120
1,3-Dichlorobenzene	20.0	20.5		ug/Kg		103	75 - 125
4-Chlorotoluene	20.0	20.3		ug/Kg		102	75 - 125
1,4-Dichlorobenzene	20.0	20.2		ug/Kg		101	75 - 120
1,3-Dichloropropane	20.0	20.4		ug/Kg		102	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526002/5
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.2		ug/Kg		101	65 - 120
1,1-Dichloropropene	20.0	21.3		ug/Kg		106	70 - 130
Bromobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/Kg		97	50 - 135
Bromoform	20.0	20.6		ug/Kg		103	55 - 135
Bromomethane	20.0	20.1		ug/Kg		100	60 - 145
Carbon disulfide	20.0	19.7		ug/Kg		99	50 - 130
Carbon tetrachloride	20.0	20.7		ug/Kg		103	65 - 140
1,1-Dichloroethane	20.0	20.2		ug/Kg		101	70 - 130
Chlorobenzene	20.0	20.1		ug/Kg		100	75 - 120
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	60 - 140
Chlorobromomethane	20.0	21.5		ug/Kg		108	70 - 135
1,1-Dichloroethene	20.0	21.2		ug/Kg		106	70 - 125
Chloroethane	20.0	19.8		ug/Kg		99	60 - 140
Chloroform	20.0	20.5		ug/Kg		102	70 - 130
Chloromethane	20.0	17.8		ug/Kg		89	45 - 145
1,2-Dichloropropane	20.0	21.0		ug/Kg		105	70 - 130
cis-1,2-Dichloroethene	20.0	20.2		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	20.0	21.5		ug/Kg		108	75 - 125
Chlorodibromomethane	20.0	20.4		ug/Kg		102	65 - 140
Dibromomethane	20.0	20.6		ug/Kg		103	70 - 130
Dichlorobromomethane	20.0	20.5		ug/Kg		103	70 - 135
2-Hexanone	20.0	19.4		ug/Kg		97	40 - 150
Dichlorodifluoromethane	20.0	20.1		ug/Kg		100	35 - 160
Ethylbenzene	20.0	20.3		ug/Kg		101	70 - 125
4-Isopropyltoluene	20.0	21.5		ug/Kg		107	75 - 125
Hexachlorobutadiene	20.0	21.5		ug/Kg		107	60 - 135
Isopropylbenzene	20.0	21.0		ug/Kg		105	75 - 130
Methylene Chloride	20.0	16.6		ug/Kg		83	55 - 135
Methyl tert-butyl ether	20.0	20.7		ug/Kg		104	60 - 140
Naphthalene	20.0	19.3		ug/Kg		97	55 - 135
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/Kg		103	70 - 130
n-Butylbenzene	20.0	20.6		ug/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/Kg		107	55 - 140
N-Propylbenzene	20.0	21.4		ug/Kg		107	70 - 130
sec-Butylbenzene	20.0	21.3		ug/Kg		106	70 - 125
1,2,3-Trichlorobenzene	20.0	20.3		ug/Kg		101	60 - 130
Styrene	20.0	19.2		ug/Kg		96	75 - 130
1,2,4-Trichlorobenzene	20.0	21.5		ug/Kg		107	70 - 135
tert-Butylbenzene	20.0	20.5		ug/Kg		102	70 - 125
1,1,1-Trichloroethane	20.0	20.3		ug/Kg		101	65 - 135
Tetrachloroethene	20.0	20.5		ug/Kg		103	70 - 125
1,1,2-Trichloroethane	20.0	20.9		ug/Kg		104	65 - 135
Toluene	20.0	20.3		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	20.0	21.1		ug/Kg		106	70 - 125
1,2,3-Trichloropropane	20.0	21.3		ug/Kg		107	60 - 135
trans-1,3-Dichloropropene	20.0	20.2		ug/Kg		101	70 - 135
Trichloroethene	20.0	20.9		ug/Kg		104	70 - 125
1,2,4-Trimethylbenzene	20.0	20.5		ug/Kg		102	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526002/5
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	21.5		ug/Kg		107	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1		ug/Kg		106	60 - 140
1,3,5-Trimethylbenzene	20.0	20.8		ug/Kg		104	70 - 125
Vinyl acetate	20.0	21.5		ug/Kg		107	45 - 145
Vinyl chloride	20.0	19.9		ug/Kg		100	55 - 135
m-Xylene & p-Xylene	20.0	20.2		ug/Kg		101	70 - 125
Ethylene Dibromide	20.0	21.0		ug/Kg		105	70 - 130
o-Xylene	20.0	20.2		ug/Kg		101	70 - 125
2-Butanone (MEK)	20.0	22.4		ug/Kg		112	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	19.4		ug/Kg		97	40 - 145
2,2-Dichloropropane	20.0	21.3		ug/Kg		106	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-526004/4
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		250	100	ug/Kg			01/31/19 09:32	100
1,2-Dichlorobenzene	ND		100	50	ug/Kg			01/31/19 09:32	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			01/31/19 09:32	100
4-Chlorotoluene	ND		250	50	ug/Kg			01/31/19 09:32	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			01/31/19 09:32	100
1,3-Dichloropropane	ND		100	50	ug/Kg			01/31/19 09:32	100
Benzene	ND		100	50	ug/Kg			01/31/19 09:32	100
1,1-Dichloropropene	ND		100	50	ug/Kg			01/31/19 09:32	100
Bromobenzene	ND		250	100	ug/Kg			01/31/19 09:32	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			01/31/19 09:32	100
Bromoform	ND		250	100	ug/Kg			01/31/19 09:32	100
Bromomethane	ND		250	100	ug/Kg			01/31/19 09:32	100
Carbon disulfide	ND		250	130	ug/Kg			01/31/19 09:32	100
Carbon tetrachloride	ND		250	100	ug/Kg			01/31/19 09:32	100
1,1-Dichloroethane	ND		100	50	ug/Kg			01/31/19 09:32	100
Chlorobenzene	ND		100	50	ug/Kg			01/31/19 09:32	100
1,2-Dichloroethane	ND		100	50	ug/Kg			01/31/19 09:32	100
Chlorobromomethane	ND		250	100	ug/Kg			01/31/19 09:32	100
1,1-Dichloroethene	ND		250	100	ug/Kg			01/31/19 09:32	100
Chloroethane	ND		250	100	ug/Kg			01/31/19 09:32	100
Chloroform	ND		100	50	ug/Kg			01/31/19 09:32	100
Chloromethane	ND		250	100	ug/Kg			01/31/19 09:32	100
1,2-Dichloropropane	ND		100	50	ug/Kg			01/31/19 09:32	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			01/31/19 09:32	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			01/31/19 09:32	100
Chlorodibromomethane	ND		100	50	ug/Kg			01/31/19 09:32	100
Dibromomethane	ND		100	50	ug/Kg			01/31/19 09:32	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526004/4
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		100	50	ug/Kg			01/31/19 09:32	100
2-Hexanone	ND		1300	500	ug/Kg			01/31/19 09:32	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			01/31/19 09:32	100
Ethylbenzene	ND		100	50	ug/Kg			01/31/19 09:32	100
4-Isopropyltoluene	ND		100	50	ug/Kg			01/31/19 09:32	100
Hexachlorobutadiene	ND		250	100	ug/Kg			01/31/19 09:32	100
Isopropylbenzene	ND		100	50	ug/Kg			01/31/19 09:32	100
Methylene Chloride	ND		1000	500	ug/Kg			01/31/19 09:32	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			01/31/19 09:32	100
Naphthalene	ND		250	100	ug/Kg			01/31/19 09:32	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			01/31/19 09:32	100
n-Butylbenzene	ND		250	100	ug/Kg			01/31/19 09:32	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			01/31/19 09:32	100
N-Propylbenzene	ND		100	50	ug/Kg			01/31/19 09:32	100
sec-Butylbenzene	ND		250	50	ug/Kg			01/31/19 09:32	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			01/31/19 09:32	100
Styrene	ND		100	50	ug/Kg			01/31/19 09:32	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			01/31/19 09:32	100
tert-Butylbenzene	ND		250	100	ug/Kg			01/31/19 09:32	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			01/31/19 09:32	100
Tetrachloroethene	ND		100	50	ug/Kg			01/31/19 09:32	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			01/31/19 09:32	100
Toluene	ND		100	50	ug/Kg			01/31/19 09:32	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			01/31/19 09:32	100
1,2,3-Trichloropropane	ND		500	100	ug/Kg			01/31/19 09:32	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			01/31/19 09:32	100
Trichloroethene	ND		100	50	ug/Kg			01/31/19 09:32	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			01/31/19 09:32	100
Trichlorofluoromethane	ND		250	100	ug/Kg			01/31/19 09:32	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			01/31/19 09:32	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			01/31/19 09:32	100
Vinyl acetate	ND		500	250	ug/Kg			01/31/19 09:32	100
Vinyl chloride	ND		250	100	ug/Kg			01/31/19 09:32	100
Ethylene Dibromide	ND		100	50	ug/Kg			01/31/19 09:32	100
2-Butanone (MEK)	ND		1000	500	ug/Kg			01/31/19 09:32	100
Xylenes, Total	ND		200	100	ug/Kg			01/31/19 09:32	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			01/31/19 09:32	100
2,2-Dichloropropane	ND		200	100	ug/Kg			01/31/19 09:32	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*01/31/19 09:32*	*100*
Toluene-d8 (Surr)	*101*		*60 - 140*		*01/31/19 09:32*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526004/11
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	1000	1030		ug/Kg		103	70 - 125
1,2-Dichlorobenzene	1000	1010		ug/Kg		101	70 - 120
1,3-Dichlorobenzene	1000	1050		ug/Kg		105	70 - 125
4-Chlorotoluene	1000	1010		ug/Kg		101	70 - 125
1,4-Dichlorobenzene	1000	1020		ug/Kg		102	70 - 125
1,3-Dichloropropane	1000	1000		ug/Kg		100	65 - 130
Benzene	1000	1060		ug/Kg		106	65 - 120
1,1-Dichloropropene	1000	1090		ug/Kg		109	70 - 130
Bromobenzene	1000	1020		ug/Kg		102	70 - 120
1,2-Dibromo-3-Chloropropane	1000	965		ug/Kg		97	45 - 135
Bromoform	1000	972		ug/Kg		97	50 - 130
Bromomethane	1000	996		ug/Kg		100	30 - 140
Carbon disulfide	1000	1060		ug/Kg		106	50 - 130
Carbon tetrachloride	1000	1080		ug/Kg		108	65 - 145
1,1-Dichloroethane	1000	1030		ug/Kg		103	65 - 130
Chlorobenzene	1000	1030		ug/Kg		103	70 - 125
1,2-Dichloroethane	1000	967		ug/Kg		97	60 - 145
Chlorobromomethane	1000	1050		ug/Kg		105	65 - 125
1,1-Dichloroethene	1000	1050		ug/Kg		105	75 - 140
Chloroethane	1000	939		ug/Kg		94	40 - 140
Chloroform	1000	1040		ug/Kg		104	75 - 130
Chloromethane	1000	926		ug/Kg		93	30 - 140
1,2-Dichloropropane	1000	1070		ug/Kg		107	75 - 125
cis-1,2-Dichloroethene	1000	1040		ug/Kg		104	65 - 130
cis-1,3-Dichloropropene	1000	1030		ug/Kg		103	70 - 130
Chlorodibromomethane	1000	1010		ug/Kg		101	65 - 140
Dibromomethane	1000	1020		ug/Kg		102	65 - 130
Dichlorobromomethane	1000	975		ug/Kg		98	65 - 135
2-Hexanone	1000	757	J	ug/Kg		76	35 - 140
Dichlorodifluoromethane	1000	889		ug/Kg		89	10 - 155
Ethylbenzene	1000	1020		ug/Kg		102	80 - 120
4-Isopropyltoluene	1000	1080		ug/Kg		108	70 - 125
Hexachlorobutadiene	1000	1060		ug/Kg		106	60 - 135
Isopropylbenzene	1000	1040		ug/Kg		104	70 - 125
Methylene Chloride	1000	844	J	ug/Kg		84	60 - 140
Methyl tert-butyl ether	1000	972		ug/Kg		97	55 - 145
Naphthalene	1000	949		ug/Kg		95	50 - 140
1,1,1,2-Tetrachloroethane	1000	1030		ug/Kg		103	70 - 140
n-Butylbenzene	1000	1060		ug/Kg		106	70 - 130
1,1,2,2-Tetrachloroethane	1000	969		ug/Kg		97	55 - 135
N-Propylbenzene	1000	1030		ug/Kg		103	70 - 130
sec-Butylbenzene	1000	1040		ug/Kg		104	70 - 125
1,2,3-Trichlorobenzene	1000	993		ug/Kg		99	60 - 135
Styrene	1000	975		ug/Kg		97	70 - 135
1,2,4-Trichlorobenzene	1000	1030		ug/Kg		103	65 - 135
tert-Butylbenzene	1000	1070		ug/Kg		107	70 - 125
1,1,1-Trichloroethane	1000	1070		ug/Kg		107	65 - 140
Tetrachloroethene	1000	1070		ug/Kg		107	65 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526004/11
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	1000	1010		ug/Kg		101	65 - 130
Toluene	1000	994		ug/Kg		99	80 - 120
trans-1,2-Dichloroethene	1000	1070		ug/Kg		107	65 - 130
1,2,3-Trichloropropane	1000	1030		ug/Kg		103	55 - 130
trans-1,3-Dichloropropene	1000	999		ug/Kg		100	65 - 135
Trichloroethene	1000	1080		ug/Kg		108	70 - 130
1,2,4-Trimethylbenzene	1000	1040		ug/Kg		104	70 - 125
Trichlorofluoromethane	1000	1100		ug/Kg		110	50 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	1080		ug/Kg		108	60 - 140
1,3,5-Trimethylbenzene	1000	1030		ug/Kg		103	70 - 125
Vinyl acetate	1000	1000		ug/Kg		100	25 - 145
Vinyl chloride	1000	907		ug/Kg		91	10 - 120
m-Xylene & p-Xylene	1000	1060		ug/Kg		106	70 - 125
Ethylene Dibromide	1000	990		ug/Kg		99	70 - 130
o-Xylene	1000	1050		ug/Kg		105	70 - 125
2-Butanone (MEK)	1000	726	J	ug/Kg		73	40 - 145
4-Methyl-2-pentanone (MIBK)	1000	698		ug/Kg		70	40 - 145
2,2-Dichloropropane	1000	1100		ug/Kg		110	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*98*		*60 - 140*

Lab Sample ID: LCSD 440-526004/6
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	1000	1010		ug/Kg		101	70 - 125	2	20
1,2-Dichlorobenzene	1000	1030		ug/Kg		103	70 - 120	2	20
1,3-Dichlorobenzene	1000	1040		ug/Kg		104	70 - 125	1	20
4-Chlorotoluene	1000	1040		ug/Kg		104	70 - 125	3	20
1,4-Dichlorobenzene	1000	1010		ug/Kg		101	70 - 125	1	20
1,3-Dichloropropane	1000	985		ug/Kg		98	65 - 130	2	20
Benzene	1000	1020		ug/Kg		102	65 - 120	4	20
1,1-Dichloropropene	1000	1060		ug/Kg		106	70 - 130	2	20
Bromobenzene	1000	1020		ug/Kg		102	70 - 120	0	20
1,2-Dibromo-3-Chloropropane	1000	984		ug/Kg		98	45 - 135	2	25
Bromoform	1000	996		ug/Kg		100	50 - 130	2	25
Bromomethane	1000	969		ug/Kg		97	30 - 140	3	30
Carbon disulfide	1000	1060		ug/Kg		106	50 - 130	0	20
Carbon tetrachloride	1000	1040		ug/Kg		104	65 - 145	4	20
1,1-Dichloroethane	1000	1010		ug/Kg		101	65 - 130	2	20
Chlorobenzene	1000	1010		ug/Kg		101	70 - 125	2	20
1,2-Dichloroethane	1000	935		ug/Kg		93	60 - 145	3	20
Chlorobromomethane	1000	999		ug/Kg		100	65 - 125	5	20
1,1-Dichloroethene	1000	1020		ug/Kg		102	75 - 140	3	20
Chloroethane	1000	948		ug/Kg		95	40 - 140	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526004/6
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	1000	1040		ug/Kg		104	75 - 130	0	20
Chloromethane	1000	960		ug/Kg		96	30 - 140	4	25
1,2-Dichloropropane	1000	1040		ug/Kg		104	75 - 125	3	20
cis-1,2-Dichloroethene	1000	1030		ug/Kg		103	65 - 130	1	20
cis-1,3-Dichloropropene	1000	1000		ug/Kg		100	70 - 130	3	20
Chlorodibromomethane	1000	1000		ug/Kg		100	65 - 140	0	20
Dibromomethane	1000	989		ug/Kg		99	65 - 130	3	20
Dichlorobromomethane	1000	976		ug/Kg		98	65 - 135	0	20
2-Hexanone	1000	748	J	ug/Kg		75	35 - 140	1	30
Dichlorodifluoromethane	1000	1020		ug/Kg		102	10 - 155	14	30
Ethylbenzene	1000	993		ug/Kg		99	80 - 120	3	20
4-Isopropyltoluene	1000	1080		ug/Kg		108	70 - 125	0	20
Hexachlorobutadiene	1000	1030		ug/Kg		103	60 - 135	3	20
Isopropylbenzene	1000	1010		ug/Kg		101	70 - 125	3	20
Methylene Chloride	1000	818	J	ug/Kg		82	60 - 140	3	20
Methyl tert-butyl ether	1000	962		ug/Kg		96	55 - 145	1	25
Naphthalene	1000	947		ug/Kg		95	50 - 140	0	25
1,1,1,2-Tetrachloroethane	1000	997		ug/Kg		100	70 - 140	4	20
n-Butylbenzene	1000	1060		ug/Kg		106	70 - 130	0	20
1,1,2,2-Tetrachloroethane	1000	985		ug/Kg		98	55 - 135	2	25
N-Propylbenzene	1000	1010		ug/Kg		101	70 - 130	2	20
sec-Butylbenzene	1000	1030		ug/Kg		103	70 - 125	1	20
1,2,3-Trichlorobenzene	1000	1000		ug/Kg		100	60 - 135	1	20
Styrene	1000	960		ug/Kg		96	70 - 135	2	20
1,2,4-Trichlorobenzene	1000	1040		ug/Kg		104	65 - 135	1	20
tert-Butylbenzene	1000	1060		ug/Kg		106	70 - 125	1	20
1,1,1-Trichloroethane	1000	1050		ug/Kg		105	65 - 140	2	20
Tetrachloroethene	1000	1030		ug/Kg		103	65 - 125	4	20
1,1,2-Trichloroethane	1000	1010		ug/Kg		101	65 - 130	0	20
Toluene	1000	967		ug/Kg		97	80 - 120	3	20
trans-1,2-Dichloroethene	1000	1090		ug/Kg		109	65 - 130	1	20
1,2,3-Trichloropropane	1000	1040		ug/Kg		104	55 - 130	1	25
trans-1,3-Dichloropropene	1000	977		ug/Kg		98	65 - 135	2	20
Trichloroethene	1000	1060		ug/Kg		106	70 - 130	2	20
1,2,4-Trimethylbenzene	1000	1010		ug/Kg		101	70 - 125	2	20
Trichlorofluoromethane	1000	1080		ug/Kg		108	50 - 145	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	1140		ug/Kg		114	60 - 140	5	40
1,3,5-Trimethylbenzene	1000	1020		ug/Kg		102	70 - 125	2	20
Vinyl acetate	1000	985		ug/Kg		99	25 - 145	2	25
Vinyl chloride	1000	884		ug/Kg		88	10 - 120	3	30
m-Xylene & p-Xylene	1000	1020		ug/Kg		102	70 - 125	4	20
Ethylene Dibromide	1000	984		ug/Kg		98	70 - 130	1	20
o-Xylene	1000	1010		ug/Kg		101	70 - 125	5	20
2-Butanone (MEK)	1000	754	J	ug/Kg		75	40 - 145	4	30
4-Methyl-2-pentanone (MIBK)	1000	709		ug/Kg		71	40 - 145	2	30
2,2-Dichloropropane	1000	1030		ug/Kg		103	60 - 145	6	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526004/6
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: 720-91048-A-16-A MS
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		16.3	13.0		ug/Kg		80	60 - 135
1,2-Dichlorobenzene	ND		16.3	12.5		ug/Kg		77	70 - 130
1,3-Dichlorobenzene	ND		16.3	11.8		ug/Kg		72	70 - 130
4-Chlorotoluene	ND		16.3	12.9		ug/Kg		79	65 - 135
1,4-Dichlorobenzene	ND		16.3	11.9		ug/Kg		73	70 - 130
1,3-Dichloropropane	ND		16.3	15.7		ug/Kg		96	65 - 140
Benzene	ND		16.3	15.7		ug/Kg		96	65 - 130
1,1-Dichloropropene	ND		16.3	15.0		ug/Kg		92	65 - 135
Bromobenzene	ND		16.3	13.9		ug/Kg		85	65 - 140
1,2-Dibromo-3-Chloropropane	ND		16.3	14.3		ug/Kg		87	40 - 150
Bromoform	ND		16.3	15.2		ug/Kg		93	50 - 145
Bromomethane	ND		16.3	16.4		ug/Kg		101	60 - 155
Carbon disulfide	ND	F2	16.3	14.8		ug/Kg		90	40 - 140
Carbon tetrachloride	ND		16.3	15.3		ug/Kg		94	60 - 145
1,1-Dichloroethane	ND		16.3	16.1		ug/Kg		99	65 - 135
Chlorobenzene	ND		16.3	14.3		ug/Kg		87	70 - 130
1,2-Dichloroethane	ND		16.3	15.7		ug/Kg		96	60 - 150
Chlorobromomethane	ND		16.3	17.0		ug/Kg		104	65 - 145
1,1-Dichloroethene	ND		16.3	16.2		ug/Kg		99	65 - 135
Chloroethane	ND		16.3	15.6		ug/Kg		95	60 - 150
Chloroform	ND		16.3	16.0		ug/Kg		98	65 - 135
Chloromethane	ND	F2	16.3	15.7		ug/Kg		96	40 - 145
1,2-Dichloropropane	ND		16.3	16.1		ug/Kg		99	65 - 130
cis-1,2-Dichloroethene	ND		16.3	16.0		ug/Kg		98	65 - 135
cis-1,3-Dichloropropene	ND		16.3	16.2		ug/Kg		99	70 - 135
Chlorodibromomethane	ND		16.3	15.4		ug/Kg		94	60 - 145
Dibromomethane	ND		16.3	16.6		ug/Kg		102	65 - 140
Dichlorobromomethane	ND		16.3	15.5		ug/Kg		95	65 - 145
2-Hexanone	ND		16.3	16.2		ug/Kg		99	35 - 160
Dichlorodifluoromethane	ND		16.3	16.9		ug/Kg		103	30 - 160
Ethylbenzene	ND		16.3	13.9		ug/Kg		85	70 - 135
4-Isopropyltoluene	ND		16.3	11.8		ug/Kg		72	60 - 140
Hexachlorobutadiene	ND	F1	16.3	7.54	F1	ug/Kg		46	50 - 145
Isopropylbenzene	ND		16.3	13.5		ug/Kg		82	70 - 145
Methylene Chloride	ND		16.3	13.7		ug/Kg		84	55 - 145
Methyl tert-butyl ether	ND		16.3	17.2		ug/Kg		105	55 - 155
Naphthalene	ND		16.3	10.9		ug/Kg		67	40 - 150
1,1,1,2-Tetrachloroethane	ND		16.3	15.3		ug/Kg		94	65 - 145
n-Butylbenzene	ND		16.3	9.90		ug/Kg		61	55 - 145
1,1,2,2-Tetrachloroethane	ND		16.3	16.5		ug/Kg		101	40 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-A-16-A MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526002 **Prep Batch: 526116**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	ND		16.3	13.0		ug/Kg		79	65 - 140
sec-Butylbenzene	ND		16.3	11.8		ug/Kg		72	60 - 135
1,2,3-Trichlorobenzene	ND		16.3	8.35		ug/Kg		51	45 - 145
Styrene	ND		16.3	13.2		ug/Kg		81	70 - 140
1,2,4-Trichlorobenzene	ND		16.3	8.88		ug/Kg		54	50 - 140
tert-Butylbenzene	ND		16.3	12.8		ug/Kg		78	60 - 140
1,1,1-Trichloroethane	ND	F2	16.3	15.4		ug/Kg		94	65 - 145
Tetrachloroethene	ND		16.3	13.5		ug/Kg		83	65 - 135
1,1,2-Trichloroethane	ND		16.3	16.1		ug/Kg		98	65 - 140
Toluene	ND		16.3	15.2		ug/Kg		93	70 - 130
trans-1,2-Dichloroethene	ND		16.3	15.6		ug/Kg		95	70 - 135
1,2,3-Trichloropropane	ND		16.3	16.1		ug/Kg		99	50 - 150
trans-1,3-Dichloropropene	ND		16.3	15.3		ug/Kg		93	60 - 145
Trichloroethene	ND		16.3	14.8		ug/Kg		90	65 - 140
1,2,4-Trimethylbenzene	ND		16.3	12.9		ug/Kg		79	65 - 140
Trichlorofluoromethane	ND	F2	16.3	16.9		ug/Kg		104	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		16.3	15.8		ug/Kg		97	60 - 140
1,3,5-Trimethylbenzene	ND		16.3	13.1		ug/Kg		80	65 - 135
Vinyl acetate	ND		16.3	15.5		ug/Kg		95	40 - 150
Vinyl chloride	ND		16.3	16.5		ug/Kg		101	55 - 140
m-Xylene & p-Xylene	ND		16.3	14.0		ug/Kg		86	70 - 130
Ethylene Dibromide	ND		16.3	15.9		ug/Kg		97	65 - 140
o-Xylene	ND		16.3	14.0		ug/Kg		86	65 - 130
2-Butanone (MEK)	ND		16.3	19.3		ug/Kg		118	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		16.3	16.5		ug/Kg		101	40 - 155
2,2-Dichloropropane	ND		16.3	16.2		ug/Kg		99	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-91048-A-16-B MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526002 **Prep Batch: 526116**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		15.8	11.8		ug/Kg		75	60 - 135	10	25
1,2-Dichlorobenzene	ND		15.8	11.6		ug/Kg		73	70 - 130	8	25
1,3-Dichlorobenzene	ND		15.8	11.1		ug/Kg		70	70 - 130	6	25
4-Chlorotoluene	ND		15.8	11.7		ug/Kg		74	65 - 135	9	25
1,4-Dichlorobenzene	ND		15.8	11.3		ug/Kg		71	70 - 130	6	25
1,3-Dichloropropane	ND		15.8	13.5		ug/Kg		86	65 - 140	15	25
Benzene	ND		15.8	13.2		ug/Kg		83	65 - 130	18	20
1,1-Dichloropropene	ND		15.8	12.6		ug/Kg		80	65 - 135	17	20
Bromobenzene	ND		15.8	12.4		ug/Kg		78	65 - 140	11	25
1,2-Dibromo-3-Chloropropane	ND		15.8	12.4		ug/Kg		79	40 - 150	14	30
Bromoform	ND		15.8	13.0		ug/Kg		82	50 - 145	16	30
Bromomethane	ND		15.8	13.4		ug/Kg		85	60 - 155	21	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-A-16-B MSD
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND	F2	15.8	11.9	F2	ug/Kg		75	40 - 140	22	20
Carbon tetrachloride	ND		15.8	12.1		ug/Kg		77	60 - 145	23	25
1,1-Dichloroethane	ND		15.8	13.2		ug/Kg		84	65 - 135	20	25
Chlorobenzene	ND		15.8	12.5		ug/Kg		79	70 - 130	13	25
1,2-Dichloroethane	ND		15.8	12.9		ug/Kg		82	60 - 150	20	25
Chlorobromomethane	ND		15.8	14.1		ug/Kg		89	65 - 145	19	25
1,1-Dichloroethene	ND		15.8	12.9		ug/Kg		82	65 - 135	23	25
Chloroethane	ND		15.8	12.8		ug/Kg		81	60 - 150	20	25
Chloroform	ND		15.8	13.4		ug/Kg		84	65 - 135	18	20
Chloromethane	ND	F2	15.8	11.9	F2	ug/Kg		75	40 - 145	28	25
1,2-Dichloropropane	ND		15.8	13.5		ug/Kg		85	65 - 130	18	20
cis-1,2-Dichloroethene	ND		15.8	13.4		ug/Kg		84	65 - 135	18	25
cis-1,3-Dichloropropene	ND		15.8	13.9		ug/Kg		88	70 - 135	15	25
Chlorodibromomethane	ND		15.8	13.5		ug/Kg		85	60 - 145	13	25
Dibromomethane	ND		15.8	13.9		ug/Kg		88	65 - 140	18	25
Dichlorobromomethane	ND		15.8	13.4		ug/Kg		85	65 - 145	14	20
2-Hexanone	ND		15.8	13.6		ug/Kg		86	35 - 160	18	40
Dichlorodifluoromethane	ND		15.8	12.1		ug/Kg		77	30 - 160	33	35
Ethylbenzene	ND		15.8	12.1		ug/Kg		77	70 - 135	13	25
4-Isopropyltoluene	ND		15.8	11.4		ug/Kg		72	60 - 140	3	25
Hexachlorobutadiene	ND	F1	15.8	8.21		ug/Kg		52	50 - 145	9	35
Isopropylbenzene	ND		15.8	12.1		ug/Kg		76	70 - 145	11	25
Methylene Chloride	ND		15.8	10.7		ug/Kg		68	55 - 145	25	25
Methyl tert-butyl ether	ND		15.8	14.0		ug/Kg		88	55 - 155	21	35
Naphthalene	ND		15.8	10.4		ug/Kg		66	40 - 150	5	40
1,1,1,2-Tetrachloroethane	ND		15.8	13.1		ug/Kg		83	65 - 145	16	20
n-Butylbenzene	ND		15.8	10.3		ug/Kg		65	55 - 145	4	30
1,1,2,2-Tetrachloroethane	ND		15.8	13.9		ug/Kg		88	40 - 160	17	30
N-Propylbenzene	ND		15.8	11.9		ug/Kg		75	65 - 140	8	25
sec-Butylbenzene	ND		15.8	11.5		ug/Kg		72	60 - 135	3	25
1,2,3-Trichlorobenzene	ND		15.8	9.26		ug/Kg		59	45 - 145	10	30
Styrene	ND		15.8	11.6		ug/Kg		73	70 - 140	12	25
1,2,4-Trichlorobenzene	ND		15.8	9.63		ug/Kg		61	50 - 140	8	30
tert-Butylbenzene	ND		15.8	11.9		ug/Kg		75	60 - 140	7	25
1,1,1-Trichloroethane	ND	F2	15.8	12.4	F2	ug/Kg		78	65 - 145	21	20
Tetrachloroethene	ND		15.8	12.2		ug/Kg		77	65 - 135	10	25
1,1,2-Trichloroethane	ND		15.8	13.2		ug/Kg		83	65 - 140	20	30
Toluene	ND		15.8	13.3		ug/Kg		84	70 - 130	13	20
trans-1,2-Dichloroethene	ND		15.8	12.9		ug/Kg		82	70 - 135	19	25
1,2,3-Trichloropropane	ND		15.8	13.9		ug/Kg		88	50 - 150	15	30
trans-1,3-Dichloropropene	ND		15.8	13.3		ug/Kg		84	60 - 145	14	25
Trichloroethene	ND		15.8	12.8		ug/Kg		81	65 - 140	15	25
1,2,4-Trimethylbenzene	ND		15.8	11.8		ug/Kg		74	65 - 140	9	25
Trichlorofluoromethane	ND	F2	15.8	12.9	F2	ug/Kg		82	55 - 155	27	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15.8	12.2		ug/Kg		77	60 - 140	26	40
1,3,5-Trimethylbenzene	ND		15.8	11.9		ug/Kg		75	65 - 135	10	25
Vinyl acetate	ND		15.8	13.1		ug/Kg		83	40 - 150	16	30
Vinyl chloride	ND		15.8	13.1		ug/Kg		83	55 - 140	23	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-A-16-B MSD
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	ND		15.8	12.2		ug/Kg		77	70 - 130	14	25
Ethylene Dibromide	ND		15.8	13.4		ug/Kg		85	65 - 140	17	25
o-Xylene	ND		15.8	12.4		ug/Kg		78	65 - 130	13	25
2-Butanone (MEK)	ND		15.8	13.4		ug/Kg		84	25 - 170	36	40
4-Methyl-2-pentanone (MIBK)	ND		15.8	14.0		ug/Kg		88	40 - 155	17	40
2,2-Dichloropropane	ND		15.8	12.7		ug/Kg		80	65 - 150	24	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-526188/4
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			01/31/19 19:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Benzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Bromobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			01/31/19 19:25	1
Bromoform	ND		1.0	0.40	ug/L			01/31/19 19:25	1
Bromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/19 19:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chloroethane	ND		1.0	0.40	ug/L			01/31/19 19:25	1
Chloroform	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chloromethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Dibromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
2-Hexanone	ND		5.0	2.5	ug/L			01/31/19 19:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			01/31/19 19:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526188/4
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Isopropylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			01/31/19 19:25	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Naphthalene	ND		1.0	0.40	ug/L			01/31/19 19:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			01/31/19 19:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
N-Propylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 19:25	1
Styrene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/19 19:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Toluene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			01/31/19 19:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Trichloroethene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			01/31/19 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			01/31/19 19:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			01/31/19 19:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			01/31/19 19:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			01/31/19 19:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			01/31/19 19:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			01/31/19 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			01/31/19 19:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			01/31/19 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*01/31/19 19:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 19:25*	*1*

Lab Sample ID: LCS 440-526188/5
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10.0	ND		ug/L		53	10 - 150
2-Chlorotoluene	10.0	10.1		ug/L		101	70 - 130
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
1,3-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526188/5
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	10.0	10.4		ug/L		104	70 - 130
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,3-Dichloropropane	10.0	10.1		ug/L		101	70 - 130
Benzene	10.0	9.99		ug/L		100	68 - 130
1,1-Dichloropropene	10.0	9.89		ug/L		99	70 - 130
Bromobenzene	10.0	10.6		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	9.63		ug/L		96	52 - 140
Bromoform	10.0	9.62		ug/L		96	60 - 148
Bromomethane	10.0	9.68		ug/L		97	64 - 139
Carbon disulfide	10.0	9.38		ug/L		94	52 - 136
Carbon tetrachloride	10.0	9.26		ug/L		93	60 - 150
1,1-Dichloroethane	10.0	9.61		ug/L		96	64 - 130
Chlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,2-Dichloroethane	10.0	9.40		ug/L		94	57 - 138
Chlorobromomethane	10.0	10.3		ug/L		103	70 - 130
1,1-Dichloroethene	10.0	9.73		ug/L		97	70 - 130
Chloroethane	10.0	9.01		ug/L		90	64 - 135
Chloroform	10.0	9.95		ug/L		99	70 - 130
Chloromethane	10.0	8.49		ug/L		85	47 - 140
1,2-Dichloropropane	10.0	10.3		ug/L		103	67 - 130
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 133
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	70 - 133
Chlorodibromomethane	10.0	10.1		ug/L		101	69 - 145
Dibromomethane	10.0	10.1		ug/L		101	70 - 130
Dichlorobromomethane	10.0	9.56		ug/L		96	70 - 132
2-Hexanone	10.0	8.37		ug/L		84	10 - 150
Dichlorodifluoromethane	10.0	8.18		ug/L		82	29 - 150
Ethylbenzene	10.0	9.78		ug/L		98	70 - 130
4-Isopropyltoluene	10.0	10.3		ug/L		103	70 - 132
Hexachlorobutadiene	10.0	10.2		ug/L		102	10 - 150
Isopropylbenzene	10.0	9.76		ug/L		98	70 - 136
Methylene Chloride	10.0	8.44		ug/L		84	52 - 130
Methyl tert-butyl ether	10.0	9.72		ug/L		97	63 - 131
Naphthalene	10.0	10.1		ug/L		101	60 - 140
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	60 - 141
n-Butylbenzene	10.0	10.1		ug/L		101	65 - 150
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	63 - 130
N-Propylbenzene	10.0	9.89		ug/L		99	67 - 139
sec-Butylbenzene	10.0	9.90		ug/L		99	70 - 138
1,2,3-Trichlorobenzene	10.0	10.3		ug/L		103	60 - 140
Styrene	10.0	9.63		ug/L		96	70 - 134
1,2,4-Trichlorobenzene	10.0	10.7		ug/L		107	60 - 140
tert-Butylbenzene	10.0	10.4		ug/L		104	70 - 130
1,1,1-Trichloroethane	10.0	9.70		ug/L		97	70 - 130
Tetrachloroethene	10.0	9.93		ug/L		99	70 - 130
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	70 - 130
Toluene	10.0	9.58		ug/L		96	70 - 130
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	70 - 130
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	63 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526188/5
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	10.0	9.71		ug/L		97	70 - 132
Trichloroethene	10.0	10.1		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	10.0	10.2		ug/L		102	70 - 135
Trichlorofluoromethane	10.0	9.50		ug/L		95	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.70		ug/L		97	60 - 140
1,3,5-Trimethylbenzene	10.0	10.2		ug/L		102	70 - 136
Vinyl acetate	10.0	9.66		ug/L		97	48 - 140
Vinyl chloride	10.0	9.20		ug/L		92	59 - 133
m-Xylene & p-Xylene	10.0	9.93		ug/L		99	70 - 130
Ethylene Dibromide	10.0	10.4		ug/L		104	70 - 130
o-Xylene	10.0	10.2		ug/L		102	70 - 130
2-Butanone (MEK)	10.0	9.12		ug/L		91	44 - 150
4-Methyl-2-pentanone (MIBK)	10.0	8.43		ug/L		84	59 - 149
2,2-Dichloropropane	10.0	9.62		ug/L		96	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 720-90959-C-1 MS
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150
2-Chlorotoluene	ND		10.0	10.4		ug/L		104	70 - 130
1,2-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.6		ug/L		106	70 - 130
4-Chlorotoluene	ND		10.0	10.6		ug/L		106	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,3-Dichloropropane	ND		10.0	10.4		ug/L		104	70 - 130
Benzene	ND		10.0	10.4		ug/L		104	66 - 130
1,1-Dichloropropene	ND		10.0	10.6		ug/L		106	64 - 130
Bromobenzene	ND		10.0	10.6		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	9.96		ug/L		100	48 - 140
Bromoform	ND		10.0	9.88		ug/L		99	59 - 150
Bromomethane	ND		10.0	10.4		ug/L		104	62 - 131
Carbon disulfide	ND		10.0	10.4		ug/L		104	49 - 140
Carbon tetrachloride	ND		10.0	10.3		ug/L		103	60 - 150
1,1-Dichloroethane	ND		10.0	9.96		ug/L		100	65 - 130
Chlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130
1,2-Dichloroethane	ND		10.0	9.57		ug/L		96	56 - 146
Chlorobromomethane	ND		10.0	11.0		ug/L		110	70 - 130
1,1-Dichloroethene	ND		10.0	10.6		ug/L		106	70 - 130
Chloroethane	ND		10.0	10.0		ug/L		100	68 - 130
Chloroform	ND		10.0	10.0		ug/L		100	70 - 130
Chloromethane	ND		10.0	9.44		ug/L		94	39 - 144
1,2-Dichloropropane	ND		10.0	10.4		ug/L		104	69 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90959-C-1 MS
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130
cis-1,3-Dichloropropene	ND		10.0	10.3		ug/L		103	70 - 133
Chlorodibromomethane	ND		10.0	10.2		ug/L		102	70 - 148
Dibromomethane	ND		10.0	10.3		ug/L		103	70 - 130
Dichlorobromomethane	ND		10.0	9.95		ug/L		100	70 - 138
2-Hexanone	ND		10.0	9.78		ug/L		98	10 - 150
Dichlorodifluoromethane	ND		10.0	10.2		ug/L		102	25 - 142
Ethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130
4-Isopropyltoluene	ND		10.0	10.9		ug/L		109	70 - 130
Hexachlorobutadiene	ND		10.0	10.5		ug/L		105	10 - 150
Isopropylbenzene	ND		10.0	10.1		ug/L		101	70 - 132
Methylene Chloride	ND		10.0	8.56		ug/L		86	52 - 130
Methyl tert-butyl ether	0.90		10.0	10.8		ug/L		99	70 - 130
Naphthalene	ND		10.0	10.1		ug/L		101	60 - 140
1,1,1,2-Tetrachloroethane	ND		10.0	9.97		ug/L		100	60 - 149
n-Butylbenzene	ND		10.0	10.6		ug/L		106	61 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	63 - 130
N-Propylbenzene	ND		10.0	10.4		ug/L		104	66 - 135
sec-Butylbenzene	ND		10.0	10.5		ug/L		105	67 - 134
1,2,3-Trichlorobenzene	ND		10.0	10.2		ug/L		102	60 - 140
Styrene	ND		10.0	9.32		ug/L		93	29 - 150
1,2,4-Trichlorobenzene	ND		10.0	10.5		ug/L		105	60 - 140
tert-Butylbenzene	ND		10.0	10.8		ug/L		108	70 - 130
1,1,1-Trichloroethane	ND		10.0	10.4		ug/L		104	70 - 130
Tetrachloroethene	ND		10.0	10.6		ug/L		106	70 - 137
1,1,2-Trichloroethane	ND		10.0	10.6		ug/L		106	70 - 130
Toluene	ND		10.0	10.1		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.9		ug/L		109	70 - 130
1,2,3-Trichloropropane	ND		10.0	11.3		ug/L		113	60 - 130
trans-1,3-Dichloropropene	ND		10.0	10.0		ug/L		100	70 - 138
Trichloroethene	ND		10.0	10.7		ug/L		107	70 - 130
1,2,4-Trimethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130
Trichlorofluoromethane	ND		10.0	10.7		ug/L		107	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.7		ug/L		107	60 - 140
1,3,5-Trimethylbenzene	ND		10.0	10.4		ug/L		104	70 - 130
Vinyl acetate	ND		10.0	9.98		ug/L		100	23 - 150
Vinyl chloride	ND		10.0	10.3		ug/L		103	50 - 137
m-Xylene & p-Xylene	ND		10.0	10.3		ug/L		103	70 - 133
Ethylene Dibromide	ND		10.0	10.6		ug/L		106	70 - 131
o-Xylene	ND		10.0	10.3		ug/L		103	70 - 133
2-Butanone (MEK)	ND		10.0	9.72		ug/L		97	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.29		ug/L		93	52 - 150
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90959-C-1 MSD
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND	F1	10.0	10.6	J	ug/L		106	10 - 150	NC	35
2-Chlorotoluene	ND		10.0	10.5		ug/L		105	70 - 130	1	20
1,2-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130	5	20
1,3-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130	4	20
4-Chlorotoluene	ND		10.0	10.8		ug/L		108	70 - 130	2	20
1,4-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	5	20
1,3-Dichloropropane	ND		10.0	10.4		ug/L		104	70 - 130	1	25
Benzene	ND		10.0	10.9		ug/L		109	66 - 130	4	20
1,1-Dichloropropene	ND		10.0	11.0		ug/L		110	64 - 130	4	20
Bromobenzene	ND		10.0	10.8		ug/L		108	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		10.0	10.5		ug/L		105	48 - 140	6	30
Bromoform	ND		10.0	10.5		ug/L		105	59 - 150	6	25
Bromomethane	ND		10.0	10.9		ug/L		109	62 - 131	4	25
Carbon disulfide	ND		10.0	10.9		ug/L		109	49 - 140	5	20
Carbon tetrachloride	ND		10.0	10.6		ug/L		106	60 - 150	3	25
1,1-Dichloroethane	ND		10.0	10.7		ug/L		107	65 - 130	7	20
Chlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	3	20
1,2-Dichloroethane	ND		10.0	10.1		ug/L		101	56 - 146	5	20
Chlorobromomethane	ND		10.0	11.4		ug/L		114	70 - 130	3	25
1,1-Dichloroethene	ND		10.0	10.9		ug/L		109	70 - 130	3	20
Chloroethane	ND		10.0	10.3		ug/L		103	68 - 130	3	25
Chloroform	ND		10.0	10.7		ug/L		107	70 - 130	6	20
Chloromethane	ND		10.0	10.3		ug/L		103	39 - 144	9	25
1,2-Dichloropropane	ND		10.0	11.0		ug/L		110	69 - 130	6	20
cis-1,2-Dichloroethene	ND		10.0	11.1		ug/L		111	70 - 130	6	20
cis-1,3-Dichloropropene	ND		10.0	10.9		ug/L		109	70 - 133	5	20
Chlorodibromomethane	ND		10.0	10.8		ug/L		108	70 - 148	5	25
Dibromomethane	ND		10.0	11.1		ug/L		111	70 - 130	7	25
Dichlorobromomethane	ND		10.0	10.3		ug/L		103	70 - 138	3	20
2-Hexanone	ND		10.0	9.78		ug/L		98	10 - 150	0	35
Dichlorodifluoromethane	ND		10.0	10.4		ug/L		104	25 - 142	2	30
Ethylbenzene	ND		10.0	10.2		ug/L		102	70 - 130	1	20
4-Isopropyltoluene	ND		10.0	11.2		ug/L		112	70 - 130	3	20
Hexachlorobutadiene	ND		10.0	11.3		ug/L		113	10 - 150	7	20
Isopropylbenzene	ND		10.0	10.6		ug/L		106	70 - 132	5	20
Methylene Chloride	ND		10.0	9.58		ug/L		96	52 - 130	11	20
Methyl tert-butyl ether	0.90		10.0	11.7		ug/L		108	70 - 130	8	25
Naphthalene	ND		10.0	10.7		ug/L		107	60 - 140	5	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	60 - 149	7	20
n-Butylbenzene	ND		10.0	10.9		ug/L		109	61 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		10.0	10.8		ug/L		108	63 - 130	1	30
N-Propylbenzene	ND		10.0	10.6		ug/L		106	66 - 135	2	20
sec-Butylbenzene	ND		10.0	10.8		ug/L		108	67 - 134	3	20
1,2,3-Trichlorobenzene	ND		10.0	11.0		ug/L		110	60 - 140	7	20
Styrene	ND		10.0	9.81		ug/L		98	29 - 150	5	35
1,2,4-Trichlorobenzene	ND		10.0	11.2		ug/L		112	60 - 140	6	20
tert-Butylbenzene	ND		10.0	11.1		ug/L		111	70 - 130	3	20
1,1,1-Trichloroethane	ND		10.0	10.6		ug/L		106	70 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-90959-C-1 MSD
Matrix: Water
Analysis Batch: 526188

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		10.0	10.9		ug/L		109	70 - 137	3	20
1,1,2-Trichloroethane	ND		10.0	11.0		ug/L		110	70 - 130	3	25
Toluene	ND		10.0	10.3		ug/L		103	70 - 130	2	20
trans-1,2-Dichloroethene	ND		10.0	11.2		ug/L		112	70 - 130	3	20
1,2,3-Trichloropropane	ND		10.0	11.3		ug/L		113	60 - 130	1	30
trans-1,3-Dichloropropene	ND		10.0	10.3		ug/L		103	70 - 138	3	25
Trichloroethene	ND		10.0	11.2		ug/L		112	70 - 130	4	20
1,2,4-Trimethylbenzene	ND		10.0	10.6		ug/L		106	70 - 130	3	25
Trichlorofluoromethane	ND		10.0	11.2		ug/L		112	60 - 150	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.0		ug/L		110	60 - 140	3	20
1,3,5-Trimethylbenzene	ND		10.0	10.7		ug/L		107	70 - 130	3	20
Vinyl acetate	ND		10.0	10.4		ug/L		104	23 - 150	4	30
Vinyl chloride	ND		10.0	10.8		ug/L		108	50 - 137	5	30
m-Xylene & p-Xylene	ND		10.0	10.5		ug/L		105	70 - 133	2	25
Ethylene Dibromide	ND		10.0	10.8		ug/L		108	70 - 131	2	25
o-Xylene	ND		10.0	10.8		ug/L		108	70 - 133	5	20
2-Butanone (MEK)	ND		10.0	11.4		ug/L		114	48 - 140	15	40
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.42		ug/L		94	52 - 150	1	35
2,2-Dichloropropane	ND		10.0	10.6		ug/L		106	69 - 138	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: MB 440-526745/4
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		250	100	ug/Kg			02/05/19 08:20	100
1,2-Dichlorobenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
4-Chlorotoluene	ND		250	50	ug/Kg			02/05/19 08:20	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,3-Dichloropropane	ND		100	50	ug/Kg			02/05/19 08:20	100
Benzene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,1-Dichloropropene	ND		100	50	ug/Kg			02/05/19 08:20	100
Bromobenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			02/05/19 08:20	100
Bromoform	ND		250	100	ug/Kg			02/05/19 08:20	100
Bromomethane	ND		250	100	ug/Kg			02/05/19 08:20	100
Carbon disulfide	ND		250	130	ug/Kg			02/05/19 08:20	100
Carbon tetrachloride	ND		250	100	ug/Kg			02/05/19 08:20	100
1,1-Dichloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
Chlorobenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,2-Dichloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
Chlorobromomethane	ND		250	100	ug/Kg			02/05/19 08:20	100
1,1-Dichloroethene	ND		250	100	ug/Kg			02/05/19 08:20	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526745/4
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		250	100	ug/Kg			02/05/19 08:20	100
Chloroform	ND		100	50	ug/Kg			02/05/19 08:20	100
Chloromethane	ND		250	100	ug/Kg			02/05/19 08:20	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			02/05/19 08:20	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			02/05/19 08:20	100
Chlorodibromomethane	ND		100	50	ug/Kg			02/05/19 08:20	100
Dibromomethane	ND		100	50	ug/Kg			02/05/19 08:20	100
Dichlorobromomethane	ND		100	50	ug/Kg			02/05/19 08:20	100
2-Hexanone	ND		1300	500	ug/Kg			02/05/19 08:20	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			02/05/19 08:20	100
Ethylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
4-Isopropyltoluene	ND		100	50	ug/Kg			02/05/19 08:20	100
Hexachlorobutadiene	ND		250	100	ug/Kg			02/05/19 08:20	100
Isopropylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
Methylene Chloride	ND		1000	500	ug/Kg			02/05/19 08:20	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			02/05/19 08:20	100
Naphthalene	ND		250	100	ug/Kg			02/05/19 08:20	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			02/05/19 08:20	100
n-Butylbenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
N-Propylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
sec-Butylbenzene	ND		250	50	ug/Kg			02/05/19 08:20	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
Styrene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
tert-Butylbenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
Tetrachloroethene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
Toluene	ND		100	50	ug/Kg			02/05/19 08:20	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,2,3-Trichloropropane	ND		500	100	ug/Kg			02/05/19 08:20	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			02/05/19 08:20	100
Trichloroethene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
Trichlorofluoromethane	ND		250	100	ug/Kg			02/05/19 08:20	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			02/05/19 08:20	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
Vinyl acetate	ND		500	250	ug/Kg			02/05/19 08:20	100
Vinyl chloride	ND		250	100	ug/Kg			02/05/19 08:20	100
Ethylene Dibromide	ND		100	50	ug/Kg			02/05/19 08:20	100
2-Butanone (MEK)	ND		1000	500	ug/Kg			02/05/19 08:20	100
Xylenes, Total	ND		200	100	ug/Kg			02/05/19 08:20	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			02/05/19 08:20	100
2,2-Dichloropropane	ND		200	100	ug/Kg			02/05/19 08:20	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*		*02/05/19 08:20*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526745/4
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		60 - 140		02/05/19 08:20	100

Lab Sample ID: LCS 440-526745/5
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	2500	2310		ug/Kg		92	70 - 125
1,2-Dichlorobenzene	2500	2480		ug/Kg		99	70 - 120
1,3-Dichlorobenzene	2500	2430		ug/Kg		97	70 - 125
4-Chlorotoluene	2500	2380		ug/Kg		95	70 - 125
1,4-Dichlorobenzene	2500	2430		ug/Kg		97	70 - 125
1,3-Dichloropropane	2500	2640		ug/Kg		106	65 - 130
Benzene	2500	2620		ug/Kg		105	65 - 120
1,1-Dichloropropene	2500	2910		ug/Kg		116	70 - 130
Bromobenzene	2500	2550		ug/Kg		102	70 - 120
1,2-Dibromo-3-Chloropropane	2500	2280		ug/Kg		91	45 - 135
Bromoform	2500	3020		ug/Kg		121	50 - 130
Bromomethane	2500	2400		ug/Kg		96	30 - 140
Carbon disulfide	2500	2690		ug/Kg		108	50 - 130
Carbon tetrachloride	2500	2950		ug/Kg		118	65 - 145
1,1-Dichloroethane	2500	2120		ug/Kg		85	65 - 130
Chlorobenzene	2500	2560		ug/Kg		102	70 - 125
1,2-Dichloroethane	2500	2450		ug/Kg		98	60 - 145
Chlorobromomethane	2500	2590		ug/Kg		104	65 - 125
1,1-Dichloroethene	2500	2840		ug/Kg		114	75 - 140
Chloroethane	2500	1970		ug/Kg		79	40 - 140
Chloroform	2500	2810		ug/Kg		112	75 - 130
Chloromethane	2500	1920		ug/Kg		77	30 - 140
cis-1,2-Dichloroethene	2500	2860		ug/Kg		115	65 - 130
cis-1,3-Dichloropropene	2500	2920		ug/Kg		117	70 - 130
Chlorodibromomethane	2500	2680		ug/Kg		107	65 - 140
Dibromomethane	2500	2690		ug/Kg		108	65 - 130
Dichlorobromomethane	2500	2780		ug/Kg		111	65 - 135
2-Hexanone	2500	1600		ug/Kg		64	35 - 140
Dichlorodifluoromethane	2500	1910		ug/Kg		76	10 - 155
Ethylbenzene	2500	2690		ug/Kg		108	80 - 120
4-Isopropyltoluene	2500	2340		ug/Kg		94	70 - 125
Hexachlorobutadiene	2500	3400	*	ug/Kg		136	60 - 135
Isopropylbenzene	2500	2660		ug/Kg		106	70 - 125
Methylene Chloride	2500	2600		ug/Kg		104	60 - 140
Methyl tert-butyl ether	2500	3030		ug/Kg		121	55 - 145
Naphthalene	2500	2280		ug/Kg		91	50 - 140
1,1,1,2-Tetrachloroethane	2500	2640		ug/Kg		106	70 - 140
n-Butylbenzene	2500	2410		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	2500	2130		ug/Kg		85	55 - 135
N-Propylbenzene	2500	2340		ug/Kg		93	70 - 130
sec-Butylbenzene	2500	2280		ug/Kg		91	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526745/5
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	2500	2940		ug/Kg		117	60 - 135
Styrene	2500	2330		ug/Kg		93	70 - 135
1,2,4-Trichlorobenzene	2500	3040		ug/Kg		122	65 - 135
tert-Butylbenzene	2500	2250		ug/Kg		90	70 - 125
1,1,1-Trichloroethane	2500	3000		ug/Kg		120	65 - 140
Tetrachloroethene	2500	3150	*	ug/Kg		126	65 - 125
1,1,2-Trichloroethane	2500	2640		ug/Kg		106	65 - 130
Toluene	2500	2670		ug/Kg		107	80 - 120
trans-1,2-Dichloroethene	2500	2770		ug/Kg		111	65 - 130
1,2,3-Trichloropropane	2500	2370		ug/Kg		95	55 - 130
trans-1,3-Dichloropropene	2500	2800		ug/Kg		112	65 - 135
Trichloroethene	2500	2680		ug/Kg		107	70 - 130
1,2,4-Trimethylbenzene	2500	2290		ug/Kg		92	70 - 125
Trichlorofluoromethane	2500	2760		ug/Kg		110	50 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2890		ug/Kg		116	60 - 140
1,3,5-Trimethylbenzene	2500	2350		ug/Kg		94	70 - 125
Vinyl acetate	2500	2410		ug/Kg		96	25 - 145
Vinyl chloride	2500	1180		ug/Kg		47	10 - 120
m-Xylene & p-Xylene	2500	2630		ug/Kg		105	70 - 125
Ethylene Dibromide	2500	2520		ug/Kg		101	70 - 130
o-Xylene	2500	2650		ug/Kg		106	70 - 125
2-Butanone (MEK)	2500	1940		ug/Kg		78	40 - 145
4-Methyl-2-pentanone (MIBK)	2500	1650		ug/Kg		66	40 - 145
2,2-Dichloropropane	2500	2880		ug/Kg		115	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*104*		*60 - 140*

Lab Sample ID: LCSD 440-526745/6
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	2500	2230		ug/Kg		89	70 - 125	4	20
1,2-Dichlorobenzene	2500	2390		ug/Kg		96	70 - 120	4	20
1,3-Dichlorobenzene	2500	2340		ug/Kg		93	70 - 125	4	20
4-Chlorotoluene	2500	2300		ug/Kg		92	70 - 125	3	20
1,4-Dichlorobenzene	2500	2330		ug/Kg		93	70 - 125	4	20
1,3-Dichloropropane	2500	2770		ug/Kg		111	65 - 130	5	20
Benzene	2500	2560		ug/Kg		102	65 - 120	2	20
1,1-Dichloropropene	2500	2750		ug/Kg		110	70 - 130	6	20
Bromobenzene	2500	2510		ug/Kg		100	70 - 120	2	20
1,2-Dibromo-3-Chloropropane	2500	2930		ug/Kg		117	45 - 135	25	25
Bromoform	2500	3330	*	ug/Kg		133	50 - 130	10	25
Bromomethane	2500	2290		ug/Kg		92	30 - 140	5	30
Carbon disulfide	2500	2560		ug/Kg		102	50 - 130	5	20
Carbon tetrachloride	2500	2790		ug/Kg		111	65 - 145	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526745/6
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	2500	2060		ug/Kg		82	65 - 130	3	20
Chlorobenzene	2500	2500		ug/Kg		100	70 - 125	2	20
1,2-Dichloroethane	2500	2670		ug/Kg		107	60 - 145	9	20
Chlorobromomethane	2500	2800		ug/Kg		112	65 - 125	8	20
1,1-Dichloroethene	2500	2790		ug/Kg		112	75 - 140	2	20
Chloroethane	2500	1900		ug/Kg		76	40 - 140	4	25
Chloroform	2500	2790		ug/Kg		111	75 - 130	1	20
Chloromethane	2500	1830		ug/Kg		73	30 - 140	4	25
cis-1,2-Dichloroethene	2500	2770		ug/Kg		111	65 - 130	3	20
cis-1,3-Dichloropropene	2500	2910		ug/Kg		116	70 - 130	0	20
Chlorodibromomethane	2500	2710		ug/Kg		109	65 - 140	1	20
Dibromomethane	2500	2910		ug/Kg		116	65 - 130	8	20
Dichlorobromomethane	2500	2810		ug/Kg		112	65 - 135	1	20
2-Hexanone	2500	2140		ug/Kg		86	35 - 140	29	30
Dichlorodifluoromethane	2500	1750		ug/Kg		70	10 - 155	9	30
Ethylbenzene	2500	2560		ug/Kg		102	80 - 120	5	20
4-Isopropyltoluene	2500	2180		ug/Kg		87	70 - 125	7	20
Hexachlorobutadiene	2500	3180		ug/Kg		127	60 - 135	7	20
Isopropylbenzene	2500	2530		ug/Kg		101	70 - 125	5	20
Methylene Chloride	2500	2690		ug/Kg		108	60 - 140	3	20
Methyl tert-butyl ether	2500	3380		ug/Kg		135	55 - 145	11	25
Naphthalene	2500	2790		ug/Kg		112	50 - 140	20	25
1,1,1,2-Tetrachloroethane	2500	2580		ug/Kg		103	70 - 140	2	20
n-Butylbenzene	2500	2280		ug/Kg		91	70 - 130	6	20
1,1,2,2-Tetrachloroethane	2500	2470		ug/Kg		99	55 - 135	15	25
N-Propylbenzene	2500	2220		ug/Kg		89	70 - 130	5	20
sec-Butylbenzene	2500	2180		ug/Kg		87	70 - 125	5	20
1,2,3-Trichlorobenzene	2500	3060		ug/Kg		122	60 - 135	4	20
Styrene	2500	2280		ug/Kg		91	70 - 135	2	20
1,2,4-Trichlorobenzene	2500	3090		ug/Kg		124	65 - 135	2	20
tert-Butylbenzene	2500	2120		ug/Kg		85	70 - 125	6	20
1,1,1-Trichloroethane	2500	2910		ug/Kg		116	65 - 140	3	20
Tetrachloroethene	2500	2910		ug/Kg		116	65 - 125	8	20
1,1,2-Trichloroethane	2500	2770		ug/Kg		111	65 - 130	5	20
Toluene	2500	2560		ug/Kg		102	80 - 120	4	20
trans-1,2-Dichloroethene	2500	2620		ug/Kg		105	65 - 130	6	20
1,2,3-Trichloropropane	2500	2650		ug/Kg		106	55 - 130	11	25
trans-1,3-Dichloropropene	2500	2880		ug/Kg		115	65 - 135	3	20
Trichloroethene	2500	2580		ug/Kg		103	70 - 130	4	20
1,2,4-Trimethylbenzene	2500	2150		ug/Kg		86	70 - 125	6	20
Trichlorofluoromethane	2500	2660		ug/Kg		106	50 - 145	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2770		ug/Kg		111	60 - 140	4	40
1,3,5-Trimethylbenzene	2500	2190		ug/Kg		88	70 - 125	7	20
Vinyl acetate	2500	2750		ug/Kg		110	25 - 145	13	25
Vinyl chloride	2500	972		ug/Kg		39	10 - 120	19	30
m-Xylene & p-Xylene	2500	2490		ug/Kg		100	70 - 125	5	20
Ethylene Dibromide	2500	2780		ug/Kg		111	70 - 130	10	20
o-Xylene	2500	2560		ug/Kg		102	70 - 125	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526745/6
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			2500	2490		ug/Kg		100	40 - 145	25	30
4-Methyl-2-pentanone (MIBK)			2500	2110		ug/Kg		84	40 - 145	24	30
2,2-Dichloropropane			2500	2610		ug/Kg		105	60 - 145	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*103*		*60 - 140*

Lab Sample ID: MB 440-526988/5
Matrix: Solid
Analysis Batch: 526988

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		100	50	ug/Kg			02/06/19 10:02	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*02/06/19 10:02*	*100*
Toluene-d8 (Surr)	*101*		*60 - 140*		*02/06/19 10:02*	*100*

Lab Sample ID: LCS 440-526988/6
Matrix: Solid
Analysis Batch: 526988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane			1000	1010		ug/Kg		101	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*97*		*60 - 140*

Lab Sample ID: LCSD 440-526988/7
Matrix: Solid
Analysis Batch: 526988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane			1000	1030		ug/Kg		103	75 - 125	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*97*		*60 - 140*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: 720-91011-21 MS — **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526746 — **Prep Batch: 525455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	130000		132000	244000		ug/Kg		85	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*55 - 140*
4-Bromofluorobenzene (Surr)	*92*		*65 - 140*
Toluene-d8 (Surr)	*104*		*60 - 140*

Lab Sample ID: 720-91011-21 MSD — **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526746 — **Prep Batch: 525455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	130000		132000	268000		ug/Kg		103	55 - 140	10	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*55 - 140*
4-Bromofluorobenzene (Surr)	*92*		*65 - 140*
Toluene-d8 (Surr)	*105*		*60 - 140*

Lab Sample ID: MB 440-525788/4 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	84.8	J	100	70	ug/Kg			01/30/19 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*01/30/19 10:53*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*		*01/30/19 10:53*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/30/19 10:53*	*1*

Lab Sample ID: LCS 440-525788/6 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	1010		ug/Kg		101	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-91011-8 MS — **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525788 — **Prep Batch: 525870**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		2420	2090		ug/Kg		86	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: 720-91011-8 MSD — **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525788 — **Prep Batch: 525870**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		2430	2180		ug/Kg		90	55 - 140	5	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-525939/4 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/30/19 22:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*		*01/30/19 22:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*01/30/19 22:27*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*		*01/30/19 22:27*	*1*

Lab Sample ID: LCS 440-525939/7 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	847		ug/Kg		85	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 440-525939/8 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525939

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	878		ug/Kg		88	60 - 135	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: MB 440-526003/4 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/31/19 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*01/31/19 08:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*01/31/19 08:27*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*		*01/31/19 08:27*	*1*

Lab Sample ID: LCS 440-526003/6 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			1000	890		ug/Kg		89	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 720-91048-A-16-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526003 — **Prep Batch: 526116**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1130	962		ug/Kg		85	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-91048-A-16-B MSD
Matrix: Solid
Analysis Batch: 526003

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1090	837		ug/Kg		77	55 - 140	14	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-526189/4
Matrix: Water
Analysis Batch: 526189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			01/31/19 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*01/31/19 19:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/19 19:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*01/31/19 19:25*	*1*

Lab Sample ID: LCS 440-526189/6
Matrix: Water
Analysis Batch: 526189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	448		ug/L		90	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-90959-C-1 MS
Matrix: Water
Analysis Batch: 526189

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		690	703		ug/L		102	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-90959-C-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 526189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		690	724		ug/L		105	50 - 145	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: MB 440-526488/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 526488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/03/19 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*76 - 132*		*02/03/19 11:29*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/03/19 11:29*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*02/03/19 11:29*	*1*

Lab Sample ID: LCS 440-526488/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 526488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	542		ug/L		108	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*88*		*76 - 132*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 128*

Lab Sample ID: 440-231832-C-2 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 526488

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	130		1730	1630		ug/L		87	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*76 - 132*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Toluene-d8 (Surr)	*75*	*X*	*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-231832-C-2 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 526488

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	130		1730	1620		ug/L		86	50 - 145	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*92*		*76 - 132*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*62*	*X*	*80 - 128*

Lab Sample ID: MB 440-526746/4 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			02/05/19 08:20	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*55 - 140*		*02/05/19 08:20*	*100*
4-Bromofluorobenzene (Surr)	*89*		*65 - 140*		*02/05/19 08:20*	*100*
Toluene-d8 (Surr)	*110*		*60 - 140*		*02/05/19 08:20*	*100*

Lab Sample ID: LCS 440-526746/7 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	50000	48100		ug/Kg		96	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*55 - 140*
4-Bromofluorobenzene (Surr)	*90*		*65 - 140*
Toluene-d8 (Surr)	*110*		*60 - 140*

Lab Sample ID: LCSD 440-526746/8 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526746

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	50000	48600		ug/Kg		97	60 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*55 - 140*
4-Bromofluorobenzene (Surr)	*91*		*65 - 140*
Toluene-d8 (Surr)	*109*		*60 - 140*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-525490/1-A
Matrix: Solid
Analysis Batch: 525589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Acenaphthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Acenaphthylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Fluorene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Phenanthrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Chrysene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	01/29/19 13:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*29 - 120*	*01/29/19 07:40*	*01/29/19 13:40*	*1*
Terphenyl-d14	*107*		*10 - 120*	*01/29/19 07:40*	*01/29/19 13:40*	*1*
Nitrobenzene-d5	*103*		*11 - 118*	*01/29/19 07:40*	*01/29/19 13:40*	*1*

Lab Sample ID: MB 440-525490/1-A
Matrix: Solid
Analysis Batch: 526356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Acenaphthene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Acenaphthylene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Fluorene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Phenanthrene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Chrysene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Fluoranthene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Pyrene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		01/29/19 07:40	02/01/19 15:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*29 - 120*	*01/29/19 07:40*	*02/01/19 15:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-525490/1-A
Matrix: Solid
Analysis Batch: 526356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525490

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	96		10 - 120	01/29/19 07:40	02/01/19 15:09	1
Nitrobenzene-d5	99		11 - 118	01/29/19 07:40	02/01/19 15:09	1

Lab Sample ID: LCS 440-525490/2-A
Matrix: Solid
Analysis Batch: 525589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	66.7	61.1		ug/Kg		92	46 - 120
Acenaphthene	66.7	65.5		ug/Kg		98	48 - 120
Acenaphthylene	66.7	68.3		ug/Kg		102	47 - 120
Fluorene	66.7	72.1		ug/Kg		108	47 - 120
Phenanthrene	66.7	65.0		ug/Kg		97	47 - 120
Anthracene	66.7	62.6		ug/Kg		94	46 - 120
Benzo[a]anthracene	66.7	62.3		ug/Kg		93	48 - 120
Chrysene	66.7	63.4		ug/Kg		95	48 - 120
Benzo[a]pyrene	66.7	62.2		ug/Kg		93	48 - 120
Benzo[b]fluoranthene	66.7	62.3		ug/Kg		93	49 - 120
Benzo[k]fluoranthene	66.7	60.2		ug/Kg		90	48 - 120
Benzo[g,h,i]perylene	66.7	61.9		ug/Kg		93	38 - 127
Indeno[1,2,3-cd]pyrene	66.7	55.4		ug/Kg		83	42 - 120
Fluoranthene	66.7	75.0		ug/Kg		113	46 - 120
Pyrene	66.7	74.0		ug/Kg		111	46 - 120
2-Methylnaphthalene	66.7	65.5		ug/Kg		98	49 - 120
Dibenz(a,h)anthracene	66.7	56.3		ug/Kg		84	39 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	100		29 - 120
Terphenyl-d14	112		10 - 120
Nitrobenzene-d5	79		11 - 118

Lab Sample ID: LCS 440-525490/2-A
Matrix: Solid
Analysis Batch: 526356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	66.7	52.3		ug/Kg		79	46 - 120
Acenaphthene	66.7	57.7		ug/Kg		86	48 - 120
Acenaphthylene	66.7	66.7		ug/Kg		100	47 - 120
Fluorene	66.7	64.4		ug/Kg		97	47 - 120
Phenanthrene	66.7	54.8		ug/Kg		82	47 - 120
Anthracene	66.7	60.3		ug/Kg		90	46 - 120
Benzo[a]anthracene	66.7	75.6		ug/Kg		113	48 - 120
Chrysene	66.7	56.3		ug/Kg		85	48 - 120
Benzo[a]pyrene	66.7	57.8		ug/Kg		87	48 - 120
Benzo[b]fluoranthene	66.7	57.9		ug/Kg		87	49 - 120
Benzo[k]fluoranthene	66.7	47.1		ug/Kg		71	48 - 120
Benzo[g,h,i]perylene	66.7	50.4		ug/Kg		76	38 - 127

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-525490/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526356 **Prep Batch: 525490**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Indeno[1,2,3-cd]pyrene	66.7	64.2		ug/Kg		96	42 - 120
Fluoranthene	66.7	62.0		ug/Kg		93	46 - 120
Pyrene	66.7	59.7		ug/Kg		90	46 - 120
2-Methylnaphthalene	66.7	54.4		ug/Kg		82	49 - 120
Dibenz(a,h)anthracene	66.7	56.4		ug/Kg		85	39 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*88*		*29 - 120*
Terphenyl-d14	*94*		*10 - 120*
Nitrobenzene-d5	*100*		*11 - 118*

Lab Sample ID: 720-91011-8 MS **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 527041 **Prep Batch: 525490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		66.0	93.1	J	ug/Kg		NC	10 - 150
Acenaphthene	ND		66.0	ND		ug/Kg		NC	10 - 150
Acenaphthylene	ND		66.0	81.3	J	ug/Kg		NC	23 - 114
Fluorene	ND		66.0	89.6	J	ug/Kg		NC	10 - 150
Phenanthrene	ND		66.0	124	J	ug/Kg		NC	10 - 150
Anthracene	ND		66.0	ND		ug/Kg		NC	10 - 150
Benzo[a]anthracene	ND		66.0	92.3	J	ug/Kg		NC	10 - 150
Chrysene	170	J	66.0	291	J F1	ug/Kg		185	10 - 150
Benzo[a]pyrene	ND		66.0	100	J	ug/Kg		NC	10 - 150
Benzo[b]fluoranthene	ND		66.0	ND		ug/Kg		NC	10 - 150
Benzo[k]fluoranthene	ND		66.0	ND		ug/Kg		NC	10 - 150
Benzo[g,h,i]perylene	ND		66.0	144	J	ug/Kg		NC	10 - 143
Indeno[1,2,3-cd]pyrene	ND		66.0	81.4	J	ug/Kg		NC	10 - 138
Fluoranthene	ND		66.0	117	J	ug/Kg		NC	10 - 150
Pyrene	110	J	66.0	195	J	ug/Kg		129	10 - 150
Dibenz(a,h)anthracene	ND		66.0	ND		ug/Kg		NC	10 - 127
2-Methylnaphthalene	ND		66.0	131	J	ug/Kg		NC	15 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*122*	*X*	*29 - 120*
Terphenyl-d14	*124*	*X*	*10 - 120*
Nitrobenzene-d5	*122*	*X*	*11 - 118*

Lab Sample ID: 720-91011-8 MSD **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 527041 **Prep Batch: 525490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		65.4	84.3	J	ug/Kg		NC	10 - 150	10	40
Acenaphthene	ND		65.4	79.4	J	ug/Kg		NC	10 - 150	NC	39
Acenaphthylene	ND		65.4	81.8	J	ug/Kg		NC	23 - 114	1	38
Fluorene	ND		65.4	87.9	J	ug/Kg		NC	10 - 150	2	40

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91011-8 MSD **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 527041 **Prep Batch: 525490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenanthrene	ND		65.4	105	J	ug/Kg		NC	10 - 150	17	40
Anthracene	ND		65.4	ND		ug/Kg		NC	10 - 150	NC	40
Benzo[a]anthracene	ND		65.4	82.5	J	ug/Kg		NC	10 - 150	11	40
Chrysene	170	J	65.4	255	J	ug/Kg		132	10 - 150	13	40
Benzo[a]pyrene	ND		65.4	98.8	J	ug/Kg		NC	10 - 150	1	40
Benzo[b]fluoranthene	ND		65.4	ND		ug/Kg		NC	10 - 150	NC	40
Benzo[k]fluoranthene	ND		65.4	ND		ug/Kg		NC	10 - 150	NC	40
Benzo[g,h,i]perylene	ND		65.4	132	J	ug/Kg		NC	10 - 143	9	40
Indeno[1,2,3-cd]pyrene	ND		65.4	79.8	J	ug/Kg		NC	10 - 138	2	40
Fluoranthene	ND		65.4	108	J	ug/Kg		NC	10 - 150	8	40
Pyrene	110	J	65.4	164	J	ug/Kg		82	10 - 150	17	40
Dibenz(a,h)anthracene	ND		65.4	83.5	J	ug/Kg		NC	10 - 127	NC	40
2-Methylnaphthalene	ND		65.4	111	J	ug/Kg		NC	15 - 127	16	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*126*	*X*	*29 - 120*
Terphenyl-d14	*124*	*X*	*10 - 120*
Nitrobenzene-d5	*111*		*11 - 118*

Lab Sample ID: 720-91011-21 MS **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526356 **Prep Batch: 525490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		65.5	58.0	J	ug/Kg		88	10 - 150
Acenaphthene	69		65.5	128		ug/Kg		90	10 - 150
Acenaphthylene	ND		65.5	70.2		ug/Kg		107	23 - 114
Fluorene	16	J	65.5	77.5		ug/Kg		94	10 - 150
Phenanthrene	15	J	65.5	70.4		ug/Kg		85	10 - 150
Anthracene	27	J	65.5	85.2		ug/Kg		89	10 - 150
Benzo[a]anthracene	120	F1	65.5	221	F1	ug/Kg		154	10 - 150
Chrysene	99	F1	65.5	175		ug/Kg		116	10 - 150
Benzo[a]pyrene	140	F1	65.5	221		ug/Kg		126	10 - 150
Benzo[b]fluoranthene	190	F1	65.5	285		ug/Kg		146	10 - 150
Benzo[k]fluoranthene	51	J	65.5	107		ug/Kg		85	10 - 150
Benzo[g,h,i]perylene	95		65.5	157		ug/Kg		95	10 - 143
Indeno[1,2,3-cd]pyrene	140	F1	65.5	225		ug/Kg		136	10 - 138
Fluoranthene	170	F1 F2	65.5	243		ug/Kg		117	10 - 150
Pyrene	130	F1	65.5	205		ug/Kg		116	10 - 150
Dibenz(a,h)anthracene	33	J	65.5	90.8		ug/Kg		88	10 - 127
2-Methylnaphthalene	ND		65.5	54.2	J	ug/Kg		83	15 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*29 - 120*
Terphenyl-d14	*88*		*10 - 120*
Nitrobenzene-d5	*182*	*X*	*11 - 118*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91011-21 MSD **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526356 **Prep Batch: 525490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		65.9	61.5		ug/Kg		93	10 - 150	6	40
Acenaphthene	69		65.9	163		ug/Kg		144	10 - 150	24	39
Acenaphthylene	ND		65.9	74.2		ug/Kg		113	23 - 114	6	38
Fluorene	16	J	65.9	85.6		ug/Kg		106	10 - 150	10	40
Phenanthrene	15	J	65.9	84.1		ug/Kg		106	10 - 150	18	40
Anthracene	27	J	65.9	102		ug/Kg		115	10 - 150	18	40
Benzo[a]anthracene	120	F1	65.9	295	F1	ug/Kg		264	10 - 150	28	40
Chrysene	99	F1	65.9	233	F1	ug/Kg		204	10 - 150	29	40
Benzo[a]pyrene	140	F1	65.9	285	F1	ug/Kg		223	10 - 150	25	40
Benzo[b]fluoranthene	190	F1	65.9	373	F1	ug/Kg		279	10 - 150	27	40
Benzo[k]fluoranthene	51	J	65.9	131		ug/Kg		121	10 - 150	21	40
Benzo[g,h,i]perylene	95		65.9	187		ug/Kg		140	10 - 143	17	40
Indeno[1,2,3-cd]pyrene	140	F1	65.9	275	F1	ug/Kg		211	10 - 138	20	40
Fluoranthene	170	F1 F2	65.9	368	F1 F2	ug/Kg		307	10 - 150	41	40
Pyrene	130	F1	65.9	296	F1	ug/Kg		253	10 - 150	36	40
Dibenz(a,h)anthracene	33	J	65.9	105		ug/Kg		109	10 - 127	15	40
2-Methylnaphthalene	ND		65.9	56.3	J	ug/Kg		86	15 - 127	4	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*86*		*29 - 120*
Terphenyl-d14	*92*		*10 - 120*
Nitrobenzene-d5	*205*	*X*	*11 - 118*

Lab Sample ID: MB 440-525569/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 525768 **Prep Batch: 525569**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Acenaphthene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Fluorene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Phenanthrene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Anthracene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Chrysene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Fluoranthene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Pyrene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/29/19 11:21	01/30/19 10:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*38 - 120*	*01/29/19 11:21*	*01/30/19 10:41*	*1*
Terphenyl-d14	*123*	*X*	*21 - 120*	*01/29/19 11:21*	*01/30/19 10:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-525569/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 525768 **Prep Batch: 525569**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	100		10 - 120	01/29/19 11:21	01/30/19 10:41	1

Lab Sample ID: LCS 440-525569/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 525768 **Prep Batch: 525569**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.913		ug/L		91	50 - 120
Acenaphthene	1.00	0.967		ug/L		97	55 - 120
Acenaphthylene	1.00	0.980		ug/L		98	53 - 120
Fluorene	1.00	1.08		ug/L		108	56 - 120
Phenanthrene	1.00	0.949		ug/L		95	56 - 120
Anthracene	1.00	0.901		ug/L		90	54 - 120
Benzo[a]anthracene	1.00	0.922		ug/L		92	53 - 120
Chrysene	1.00	0.908		ug/L		91	56 - 120
Benzo[a]pyrene	1.00	0.891		ug/L		89	44 - 120
Benzo[b]fluoranthene	1.00	0.942		ug/L		94	48 - 120
Benzo[k]fluoranthene	1.00	0.931		ug/L		93	47 - 121
Benzo[g,h,i]perylene	1.00	0.886		ug/L		89	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.890		ug/L		89	38 - 120
Fluoranthene	1.00	1.07		ug/L		107	59 - 120
Pyrene	1.00	1.04		ug/L		104	59 - 120
Dibenz(a,h)anthracene	1.00	0.858		ug/L		86	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	98		38 - 120
Terphenyl-d14	118		21 - 120
Nitrobenzene-d5	98		10 - 120

Lab Sample ID: LCSD 440-525569/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 525768 **Prep Batch: 525569**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.964		ug/L		96	50 - 120	5	35
Acenaphthene	1.00	0.982		ug/L		98	55 - 120	2	35
Acenaphthylene	1.00	1.03		ug/L		103	53 - 120	5	35
Fluorene	1.00	1.13		ug/L		113	56 - 120	4	35
Phenanthrene	1.00	1.01		ug/L		101	56 - 120	6	35
Anthracene	1.00	0.953		ug/L		95	54 - 120	6	35
Benzo[a]anthracene	1.00	0.978		ug/L		98	53 - 120	6	35
Chrysene	1.00	0.940		ug/L		94	56 - 120	3	35
Benzo[a]pyrene	1.00	0.934		ug/L		93	44 - 120	5	35
Benzo[b]fluoranthene	1.00	0.985		ug/L		99	48 - 120	4	35
Benzo[k]fluoranthene	1.00	0.904		ug/L		90	47 - 121	3	35
Benzo[g,h,i]perylene	1.00	0.930		ug/L		93	41 - 123	5	35
Indeno[1,2,3-cd]pyrene	1.00	0.906		ug/L		91	38 - 120	2	35
Fluoranthene	1.00	1.16		ug/L		116	59 - 120	7	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-525569/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 525768 **Prep Batch: 525569**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene			1.00	1.12		ug/L		112	59 - 120	8	35
Dibenz(a,h)anthracene			1.00	0.910		ug/L		91	38 - 122	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*38 - 120*
Terphenyl-d14	*125*	*X*	*21 - 120*
Nitrobenzene-d5	*76*		*10 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-525292/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 525506 **Prep Batch: 525292**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 13:14	1
Motor Oil Range Organics [C24-C36]	ND		5.0	2.5	mg/Kg		01/28/19 09:36	01/29/19 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*84*		*40 - 140*	*01/28/19 09:36*	*01/29/19 13:14*	*1*

Lab Sample ID: LCS 440-525292/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 525506 **Prep Batch: 525292**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			66.7	57.7		mg/Kg		86	45 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*88*		*40 - 140*

Lab Sample ID: 720-91011-8 MS **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 525506 **Prep Batch: 525292**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	370		66.6	249	4	mg/Kg		-179	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*75*		*40 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-91011-8 MSD
Matrix: Solid
Analysis Batch: 525506

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 525292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	370		66.5	211	4	mg/Kg		-237	40 - 120	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*81*		*40 - 140*

Lab Sample ID: MB 440-525296/1-A
Matrix: Water
Analysis Batch: 525278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/28/19 09:49	01/28/19 15:48	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/28/19 09:49	01/28/19 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*45 - 120*	*01/28/19 09:49*	*01/28/19 15:48*	*1*

Lab Sample ID: LCS 440-525296/2-A
Matrix: Water
Analysis Batch: 525278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	1000	716		ug/L		72	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*79*		*45 - 120*

Lab Sample ID: LCSD 440-525296/3-A
Matrix: Water
Analysis Batch: 525278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525296

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1000	626		ug/L		63	40 - 115	13	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*75*		*45 - 120*

Lab Sample ID: MB 440-525503/1-A
Matrix: Solid
Analysis Batch: 525821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.31	J	5.0	2.5	mg/Kg		01/29/19 08:29	01/30/19 18:25	1
Motor Oil Range Organics [C24-C36]	2.94	J	5.0	2.5	mg/Kg		01/29/19 08:29	01/30/19 18:25	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-525503/1-A
Matrix: Solid
Analysis Batch: 525821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525503

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	107		40 - 140	01/29/19 08:29	01/30/19 18:25	1

Lab Sample ID: LCS 440-525503/2-A
Matrix: Solid
Analysis Batch: 525821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525503

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.7	67.7		mg/Kg		102	45 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	108		40 - 140

Lab Sample ID: 440-229282-A-1-A MS
Matrix: Solid
Analysis Batch: 525821

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	13	F2 B	66.4	52.1		mg/Kg		59	40 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	58		40 - 140

Lab Sample ID: 440-229282-A-1-B MSD
Matrix: Solid
Analysis Batch: 525821

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525503

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	13	F2 B	66.6	76.1	F2	mg/Kg		95	40 - 120	37	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	87		40 - 140

Lab Sample ID: MB 440-525719/1-A
Matrix: Solid
Analysis Batch: 525834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	2.5	mg/Kg		01/30/19 05:52	01/30/19 16:30	1
Motor Oil Range Organics [C24-C36]	ND		5.0	2.5	mg/Kg		01/30/19 05:52	01/30/19 16:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	85		40 - 140	01/30/19 05:52	01/30/19 16:30	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-525719/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525834 — **Prep Batch: 525719**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.7	57.1		mg/Kg		86	45 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*85*		*40 - 140*

Lab Sample ID: 720-91011-21 MS — **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525834 — **Prep Batch: 525719**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	22	F1	66.6	47.1	F1	mg/Kg		38	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*85*		*40 - 140*

Lab Sample ID: 720-91011-21 MSD — **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525834 — **Prep Batch: 525719**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	22	F1	66.7	38.4	F1	mg/Kg		25	40 - 120	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*83*		*40 - 140*

Lab Sample ID: MB 440-526368/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526266 — **Prep Batch: 526368**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.99	J	5.0	2.5	mg/Kg		02/01/19 13:30	02/02/19 02:18	1
Motor Oil Range Organics [C24-C36]	3.17	J	5.0	2.5	mg/Kg		02/01/19 13:30	02/02/19 02:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*02/01/19 13:30*	*02/02/19 02:18*	*1*

Lab Sample ID: LCS 440-526368/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526266 — **Prep Batch: 526368**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.7	62.9		mg/Kg		94	45 - 115

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-526368/2-A
Matrix: Solid
Analysis Batch: 526266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526368

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	93		40 - 140

Lab Sample ID: 440-231937-A-3-A MS
Matrix: Solid
Analysis Batch: 526644

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	1000	B	66.3	1130	4	mg/Kg		171	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	86		40 - 140

Lab Sample ID: 440-231937-A-3-B MSD
Matrix: Solid
Analysis Batch: 526644

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526368

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1000	B	65.8	849	4	mg/Kg		-253	40 - 120	28	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	70		40 - 140

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-525476/1-A
Matrix: Solid
Analysis Batch: 526074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endrin	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
delta-BHC	ND		10	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-525476/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526074 **Prep Batch: 525476**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		200	50	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
Chlordane (technical)	ND		50	10	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/29/19 06:33	01/31/19 12:35	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/29/19 06:33	01/31/19 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*28 - 115*	*01/29/19 06:33*	*01/31/19 12:35*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*21 - 117*	*01/29/19 06:33*	*01/31/19 12:35*	*1*

Lab Sample ID: LCS 440-525476/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526074 **Prep Batch: 525476**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	11.7		ug/Kg		88	53 - 115
Dieldrin	13.3	12.4		ug/Kg		93	57 - 115
Endrin aldehyde	13.3	10.0		ug/Kg		75	54 - 115
Endrin	13.3	13.2		ug/Kg		99	61 - 120
Endrin ketone	13.3	10.6		ug/Kg		80	54 - 119
Heptachlor	13.3	11.7		ug/Kg		88	52 - 115
Heptachlor epoxide	13.3	12.4		ug/Kg		93	59 - 115
4,4'-DDT	13.3	11.1		ug/Kg		84	60 - 131
4,4'-DDE	13.3	12.1		ug/Kg		91	55 - 115
4,4'-DDD	13.3	11.9		ug/Kg		90	59 - 118
Endosulfan I	13.3	12.2		ug/Kg		91	56 - 115
Endosulfan II	13.3	12.1		ug/Kg		91	60 - 117
alpha-BHC	13.3	11.6		ug/Kg		87	57 - 115
beta-BHC	13.3	12.3		ug/Kg		92	58 - 115
gamma-BHC (Lindane)	13.3	10.2		ug/Kg		77	56 - 115
delta-BHC	13.3	12.0		ug/Kg		90	52 - 115
Endosulfan sulfate	13.3	10.4		ug/Kg		78	60 - 115
Methoxychlor	13.3	11.0		ug/Kg		83	60 - 133
alpha-Chlordane	13.3	12.1		ug/Kg		91	56 - 115
gamma-Chlordane	13.3	12.1		ug/Kg		91	38 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*80*		*21 - 117*

Lab Sample ID: 720-91011-8 MS **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526074 **Prep Batch: 525476**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		13.3	9.53		ug/Kg		72	10 - 150
Dieldrin	ND		13.3	10.0		ug/Kg		75	10 - 150
Endrin aldehyde	ND		13.3	5.96		ug/Kg		45	10 - 131
Endrin	ND		13.3	9.00		ug/Kg		68	10 - 150

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91011-8 MS
Matrix: Solid
Analysis Batch: 526074

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 525476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin ketone	ND		13.3	6.88	p	ug/Kg		52	10 - 134
Heptachlor	ND		13.3	8.59		ug/Kg		64	10 - 150
Heptachlor epoxide	ND		13.3	12.4		ug/Kg		93	10 - 150
4,4'-DDT	6.3		13.3	9.29		ug/Kg		22	13 - 141
4,4'-DDE	4.4	J	13.3	10.2		ug/Kg		44	10 - 150
4,4'-DDD	2.9	J p	13.3	9.97		ug/Kg		53	10 - 150
Endosulfan I	ND		13.3	7.41		ug/Kg		56	10 - 150
Endosulfan II	ND		13.3	7.73		ug/Kg		58	10 - 150
alpha-BHC	ND		13.3	9.01		ug/Kg		68	12 - 125
beta-BHC	ND		13.3	10.9	p	ug/Kg		82	10 - 150
gamma-BHC (Lindane)	ND		13.3	8.46		ug/Kg		64	20 - 119
delta-BHC	ND		13.3	8.33	J p	ug/Kg		63	12 - 130
Endosulfan sulfate	ND		13.3	7.20	J	ug/Kg		54	10 - 150
Methoxychlor	ND		13.3	5.12	p	ug/Kg		38	10 - 150
alpha-Chlordane	ND		13.3	6.96		ug/Kg		52	10 - 150
gamma-Chlordane	ND		13.3	8.48		ug/Kg		64	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*64*		*21 - 117*

Lab Sample ID: 720-91011-8 MSD
Matrix: Solid
Analysis Batch: 526074

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 525476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.3	11.0		ug/Kg		83	10 - 150	15	26
Dieldrin	ND		13.3	9.46		ug/Kg		71	10 - 150	6	28
Endrin aldehyde	ND		13.3	5.66		ug/Kg		43	10 - 131	5	33
Endrin	ND		13.3	8.38		ug/Kg		63	10 - 150	7	27
Endrin ketone	ND		13.3	6.58		ug/Kg		50	10 - 134	4	40
Heptachlor	ND		13.3	9.38		ug/Kg		71	10 - 150	9	28
Heptachlor epoxide	ND		13.3	11.2		ug/Kg		85	10 - 150	10	25
4,4'-DDT	6.3		13.3	8.22		ug/Kg		14	13 - 141	12	26
4,4'-DDE	4.4	J	13.3	9.85		ug/Kg		41	10 - 150	4	40
4,4'-DDD	2.9	J p	13.3	9.69		ug/Kg		51	10 - 150	3	26
Endosulfan I	ND		13.3	9.22		ug/Kg		70	10 - 150	22	32
Endosulfan II	ND		13.3	7.88		ug/Kg		59	10 - 150	2	25
alpha-BHC	ND		13.3	9.33		ug/Kg		70	12 - 125	4	18
beta-BHC	ND		13.3	11.1	p	ug/Kg		84	10 - 150	2	33
gamma-BHC (Lindane)	ND		13.3	9.19		ug/Kg		69	20 - 119	8	24
delta-BHC	ND		13.3	8.59	J	ug/Kg		65	12 - 130	3	35
Endosulfan sulfate	ND		13.3	6.84	J	ug/Kg		52	10 - 150	5	35
Methoxychlor	ND		13.3	4.70	J	ug/Kg		35	10 - 150	9	34
alpha-Chlordane	ND		13.3	8.24		ug/Kg		62	10 - 150	17	40
gamma-Chlordane	ND		13.3	9.70		ug/Kg		73	10 - 150	13	36

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91011-8 MSD
Matrix: Solid
Analysis Batch: 526074

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 525476

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*70*		*21 - 117*

Lab Sample ID: MB 440-525871/1-A
Matrix: Solid
Analysis Batch: 526180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Endrin	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
delta-BHC	ND		10	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Toxaphene	ND		200	50	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
Chlordane (technical)	ND		50	10	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/30/19 13:03	01/31/19 18:32	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/30/19 13:03	01/31/19 18:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*28 - 115*	*01/30/19 13:03*	*01/31/19 18:32*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*21 - 117*	*01/30/19 13:03*	*01/31/19 18:32*	*1*

Lab Sample ID: LCS 440-525871/2-A
Matrix: Solid
Analysis Batch: 526648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	11.9		ug/Kg		89	53 - 115
Dieldrin	13.3	12.4		ug/Kg		93	57 - 115
Endrin aldehyde	13.3	10.1		ug/Kg		76	54 - 115
Endrin	13.3	13.5		ug/Kg		101	61 - 120
Endrin ketone	13.3	10.9		ug/Kg		81	54 - 119
Heptachlor	13.3	12.2		ug/Kg		91	52 - 115
Heptachlor epoxide	13.3	12.4		ug/Kg		93	59 - 115
4,4'-DDT	13.3	12.3		ug/Kg		92	60 - 131

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-525871/2-A
Matrix: Solid
Analysis Batch: 526648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDE	13.3	12.3		ug/Kg		92	55 - 115
4,4'-DDD	13.3	12.3		ug/Kg		92	59 - 118
Endosulfan I	13.3	12.3		ug/Kg		92	56 - 115
Endosulfan II	13.3	12.2		ug/Kg		92	60 - 117
alpha-BHC	13.3	11.5		ug/Kg		87	57 - 115
beta-BHC	13.3	12.1		ug/Kg		91	58 - 115
gamma-BHC (Lindane)	13.3	10.5		ug/Kg		79	56 - 115
delta-BHC	13.3	11.6		ug/Kg		87	52 - 115
Endosulfan sulfate	13.3	10.5		ug/Kg		79	60 - 115
Methoxychlor	13.3	12.4		ug/Kg		93	60 - 133
alpha-Chlordane	13.3	12.1		ug/Kg		91	56 - 115
gamma-Chlordane	13.3	12.1		ug/Kg		90	38 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*81*		*21 - 117*

Lab Sample ID: 720-91011-21 MS
Matrix: Solid
Analysis Batch: 526363

Client Sample ID: DG-AD17S-3.5-4
Prep Type: Total/NA
Prep Batch: 525871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		13.0	8.73		ug/Kg		67	10 - 150
Dieldrin	ND		13.0	9.78		ug/Kg		75	10 - 150
Endrin aldehyde	ND		13.0	5.30		ug/Kg		41	10 - 131
Endrin	ND		13.0	9.66		ug/Kg		74	10 - 150
Endrin ketone	ND		13.0	6.34		ug/Kg		49	10 - 134
Heptachlor	ND		13.0	8.53		ug/Kg		65	10 - 150
Heptachlor epoxide	ND		13.0	9.74		ug/Kg		75	10 - 150
4,4'-DDT	ND		13.0	6.56		ug/Kg		50	13 - 141
4,4'-DDE	ND		13.0	9.59		ug/Kg		74	10 - 150
4,4'-DDD	ND		13.0	9.03		ug/Kg		69	10 - 150
Endosulfan I	ND		13.0	9.10		ug/Kg		70	10 - 150
Endosulfan II	ND		13.0	8.00		ug/Kg		61	10 - 150
alpha-BHC	ND		13.0	8.80		ug/Kg		67	12 - 125
beta-BHC	ND		13.0	8.77		ug/Kg		67	10 - 150
gamma-BHC (Lindane)	ND		13.0	8.09		ug/Kg		62	20 - 119
delta-BHC	ND		13.0	7.98	J	ug/Kg		61	12 - 130
Endosulfan sulfate	ND		13.0	6.71	J	ug/Kg		51	10 - 150
Methoxychlor	ND		13.0	5.89		ug/Kg		45	10 - 150
alpha-Chlordane	ND		13.0	9.11		ug/Kg		70	10 - 150
gamma-Chlordane	ND		13.0	9.54		ug/Kg		73	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*66*		*21 - 117*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91011-21 MSD
Matrix: Solid
Analysis Batch: 526363

Client Sample ID: DG-AD17S-3.5-4
Prep Type: Total/NA
Prep Batch: 525871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.3	8.53		ug/Kg		64	10 - 150	2	26
Dieldrin	ND		13.3	9.23		ug/Kg		70	10 - 150	6	28
Endrin aldehyde	ND		13.3	5.37		ug/Kg		40	10 - 131	1	33
Endrin	ND		13.3	9.45		ug/Kg		71	10 - 150	2	27
Endrin ketone	ND		13.3	6.64		ug/Kg		50	10 - 134	5	40
Heptachlor	ND		13.3	8.88		ug/Kg		67	10 - 150	4	28
Heptachlor epoxide	ND		13.3	9.32		ug/Kg		70	10 - 150	4	25
4,4'-DDT	ND		13.3	6.58		ug/Kg		50	13 - 141	0	26
4,4'-DDE	ND		13.3	9.06		ug/Kg		68	10 - 150	6	40
4,4'-DDD	ND		13.3	8.70		ug/Kg		66	10 - 150	4	26
Endosulfan I	ND		13.3	8.99		ug/Kg		68	10 - 150	1	32
Endosulfan II	ND		13.3	8.07		ug/Kg		61	10 - 150	1	25
alpha-BHC	ND		13.3	8.94		ug/Kg		67	12 - 125	2	18
beta-BHC	ND		13.3	9.89		ug/Kg		75	10 - 150	12	33
gamma-BHC (Lindane)	ND		13.3	8.44		ug/Kg		64	20 - 119	4	24
delta-BHC	ND		13.3	8.46	J	ug/Kg		64	12 - 130	6	35
Endosulfan sulfate	ND		13.3	6.74	J	ug/Kg		51	10 - 150	0	35
Methoxychlor	ND		13.3	6.33		ug/Kg		48	10 - 150	7	34
alpha-Chlordane	ND		13.3	8.58		ug/Kg		65	10 - 150	6	40
gamma-Chlordane	ND		13.3	9.00		ug/Kg		68	10 - 150	6	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*63*		*21 - 117*

Lab Sample ID: MB 440-525988/1-A
Matrix: Solid
Analysis Batch: 526180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Dieldrin	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Endrin	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Endrin ketone	ND		5.0	2.0	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Heptachlor	ND		5.0	2.0	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Endosulfan I	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Endosulfan II	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
alpha-BHC	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
beta-BHC	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
delta-BHC	ND		10	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Methoxychlor	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-525988/1-A
Matrix: Solid
Analysis Batch: 526180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		200	50	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
Chlordane (technical)	ND		50	10	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		01/31/19 06:13	01/31/19 17:02	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		01/31/19 06:13	01/31/19 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*28 - 115*	*01/31/19 06:13*	*01/31/19 17:02*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*21 - 117*	*01/31/19 06:13*	*01/31/19 17:02*	*1*

Lab Sample ID: LCS 440-525988/2-A
Matrix: Solid
Analysis Batch: 526180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	10.7		ug/Kg		80	53 - 115
Dieldrin	13.3	11.5		ug/Kg		86	57 - 115
Endrin aldehyde	13.3	9.81		ug/Kg		74	54 - 115
Endrin	13.3	12.3		ug/Kg		92	61 - 120
Endrin ketone	13.3	11.1		ug/Kg		83	54 - 119
Heptachlor	13.3	10.8		ug/Kg		81	52 - 115
Heptachlor epoxide	13.3	10.5		ug/Kg		79	59 - 115
4,4'-DDT	13.3	11.1		ug/Kg		83	60 - 131
4,4'-DDE	13.3	10.6		ug/Kg		79	55 - 115
4,4'-DDD	13.3	11.5		ug/Kg		86	59 - 118
Endosulfan I	13.3	11.3		ug/Kg		85	56 - 115
Endosulfan II	13.3	11.6		ug/Kg		87	60 - 117
alpha-BHC	13.3	9.67		ug/Kg		72	57 - 115
beta-BHC	13.3	10.1		ug/Kg		76	58 - 115
gamma-BHC (Lindane)	13.3	7.83		ug/Kg		59	56 - 115
delta-BHC	13.3	9.90	J	ug/Kg		74	52 - 115
Endosulfan sulfate	13.3	11.2		ug/Kg		84	60 - 115
Methoxychlor	13.3	12.3		ug/Kg		92	60 - 133
alpha-Chlordane	13.3	10.8		ug/Kg		81	56 - 115
gamma-Chlordane	13.3	10.4		ug/Kg		78	38 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*76*		*21 - 117*

Lab Sample ID: 440-231839-A-1-A MS
Matrix: Solid
Analysis Batch: 526180

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		13.1	10.5		ug/Kg		81	10 - 150
Dieldrin	ND		13.1	11.2		ug/Kg		85	10 - 150
Endrin aldehyde	ND		13.1	9.03		ug/Kg		69	10 - 131
Endrin	ND		13.1	11.8		ug/Kg		90	10 - 150

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-231839-A-1-A MS
Matrix: Solid
Analysis Batch: 526180

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin ketone	ND		13.1	10.1		ug/Kg		77	10 - 134
Heptachlor	ND		13.1	10.9		ug/Kg		83	10 - 150
Heptachlor epoxide	ND		13.1	10.3		ug/Kg		78	10 - 150
4,4'-DDT	ND		13.1	10.8		ug/Kg		82	13 - 141
4,4'-DDE	ND		13.1	10.2		ug/Kg		78	10 - 150
4,4'-DDD	ND		13.1	11.0		ug/Kg		84	10 - 150
Endosulfan I	ND		13.1	11.0		ug/Kg		84	10 - 150
Endosulfan II	ND		13.1	10.9		ug/Kg		83	10 - 150
alpha-BHC	ND		13.1	9.75		ug/Kg		74	12 - 125
beta-BHC	ND		13.1	10.1		ug/Kg		77	10 - 150
gamma-BHC (Lindane)	ND		13.1	8.04		ug/Kg		61	20 - 119
delta-BHC	ND		13.1	10.1		ug/Kg		77	12 - 130
Endosulfan sulfate	ND		13.1	10.4		ug/Kg		79	10 - 150
Methoxychlor	ND		13.1	11.3		ug/Kg		86	10 - 150
alpha-Chlordane	ND		13.1	10.4		ug/Kg		79	10 - 150
gamma-Chlordane	ND		13.1	10.0		ug/Kg		77	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*72*		*21 - 117*

Lab Sample ID: 440-231839-A-1-B MSD
Matrix: Solid
Analysis Batch: 526180

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525988

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.2	10.9		ug/Kg		83	10 - 150	3	26
Dieldrin	ND		13.2	11.3		ug/Kg		86	10 - 150	1	28
Endrin aldehyde	ND		13.2	9.21		ug/Kg		70	10 - 131	2	33
Endrin	ND		13.2	12.1		ug/Kg		92	10 - 150	3	27
Endrin ketone	ND		13.2	10.3		ug/Kg		78	10 - 134	1	40
Heptachlor	ND		13.2	11.3		ug/Kg		86	10 - 150	3	28
Heptachlor epoxide	ND		13.2	10.4		ug/Kg		79	10 - 150	1	25
4,4'-DDT	ND		13.2	10.9		ug/Kg		83	13 - 141	1	26
4,4'-DDE	ND		13.2	10.5		ug/Kg		80	10 - 150	2	40
4,4'-DDD	ND		13.2	11.2		ug/Kg		85	10 - 150	2	26
Endosulfan I	ND		13.2	11.3		ug/Kg		86	10 - 150	3	32
Endosulfan II	ND		13.2	11.1		ug/Kg		85	10 - 150	2	25
alpha-BHC	ND		13.2	10.1		ug/Kg		77	12 - 125	4	18
beta-BHC	ND		13.2	10.5		ug/Kg		80	10 - 150	4	33
gamma-BHC (Lindane)	ND		13.2	8.42		ug/Kg		64	20 - 119	5	24
delta-BHC	ND		13.2	10.5		ug/Kg		80	12 - 130	4	35
Endosulfan sulfate	ND		13.2	10.6		ug/Kg		81	10 - 150	2	35
Methoxychlor	ND		13.2	11.5		ug/Kg		88	10 - 150	2	34
alpha-Chlordane	ND		13.2	10.7		ug/Kg		81	10 - 150	2	40
gamma-Chlordane	ND		13.2	10.2		ug/Kg		78	10 - 150	2	36

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-231839-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526180 — **Prep Batch: 525988**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*73*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*73*		*21 - 117*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-525476/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525830 — **Prep Batch: 525476**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1221	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1232	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1242	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1248	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1254	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1
Aroclor 1260	ND		50	17	ug/Kg		01/29/19 06:33	01/30/19 13:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*99*		*45 - 120*	*01/29/19 06:33*	*01/30/19 13:58*	*1*

Lab Sample ID: LCS 440-525476/5-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 525830 — **Prep Batch: 525476**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	252		ug/Kg		94	65 - 115
Aroclor 1260	267	262		ug/Kg		98	65 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	*98*		*45 - 120*

Lab Sample ID: 720-91011-8 MS — **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526128 — **Prep Batch: 525476**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND	*	263	190		ug/Kg		72	50 - 120
Aroclor 1260	ND	* F1	263	193		ug/Kg		73	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-91011-8 MSD — **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526128 — **Prep Batch: 525476**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		264	183		ug/Kg		69	50 - 120	4	30
Aroclor 1260	ND	* F1	264	189		ug/Kg		71	50 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*

Lab Sample ID: MB 440-525871/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526094 — **Prep Batch: 525871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 19:28	1
Aroclor 1221	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 19:28	1
Aroclor 1232	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 19:28	1
Aroclor 1242	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 19:28	1
Aroclor 1248	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 19:28	1
Aroclor 1254	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 19:28	1
Aroclor 1260	ND		50	17	ug/Kg		01/30/19 13:03	01/31/19 19:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*01/30/19 13:03*	*01/31/19 19:28*	*1*

Lab Sample ID: LCS 440-525871/5-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526094 — **Prep Batch: 525871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	207		ug/Kg		78	65 - 115
Aroclor 1260	267	221		ug/Kg		83	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Lab Sample ID: 720-91011-21 MS — **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526355 — **Prep Batch: 525871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		265	179		ug/Kg		67	50 - 120
Aroclor 1260	ND		265	165		ug/Kg		62	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-91011-21 MSD — **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526355 — **Prep Batch: 525871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		265	186		ug/Kg		70	50 - 120	7	30
Aroclor 1260	ND		265	169		ug/Kg		64	50 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*

Lab Sample ID: MB 440-526140/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526355 — **Prep Batch: 526140**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*45 - 120*	*01/31/19 13:33*	*02/01/19 18:42*	*1*

Lab Sample ID: LCS 440-526140/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526355 — **Prep Batch: 526140**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	283		ug/Kg		106	65 - 115
Aroclor 1260	267	297		ug/Kg		111	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*98*		*45 - 120*

Lab Sample ID: 720-91048-F-19-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526355 — **Prep Batch: 526140**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	202		ug/Kg		76	50 - 120
Aroclor 1260	ND		266	195		ug/Kg		73	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-91048-F-19-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526355 — **Prep Batch: 526140**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		265	192		ug/Kg		72	50 - 120	5	30
Aroclor 1260	ND		265	178		ug/Kg		67	50 - 125	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*57*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259575/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259788 — **Prep Batch: 259575**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Arsenic	ND		1.0	0.085	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Barium	0.534		0.50	0.071	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Beryllium	ND		0.10	0.033	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Cadmium	ND		0.13	0.012	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Chromium	ND		0.50	0.053	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Cobalt	ND		0.20	0.020	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Copper	ND		1.5	0.71	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Lead	ND		0.50	0.11	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Nickel	0.0652	J	0.50	0.051	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Selenium	ND		1.0	0.15	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Silver	ND		0.25	0.051	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Vanadium	ND		0.50	0.068	mg/Kg		02/01/19 08:26	02/04/19 17:28	1
Zinc	ND		1.5	0.64	mg/Kg		02/01/19 08:26	02/04/19 17:28	1

Lab Sample ID: MB 720-259575/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 262159 — **Prep Batch: 259575**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		2.0	0.58	mg/Kg		02/01/19 08:26	03/16/19 16:32	4

Lab Sample ID: LCS 720-259575/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259788 — **Prep Batch: 259575**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.9		mg/Kg		96	80 - 120
Arsenic	50.0	47.8		mg/Kg		96	80 - 120
Barium	50.0	47.6		mg/Kg		95	80 - 120
Beryllium	50.0	44.8		mg/Kg		90	80 - 120
Cadmium	50.0	49.0		mg/Kg		98	80 - 120
Chromium	50.0	48.8		mg/Kg		98	80 - 120
Cobalt	50.0	50.0		mg/Kg		100	80 - 120
Copper	50.0	48.8		mg/Kg		98	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259575/2-A
Matrix: Solid
Analysis Batch: 259788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.4		mg/Kg		101	80 - 120
Molybdenum	50.0	49.4		mg/Kg		99	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	50.0	48.1		mg/Kg		96	80 - 120
Silver	25.0	24.5		mg/Kg		98	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	50.2		mg/Kg		100	80 - 120

Lab Sample ID: LCS 720-259575/2-A
Matrix: Solid
Analysis Batch: 262159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	50.5		mg/Kg		101	80 - 120

Lab Sample ID: 720-91011-8 MS
Matrix: Solid
Analysis Batch: 259788

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 259575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.2	J F1	42.4	13.1	F1	mg/Kg		28	75 - 125
Arsenic	9.2		42.4	52.9		mg/Kg		103	75 - 125
Barium	69	B F1	42.4	96.4	F1	mg/Kg		65	75 - 125
Beryllium	0.88		42.4	42.1		mg/Kg		97	75 - 125
Cadmium	0.37	J	42.4	41.4		mg/Kg		97	75 - 125
Chromium	34		42.4	75.0		mg/Kg		96	75 - 125
Cobalt	14		42.4	54.4		mg/Kg		96	75 - 125
Copper	30	F1 F2	42.4	68.4		mg/Kg		91	75 - 125
Lead	5.8		42.4	51.2		mg/Kg		107	75 - 125
Molybdenum	0.34	J	42.4	40.6		mg/Kg		95	75 - 125
Nickel	32	B	42.4	74.5		mg/Kg		100	75 - 125
Selenium	2.3	J	42.4	41.4		mg/Kg		92	75 - 125
Silver	0.26	J	21.2	21.0		mg/Kg		98	75 - 125
Vanadium	50		42.4	93.8		mg/Kg		103	75 - 125
Zinc	50		42.4	91.2		mg/Kg		98	75 - 125

Lab Sample ID: 720-91011-8 MS
Matrix: Solid
Analysis Batch: 262159

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 259575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		42.4	42.0		mg/Kg		99	75 - 125

Lab Sample ID: 720-91011-8 MSD
Matrix: Solid
Analysis Batch: 259788

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 259575

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.2	J F1	42.0	13.1	F1	mg/Kg		28	75 - 125	0	20
Arsenic	9.2		42.0	49.9		mg/Kg		97	75 - 125	6	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91011-8 MSD — **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259788 — **Prep Batch: 259575**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	69	B F1	42.0	91.2	F1	mg/Kg		54	75 - 125	6	20
Beryllium	0.88		42.0	42.7		mg/Kg		100	75 - 125	2	20
Cadmium	0.37	J	42.0	41.6		mg/Kg		98	75 - 125	1	20
Chromium	34		42.0	81.2		mg/Kg		112	75 - 125	8	20
Cobalt	14		42.0	53.6		mg/Kg		95	75 - 125	1	20
Copper	30	F1 F2	42.0	93.7	F1 F2	mg/Kg		152	75 - 125	31	20
Lead	5.8		42.0	50.1		mg/Kg		105	75 - 125	2	20
Molybdenum	0.34	J	42.0	40.9		mg/Kg		97	75 - 125	1	20
Nickel	32	B	42.0	73.2		mg/Kg		97	75 - 125	2	20
Selenium	2.3	J	42.0	42.0		mg/Kg		94	75 - 125	1	20
Silver	0.26	J	21.0	20.5		mg/Kg		96	75 - 125	2	20
Vanadium	50		42.0	93.2		mg/Kg		102	75 - 125	1	20
Zinc	50		42.0	92.2		mg/Kg		101	75 - 125	1	20

Lab Sample ID: 720-91011-8 MSD — **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 262159 — **Prep Batch: 259575**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		42.0	40.0		mg/Kg		95	75 - 125	5	20

Lab Sample ID: MB 720-259601/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259871 — **Prep Batch: 259601**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Arsenic	ND		1.0	0.085	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Barium	ND		0.50	0.071	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Beryllium	ND		0.10	0.033	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Cadmium	ND		0.13	0.012	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Chromium	0.235	J	0.50	0.053	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Cobalt	ND		0.20	0.020	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Copper	ND		1.5	0.71	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Lead	ND		0.50	0.11	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Nickel	0.113	J	0.50	0.051	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Selenium	ND		1.0	0.15	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Silver	0.0860	J	0.25	0.051	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Thallium	ND		0.50	0.15	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Vanadium	ND		0.50	0.068	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Zinc	ND		1.5	0.64	mg/Kg		01/31/19 18:00	02/05/19 19:15	1

Lab Sample ID: LCS 720-259601/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259871 — **Prep Batch: 259601**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.8		mg/Kg		102	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259601/2-A
Matrix: Solid
Analysis Batch: 259871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.3		mg/Kg		103	80 - 120
Barium	50.0	48.4		mg/Kg		97	80 - 120
Beryllium	50.0	48.4		mg/Kg		97	80 - 120
Cadmium	50.0	51.1		mg/Kg		102	80 - 120
Chromium	50.0	52.1		mg/Kg		104	80 - 120
Cobalt	50.0	50.8		mg/Kg		102	80 - 120
Copper	50.0	51.3		mg/Kg		103	80 - 120
Lead	50.0	51.9		mg/Kg		104	80 - 120
Molybdenum	50.0	50.3		mg/Kg		101	80 - 120
Nickel	50.0	51.8		mg/Kg		104	80 - 120
Selenium	50.0	49.6		mg/Kg		99	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	48.8		mg/Kg		98	80 - 120
Vanadium	50.0	50.3		mg/Kg		101	80 - 120
Zinc	50.0	50.6		mg/Kg		101	80 - 120

Lab Sample ID: 720-91011-21 MS
Matrix: Solid
Analysis Batch: 259871

Client Sample ID: DG-AD17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.7	F1	39.7	13.1	F1	mg/Kg		29	75 - 125
Arsenic	9.2		39.7	50.4		mg/Kg		104	75 - 125
Barium	98	F1	39.7	159	F1	mg/Kg		153	75 - 125
Beryllium	0.59		39.7	44.3		mg/Kg		110	75 - 125
Cadmium	0.17	J	39.7	43.9		mg/Kg		110	75 - 125
Chromium	37	B F1	39.7	85.7		mg/Kg		123	75 - 125
Cobalt	11		39.7	55.1		mg/Kg		112	75 - 125
Copper	45	F1	39.7	87.6		mg/Kg		108	75 - 125
Lead	16		39.7	60.8		mg/Kg		114	75 - 125
Molybdenum	ND		39.7	39.7		mg/Kg		100	75 - 125
Nickel	32	B F1	39.7	79.9		mg/Kg		121	75 - 125
Selenium	0.62	J	39.7	41.6		mg/Kg		103	75 - 125
Silver	ND		19.8	21.5		mg/Kg		108	75 - 125
Thallium	ND		39.7	39.8		mg/Kg		100	75 - 125
Vanadium	40	F1	39.7	93.1	F1	mg/Kg		133	75 - 125
Zinc	110	F1	39.7	166	F1	mg/Kg		145	75 - 125

Lab Sample ID: 720-91011-21 MSD
Matrix: Solid
Analysis Batch: 259871

Client Sample ID: DG-AD17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.7	F1	39.1	13.6	F1	mg/Kg		31	75 - 125	4	20
Arsenic	9.2		39.1	55.2		mg/Kg		118	75 - 125	9	20
Barium	98	F1	39.1	184	F1	mg/Kg		219	75 - 125	15	20
Beryllium	0.59		39.1	48.3		mg/Kg		122	75 - 125	9	20
Cadmium	0.17	J	39.1	47.3		mg/Kg		121	75 - 125	7	20
Chromium	37	B F1	39.1	94.8	F1	mg/Kg		148	75 - 125	10	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91011-21 MSD
Matrix: Solid
Analysis Batch: 259871

Client Sample ID: DG-AD17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	11		39.1	57.9		mg/Kg		121	75 - 125	5	20
Copper	45	F1	39.1	105	F1	mg/Kg		154	75 - 125	18	20
Lead	16		39.1	63.6		mg/Kg		123	75 - 125	5	20
Molybdenum	ND		39.1	42.4		mg/Kg		109	75 - 125	7	20
Nickel	32	B F1	39.1	84.1	F1	mg/Kg		133	75 - 125	5	20
Selenium	0.62	J	39.1	45.0		mg/Kg		114	75 - 125	8	20
Silver	ND		19.5	23.4		mg/Kg		120	75 - 125	9	20
Thallium	ND		39.1	42.8		mg/Kg		109	75 - 125	7	20
Vanadium	40	F1	39.1	102	F1	mg/Kg		158	75 - 125	9	20
Zinc	110	F1	39.1	182	F1	mg/Kg		188	75 - 125	9	20

Lab Sample ID: MB 720-259288/1-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 16:46	1
Arsenic	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 16:46	1
Barium	2.23	J	50	1.6	ug/L		01/26/19 10:40	01/29/19 16:46	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 16:46	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 16:46	1
Chromium	ND		10	0.70	ug/L		01/26/19 10:40	01/29/19 16:46	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 16:46	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 16:46	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 16:46	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 16:46	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 16:46	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 16:46	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 16:46	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 16:46	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 16:46	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 16:46	1

Lab Sample ID: LCS 720-259288/2-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	936		ug/L		94	80 - 120
Arsenic	1000	933		ug/L		93	80 - 120
Barium	1000	937		ug/L		94	80 - 120
Beryllium	1000	943		ug/L		94	80 - 120
Cadmium	1000	947		ug/L		95	80 - 120
Chromium	1000	933		ug/L		93	80 - 120
Cobalt	1000	950		ug/L		95	80 - 120
Copper	1000	946		ug/L		95	80 - 120
Lead	1000	957		ug/L		96	80 - 120
Molybdenum	1000	941		ug/L		94	80 - 120
Nickel	1000	943		ug/L		94	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259288/2-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1000	942		ug/L		94	80 - 120
Silver	500	470		ug/L		94	80 - 120
Thallium	1000	818		ug/L		82	80 - 120
Vanadium	1000	941		ug/L		94	80 - 120
Zinc	1000	942		ug/L		94	80 - 120

Lab Sample ID: 720-90947-I-1-A MS
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	917		ug/L		92	75 - 125
Arsenic	ND		1000	931		ug/L		93	75 - 125
Barium	140	B	1000	1070		ug/L		94	75 - 125
Beryllium	ND		1000	968		ug/L		97	75 - 125
Cadmium	0.74	J	1000	896		ug/L		90	75 - 125
Chromium	1.5	J	1000	887		ug/L		89	75 - 125
Cobalt	3.8		1000	889		ug/L		89	75 - 125
Copper	17	J	1000	906		ug/L		89	75 - 125
Lead	ND		1000	876		ug/L		88	75 - 125
Molybdenum	3.8	J	1000	925		ug/L		92	75 - 125
Nickel	4.0	J	1000	874		ug/L		87	75 - 125
Selenium	ND		1000	908		ug/L		91	75 - 125
Silver	ND		500	450		ug/L		90	75 - 125
Thallium	14		1000	820		ug/L		81	75 - 125
Vanadium	ND		1000	923		ug/L		92	75 - 125
Zinc	78		1000	967		ug/L		89	75 - 125

Lab Sample ID: 720-90947-I-1-B MSD
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	944		ug/L		94	75 - 125	3	20
Arsenic	ND		1000	960		ug/L		96	75 - 125	3	20
Barium	140	B	1000	1100		ug/L		96	75 - 125	2	20
Beryllium	ND		1000	990		ug/L		99	75 - 125	2	20
Cadmium	0.74	J	1000	924		ug/L		92	75 - 125	3	20
Chromium	1.5	J	1000	909		ug/L		91	75 - 125	2	20
Cobalt	3.8		1000	916		ug/L		91	75 - 125	3	20
Copper	17	J	1000	929		ug/L		91	75 - 125	3	20
Lead	ND		1000	904		ug/L		90	75 - 125	3	20
Molybdenum	3.8	J	1000	954		ug/L		95	75 - 125	3	20
Nickel	4.0	J	1000	900		ug/L		90	75 - 125	3	20
Selenium	ND		1000	950		ug/L		95	75 - 125	4	20
Silver	ND		500	462		ug/L		92	75 - 125	3	20
Thallium	14		1000	894		ug/L		88	75 - 125	9	20
Vanadium	ND		1000	945		ug/L		95	75 - 125	2	20
Zinc	78		1000	997		ug/L		92	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259338/1-A
Matrix: Water
Analysis Batch: 259401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 11:34	1

Lab Sample ID: LCS 720-259338/2-A
Matrix: Water
Analysis Batch: 259401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.38		ug/L		94	85 - 115

Lab Sample ID: 720-90978-I-1-B MS
Matrix: Water
Analysis Batch: 259401

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259338

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	10.7		ug/L		107	75 - 125

Lab Sample ID: 720-90978-I-1-C MSD
Matrix: Water
Analysis Batch: 259401

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259338

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	10.8		ug/L		108	75 - 125	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259576/1-A
Matrix: Solid
Analysis Batch: 259669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/31/19 20:20	02/01/19 12:20	1

Lab Sample ID: LCS 720-259576/2-A
Matrix: Solid
Analysis Batch: 259669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.802		mg/Kg		96	80 - 120

Lab Sample ID: 720-91011-8 MS
Matrix: Solid
Analysis Batch: 259669

Client Sample ID: DG-AI15S-0.5-1
Prep Type: Total/NA
Prep Batch: 259576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.030		0.781	0.804		mg/Kg		99	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91011-8 MSD — **Client Sample ID: DG-AI15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259669 — **Prep Batch: 259576**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.030		0.769	0.769		mg/Kg		96	75 - 125	4	20

Lab Sample ID: MB 720-259580/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259898 — **Prep Batch: 259580**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00268	J	0.017	0.0025	mg/Kg		02/05/19 16:16	02/05/19 18:45	1

Lab Sample ID: LCS 720-259580/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259898 — **Prep Batch: 259580**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.830		mg/Kg		100	80 - 120

Lab Sample ID: 720-91011-21 MS — **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259898 — **Prep Batch: 259580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.15	B	0.704	0.883		mg/Kg		105	75 - 125

Lab Sample ID: 720-91011-21 MSD — **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259898 — **Prep Batch: 259580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.15	B	0.694	0.807		mg/Kg		95	75 - 125	9	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-259191/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/24/19 21:06	1

Lab Sample ID: LCS 720-259191/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	250	255		ug/L		102	90 - 110

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSD 720-259191/11 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259191

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	255		ug/L		102	90 - 110	0	20

Lab Sample ID: 720-91011-1 MS — **Client Sample ID: DG-AW11W**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		250	220		ug/L		88	85 - 115

Lab Sample ID: 720-91011-1 MSD — **Client Sample ID: DG-AW11W**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259191

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	219		ug/L		88	85 - 115	0	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91011-21 DU — **Client Sample ID: DG-AD17S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526217

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	22.2			23.1		%				4	20

Lab Sample ID: 440-231825-B-8 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526433

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	80.3			80.4		%				0.2	20

Lab Sample ID: 440-231762-B-23 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526930

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16.7			15.4		%				8	20

Lab Sample ID: 720-91105-E-9 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527220

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.8			13.1		%				3	20

GC/MS VOA

Prep Batch: 525455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	5035	
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	5035	
720-91011-22 - RA	DG-AB17S-0.5-1	Total/NA	Solid	5035	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	5035	
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	5035	
720-91011-D-21-B MS	720-91011-D-21-B MS	Total/NA	Solid	5035	
720-91011-D-21-C MSD	720-91011-D-21-C MSD	Total/NA	Solid	5035	

Analysis Batch: 525787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	8260B	525870
MB 440-525787/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-525787/5	Lab Control Sample	Total/NA	Solid	8260B	
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	8260B	525870
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	8260B	525870

Analysis Batch: 525788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525870
MB 440-525788/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525788/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525870
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525870

Prep Batch: 525870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	5035	
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	5035	
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	5035	
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	5035	
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	5035	
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	5035	
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 525938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	8260B	525966
720-91011-10	DUP-112	Total/NA	Solid	8260B	525966
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	8260B	525966
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	8260B	525966
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	8260B	525966
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	8260B	525966
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	8260B	525966
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	8260B	525966
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	8260B	525966
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	8260B	525966
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	8260B	525966

GC/MS VOA (Continued)

Analysis Batch: 525938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-525938/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-525938/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-525938/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 525939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-10	DUP-112	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	8260B/CA_LUFT MS	525966
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525966
MB 440-525939/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-525939/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-525939/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 525966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	5035	
720-91011-10	DUP-112	Total/NA	Solid	5035	
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	5035	
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	5035	
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	5035	
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	5035	
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	5035	
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	5035	
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	5035	
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	5035	
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 526002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	8260B	525870
720-91011-20	DUP-125	Total/NA	Solid	8260B	526096
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	8260B	525870
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	8260B	525870

GC/MS VOA (Continued)

Analysis Batch: 526002 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	8260B	525870
MB 440-526002/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526002/5	Lab Control Sample	Total/NA	Solid	8260B	
720-91048-A-16-A MS	Matrix Spike	Total/NA	Solid	8260B	526116
720-91048-A-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	526116

Analysis Batch: 526003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	8260B/CA_LUFT MS	525870
720-91011-20	DUP-125	Total/NA	Solid	8260B/CA_LUFT MS	526096
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525870
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525870
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	8260B/CA_LUFT MS	525870
MB 440-526003/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526003/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-91048-A-16-A MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-A-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	526116

Analysis Batch: 526004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	8260B	525455
MB 440-526004/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526004/11	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526004/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	8260B	525455
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	8260B	525455

Prep Batch: 526096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-20	DUP-125	Total/NA	Solid	5035	

Prep Batch: 526116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-A-16-A MS	Matrix Spike	Total/NA	Solid	5035	
720-91048-A-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 526188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Total/NA	Water	8260B	
720-91011-2	DG-AM15W	Total/NA	Water	8260B	
720-91011-3	DG-AK15W	Total/NA	Water	8260B	
720-91011-4	DG-AG15W	Total/NA	Water	8260B	
720-91011-5	TB-W-1.24.2019	Total/NA	Water	8260B	
720-91011-6	FB-1.24.2019	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 526188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-7	DUP-76	Total/NA	Water	8260B	
MB 440-526188/4	Method Blank	Total/NA	Water	8260B	
LCS 440-526188/5	Lab Control Sample	Total/NA	Water	8260B	
720-90959-C-1 MS	Matrix Spike	Total/NA	Water	8260B	
720-90959-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 526189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-2	DG-AM15W	Total/NA	Water	8260B/CA_LUFT MS	
720-91011-3	DG-AK15W	Total/NA	Water	8260B/CA_LUFT MS	
720-91011-4	DG-AG15W	Total/NA	Water	8260B/CA_LUFT MS	
720-91011-5	TB-W-1.24.2019	Total/NA	Water	8260B/CA_LUFT MS	
720-91011-6	FB-1.24.2019	Total/NA	Water	8260B/CA_LUFT MS	
720-91011-7	DUP-76	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-526189/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-526189/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-90959-C-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
720-90959-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 526488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-526488/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-526488/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-231832-C-2 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-231832-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 526745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	8260B	525455
MB 440-526745/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526745/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526745/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
720-91011-D-21-B MS	720-91011-D-21-B MS	Total/NA	Solid	8260B	525455
720-91011-D-21-C MSD	720-91011-D-21-C MSD	Total/NA	Solid	8260B	525455

Analysis Batch: 526746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525455

GC/MS VOA (Continued)

Analysis Batch: 526746 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525455
MB 440-526746/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526746/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-526746/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525455
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	525455

Analysis Batch: 526988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-22 - RA	DG-AB17S-0.5-1	Total/NA	Solid	8260B	525455
MB 440-526988/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-526988/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526988/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 525490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	3546	
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	3546	
720-91011-10	DUP-112	Total/NA	Solid	3546	
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	3546	
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	3546	
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	3546	
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	3546	
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	3546	
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	3546	
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	3546	
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	3546	
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	3546	
720-91011-20	DUP-125	Total/NA	Solid	3546	
720-91011-21 - RA	DG-AD17S-3.5-4	Total/NA	Solid	3546	
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	3546	
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	3546	
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	3546	
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	3546	
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	3546	
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	3546	
MB 440-525490/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525490/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	3546	
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	3546	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	3546	
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	3546	

GC/MS Semi VOA

Prep Batch: 525569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Total/NA	Water	3520C	
720-91011-2	DG-AM15W	Total/NA	Water	3520C	
720-91011-3	DG-AK15W	Total/NA	Water	3520C	
720-91011-4	DG-AG15W	Total/NA	Water	3520C	
720-91011-7	DUP-76	Total/NA	Water	3520C	
MB 440-525569/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-525569/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-525569/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 525589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-10	DUP-112	Total/NA	Solid	8270C SIM	525490
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	8270C SIM	525490
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	8270C SIM	525490
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	8270C SIM	525490
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	8270C SIM	525490
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	8270C SIM	525490
MB 440-525490/1-A	Method Blank	Total/NA	Solid	8270C SIM	525490
LCS 440-525490/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	525490

Analysis Batch: 525768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-525569/1-A	Method Blank	Total/NA	Water	8270C SIM	525569
LCS 440-525569/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	525569
LCSD 440-525569/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	525569

Analysis Batch: 526137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Total/NA	Water	8270C SIM	525569
720-91011-2	DG-AM15W	Total/NA	Water	8270C SIM	525569
720-91011-3	DG-AK15W	Total/NA	Water	8270C SIM	525569
720-91011-4	DG-AG15W	Total/NA	Water	8270C SIM	525569
720-91011-7	DUP-76	Total/NA	Water	8270C SIM	525569

Analysis Batch: 526356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	8270C SIM	525490
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	8270C SIM	525490
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	8270C SIM	525490
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	8270C SIM	525490
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	8270C SIM	525490
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	8270C SIM	525490
720-91011-20	DUP-125	Total/NA	Solid	8270C SIM	525490
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	8270C SIM	525490
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	8270C SIM	525490
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	8270C SIM	525490
MB 440-525490/1-A	Method Blank	Total/NA	Solid	8270C SIM	525490
LCS 440-525490/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	525490
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	8270C SIM	525490
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	8270C SIM	525490

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

GC/MS Semi VOA

Analysis Batch: 526670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	8270C SIM	525490
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	8270C SIM	525490

Analysis Batch: 526850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21 - RA	DG-AD17S-3.5-4	Total/NA	Solid	8270C SIM	525490
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	8270C SIM	525490

Analysis Batch: 527041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	8270C SIM	525490
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	8270C SIM	525490

GC Semi VOA

Analysis Batch: 525278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Total/NA	Water	8015B	525296
720-91011-2	DG-AM15W	Total/NA	Water	8015B	525296
720-91011-3	DG-AK15W	Total/NA	Water	8015B	525296
720-91011-4	DG-AG15W	Total/NA	Water	8015B	525296
720-91011-7	DUP-76	Total/NA	Water	8015B	525296
MB 440-525296/1-A	Method Blank	Total/NA	Water	8015B	525296
LCS 440-525296/2-A	Lab Control Sample	Total/NA	Water	8015B	525296
LCSD 440-525296/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	525296

Prep Batch: 525292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	3546	
720-91011-10	DUP-112	Total/NA	Solid	3546	
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	3546	
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	3546	
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	3546	
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	3546	
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	3546	
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	3546	
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	3546	
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	3546	
MB 440-525292/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525292/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	3546	
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 525296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Total/NA	Water	3510C	
720-91011-2	DG-AM15W	Total/NA	Water	3510C	
720-91011-3	DG-AK15W	Total/NA	Water	3510C	
720-91011-4	DG-AG15W	Total/NA	Water	3510C	
720-91011-7	DUP-76	Total/NA	Water	3510C	
MB 440-525296/1-A	Method Blank	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 525296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-525296/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-525296/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 525476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	3546	
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	3546	
720-91011-10	DUP-112	Total/NA	Solid	3546	
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	3546	
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	3546	
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	3546	
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	3546	
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	3546	
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	3546	
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	3546	
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	3546	
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	3546	
720-91011-20	DUP-125	Total/NA	Solid	3546	
MB 440-525476/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525476/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 440-525476/5-A	Lab Control Sample	Total/NA	Solid	3546	
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	3546	
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	3546	
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	3546	
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 525503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-20	DUP-125	Total/NA	Solid	3546	
MB 440-525503/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525503/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-229282-A-1-A MS	Matrix Spike	Total/NA	Solid	3546	
440-229282-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 525506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	8015B	525292
720-91011-10	DUP-112	Total/NA	Solid	8015B	525292
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	8015B	525292
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	8015B	525292
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	8015B	525292
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	8015B	525292
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	8015B	525292
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	8015B	525292
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	8015B	525292
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	8015B	525292
MB 440-525292/1-A	Method Blank	Total/NA	Solid	8015B	525292
LCS 440-525292/2-A	Lab Control Sample	Total/NA	Solid	8015B	525292
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	8015B	525292
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	8015B	525292

GC Semi VOA

Prep Batch: 525719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	3546	
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	3546	
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	3546	
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	3546	
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	3546	
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	3546	
MB 440-525719/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525719/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	3546	
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 525821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-20	DUP-125	Total/NA	Solid	8015B	525503
MB 440-525503/1-A	Method Blank	Total/NA	Solid	8015B	525503
LCS 440-525503/2-A	Lab Control Sample	Total/NA	Solid	8015B	525503
440-229282-A-1-A MS	Matrix Spike	Total/NA	Solid	8015B	525503
440-229282-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	525503

Analysis Batch: 525828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	8081A	525476
720-91011-10	DUP-112	Total/NA	Solid	8081A	525476
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	8081A	525476
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	8081A	525476
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	8081A	525476
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	8081A	525476
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	8081A	525476
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	8081A	525476
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	8081A	525476

Analysis Batch: 525830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	8082	525476
720-91011-10	DUP-112	Total/NA	Solid	8082	525476
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	8082	525476
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	8082	525476
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	8082	525476
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	8082	525476
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	8082	525476
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	8082	525476
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	8082	525476
MB 440-525476/1-A	Method Blank	Total/NA	Solid	8082	525476
LCS 440-525476/5-A	Lab Control Sample	Total/NA	Solid	8082	525476

Analysis Batch: 525834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	8015B	525719
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	8015B	525719
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	8015B	525719
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	8015B	525719

GC Semi VOA (Continued)

Analysis Batch: 525834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	8015B	525719
MB 440-525719/1-A	Method Blank	Total/NA	Solid	8015B	525719
LCS 440-525719/2-A	Lab Control Sample	Total/NA	Solid	8015B	525719
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	8015B	525719
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	8015B	525719

Prep Batch: 525871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	3546	
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	3546	
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	3546	
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	3546	
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	3546	
MB 440-525871/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525871/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 440-525871/5-A	Lab Control Sample	Total/NA	Solid	3546	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	3546	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	3546	
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	3546	
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 525988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	3546	
MB 440-525988/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-525988/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-231839-A-1-A MS	Matrix Spike	Total/NA	Solid	3546	
440-231839-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 526033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	8015B	525719

Analysis Batch: 526074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	8081A	525476
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	8081A	525476
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	8081A	525476
720-91011-20	DUP-125	Total/NA	Solid	8081A	525476
MB 440-525476/1-A	Method Blank	Total/NA	Solid	8081A	525476
LCS 440-525476/2-A	Lab Control Sample	Total/NA	Solid	8081A	525476
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	8081A	525476
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	8081A	525476

Analysis Batch: 526094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	8082	525871
MB 440-525871/1-A	Method Blank	Total/NA	Solid	8082	525871
LCS 440-525871/5-A	Lab Control Sample	Total/NA	Solid	8082	525871

GC Semi VOA

Analysis Batch: 526128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	8082	525476
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	8082	525476
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	8082	525476
720-91011-20	DUP-125	Total/NA	Solid	8082	525476
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	8082	525476
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	8082	525476

Prep Batch: 526140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	3546	
MB 440-526140/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526140/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-F-19-B MS	Matrix Spike	Total/NA	Solid	3546	
720-91048-F-19-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 526180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	8081A	525871
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	8081A	525988
MB 440-525871/1-A	Method Blank	Total/NA	Solid	8081A	525871
MB 440-525988/1-A	Method Blank	Total/NA	Solid	8081A	525988
LCS 440-525988/2-A	Lab Control Sample	Total/NA	Solid	8081A	525988
440-231839-A-1-A MS	Matrix Spike	Total/NA	Solid	8081A	525988
440-231839-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	525988

Analysis Batch: 526266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	8015B	526368
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	8015B	526368
MB 440-526368/1-A	Method Blank	Total/NA	Solid	8015B	526368
LCS 440-526368/2-A	Lab Control Sample	Total/NA	Solid	8015B	526368

Analysis Batch: 526355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	8082	525871
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	8082	525871
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	8082	526140
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	8082	525871
MB 440-526140/1-A	Method Blank	Total/NA	Solid	8082	526140
LCS 440-526140/2-A	Lab Control Sample	Total/NA	Solid	8082	526140
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	8082	525871
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	8082	525871
720-91048-F-19-B MS	Matrix Spike	Total/NA	Solid	8082	526140
720-91048-F-19-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	526140

Analysis Batch: 526363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	8081A	525871
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	8081A	525871
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	8081A	525871
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	8081A	525871

GC Semi VOA (Continued)

Analysis Batch: 526363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	8081A	525871
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	8081A	525871

Prep Batch: 526368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	3546	
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	3546	
MB 440-526368/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526368/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-231937-A-3-A MS	Matrix Spike	Total/NA	Solid	3546	
440-231937-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 526621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	8082	525871

Analysis Batch: 526644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-231937-A-3-A MS	Matrix Spike	Total/NA	Solid	8015B	526368
440-231937-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	526368

Analysis Batch: 526648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-525871/2-A	Lab Control Sample	Total/NA	Solid	8081A	525871

Metals

Prep Batch: 259288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Dissolved	Water	3005A	
720-91011-2	DG-AM15W	Dissolved	Water	3005A	
720-91011-3	DG-AK15W	Dissolved	Water	3005A	
720-91011-4	DG-AG15W	Dissolved	Water	3005A	
720-91011-7	DUP-76	Dissolved	Water	3005A	
MB 720-259288/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-259288/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90947-I-1-A MS	Matrix Spike	Dissolved	Water	3005A	
720-90947-I-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 259338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Dissolved	Water	7470A	
720-91011-2	DG-AM15W	Dissolved	Water	7470A	
720-91011-3	DG-AK15W	Dissolved	Water	7470A	
720-91011-4	DG-AG15W	Dissolved	Water	7470A	
720-91011-7	DUP-76	Dissolved	Water	7470A	
MB 720-259338/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259338/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90978-I-1-B MS	Matrix Spike	Total/NA	Water	7470A	
720-90978-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Metals

Analysis Batch: 259401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Dissolved	Water	7470A	259338
720-91011-2	DG-AM15W	Dissolved	Water	7470A	259338
720-91011-3	DG-AK15W	Dissolved	Water	7470A	259338
720-91011-4	DG-AG15W	Dissolved	Water	7470A	259338
720-91011-7	DUP-76	Dissolved	Water	7470A	259338
MB 720-259338/1-A	Method Blank	Total/NA	Water	7470A	259338
LCS 720-259338/2-A	Lab Control Sample	Total/NA	Water	7470A	259338
720-90978-I-1-B MS	Matrix Spike	Total/NA	Water	7470A	259338
720-90978-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	259338

Analysis Batch: 259445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Dissolved	Water	6010B	259288
720-91011-2	DG-AM15W	Dissolved	Water	6010B	259288
720-91011-3	DG-AK15W	Dissolved	Water	6010B	259288
720-91011-4	DG-AG15W	Dissolved	Water	6010B	259288
720-91011-7	DUP-76	Dissolved	Water	6010B	259288
MB 720-259288/1-A	Method Blank	Total Recoverable	Water	6010B	259288
LCS 720-259288/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259288
720-90947-I-1-A MS	Matrix Spike	Dissolved	Water	6010B	259288
720-90947-I-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	259288

Analysis Batch: 259497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-4	DG-AG15W	Dissolved	Water	6010B	259288

Prep Batch: 259575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	3050B	
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	3050B	
720-91011-10	DUP-112	Total/NA	Solid	3050B	
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	3050B	
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	3050B	
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	3050B	
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	3050B	
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	3050B	
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	3050B	
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	3050B	
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	3050B	
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	3050B	
720-91011-20	DUP-125	Total/NA	Solid	3050B	
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	3050B	
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	3050B	
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	3050B	
MB 720-259575/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259575/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	3050B	
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	3050B	

Metals

Prep Batch: 259576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	7471A	
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	7471A	
720-91011-10	DUP-112	Total/NA	Solid	7471A	
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	7471A	
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	7471A	
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	7471A	
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	7471A	
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	7471A	
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	7471A	
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	7471A	
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	7471A	
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	7471A	
720-91011-20	DUP-125	Total/NA	Solid	7471A	
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	7471A	
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	7471A	
MB 720-259576/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259576/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	7471A	
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	7471A	
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	7471A	
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	7471A	
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	7471A	
MB 720-259580/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259580/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	7471A	
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 259601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	3050B	
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	3050B	
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	3050B	
MB 720-259601/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259601/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	3050B	
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	3050B	

Analysis Batch: 259669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	7471A	259576
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	7471A	259576
720-91011-10	DUP-112	Total/NA	Solid	7471A	259576
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	7471A	259576
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	7471A	259576
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	7471A	259576
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	7471A	259576
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	7471A	259576

Metals (Continued)

Analysis Batch: 259669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	7471A	259576
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	7471A	259576
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	7471A	259576
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	7471A	259576
720-91011-20	DUP-125	Total/NA	Solid	7471A	259576
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	7471A	259576
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	7471A	259576
MB 720-259576/1-A	Method Blank	Total/NA	Solid	7471A	259576
LCS 720-259576/2-A	Lab Control Sample	Total/NA	Solid	7471A	259576
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	7471A	259576
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	7471A	259576

Analysis Batch: 259788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	6010B	259575
720-91011-10	DUP-112	Total/NA	Solid	6010B	259575
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	6010B	259575
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	6010B	259575
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	6010B	259575
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	6010B	259575
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	6010B	259575
720-91011-20	DUP-125	Total/NA	Solid	6010B	259575
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	6010B	259575
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	6010B	259575
MB 720-259575/1-A	Method Blank	Total/NA	Solid	6010B	259575
LCS 720-259575/2-A	Lab Control Sample	Total/NA	Solid	6010B	259575
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	6010B	259575

Analysis Batch: 259871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	6010B	259601
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	6010B	259601
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	6010B	259601
MB 720-259601/1-A	Method Blank	Total/NA	Solid	6010B	259601
LCS 720-259601/2-A	Lab Control Sample	Total/NA	Solid	6010B	259601
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	6010B	259601
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	6010B	259601

Analysis Batch: 259898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	7471A	259580
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	7471A	259580
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	7471A	259580
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	7471A	259580

Metals (Continued)

Analysis Batch: 259898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259580/1-A	Method Blank	Total/NA	Solid	7471A	259580
LCS 720-259580/2-A	Lab Control Sample	Total/NA	Solid	7471A	259580
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	7471A	259580
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	7471A	259580

Analysis Batch: 259991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-7	DUP-76	Dissolved	Water	6010B	259288

Analysis Batch: 262159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	6010B	259575
720-91011-10	DUP-112	Total/NA	Solid	6010B	259575
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	6010B	259575
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	6010B	259575
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	6010B	259575
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	6010B	259575
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	6010B	259575
720-91011-20	DUP-125	Total/NA	Solid	6010B	259575
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	6010B	259575
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	6010B	259575
MB 720-259575/1-A	Method Blank	Total/NA	Solid	6010B	259575
LCS 720-259575/2-A	Lab Control Sample	Total/NA	Solid	6010B	259575
720-91011-8 MS	DG-AI15S-0.5-1	Total/NA	Solid	6010B	259575
720-91011-8 MSD	DG-AI15S-0.5-1	Total/NA	Solid	6010B	259575

General Chemistry

Analysis Batch: 259191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-1	DG-AW11W	Total/NA	Water	7196A	
720-91011-2	DG-AM15W	Total/NA	Water	7196A	
720-91011-3	DG-AK15W	Total/NA	Water	7196A	
720-91011-4	DG-AG15W	Total/NA	Water	7196A	
720-91011-7	DUP-76	Total/NA	Water	7196A	
MB 720-259191/9	Method Blank	Total/NA	Water	7196A	
LCS 720-259191/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-259191/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-91011-1 MS	DG-AW11W	Total/NA	Water	7196A	
720-91011-1 MSD	DG-AW11W	Total/NA	Water	7196A	

Analysis Batch: 526217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-19	DG-AD17S-7-7.5	Total/NA	Solid	Moisture	
720-91011-20	DUP-125	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 526217 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-21	DG-AD17S-3.5-4	Total/NA	Solid	Moisture	
720-91011-24	DG-AA19S-0.5-1	Total/NA	Solid	Moisture	
720-91011-25	DG-AA19S-3.5-4	Total/NA	Solid	Moisture	
720-91011-26	DG-AA19S-8.5-9	Total/NA	Solid	Moisture	
720-91011-21 MS	DG-AD17S-3.5-4	Total/NA	Solid	Moisture	
720-91011-21 MSD	DG-AD17S-3.5-4	Total/NA	Solid	Moisture	
720-91011-21 DU	DG-AD17S-3.5-4	Total/NA	Solid	Moisture	

Analysis Batch: 526433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-8	DG-AI15S-0.5-1	Total/NA	Solid	Moisture	
720-91011-22	DG-AB17S-0.5-1	Total/NA	Solid	Moisture	
720-91011-23	DG-AB17S-3.5-4	Total/NA	Solid	Moisture	
440-231825-B-8 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 526930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-9	DG-AI15S-3.5-4	Total/NA	Solid	Moisture	
720-91011-10	DUP-112	Total/NA	Solid	Moisture	
720-91011-11	DG-AJ17S-0.5-1	Total/NA	Solid	Moisture	
720-91011-13	DG-AJ17S-9.5-10	Total/NA	Solid	Moisture	
720-91011-14	DG-AH17S-0.5-1	Total/NA	Solid	Moisture	
720-91011-15	DG-AG15S-0.5-1	Total/NA	Solid	Moisture	
720-91011-16	DG-AG15S-3.5-4	Total/NA	Solid	Moisture	
720-91011-17	DG-AG15S-8.5-9	Total/NA	Solid	Moisture	
720-91011-18	DG-AD17S-0.5-1	Total/NA	Solid	Moisture	
440-231762-B-23 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 527220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-12	DG-AJ17S-3.5-4	Total/NA	Solid	Moisture	
720-91105-E-9 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AW11W

Lab Sample ID: 720-91011-1

Date Collected: 01/24/19 09:00

Matrix: Water

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	01/31/19 23:14	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526488	02/03/19 14:15	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526488	02/03/19 14:15	JB	TAL IRV
Total/NA	Prep	3520C			525569	01/29/19 11:21	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526137	01/31/19 21:51	L1B	TAL IRV
Total/NA	Prep	3510C			525296	01/28/19 09:49	HCK	TAL IRV
Total/NA	Analysis	8015B		1	525278	01/28/19 21:54	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 17:54	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:02	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259191	01/24/19 21:06	ECB	TAL PLS

Client Sample ID: DG-AM15W

Lab Sample ID: 720-91011-2

Date Collected: 01/24/19 10:20

Matrix: Water

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	01/31/19 23:39	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	01/31/19 23:39	OH1	TAL IRV
Total/NA	Prep	3520C			525569	01/29/19 11:21	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526137	01/31/19 22:17	L1B	TAL IRV
Total/NA	Prep	3510C			525296	01/28/19 09:49	HCK	TAL IRV
Total/NA	Analysis	8015B		1	525278	01/29/19 00:24	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 17:59	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 11:55	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259191	01/24/19 21:06	ECB	TAL PLS

Client Sample ID: DG-AK15W

Lab Sample ID: 720-91011-3

Date Collected: 01/24/19 11:10

Matrix: Water

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	02/01/19 00:04	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	02/01/19 00:04	OH1	TAL IRV
Total/NA	Prep	3520C			525569	01/29/19 11:21	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		250	526137	01/31/19 22:43	L1B	TAL IRV
Total/NA	Prep	3510C			525296	01/28/19 09:49	HCK	TAL IRV
Total/NA	Analysis	8015B		1	525278	01/28/19 23:42	MPD	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AK15W
Date Collected: 01/24/19 11:10
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:04	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:05	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259191	01/24/19 21:06	ECB	TAL PLS

Client Sample ID: DG-AG15W
Date Collected: 01/24/19 11:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	02/01/19 00:30	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	02/01/19 00:30	OH1	TAL IRV
Total/NA	Prep	3520C			525569	01/29/19 11:21	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		25	526137	01/31/19 23:09	L1B	TAL IRV
Total/NA	Prep	3510C			525296	01/28/19 09:49	HCK	TAL IRV
Total/NA	Analysis	8015B		1	525278	01/28/19 22:37	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:09	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 12:54	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:07	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259191	01/24/19 21:06	ECB	TAL PLS

Client Sample ID: TB-W-1.24.2019
Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	02/01/19 00:55	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	02/01/19 00:55	OH1	TAL IRV

Client Sample ID: FB-1.24.2019
Date Collected: 01/24/19 12:05
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	02/01/19 01:20	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	02/01/19 01:20	OH1	TAL IRV

Client Sample ID: DUP-76

Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526188	02/01/19 01:46	OH1	TAL IRV
Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	02/01/19 01:46	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526189	02/01/19 01:46	OH1	TAL IRV
Total/NA	Prep	3520C			525569	01/29/19 11:21	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526137	01/31/19 23:34	L1B	TAL IRV
Total/NA	Prep	3510C			525296	01/28/19 09:49	HCK	TAL IRV
Total/NA	Analysis	8015B		1	525278	01/28/19 22:59	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:14	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259991	02/07/19 16:14	MAG	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:18	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259191	01/24/19 21:06	ECB	TAL PLS

Client Sample ID: DG-AI15S-0.5-1

Date Collected: 01/24/19 08:30
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	525787	01/30/19 15:26	AYL	TAL IRV
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525788	01/30/19 15:26	AYL	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		10	526356	02/01/19 19:44	L1B	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 13:35	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	526074	01/31/19 18:46	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 17:14	JM	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:11	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 17:57	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 12:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Client Sample ID: DG-AI15S-3.5-4

Lab Sample ID: 720-91011-9

Date Collected: 01/24/19 08:30

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 02:08	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 02:08	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	526356	02/01/19 20:07	L1B	TAL IRV
Total/NA	Prep	3546			526368	02/01/19 13:30	EGC	TAL IRV
Total/NA	Analysis	8015B		1	526266	02/02/19 08:44	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 15:10	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 15:34	D1D	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:16	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:12	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 12:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Client Sample ID: DUP-112

Lab Sample ID: 720-91011-10

Date Collected: 01/24/19 08:30

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 02:33	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 02:33	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	525589	01/29/19 16:30	HN	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 15:44	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 15:25	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 15:47	D1D	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:20	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:17	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 12:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AJ17S-0.5-1

Lab Sample ID: 720-91011-11

Date Collected: 01/24/19 09:40

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 02:58	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 02:58	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	525589	01/29/19 16:55	HN	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 16:05	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 15:40	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 16:01	D1D	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:25	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:21	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 12:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Client Sample ID: DG-AJ17S-3.5-4

Lab Sample ID: 720-91011-12

Date Collected: 01/24/19 09:40

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 03:22	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 03:22	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	525589	01/29/19 17:19	HN	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 18:57	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 15:55	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 16:14	D1D	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:30	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:26	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 12:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AJ17S-9.5-10

Lab Sample ID: 720-91011-13

Date Collected: 01/24/19 09:40

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 03:47	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 03:47	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	525589	01/29/19 17:43	HN	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 19:18	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 16:10	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 16:28	D1D	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:35	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:31	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 12:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Client Sample ID: DG-AH17S-0.5-1

Lab Sample ID: 720-91011-14

Date Collected: 01/24/19 10:40

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 04:12	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 04:12	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	525589	01/29/19 18:08	HN	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 16:27	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 16:26	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 16:41	D1D	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:39	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:36	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 12:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Client Sample ID: DG-AG15S-0.5-1

Lab Sample ID: 720-91011-15

Date Collected: 01/24/19 11:15

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 04:36	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 04:36	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		2	526356	02/01/19 20:30	L1B	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 16:48	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 19:26	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 16:55	D1D	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:44	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:41	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 13:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Client Sample ID: DG-AG15S-3.5-4

Lab Sample ID: 720-91011-16

Date Collected: 01/24/19 11:15

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 05:01	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 05:01	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		5	526356	02/01/19 20:53	L1B	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 17:31	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 16:56	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 17:09	D1D	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:49	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:45	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 13:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Client Sample ID: DG-AG15S-8.5-9

Lab Sample ID: 720-91011-17

Date Collected: 01/24/19 11:15

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 09:49	AYL	TAL IRV
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 09:49	AYL	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		4	526356	02/01/19 21:16	L1B	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 17:52	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	526074	01/31/19 19:15	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 17:42	JM	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 17:54	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:50	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 13:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Client Sample ID: DG-AD17S-0.5-1

Lab Sample ID: 720-91011-18

Date Collected: 01/24/19 13:30

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 05:50	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 05:50	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		2	526356	02/01/19 21:39	L1B	TAL IRV
Total/NA	Prep	3546			525292	01/28/19 09:36	EGC	TAL IRV
Total/NA	Analysis	8015B		1	525506	01/29/19 17:09	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	525828	01/30/19 17:26	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	525830	01/30/19 17:36	D1D	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 18:08	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 18:55	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 13:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526930	02/05/19 17:56	QTN	TAL IRV

Client Sample ID: DG-AD17S-7-7.5

Lab Sample ID: 720-91011-19

Date Collected: 01/24/19 13:30

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 06:15	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 06:15	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	525589	01/29/19 20:10	HN	TAL IRV
Total/NA	Prep	3546			526368	02/01/19 14:10	EGC	TAL IRV
Total/NA	Analysis	8015B		1	526266	02/02/19 04:06	MPD	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	526074	01/31/19 19:30	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 17:55	JM	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 18:13	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 19:09	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 13:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Client Sample ID: DUP-125

Lab Sample ID: 720-91011-20

Date Collected: 01/24/19 00:00

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526096	01/24/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 11:30	AYL	TAL IRV
Total/NA	Prep	5035			526096	01/24/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 11:30	AYL	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		10	526356	02/01/19 22:02	L1B	TAL IRV
Total/NA	Prep	3546			525503	01/29/19 08:29	L1H	TAL IRV
Total/NA	Analysis	8015B		1	525821	01/31/19 00:17	LMB	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8081A		1	526074	01/31/19 19:44	D1D	TAL IRV
Total/NA	Prep	3546			525476	01/29/19 06:33	L1H	TAL IRV
Total/NA	Analysis	8082		1	526128	01/31/19 18:09	JM	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 18:18	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 19:14	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 13:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AD17S-3.5-4

Lab Sample ID: 720-91011-21

Date Collected: 01/24/19 13:30
Matrix: Solid
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525455	01/28/19 21:59	WC	TAL IRV
Total/NA	Analysis	8260B		200	526004	01/31/19 12:05	AYL	TAL IRV
Total/NA	Prep	5035			525455	01/28/19 21:59	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	526746	02/05/19 11:52	AYL	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		2	526356	02/01/19 18:35	L1B	TAL IRV
Total/NA	Prep	3546	RA		525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM	RA	2	526850	02/05/19 22:36	L1B	TAL IRV
Total/NA	Prep	3546			525719	01/30/19 05:52	L1A	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 17:14	MPD	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526363	02/01/19 17:35	D1D	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 23:14	JM	TAL IRV
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 19:44	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 18:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Client Sample ID: DG-AB17S-0.5-1

Lab Sample ID: 720-91011-22

Date Collected: 01/24/19 14:20
Matrix: Solid
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525455	01/28/19 21:59	WC	TAL IRV
Total/NA	Analysis	8260B		100	526745	02/05/19 14:04	AYL	TAL IRV
Total/NA	Prep	5035	RA		525455	01/28/19 21:59	WC	TAL IRV
Total/NA	Analysis	8260B	RA	100	526988	02/06/19 12:59	GMA	TAL IRV
Total/NA	Prep	5035			525455	01/28/19 21:59	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	526746	02/05/19 14:04	AYL	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		10	526356	02/01/19 22:25	L1B	TAL IRV
Total/NA	Prep	3546			525719	01/30/19 05:52	L1A	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 20:06	MPD	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526180	01/31/19 20:02	D1D	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8082		1	526094	01/31/19 20:48	JM	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 18:23	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 19:19	BKR	TAL PLS

Client Sample ID: DG-AB17S-0.5-1

Lab Sample ID: 720-91011-22

Date Collected: 01/24/19 14:20

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 13:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Client Sample ID: DG-AB17S-3.5-4

Lab Sample ID: 720-91011-23

Date Collected: 01/24/19 14:20

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B		1	525938	01/31/19 06:40	OH1	TAL IRV
Total/NA	Prep	5035			525966	01/24/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	525939	01/31/19 06:40	OH1	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		20	526356	02/01/19 22:48	L1B	TAL IRV
Total/NA	Prep	3546			525719	01/30/19 05:52	L1A	TAL IRV
Total/NA	Analysis	8015B		20	526033	01/31/19 20:45	LMB	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526363	02/01/19 18:04	D1D	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 23:27	JM	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 18:27	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 19:24	BKR	TAL PLS
Total/NA	Prep	7471A			259576	01/31/19 20:20	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259669	02/01/19 13:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526433	02/01/19 21:20	QTN	TAL IRV

Client Sample ID: DG-AA19S-0.5-1

Lab Sample ID: 720-91011-24

Date Collected: 01/24/19 15:00

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 10:13	AYL	TAL IRV
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 10:13	AYL	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		5	526850	02/05/19 22:13	L1B	TAL IRV
Total/NA	Prep	3546			525719	01/30/19 05:52	L1A	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 19:01	MPD	TAL IRV
Total/NA	Prep	3546			525988	01/31/19 06:13	L1A	TAL IRV
Total/NA	Analysis	8081A		1	526180	01/31/19 21:32	D1D	TAL IRV

Client Sample ID: DG-AA19S-0.5-1

Lab Sample ID: 720-91011-24

Date Collected: 01/24/19 15:00

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 21:39	JM	TAL IRV
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262159	03/16/19 18:32	BKR	TAL PLS
Total/NA	Prep	3050B			259575	02/01/19 08:26	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259788	02/04/19 19:28	BKR	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 18:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Client Sample ID: DG-AA19S-3.5-4

Lab Sample ID: 720-91011-25

Date Collected: 01/24/19 15:00

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 10:38	AYL	TAL IRV
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 10:38	AYL	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		8	526670	02/04/19 17:08	HN	TAL IRV
Total/NA	Prep	3546			525719	01/30/19 05:52	L1A	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 19:23	MPD	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526363	02/01/19 18:19	D1D	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 23:41	JM	TAL IRV
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 19:48	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 19:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Client Sample ID: DG-AA19S-8.5-9

Lab Sample ID: 720-91011-26

Date Collected: 01/24/19 15:00

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 11:03	AYL	TAL IRV
Total/NA	Prep	5035			525870	01/24/19 19:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 11:03	AYL	TAL IRV
Total/NA	Prep	3546			525490	01/29/19 07:40	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		2	526670	02/04/19 16:46	HN	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Client Sample ID: DG-AA19S-8.5-9

Date Collected: 01/24/19 15:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91011-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			525719	01/30/19 05:52	L1A	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 21:31	MPD	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526363	02/01/19 18:33	D1D	TAL IRV
Total/NA	Prep	3546			525871	01/30/19 13:03	EGC	TAL IRV
Total/NA	Analysis	8082		1	526621	02/04/19 18:36	JM	TAL IRV
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 20:03	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 19:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	526217	01/31/19 19:40	QTN	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91011-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8015B	3546	Solid	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene
8270C SIM	3546	Solid	2-Methylnaphthalene
8270C SIM	3546	Solid	Acenaphthene
8270C SIM	3546	Solid	Acenaphthylene
8270C SIM	3546	Solid	Anthracene
8270C SIM	3546	Solid	Benzo[a]anthracene
8270C SIM	3546	Solid	Benzo[a]pyrene
8270C SIM	3546	Solid	Benzo[b]fluoranthene
8270C SIM	3546	Solid	Benzo[g,h,i]perylene
8270C SIM	3546	Solid	Benzo[k]fluoranthene
8270C SIM	3546	Solid	Chrysene
8270C SIM	3546	Solid	Dibenz(a,h)anthracene
8270C SIM	3546	Solid	Fluoranthene
8270C SIM	3546	Solid	Fluorene

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91011-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Irvine (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

8270C SIM	3546	Solid	Indeno[1,2,3-cd]pyrene
8270C SIM	3546	Solid	Naphthalene
8270C SIM	3546	Solid	Phenanthrene
8270C SIM	3546	Solid	Pyrene
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL IRV
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91011-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91011-1	DG-AW11W	Water	01/24/19 09:00	01/24/19 18:35
720-91011-2	DG-AM15W	Water	01/24/19 10:20	01/24/19 18:35
720-91011-3	DG-AK15W	Water	01/24/19 11:10	01/24/19 18:35
720-91011-4	DG-AG15W	Water	01/24/19 11:40	01/24/19 18:35
720-91011-5	TB-W-1.24.2019	Water	01/24/19 00:00	01/24/19 18:35
720-91011-6	FB-1.24.2019	Water	01/24/19 12:05	01/24/19 18:35
720-91011-7	DUP-76	Water	01/24/19 00:00	01/24/19 18:35
720-91011-8	DG-AI15S-0.5-1	Solid	01/24/19 08:30	01/24/19 18:35
720-91011-9	DG-AI15S-3.5-4	Solid	01/24/19 08:30	01/24/19 18:35
720-91011-10	DUP-112	Solid	01/24/19 08:30	01/24/19 18:35
720-91011-11	DG-AJ17S-0.5-1	Solid	01/24/19 09:40	01/24/19 18:35
720-91011-12	DG-AJ17S-3.5-4	Solid	01/24/19 09:40	01/24/19 18:35
720-91011-13	DG-AJ17S-9.5-10	Solid	01/24/19 09:40	01/24/19 18:35
720-91011-14	DG-AH17S-0.5-1	Solid	01/24/19 10:40	01/24/19 18:35
720-91011-15	DG-AG15S-0.5-1	Solid	01/24/19 11:15	01/24/19 18:35
720-91011-16	DG-AG15S-3.5-4	Solid	01/24/19 11:15	01/24/19 18:35
720-91011-17	DG-AG15S-8.5-9	Solid	01/24/19 11:15	01/24/19 18:35
720-91011-18	DG-AD17S-0.5-1	Solid	01/24/19 13:30	01/24/19 18:35
720-91011-19	DG-AD17S-7-7.5	Solid	01/24/19 13:30	01/24/19 18:35
720-91011-20	DUP-125	Solid	01/24/19 00:00	01/24/19 18:35
720-91011-21	DG-AD17S-3.5-4	Solid	01/24/19 13:30	01/24/19 18:35
720-91011-22	DG-AB17S-0.5-1	Solid	01/24/19 14:20	01/24/19 18:35
720-91011-23	DG-AB17S-3.5-4	Solid	01/24/19 14:20	01/24/19 18:35
720-91011-24	DG-AA19S-0.5-1	Solid	01/24/19 15:00	01/24/19 18:35
720-91011-25	DG-AA19S-3.5-4	Solid	01/24/19 15:00	01/24/19 18:35
720-91011-26	DG-AA19S-8.5-9	Solid	01/24/19 15:00	01/24/19 18:35

eurofins | CEI

Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: B190656
Received: 1/28/2019
Reported: 2/06/2019
Analyst: Greg Ruff

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AI15S-0.5-1 (720-91011-8)	B10326	Yes	Chrysotile	<0.25%
DG-AI15S-3.5-4 (720-91011-9)	B10327	No	None Detected	0.00
DUP-112 (720-91011-10)	B10328	No	None Detected	0.00
DG-AJ17S-0.5-1 (720-91011-11)	B10329	No	None Detected	0.50
DG-AJ17S-3.5-4 (720-91011-12)	B10330	No	None Detected	0.00
DG-AJ17S-9.5-10(720-91011-13)	B10331	No	None Detected	0.00
DG-AH17S-0.5-1 (720-91011-14)	B10332	No	None Detected	0.00
DG-AG15S-0.5-1 (720-91011-15)	B10333	No	None Detected	0.00
DG-AG15S-3.5-4 (720-91011-16)	B10334	No	None Detected	0.00
DG-AG15S-8.5-9 (720-91011-17)	B10335	No	None Detected	0.00
DG-AD17S-0.5-1 (720-91011-18)	B10336	No	None Detected	0.00
DG-AD17S-7-7.5 (720-91011-19)	B10337	No	None Detected	0.00
DUP-125 (720-91011-20)	B10338	No	None Detected	0.00
DG-AD17S-3.5-4 (720-91011-21)	B10339	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

DG-AB17S-0.5-1 (720-91011-22)	B10340	No	None Detected	0.00
DG-AB17S-3.5-4 (720-91011-23)	B10341	No	None Detected	0.00
DG-AA19S-0.5-1 (720-91011-24)	B10342	No	None Detected	0.00
DG-AA19S-3.5-4 (720-91011-25)	B10343	No	None Detected	0.00
DG-AA19S-8.5-9 (720-91011-26)	B10344	No	None Detected	0.00

REVIEWED BY: _____

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

B10326-B10344

B190656 (19)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40957.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/7/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AI15S-0.5-1 (720-91011-8)	1/24/19	08:30 Pacific		Solid			X	1	
DG-AI15S-3.5-4 (720-91011-9)	1/24/19	08:30 Pacific		Solid			X	1	
DUP-112 (720-91011-10)	1/24/19	08:30 Pacific		Solid			X	1	
DG-AJ17S-0.5-1 (720-91011-11)	1/24/19	09:40 Pacific		Solid			X	1	
DG-AJ17S-3.5-4 (720-91011-12)	1/24/19	09:40 Pacific		Solid			X	1	
DG-AJ17S-9.5-10 (720-91011-13)	1/24/19	09:40 Pacific		Solid			X	1	EUROFINS CEI, INC SAMPLES ACCEPTED
DG-AH17S-0.5-1 (720-91011-14)	1/24/19	10:40 Pacific		Solid			X	1	
DG-AG15S-0.5-1 (720-91011-15)	1/24/19	11:15 Pacific		Solid			X	1	
DG-AG15S-3.5-4 (720-91011-16)	1/24/19	11:15 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/25/19 1306	TAPS		1/28 8:00	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

B190656

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40957.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/7/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AG15S-8.5-9 (720-91011-17)	1/24/19	11:15 Pacific		Solid			X	1	
DG-AD17S-0.5-1 (720-91011-18)	1/24/19	13:30 Pacific		Solid			X	1	
DG-AD17S-7-7.5 (720-91011-19)	1/24/19	13:30 Pacific		Solid			X	1	
DUP-125 (720-91011-20)	1/24/19	Pacific		Solid			X	1	
DG-AD17S-3.5-4 (720-91011-21)	1/24/19	13:30 Pacific		Solid			X	1	
DG-AB17S-0.5-1 (720-91011-22)	1/24/19	14:20 Pacific		Solid			X	1	
DG-AB17S-3.5-4 (720-91011-23)	1/24/19	14:20 Pacific		Solid			X	1	
DG-AA19S-0.5-1 (720-91011-24)	1/24/19	15:00 Pacific		Solid			X	1	
DG-AA19S-3.5-4 (720-91011-25)	1/24/19	15:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/25/19 1306	Company TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

B190656

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40957.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/7/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AA19S-8.5-9 (720-91011-26)	1/24/19	15:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/25/19 1306	TAPLS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
720-91011
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91011 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-AW11W	1/24/2019	0900	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-AM15W	1/24/2019	1020	G	GW	9	Y		X	X	X	X	X	
DG-AK15W	1/24/2019	1110	G	GW	9	Y		X	X	X	X	X	
DG-AG15W	1/24/2019	1140	G	GW	9	Y		X	X	X	X	X	
TB-W-1.24.2019	1/24/2019	—	G	GW	1	N		X	~~X~~	~~X~~	~~X~~	~~X~~ (NS)	
FB-1.24.2019	1/24/2019	1205	G	GW	3	N		X					
DUP-T6	1/24/2019	—	G	GW	9	Y		X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd _____ Corr'd _____		Therm ID No.: _____
Relinquished by	Company Geosyntec	Date/Time 1/24/2019 1604	Received by	Company TAPL	Date/Time 1/24/19 1604
Relinquished by	Company TAPL	Date/Time 1/24/19 1705	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA PLS	Date/Time 1/24/19 1835

2-7/2-2/2-6/2-3°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1 2 3 Page 248 of 260 7

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-9011

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1.24.19	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
8	DG-A11SS-0.5-1	1.24.19	0830	G	S	10	N	Y	X	X	X	X	X	X	X	
9	DG-A11SS-3.5-4	1.24.19	0830	G	S	7	N	N	X	X	X	X	X	X	X	
10	DUP-112	1.24.19	0830	G	S	7	N	N	X	X	X	X	X	X	X	
11	DG-AJ17S-0.5-1		0940			7	N	N	X	X	X	X	X	X	X	
12	DG-AJ17S-3.5-4		0940			7	N	N	X	X	X	X	X	X	X	
13	DG-AJ17S-9.5-10		0940			7	N	N	X	X	X	X	X	X	X	
14	DG-AH17S-0.5-1		1040			7	N	N	X	X	X	X	X	X	X	
15	DG-AG15S-0.5-1		1115			7	N	N	X	X	X	X	X	X	X	
16	DG-AG15S-3.5-4		1115			7	N	N	X	X	X	X	X	X	X	
17	DG-AG15S-8.5-9		1115			7	N	N	X	X	X	X	X	X	X	
18	DG-AD17S-0.5-1		1330				N	N	X	X	X	X	X	X	X	
19	DG-AD17S ~~9.5~~ 7-7.5	↓	1330	↓	↓		N	N	X	X	X	X	X	X	X	

Page 242 of 266

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd: _____	Therm ID No.: _____
Relinquished by	Company: Geosyntec	Date/Time: 1/24/2019 1604	Received by	Company: TA PLS	Date/Time: 1/24/19 1604
Relinquished by	Company: TA PLS	Date/Time: 1/24/19 1835	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 1/24/19 1835

2-7/2-2/2-6/2-3°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
720-91011
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925 600 3002

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
~~AD~~ DUP-125	1/24/2019	—	G	S	7	N		X	X	X	X	X	X	X	
~~AD1~~ DG-AB17S-3.5-4	1/24/2019	1330	G	S	10	N	Y	X	X	X	X	X	X	X	
DG-AB17S-0.5-1	1/24/2019	1420	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AB17S-3.5-4	1/24/2019	1420	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AA19S-0.5-1	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AA19S-3.5-4	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AA19S-8.5-9	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
~~TB-1~~ ~~TB-W~~ TB-S-1.24.19	1/24/2019	—	G	W	1	N	N	X	X	X	X	X	X	X	(VOA)

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company Geosyntec	Date/Time 1/24/2019 1604	Received by	Company TA-PLS	Date/Time 1/24/19 1604
Relinquished by	Company TA-PLS	Date/Time 1/24/19 1835	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/24/19 1835

2-7/2-2/2-6/2-3°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
478645742668

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
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1.800.463.3339

Jan 24, 2019 4:27:00 PM

Ref:	Date: 24Jan19	SHIPPING:	0.00
Dep:	Wgt: 40.00 LBS	SPECIAL:	0.00
		HANDLING:	0.00
	DV: 100.00	TOTAL:	0.00

Svcs: PRIORITY OVERNIGHT
TRCK: 4786 4574 2668

720-91011
THVR TERRA CORES
GEOSYNTEC

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 2668	COC No: 720-40958.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Special Instructions/Note:
DG-AW11W (720-91011-1)	1/24/19	09:00 Pacific		Water		check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AM15W (720-91011-2)	1/24/19	10:20 Pacific		Water		check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AK15W (720-91011-3)	1/24/19	11:10 Pacific		Water		check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AG15W (720-91011-4)	1/24/19	11:40 Pacific		Water		check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-W-1.24.2019 (720-91011-5)	1/24/19	Pacific		Water		check for 2 phases
FB-1.24.2019 (720-91011-6)	1/24/19	12:05 Pacific		Water		check for 2 phases
DUP-76 (720-91011-7)	1/24/19	Pacific		Water		check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AI15S-0.5-1 (720-91011-8)	1/24/19	08:30 Pacific		Solid		
DG-AI15S-0.5-1 (720-91011-8MS)	1/24/19	08:30 Pacific	MS	Solid		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date: 1020	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 1-25-19	Company: PTS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Olga Cinelus	Date/Time: 1/25/19 1000	Company TAPAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6/2.1 IR-93

Encores or Terracores Frozen
Date: 1/25/19 Time: 10:25 Initials: OC

4/14/2019 (Rev. 1)
Page 245 of 260
01/25/19

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCBs Test	8081A/3546 (MOD) 8081 (MOD) Standard List	8270C_SIM/3546 (MOD) 8270 (MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture, Percent Moisture	6010B/7470A/7471A Mercury - CAM 17 No Mercury	7471A/7471A_Prep 7471A Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-AI15S-0.5-1 (720-91011-8MSD)	1/24/19	08:30 Pacific	MSD	Solid							X	X	X	X		X	X	X	X	3	
DG-AI15S-3.5-4 (720-91011-9)	1/24/19	08:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	
DUP-112 (720-91011-10)	1/24/19	08:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	
DG-AJ17S-0.5-1 (720-91011-11)	1/24/19	09:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	
DG-AJ17S-3.5-4 (720-91011-12)	1/24/19	09:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	
DG-AJ17S-9.5-10 (720-91011-13)	1/24/19	09:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	
DG-AH17S-0.5-1 (720-91011-14)	1/24/19	10:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	
DG-AG15S-0.5-1 (720-91011-15)	1/24/19	11:15 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	
DG-AG15S-3.5-4 (720-91011-16)	1/24/19	11:15 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1-25-19 1030	Company PTS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Olga Cimelas	Date/Time: 1/25/19 1000	Company TA-PLS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Special Instructions/Note:
DG-AG15S-8.5-9 (720-91011-17)	1/24/19	11:15 Pacific		Solid	4	
DG-AD17S-0.5-1 (720-91011-18)	1/24/19	13:30 Pacific		Solid	4	
DG-AD17S-7-7.5 (720-91011-19)	1/24/19	13:30 Pacific		Solid	4	
DUP-125 (720-91011-20)	1/24/19	Pacific		Solid	4	
DG-AD17S-3.5-4 (720-91011-21)	1/24/19	13:30 Pacific		Solid	4	
DG-AD17S-3.5-4 (720-91011-21MS)	1/24/19	13:30 Pacific	MS	Solid	3	
DG-AD17S-3.5-4 (720-91011-21MSD)	1/24/19	13:30 Pacific	MSD	Solid	3	
DG-AB17S-0.5-1 (720-91011-22)	1/24/19	14:20 Pacific		Solid	4	
DG-AB17S-3.5-4 (720-91011-23)	1/24/19	14:20 Pacific		Solid	4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:
Relinquished by:	Date/Time: 1-25-19 1070 Company: PTS
Relinquished by:	Date/Time: Company
Relinquished by:	Date/Time: Company
Received by:	Date/Time: Company
Received by: Olga Omelas	Date/Time: 1/25-19 1000 Company: TA PLV
Received by:	Date/Time: Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, S=solid, O=wastepaint, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
			Preservation Code																	
DG-AA19S-0.5-1 (720-91011-24)	1/24/19	15:00 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AA19S-3.5-4 (720-91011-25)	1/24/19	15:00 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AA19S-8.5-9 (720-91011-26)	1/24/19	15:00 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1-25-19 1030	Company PTS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/25/19 1000	Company TAKV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
720-91011
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91011 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)		Sample Specific Notes:
1	DG-AW11W	1/24/2019	0900	G	GW	9	Y		X	X	X	X	X		Metals and chromium samples filtered
2	DG-AM15W	1/24/2019	1020	G	GW	9	Y		X	X	X	X	X		
3	DG-AK15W	1/24/2019	1110	G	GW	9	Y		X	X	X	X	X		
4	DG-AG15W	1/24/2019	1140	G	GW	9	Y		X	X	X	X	X		
5	TB-W-1.24.2019	1/24/2019	—	G	GW	1	N		X	X	X	X	X	(2)	
6	FB-1.24.2019	1/24/2019	1205	G	GW	3	N		X						
7	DUP-76	1/24/2019	—	G	GW	9	Y		X	X	X	X	X		

720-91011 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6= Other:

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ Therm ID No.: ____		
Relinquished by:	Company: Geosyntec	Date/Time: 1/24/2019 1600	Received by:	Company: TAPLS	Date/Time: 1/24/19 1600
Relinquished by:	Company: TA PLS	Date/Time: 1/24/19 1801	Received by:	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA PLS	Date/Time: 1/24/19 1835

2-7/2-2/2-6/2-3C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-9011

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1.24.19	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
8	DG-A11SS-0.5-1	1.24.19	0830	G	S	10	N	Y	X	X	X	X	X	X	X	
9	DG-A11SS-3.5-4	1.24.19	0830	G	S	7	N	N	X	X	X	X	X	X	X	
10	DUP-112	1.24.19	0830	G	S	7	N	N	X	X	X	X	X	X	X	
11	DG-AJ17S-0.5-1		0940			7	N	N	X	X	X	X	X	X	X	
12	DG-AJ17S-3.5-4		0940			7	N	N	X	X	X	X	X	X	X	
13	DG-AJ17S-9.5-10		0940			7	N	N	X	X	X	X	X	X	X	
14	DG-AH17S-0.5-1		1040			7	N	N	X	X	X	X	X	X	X	
15	DG-AG15S-0.5-1		1115			7	N	N	X	X	X	X	X	X	X	
16	DG-AG15S-3.5-4		1115			7	N	N	X	X	X	X	X	X	X	
17	DG-AG15S-8.5-9		1115			7	N	N	X	X	X	X	X	X	X	
18	DG-AD17S-0.5-1		1330				N	N	X	X	X	X	X	X	X	
19	DG-AD17S ~~9.5~~ 7-7.5	↓	1330	↓	↓		N	N	X	X	X	X	X	X	X	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1/24/2019 1604	Received by:	Company: TAPLS	Date/Time: 1/24/19 1604
Relinquished by:	Company: TAPLS	Date/Time: 1/24/19 1835	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time	Received in Laboratory by:	Company: TA PLS	Date/Time: 1/24/19 1835

2-7/2-2/2-6/2-3°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91011

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, rsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
~~AD~~ DUP-125	1/24/2019	—	G	S	7	N		X	X	X	X	X	X	X	
~~AD~~ DG-AD17S-3.5-4	1/24/2019	1330	G	S	10	N	Y	X	X	X	X	X	X	X	
DG-AB17S-0.5-1	1/24/2019	1420	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AB17S-3.5-4	1/24/2019	1420	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AA19S-0.5-1	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AA19S-3.5-4	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AA19S-8.5-9	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
~~TB-A TB-W~~ TB-S-1.24.19	1/24/2019	—	G	W	1	N	N	X	X	X	X	X	X	(NS)	

Preservation Used: 1=Ice, 2=HCL, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1/24/2019 1600	Received by:	Company: TAPLS	Date/Time: 1/24/19 1604
Relinquished by:	Company: TAPLS	Date/Time: 1/24/19 1837	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/24/19 1835

2-7/2-7/2-6/2-3°C

Form No. CA-C-WI-002, Rev. 4.16, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_PW_1 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_SW_1 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
DG-AW11W (720-91011-1)	1/24/19	09:00 Pacific		Water			X	X	X	X										3	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AM15W (720-91011-2)	1/24/19	10:20 Pacific		Water			X	X	X	X										3	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AK15W (720-91011-3)	1/24/19	11:10 Pacific		Water			X	X	X	X										3	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AG15W (720-91011-4)	1/24/19	11:40 Pacific		Water			X	X	X	X										3	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-W-1.24.2019 (720-91011-5)	1/24/19	Pacific		Water			X	X												2	check for 2 phases
FB-1.24.2019 (720-91011-6)	1/24/19	12:05 Pacific		Water			X	X												2	check for 2 phases
DUP-76 (720-91011-7)	1/24/19	Pacific		Water			X	X	X	X										3	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AI15S-0.5-1 (720-91011-8)	1/24/19	08:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	3	2 1-25-19
DG-AI15S-0 5-1 (720-91011-8MS)	1/24/19	08:30 Pacific	MS	Solid							X	X	X	X		X	X	X	X	3	1 1-25-19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date: 2 OP) 1/25/19	Time:		Method of Shipment:		
Relinquished by:	Date/Time: 1/25/19 1490	Company: TRPLS	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/26/19 1045	Company: TAIRV		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4786 4574 2896		Cooler Temperature(s) °C and Other Remarks: 1.8 / 1.3 IR95				

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
DG-AI15S-0.5-1 (720-91011-8MSD)	1/24/19	08:30 Pacific	MSD	Solid							X	X	X	X		X	X	X	X	4	1
DG-AI15S-3.5-4 (720-91011-9)	1/24/19	08:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	1
DUP-112 (720-91011-10)	1/24/19	08:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	1
DG-AJ17S-0.5-1 (720-91011-11)	1/24/19	09:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	1
DG-AJ17S-3.5-4 (720-91011-12)	1/24/19	09:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	1
DG-AJ17S-9.5-10 (720-91011-13)	1/24/19	09:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	1
DG-AH17S-0.5-1 (720-91011-14)	1/24/19	10:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	1
DG-AG15S-0.5-1 (720-91011-15)	1/24/19	11:15 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	1
DG-AG15S-3.5-4 (720-91011-16)	1/24/19	11:15 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	1

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/25/19 1420	Company TAPS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/26/19 1045	Company TAMY

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 4786 4575 2896	Cooler Temperature(s) °C and Other Remarks: 1.8/1.3 IR94

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

1-25-19

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_5_FW_7 8260-(MOD)VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
DG-AG15S-8.5-9 (720-91011-17)	1/24/19	11:15 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AD17S-0.5-1 (720-91011-18)	1/24/19	13:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AD17S-7-7.5 (720-91011-19)	1/24/19	13:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DUP-125 (720-91011-20)	1/24/19	Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AD17S-3.5-4 (720-91011-21)	1/24/19	13:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AD17S-3.5-4 (720-91011-21MS)	1/24/19	13:30 Pacific	MS	Solid							X	X	X	X		X	X	X	X	6	1
DG-AD17S-3.5-4 (720-91011-21MSD)	1/24/19	13:30 Pacific	MSD	Solid							X	X	X	X		X	X	X	X	6	1
DG-AB17S-0.5-1 (720-91011-22)	1/24/19	14:20 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AB17S-3.5-4 (720-91011-23)	1/24/19	14:20 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2

1-25-19 JM

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 1/25/19 1420	Company TAPLS	Received by:		Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time: 1/26/19 1045		Company TAPLV
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4786 4574 2896		Cooler Temperature(s) °C and Other Remarks:		1.8/1.3 IR94		

Ver: 06/08/2017

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM_PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5030A_F_FW_7 8260(MOD) VOCs + GRO	8260B/CA_LUFTMS/5030A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
DG-AA19S-0.5-1 (720-91011-24)	1/24/19	15:00 Pacific		Solid							X	X	X	X	X	X	X	X	X	2	2 1-24-19
DG-AA19S-3.5-4 (720-91011-25)	1/24/19	15:00 Pacific		Solid							X	X	X	X	X	X	X	X	X	2	2 MS
DG-AA19S-8.5-9 (720-91011-26)	1/24/19	15:00 Pacific		Solid							X	X	X	X	X	X	X	X	X	2	2

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 1/25/19 1700	Company TAPLS	Received by:		Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time: 1/26/19 1045		Company TAPL
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4786 4573 2896		Cooler Temperature(s) °C and Other Remarks:		IR94 1.8/1.3 CH		

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91011-1

Login Number: 91011
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91011-1

Login Number: 91011
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins TestAmerica, Irvine
List Creation: 01/25/19 03:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91011-1

Login Number: 91011
List Number: 5
Creator: Jatib, Savana

List Source: Eurofins TestAmerica, Irvine
List Creation: 01/26/19 02:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91011-E-8-L	DG-AI15S-0.5-1	19	ND
720-91011-E-9-C	DG-AI15S-3.5-4	17	ND
720-91011-E-10-D	DUP-112	16	ND
720-91011-E-11-C	DG-AJ17S-0.5-1	17	ND
720-91011-E-12-C	DG-AJ17S-3.5-4	20	ND
720-91011-E-13-C	DG-AJ17S-9.5-10	21	ND
720-91011-E-14-C	DG-AH17S-0.5-1	16	ND
720-91011-E-15-C	DG-AG15S-0.5-1	10	ND
720-91011-E-16-C	DG-AG15S-3.5-4	18	ND
720-91011-E-17-C	DG-AG15S-8.5-9	12	ND
720-91011-E-18-C	DG-AD17S-0.5-1	22	ND
720-91011-F-19-B	DG-AD17S-7-7.5	19	ND
720-91011-F-22-B	DG-AB17S-0.5-1	30	ND
720-91011-F-23-B	DG-AB17S-3.5-4	15	ND
720-91011-F-24-B	DG-AA19S-0.5-1	13	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa Brewer
Quality Assurance Manager

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91012-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/7/2019 11:12:12 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91012-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91012-1

Comments
Revision created to change sample ID for Dup :DUP-128 (previously DUP-122). This revision will include new Thallium result. See letter in correspondence.

Receipt
The samples were received on 1/24/2019 6:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

Metals
Method 6010B: Internal standard responses were outside of acceptance limits for ICSA and ICSAB however, target analyte recoveries met criteria : DG-AA13S-3.5-4 (720-91012-29), DG-AC13S-0.5-1 (720-91012-30), DG-AC13S-3.5-4 (720-91012-31), DG-AC14S-0.5-1 (720-91012-32), DG-AC14S-3.5-4 (720-91012-33), DG-Y16S-0.5-1 (720-91012-34), DG-Y16S-3.5-4 (720-91012-35), DUP-116 (720-91012-36), DG-V18S-0.5-1 (720-91012-37), (ICSA 720-259732/7), (ICSAB 720-259732/8), (720-91081-A-1-J) and (720-91089-F-9-F). All associated sample internal standards were within acceptance limits.

Method 6010B: The method blank for preparation batch 720-259517 and analytical batch 720-259732 contained Silver, Barium, and Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259732 was outside control limits for Barium-29%, Cobalt-30%, Chromium-29%, Nickel-29%, Vanadium-31%: (720-91081-A-1-J SD)

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259732 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AC13S-0.5-1 (720-91012-30), DG-AC13S-3.5-4 (720-91012-31), DG-AC14S-0.5-1 (720-91012-32), DG-AC14S-3.5-4 (720-91012-33), DG-Y16S-0.5-1 (720-91012-34), DG-Y16S-3.5-4 (720-91012-35), DUP-116 (720-91012-36), DG-V18S-0.5-1 (720-91012-37), (CCV 720-259732/23) and (CCV 720-259732/43). Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259517 and analytical batch 720-259732 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259590 and analytical batch 720-259817 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259834 was outside control limits for Barium-17%, Cobalt-16%, Chromium-20%, Nickel-20% and Vanadium-19% (720-91081-A-1-J SD)

Method 6010B: The method blank for preparation batch 720-259601 and analytical batch 720-259871 contained Silver, Chromium, and Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259601 and analytical batch 720-259871 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-136%, Chromium-128%, Copper-127%, Vanadium-127%, Zinc-131% associated with batch 720-259871 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259871 was outside control limits for

Job ID: 720-91012-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Barium-16%, Cobalt-13%, Chromium-14%, Nickel-12%, Vanadium-15%, Zinc-13%: (720-91011-F-21-I SD)

Method 6010B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 720-259601 and analytical batch 720-259871. The associated laboratory control sample (LCS) met acceptance criteria.

Method 7471A: The following sample was diluted to bring the concentration of target analytes within the calibration range: DG-U17S-3.5-4 (720-91012-40). Elevated reporting limits (RLs) are provided.

Method 7471A: The method blank for preparation batch 720-259580 and analytical batch 720-259898 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-259629 and analytical batch 720-259950 contained Barium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259629 and analytical batch 720-259950 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Chromium-129%, Copper-148%, Lead-260%, Vanadium-134%, Zinc-140% associated with batch 720-259950 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259950 was outside control limits for Cobalt-25%, Lead-12%: (720-91012-A-16-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-U14S-0.5-1 (720-91012-1), DG-U14S-0.5-1 (720-91012-1[MS]), DG-U14S-0.5-1 (720-91012-1[MSD]), DG-U14S-3.5-4 (720-91012-2), DG-U16S-0.5-1 (720-91012-3), DG-U16S-3.5-4 (720-91012-4), DG-V16S-0.5-1 (720-91012-5), DG-T16S-0.5-1 (720-91012-6), DG-T16S-3.5-4 (720-91012-7), DG-W17S-0.5-1 (720-91012-8), DG-W17S-0.5-1 (720-91012-8[MS]), DG-W17S-0.5-1 (720-91012-8[MSD]), DG-W17S-3.5-4 (720-91012-9), DG-X18S-0.5-1 (720-91012-10), DUP-122 (720-91012-11), DUP-99 (720-91012-12), DG-X18S-3.5-4 (720-91012-13), DG-W18S-0.5-1 (720-91012-14), DG-W18S-3.5-4 (720-91012-15), DG-W18S-3.5-4 (720-91012-15[MS]), DG-W18S-3.5-4 (720-91012-15[MSD]), DG-Z16S-0.5-1 (720-91012-16), DG-Z16S-3.5-4 (720-91012-17), DG-Z15S-0.5-1 (720-91012-18), DG-Z15S-3.5-4 (720-91012-19), DG-Z14S-0.5-1 (720-91012-20), DG-Z14S-3.5-4 (720-91012-21), DG-AA16S-0.5-1 (720-91012-22), DUP-117 (720-91012-23), DUP-126 (720-91012-24), DG-AA16S-3.5-4 (720-91012-25), DG-AA14S-0.5-1 (720-91012-26), DG-AA14S-3.5-4 (720-91012-27), DG-AA13S-0.5-1 (720-91012-28), (720-91012-A-8-F PDS) and (720-91012-A-8-F SD), DG-AA13S-3.5-4 (720-91012-29), DG-AC13S-0.5-1 (720-91012-30), DG-AC13S-3.5-4 (720-91012-31), DG-AC14S-0.5-1 (720-91012-32), DG-AC14S-3.5-4 (720-91012-33), DG-Y16S-0.5-1 (720-91012-34), DG-Y16S-3.5-4 (720-91012-35), DUP-116 (720-91012-36), DG-V18S-0.5-1 (720-91012-37), DG-V18S-3.5-4 (720-91012-38), DG-U17S-0.5-1 (720-91012-39), DG-U17S-3.5-4 (720-91012-40), DG-U18S-0.5-1 (720-91012-41) and DG-U18S-3.5-4 (720-91012-42). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259974 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-Z16S-0.5-1 (720-91012-16), DG-V18S-3.5-4 (720-91012-38), DG-U17S-0.5-1 (720-91012-39), DG-U17S-3.5-4 (720-91012-40), DG-U18S-0.5-1 (720-91012-41), DG-U18S-3.5-4 (720-91012-42) and (CCV 720-259974/19). Affected sample results for these compounds have been qualified with a “^” symbol.

Method 6010B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 720-259601 and analytical batch 720-259972. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6010B: The post digestion spike % recovery for Copper-128% and Zinc-128% associated with batch 720-259876 was outside of control limits.

Job ID: 720-91012-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259876 was outside control limits for Cobalt-15%: (720-91012-A-8-F SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259604 and analytical batch 720-259876 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The method blank for preparation batch 720-259604 and analytical batch 720-259876 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259876 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. The following samples are impacted: DG-AA16S-3.5-4 (720-91012-25), DG-AA14S-0.5-1 (720-91012-26), DG-AA14S-3.5-4 (720-91012-27), DG-AA13S-0.5-1 (720-91012-28) and (CCB 720-259876/45). Affected sample results for these compounds have been qualified with a “^” symbol.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260055 was outside control limits for Barium-36%: (720-91012-A-8-F SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U14S-0.5-1 — Lab Sample ID: 720-91012-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J F2 F1	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	2.4	J F1 F2	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	28	F2 F1	1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J F1 F2	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.062	J F1 F2	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	18	F2 F1 B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	6.5	F1 F2	0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	19	F2 F1	5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	21	F1 F2	1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	20	F2 F1 B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.60	J F1 F2	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	39	F2 F1	1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	36	F2 F1	5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.045	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U14S-3.5-4 — Lab Sample ID: 720-91012-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.42	J	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	1.3	J	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	35		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.063	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	54	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.8		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	8.2		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	2.3		1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	22	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	61		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	21		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.032	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U16S-0.5-1 — Lab Sample ID: 720-91012-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	2.6	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	32		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	12	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	150		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	120		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	10	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.81	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	95		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	71		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.092	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U16S-3.5-4 — Lab Sample ID: 720-91012-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.41	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	0.73	J	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	65		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.24	0.077	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	67	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	17		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	6.3		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	27	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	49		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.050	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V16S-0.5-1 — Lab Sample ID: 720-91012-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	1.5	J	3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	35		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.27	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	12	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	110		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	71		1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.29	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	12	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	56		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.086	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T16S-0.5-1 — Lab Sample ID: 720-91012-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.7		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	32		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.65		0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	35	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	140		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	280		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	63		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.15	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-T16S-3.5-4 — Lab Sample ID: 720-91012-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.34	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	0.90	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	35		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.040	J	0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	48		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	18		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	11	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	25		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.058	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W17S-0.5-1 — Lab Sample ID: 720-91012-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9	F1	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	9.9		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	280		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.38	J F1	0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	33	F1 B F2	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	130	F1 F2	5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	190	F1	2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.76	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	32	F1	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	4.0	0.59	mg/Kg	4		6010B	Total/NA
Silver	0.54	J	0.99	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	40	F1	2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	230		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	1.8	F1	0.034	0.0050	mg/Kg	2		7471A	Total/NA

Client Sample ID: DG-W17S-3.5-4 — Lab Sample ID: 720-91012-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.71	J	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	16		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	11	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	59		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	8.4		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	14	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.48	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	41		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.092	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-X18S-0.5-1 — Lab Sample ID: 720-91012-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	5.5		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	85		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.47		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	86	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	29		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	51		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.38	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	120		1.7	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.24	J	0.85	0.17	mg/Kg	4		6010B	Total/NA
Thallium	1.1	J	1.7	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	45		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.075	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-128 — Lab Sample ID: 720-91012-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	0.52	J	2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	17		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.50		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	10	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	110		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	2.3		1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	12		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.47	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Silver	0.15	J	0.74	0.15	mg/Kg	4		6010B	Total/NA
Thallium	1.4	J	1.5	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	96		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	52		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.19	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-99 — Lab Sample ID: 720-91012-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	1.5	J	2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	36		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	51	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	6.5		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	8.4		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	1.6		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	17		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	0.15	J	0.61	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	55		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	18		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.021	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-X18S-3.5-4 — Lab Sample ID: 720-91012-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.2		4.8	0.80	mg/Kg	10		6010B	Total/NA
Arsenic	16		9.6	0.82	mg/Kg	10		6010B	Total/NA
Barium	130		4.8	0.68	mg/Kg	10		6010B	Total/NA
Cadmium	2.2		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	74		4.8	0.51	mg/Kg	10		6010B	Total/NA
Cobalt	16		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	320		14	6.8	mg/Kg	10		6010B	Total/NA
Lead	2000		4.8	1.0	mg/Kg	10		6010B	Total/NA
Molybdenum	6.5		1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	79		4.8	0.49	mg/Kg	10		6010B	Total/NA
Selenium	5.6	J	9.6	1.4	mg/Kg	10		6010B	Total/NA
Vanadium	53		4.8	0.65	mg/Kg	10		6010B	Total/NA
Zinc	360		14	6.1	mg/Kg	10		6010B	Total/NA
Mercury	0.26	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W18S-0.5-1 — Lab Sample ID: 720-91012-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	4.8		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	65		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.52		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	79		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	140		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.74	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	26		1.6	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.21	J	0.81	0.16	mg/Kg	4		6010B	Total/NA
Thallium	1.0	J	1.6	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	88		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.087	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W18S-3.5-4 — Lab Sample ID: 720-91012-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.85	J F1	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	0.54	J	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	11		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.43	J	0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	14	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	120		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	4.4		2.0	0.41	mg/Kg	4		6010B	Total/NA
Nickel	7.0		2.0	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.23	J	0.98	0.20	mg/Kg	4		6010B	Total/NA
Thallium	1.6	J	2.0	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	110		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	55		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.025		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-Z16S-0.5-1 — Lab Sample ID: 720-91012-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.9	F1 F2	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	3.6		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	39	B F1	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.23	J	0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.79		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	49	F1	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	6.1	F1	0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	160		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	800	B F2	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.88	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	43	F1	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	67	F1	1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	120	F1	4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.27		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z16S-3.5-4 — Lab Sample ID: 720-91012-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	2.0	J	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	30		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.42		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	35	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.0		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	76		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	86		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	23		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.45	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Thallium	0.39	J	1.1	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	74		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.070	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z15S-0.5-1 — Lab Sample ID: 720-91012-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	2.7	J	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	39		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.45		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	36	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	110		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	180		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.36	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	16		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	55		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.044	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-Z15S-3.5-4 — Lab Sample ID: 720-91012-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.4		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	1.0	J	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	330		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.60		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	49	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	43		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	5.4		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	25		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.43	J	2.8	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	160		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	58		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z14S-0.5-1 — Lab Sample ID: 720-91012-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	7.7		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	54		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	29	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	6.0		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	120		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	670		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	5.8		2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	25		2.0	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.36	J	0.98	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	56		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	99		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.95		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z14S-3.5-4 — Lab Sample ID: 720-91012-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.3	J	2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	53		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.37		0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	12	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	98		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	1.8		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	9.7		1.4	0.15	mg/Kg	4		6010B	Total/NA
Thallium	0.83	J	1.4	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	36		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.023		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA16S-0.5-1 — Lab Sample ID: 720-91012-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5		1.9	0.31	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AA16S-0.5-1 (Continued)

Lab Sample ID: 720-91012-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4	J	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	59		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.67		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	19	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.7		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	160		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	180		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.50	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	69		1.9	0.19	mg/Kg	4		6010B	Total/NA
Thallium	0.96	J	1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	93		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	94		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.058		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-117

Lab Sample ID: 720-91012-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	1.7	J	2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	21		1.2	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.38		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	28	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	79		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	67		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	20		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	68		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.073		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-126

Lab Sample ID: 720-91012-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.73	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	2.9	J	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	64		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.57		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	32	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	6.6		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	44		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	63		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.79	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	39		1.7	0.17	mg/Kg	4		6010B	Total/NA
Thallium	0.89	J	1.7	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	91		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.33		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-AA16S-3.5-4 — Lab Sample ID: 720-91012-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	92		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	23		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	48		3.0	0.43	mg/Kg	10		6010B	Total/NA
Cadmium	0.60		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	3.5		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	490		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	2500	^	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.43	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	42		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.60	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.64	J	1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	73		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.065		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA14S-0.5-1 — Lab Sample ID: 720-91012-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	3.1	J	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	54		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.93		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	17	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	3.7		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	83		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	190	^	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	10		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.28	J	0.90	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	110		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.095		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA14S-3.5-4 — Lab Sample ID: 720-91012-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	4.0		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	57		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.63		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	5.4		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	130		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	220	^	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.89	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	15		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.50	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Silver	0.25	J	0.84	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	150		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.32		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-AA13S-0.5-1

Lab Sample ID: 720-91012-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	1.6	J	2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	27		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.34		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	11	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	200		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	150	^	1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	11		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.39	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Thallium	1.0	J	1.3	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	75		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	49		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA13S-3.5-4

Lab Sample ID: 720-91012-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	J B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	1.8	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	14	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	9.6		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	89		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	31		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	8.2		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	57	B	5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.049		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC13S-0.5-1

Lab Sample ID: 720-91012-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.94	J B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.8		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	42	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.31		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	20		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	5.5		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	87		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	150		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	4.4		1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	150		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.64	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	180		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	81	B	3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.094		0.015	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-AC13S-3.5-4 — Lab Sample ID: 720-91012-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.70	J B	1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	1.4	J	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	44	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.082	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	5.5		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	6.0		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	39		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	61		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.63	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	150		1.5	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	180		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	18	B	4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.0089	J	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC14S-0.5-1 — Lab Sample ID: 720-91012-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5	B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	5.4		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	49	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	1.3		0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	27		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	3.9		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	130		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	310		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	3.7		1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	21		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Silver	0.62	J B	0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	140	B	5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC14S-3.5-4 — Lab Sample ID: 720-91012-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	8.1		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	51	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.57		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	27		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	160		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	370		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	110		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	99		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	76	B	3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-Y16S-0.5-1 — Lab Sample ID: 720-91012-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.7	B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	5.4		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	60	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.65		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	31		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	6.7		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	220		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	230		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.60	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	52		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.84	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	65		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	170	B	4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.085		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y16S-3.5-4 — Lab Sample ID: 720-91012-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	16	B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	61		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.94		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	21		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	430		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	2100		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	56		1.6	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.19	J B	0.79	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	220	B	4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-116 — Lab Sample ID: 720-91012-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1	B	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	4.9		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	66	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.61		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	26		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.6		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	110		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	200		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.91	J	1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	48		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.64	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	160	B	5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.096		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-V18S-0.5-1 — Lab Sample ID: 720-91012-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.38	J B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.4		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	52	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.16	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	9.7		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	5.6		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	29		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	22		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	15		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.59	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	40	B	3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.073		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V18S-3.5-4 — Lab Sample ID: 720-91012-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.55	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	34		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	33	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.075	J	0.22	0.072	mg/Kg	4		6010B	Total/NA
Cadmium	0.087	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	8.7		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	97		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	1.2	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	2.8		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	92		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	32		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.049		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U17S-0.5-1 — Lab Sample ID: 720-91012-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.8		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	190	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	35		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	6.7		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	69		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	4900	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	27		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	200		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.30		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U17S-3.5-4 — Lab Sample ID: 720-91012-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.6		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	4.4		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	150	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.24	0.077	mg/Kg	4		6010B	Total/NA
Cadmium	0.45		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	180		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	24		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	41		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	13	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.30	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	210		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.9	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	65		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	18		0.29	0.042	mg/Kg	20		7471A	Total/NA

Client Sample ID: DG-U18S-0.5-1 — Lab Sample ID: 720-91012-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	38		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	78	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	0.73		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	60		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	52		4.5	2.2	mg/Kg	4		6010B	Total/NA
Lead	130	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.56	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	56		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.65	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	150		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.32		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U18S-3.5-4 — Lab Sample ID: 720-91012-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	98		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	72	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.45		0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	0.42		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	68		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	32		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	35	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	53		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.98	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	130		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.43		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U14S-0.5-1

Date Collected: 01/24/19 08:10
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J F2 F1	1.7	0.27	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Arsenic	2.4	J F1 F2	3.3	0.28	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Barium	28	F2 F1	1.7	0.23	mg/Kg		01/31/19 18:00	02/07/19 12:57	4
Beryllium	0.21	J F1 F2	0.33	0.11	mg/Kg		01/31/19 18:00	02/07/19 14:35	4
Cadmium	0.062	J F1 F2	0.41	0.041	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Chromium	18	F2 F1 B	1.7	0.18	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Cobalt	6.5	F1 F2	0.66	0.066	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Copper	19	F2 F1	5.0	2.4	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Lead	21	F1 F2	1.7	0.35	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Molybdenum	ND	F1 F2	1.7	0.21	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Nickel	20	F2 F1 B	1.7	0.17	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Selenium	0.60	J F1 F2	3.3	0.50	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Silver	ND	F1 F2	0.83	0.17	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Thallium	ND	F1 F2	1.7	0.48	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Vanadium	39	F2 F1	1.7	0.22	mg/Kg		01/31/19 18:00	02/05/19 21:05	4
Zinc	36	F2 F1	5.0	2.1	mg/Kg		01/31/19 18:00	02/05/19 21:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045	B	0.015	0.0023	mg/Kg		02/05/19 16:16	02/05/19 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.3		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U14S-3.5-4

Date Collected: 01/24/19 08:10
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.8	0.29	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Arsenic	1.3	J	3.5	0.30	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Barium	35		1.8	0.25	mg/Kg		01/31/19 18:00	02/07/19 13:02	4
Beryllium	0.13	J	0.35	0.12	mg/Kg		01/31/19 18:00	02/07/19 14:39	4
Cadmium	0.063	J	0.44	0.044	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Chromium	54	B	1.8	0.19	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Cobalt	7.8		0.71	0.071	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Copper	8.2		5.3	2.5	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Lead	2.3		1.8	0.37	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Nickel	22	B	1.8	0.18	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Selenium	ND		3.5	0.53	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Silver	ND		0.88	0.18	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Thallium	ND		1.8	0.51	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Vanadium	61		1.8	0.24	mg/Kg		01/31/19 18:00	02/05/19 21:10	4
Zinc	21		5.3	2.2	mg/Kg		01/31/19 18:00	02/05/19 21:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032	B	0.016	0.0023	mg/Kg		02/05/19 16:16	02/05/19 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U16S-0.5-1

Date Collected: 01/24/19 08:25
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.7	0.28	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Arsenic	2.6	J	3.3	0.28	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Barium	32		1.7	0.24	mg/Kg		01/31/19 18:00	02/07/19 13:07	4
Beryllium	0.21	J	0.33	0.11	mg/Kg		01/31/19 18:00	02/07/19 14:44	4
Cadmium	0.24	J	0.42	0.041	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Chromium	12	B	1.7	0.18	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Cobalt	13		0.67	0.067	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Copper	150		5.0	2.4	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Lead	120		1.7	0.35	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Molybdenum	ND		1.7	0.21	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Nickel	10	B	1.7	0.17	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Selenium	0.81	J	3.3	0.50	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Silver	ND		0.83	0.17	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Thallium	ND		1.7	0.48	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Vanadium	95		1.7	0.23	mg/Kg		01/31/19 18:00	02/05/19 21:15	4
Zinc	71		5.0	2.1	mg/Kg		01/31/19 18:00	02/05/19 21:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.092	B	0.016	0.0024	mg/Kg		02/05/19 16:16	02/05/19 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.05	%			02/01/19 11:32	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U16S-3.5-4

Date Collected: 01/24/19 08:25
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.2	0.20	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Arsenic	0.73	J	2.4	0.20	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Barium	65		1.2	0.17	mg/Kg		01/31/19 18:00	02/07/19 13:12	4
Beryllium	0.21	J	0.24	0.077	mg/Kg		01/31/19 18:00	02/07/19 14:49	4
Cadmium	0.20	J	0.30	0.030	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Chromium	67	B	1.2	0.13	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Cobalt	17		0.48	0.048	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Copper	17		3.6	1.7	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Lead	6.3		1.2	0.25	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Molybdenum	ND		1.2	0.15	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Nickel	27	B	1.2	0.12	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Selenium	ND		2.4	0.36	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Silver	ND		0.60	0.12	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Thallium	ND		1.2	0.35	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Vanadium	120		1.2	0.16	mg/Kg		01/31/19 18:00	02/05/19 21:20	4
Zinc	49		3.6	1.5	mg/Kg		01/31/19 18:00	02/05/19 21:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050	B	0.015	0.0022	mg/Kg		02/05/19 16:16	02/05/19 19:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.1		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-V16S-0.5-1

Date Collected: 01/24/19 08:45
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	1.8	0.30	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Arsenic	1.5	J	3.7	0.31	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Barium	35		1.8	0.26	mg/Kg		01/31/19 18:00	02/07/19 13:16	4
Beryllium	0.27	J	0.37	0.12	mg/Kg		01/31/19 18:00	02/07/19 14:54	4
Cadmium	0.29	J	0.46	0.046	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Chromium	12	B	1.8	0.19	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Cobalt	8.9		0.73	0.073	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Copper	110		5.5	2.6	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Lead	71		1.8	0.39	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Molybdenum	0.29	J	1.8	0.23	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Nickel	12	B	1.8	0.19	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Selenium	ND		3.7	0.55	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Silver	ND		0.92	0.19	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Thallium	ND		1.8	0.53	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Vanadium	74		1.8	0.25	mg/Kg		01/31/19 18:00	02/05/19 21:25	4
Zinc	56		5.5	2.3	mg/Kg		01/31/19 18:00	02/05/19 21:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.086	B	0.015	0.0022	mg/Kg		02/05/19 16:16	02/05/19 19:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.9		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-T16S-0.5-1

Date Collected: 01/24/19 09:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.7		1.9	0.32	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Arsenic	14		3.8	0.32	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Barium	32		1.9	0.27	mg/Kg		01/31/19 18:00	02/07/19 13:21	4
Beryllium	ND		0.38	0.12	mg/Kg		01/31/19 18:00	02/07/19 14:59	4
Cadmium	0.65		0.48	0.047	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Chromium	35	B	1.9	0.20	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Cobalt	8.9		0.76	0.076	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Copper	140		5.7	2.7	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Lead	280		1.9	0.40	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Molybdenum	0.39	J	1.9	0.24	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Nickel	24	B	1.9	0.19	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Selenium	1.1	J	3.8	0.57	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Silver	ND		0.95	0.19	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Thallium	ND		1.9	0.55	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Vanadium	44		1.9	0.26	mg/Kg		01/31/19 18:00	02/05/19 21:30	4
Zinc	63		5.7	2.4	mg/Kg		01/31/19 18:00	02/05/19 21:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15	B	0.016	0.0023	mg/Kg		02/05/19 16:16	02/05/19 19:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-T16S-3.5-4

Date Collected: 01/24/19 09:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.6	0.27	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Arsenic	0.90	J	3.3	0.28	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Barium	35		1.6	0.23	mg/Kg		01/31/19 18:00	02/07/19 13:26	4
Beryllium	ND		0.33	0.11	mg/Kg		01/31/19 18:00	02/07/19 15:03	4
Cadmium	0.040	J	0.41	0.040	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Chromium	20	B	1.6	0.17	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Cobalt	7.1		0.65	0.065	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Copper	48		4.9	2.3	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Lead	18		1.6	0.34	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Molybdenum	ND		1.6	0.21	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Nickel	11	B	1.6	0.17	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Selenium	ND		3.3	0.49	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Silver	ND		0.81	0.16	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Thallium	ND		1.6	0.47	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Vanadium	51		1.6	0.22	mg/Kg		01/31/19 18:00	02/05/19 21:34	4
Zinc	25		4.9	2.1	mg/Kg		01/31/19 18:00	02/05/19 21:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058	B	0.016	0.0024	mg/Kg		02/05/19 16:16	02/05/19 19:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.6		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-W17S-0.5-1
Lab Sample ID: 720-91012-8

Date Collected: 01/24/19 09:50
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9	F1	2.0	0.33	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Arsenic	9.9		4.0	0.34	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Barium	280		2.0	0.28	mg/Kg		01/31/19 18:52	02/08/19 10:22	4
Beryllium	0.38	J F1	0.40	0.13	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Cadmium	1.1		0.50	0.049	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Chromium	33	F1 B F2	2.0	0.21	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Cobalt	10		0.79	0.079	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Copper	130	F1 F2	5.9	2.8	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Lead	190	F1	2.0	0.42	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Molybdenum	0.76	J	2.0	0.25	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Nickel	32	F1	2.0	0.20	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Selenium	1.1	J	4.0	0.59	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Silver	0.54	J	0.99	0.20	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Thallium	ND		2.0	0.57	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Vanadium	40	F1	2.0	0.27	mg/Kg		01/31/19 18:52	02/05/19 21:10	4
Zinc	230		5.9	2.5	mg/Kg		01/31/19 18:52	02/05/19 21:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8	F1	0.034	0.0050	mg/Kg		02/04/19 15:42	02/05/19 11:49	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-W17S-3.5-4

Date Collected: 01/24/19 09:50
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5	0.26	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Arsenic	**0.71**	**J**	3.1	0.26	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Barium	**16**		1.5	0.22	mg/Kg		01/31/19 18:00	02/07/19 13:31	4
Beryllium	**0.15**	**J**	0.31	0.10	mg/Kg		01/31/19 18:00	02/07/19 15:08	4
Cadmium	**0.11**	**J**	0.38	0.038	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Chromium	**11**	**B**	1.5	0.16	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Cobalt	**10**		0.62	0.062	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Copper	**59**		4.6	2.2	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Lead	**8.4**		1.5	0.32	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Molybdenum	ND		1.5	0.20	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Nickel	**14**	**B**	1.5	0.16	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Selenium	**0.48**	**J**	3.1	0.46	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Silver	ND		0.77	0.16	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Thallium	ND		1.5	0.45	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Vanadium	**68**		1.5	0.21	mg/Kg		01/31/19 18:00	02/05/19 21:39	4
Zinc	**41**		4.6	2.0	mg/Kg		01/31/19 18:00	02/05/19 21:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.092**	**B**	0.016	0.0023	mg/Kg		02/05/19 16:16	02/06/19 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.8**		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-X18S-0.5-1

Date Collected: 01/24/19 10:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.7	0.28	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Arsenic	5.5		3.4	0.29	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Barium	85		1.7	0.24	mg/Kg		01/31/19 18:52	02/08/19 10:26	4
Beryllium	ND		0.34	0.11	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Cadmium	0.47		0.42	0.042	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Chromium	86	B	1.7	0.18	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Cobalt	14		0.68	0.068	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Copper	29		5.1	2.4	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Lead	51		1.7	0.36	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Molybdenum	0.38	J	1.7	0.22	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Nickel	120		1.7	0.17	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Selenium	ND		3.4	0.51	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Silver	0.24	J	0.85	0.17	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Thallium	1.1	J	1.7	0.49	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Vanadium	62		1.7	0.23	mg/Kg		01/31/19 18:52	02/05/19 21:15	4
Zinc	45		5.1	2.2	mg/Kg		01/31/19 18:52	02/05/19 21:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075	B	0.015	0.0022	mg/Kg		02/05/19 16:16	02/06/19 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DUP-128

Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.5	0.24	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Arsenic	0.52	J	2.9	0.25	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Barium	17		1.5	0.21	mg/Kg		01/31/19 18:52	02/08/19 10:31	4
Beryllium	ND		0.29	0.096	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Cadmium	0.50		0.37	0.036	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Chromium	10	B	1.5	0.16	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Cobalt	17		0.59	0.059	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Copper	110		4.4	2.1	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Lead	2.3		1.5	0.31	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Molybdenum	ND		1.5	0.19	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Nickel	12		1.5	0.15	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Selenium	0.47	J	2.9	0.44	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Silver	0.15	J	0.74	0.15	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Thallium	1.4	J	1.5	0.43	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Vanadium	96		1.5	0.20	mg/Kg		01/31/19 18:52	02/05/19 21:29	4
Zinc	52		4.4	1.9	mg/Kg		01/31/19 18:52	02/05/19 21:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.017	0.0025	mg/Kg		02/05/19 16:16	02/06/19 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DUP-99

Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4		1.2	0.20	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Arsenic	1.5	J	2.4	0.21	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Barium	36		1.2	0.17	mg/Kg		01/31/19 18:52	02/08/19 10:36	4
Beryllium	ND		0.24	0.079	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Cadmium	0.29	J	0.30	0.030	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Chromium	51	B	1.2	0.13	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Cobalt	6.5		0.48	0.048	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Copper	8.4		3.6	1.7	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Lead	1.6		1.2	0.25	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Molybdenum	ND		1.2	0.16	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Nickel	17		1.2	0.12	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Selenium	ND		2.4	0.36	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Silver	0.15	J	0.61	0.12	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Thallium	ND		1.2	0.35	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Vanadium	55		1.2	0.16	mg/Kg		01/31/19 18:52	02/05/19 21:34	4
Zinc	18		3.6	1.5	mg/Kg		01/31/19 18:52	02/05/19 21:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	B	0.015	0.0023	mg/Kg		02/05/19 16:16	02/06/19 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-X18S-3.5-4

Date Collected: 01/24/19 10:40
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.2		4.8	0.80	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Arsenic	16		9.6	0.82	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Barium	130		4.8	0.68	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Beryllium	ND		0.38	0.13	mg/Kg		01/31/19 18:52	02/05/19 21:39	4
Cadmium	2.2		1.2	0.12	mg/Kg		01/31/19 18:52	02/08/19 14:56	10
Chromium	74		4.8	0.51	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Cobalt	16		1.9	0.19	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Copper	320		14	6.8	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Lead	2000		4.8	1.0	mg/Kg		01/31/19 18:52	02/08/19 14:56	10
Molybdenum	6.5		1.9	0.25	mg/Kg		01/31/19 18:52	02/05/19 21:39	4
Nickel	79		4.8	0.49	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Selenium	5.6	J	9.6	1.4	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Silver	ND		2.4	0.49	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Thallium	ND		4.8	1.4	mg/Kg		01/31/19 18:52	02/08/19 14:56	10
Vanadium	53		4.8	0.65	mg/Kg		01/31/19 18:52	02/08/19 11:11	10
Zinc	360		14	6.1	mg/Kg		01/31/19 18:52	02/08/19 11:11	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26	B	0.015	0.0022	mg/Kg		02/05/19 16:16	02/06/19 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.1		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-W18S-0.5-1

Lab Sample ID: 720-91012-14

Date Collected: 01/24/19 10:50
Date Received: 01/24/19 18:35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.6	0.27	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Arsenic	4.8		3.3	0.28	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Barium	65		1.6	0.23	mg/Kg		01/31/19 18:52	02/08/19 11:16	4
Beryllium	ND		0.33	0.11	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Cadmium	0.52		0.41	0.040	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Chromium	21	B	1.6	0.17	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Cobalt	10		0.65	0.065	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Copper	79		4.9	2.3	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Lead	140		1.6	0.34	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Molybdenum	0.74	J	1.6	0.21	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Nickel	26		1.6	0.17	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Selenium	ND		3.3	0.49	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Silver	0.21	J	0.81	0.16	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Thallium	1.0	J	1.6	0.47	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Vanadium	64		1.6	0.22	mg/Kg		01/31/19 18:52	02/05/19 21:44	4
Zinc	88		4.9	2.1	mg/Kg		01/31/19 18:52	02/05/19 21:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087	B	0.015	0.0021	mg/Kg		02/05/19 16:16	02/06/19 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.3		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-W18S-3.5-4

Date Collected: 01/24/19 10:50
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.85	J F1	2.0	0.33	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Arsenic	0.54	J	3.9	0.33	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Barium	11		2.0	0.28	mg/Kg		01/31/19 18:52	02/08/19 11:30	4
Beryllium	ND		0.39	0.13	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Cadmium	0.43	J	0.49	0.049	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Chromium	14	B	2.0	0.21	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Cobalt	17		0.78	0.078	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Copper	120		5.9	2.8	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Lead	4.4		2.0	0.41	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Molybdenum	ND		2.0	0.25	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Nickel	7.0		2.0	0.20	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Selenium	ND		3.9	0.59	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Silver	0.23	J	0.98	0.20	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Thallium	1.6	J	2.0	0.57	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Vanadium	110		2.0	0.27	mg/Kg		01/31/19 18:52	02/05/19 21:58	4
Zinc	55		5.9	2.5	mg/Kg		01/31/19 18:52	02/05/19 21:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.016	0.0024	mg/Kg		02/04/19 15:42	02/04/19 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Z16S-0.5-1
Lab Sample ID: 720-91012-16
Date Collected: 01/24/19 11:15
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.9	F1 F2	1.5	0.24	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Arsenic	3.6		2.9	0.25	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Barium	39	B F1	1.5	0.21	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Beryllium	0.23	J	0.29	0.096	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Cadmium	0.79		0.37	0.036	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Chromium	49	F1	1.5	0.16	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Cobalt	6.1	F1	0.59	0.059	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Copper	160		4.4	2.1	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Lead	800	B F2	1.5	0.31	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Molybdenum	0.88	J	1.5	0.19	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Nickel	43	F1	1.5	0.15	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Selenium	1.5	J	2.9	0.44	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Silver	ND		0.74	0.15	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Thallium	ND	F1 ^	1.5	0.43	mg/Kg		02/02/19 08:08	02/07/19 13:19	4
Vanadium	67	F1	1.5	0.20	mg/Kg		02/02/19 08:08	02/06/19 21:17	4
Zinc	120	F1	4.4	1.9	mg/Kg		02/02/19 08:08	02/06/19 21:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.016	0.0024	mg/Kg		02/04/19 15:42	02/05/19 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.0		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-Z16S-3.5-4

Date Collected: 01/24/19 11:15
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.1	0.19	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Arsenic	2.0	J	2.2	0.19	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Barium	30		1.1	0.16	mg/Kg		01/31/19 18:52	02/08/19 11:35	4
Beryllium	ND		0.22	0.073	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Cadmium	0.42		0.28	0.028	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Chromium	35	B	1.1	0.12	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Cobalt	7.0		0.45	0.045	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Copper	76		3.4	1.6	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Lead	86		1.1	0.24	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Molybdenum	0.27	J	1.1	0.14	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Nickel	23		1.1	0.11	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Selenium	0.45	J	2.2	0.34	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Silver	ND		0.56	0.11	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Thallium	0.39	J	1.1	0.33	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Vanadium	60		1.1	0.15	mg/Kg		01/31/19 18:52	02/05/19 22:03	4
Zinc	74		3.4	1.4	mg/Kg		01/31/19 18:52	02/05/19 22:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070	B	0.017	0.0025	mg/Kg		02/05/19 16:16	02/06/19 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.1		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-Z15S-0.5-1

Date Collected: 01/24/19 11:35
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9		1.6	0.26	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Arsenic	2.7	J	3.1	0.26	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Barium	39		1.6	0.22	mg/Kg		01/31/19 18:52	02/08/19 11:39	4
Beryllium	ND		0.31	0.10	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Cadmium	0.45		0.39	0.038	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Chromium	36	B	1.6	0.16	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Cobalt	10		0.62	0.062	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Copper	110		4.7	2.2	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Lead	180		1.6	0.33	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Molybdenum	0.36	J	1.6	0.20	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Nickel	16		1.6	0.16	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Selenium	ND		3.1	0.47	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Silver	ND		0.78	0.16	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Thallium	ND		1.6	0.45	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Vanadium	76		1.6	0.21	mg/Kg		01/31/19 18:52	02/05/19 22:08	4
Zinc	55		4.7	2.0	mg/Kg		01/31/19 18:52	02/05/19 22:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044	B	0.015	0.0022	mg/Kg		02/05/19 16:16	02/06/19 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.0		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-Z15S-3.5-4

Date Collected: 01/24/19 11:35
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.4		1.4	0.24	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Arsenic	1.0	J	2.8	0.24	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Barium	330		1.4	0.20	mg/Kg		01/31/19 18:52	02/08/19 11:44	4
Beryllium	ND		0.28	0.092	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Cadmium	0.60		0.35	0.035	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Chromium	49	B	1.4	0.15	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Cobalt	21		0.57	0.057	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Copper	43		4.3	2.0	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Lead	5.4		1.4	0.30	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Nickel	25		1.4	0.14	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Selenium	0.43	J	2.8	0.43	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Silver	ND		0.71	0.14	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Thallium	ND		1.4	0.41	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Vanadium	160		1.4	0.19	mg/Kg		01/31/19 18:52	02/05/19 22:12	4
Zinc	58		4.3	1.8	mg/Kg		01/31/19 18:52	02/05/19 22:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.014	0.0021	mg/Kg		02/04/19 15:42	02/04/19 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.1		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-Z14S-0.5-1

Date Collected: 01/24/19 11:45
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		2.0	0.33	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Arsenic	7.7		3.9	0.33	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Barium	54		2.0	0.28	mg/Kg		01/31/19 18:52	02/08/19 12:17	4
Beryllium	ND		0.39	0.13	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Cadmium	1.1		0.49	0.049	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Chromium	29	B	2.0	0.21	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Cobalt	6.0		0.78	0.078	mg/Kg		01/31/19 18:52	02/08/19 12:17	4
Copper	120		5.9	2.8	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Lead	670		2.0	0.41	mg/Kg		01/31/19 18:52	02/08/19 15:00	4
Molybdenum	5.8		2.0	0.25	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Nickel	25		2.0	0.20	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Selenium	ND		3.9	0.59	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Silver	0.36	J	0.98	0.20	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Thallium	ND		2.0	0.57	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Vanadium	56		2.0	0.27	mg/Kg		01/31/19 18:52	02/05/19 22:27	4
Zinc	99		5.9	2.5	mg/Kg		01/31/19 18:52	02/05/19 22:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.95		0.015	0.0023	mg/Kg		02/04/19 15:42	02/04/19 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.3		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Z14S-3.5-4
Lab Sample ID: 720-91012-21
Date Collected: 01/24/19 11:45
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.24	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Arsenic	**1.3**	**J**	2.9	0.24	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Barium	**53**		1.4	0.20	mg/Kg		01/31/19 18:52	02/08/19 12:21	4
Beryllium	ND		0.29	0.093	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Cadmium	**0.37**		0.36	0.035	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Chromium	**12**	**B**	1.4	0.15	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Cobalt	**8.6**		0.57	0.057	mg/Kg		01/31/19 18:52	02/08/19 12:21	4
Copper	**98**		4.3	2.0	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Lead	**1.8**		1.4	0.30	mg/Kg		01/31/19 18:52	02/08/19 15:05	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Nickel	**9.7**		1.4	0.15	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Selenium	ND		2.9	0.43	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Silver	ND		0.71	0.14	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Thallium	**0.83**	**J**	1.4	0.41	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Vanadium	**77**		1.4	0.19	mg/Kg		01/31/19 18:52	02/05/19 22:32	4
Zinc	**36**		4.3	1.8	mg/Kg		01/31/19 18:52	02/05/19 22:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.016	0.0024	mg/Kg		02/04/19 15:42	02/04/19 19:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.3**		0.1	0.05	%			02/01/19 13:49	1

Client Sample ID: DG-AA16S-0.5-1 Lab Sample ID: 720-91012-22

Date Collected: 01/24/19 12:05 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5		1.9	0.31	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Arsenic	3.4	J	3.8	0.32	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Barium	59		1.9	0.27	mg/Kg		01/31/19 18:52	02/08/19 12:26	4
Beryllium	ND		0.38	0.12	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Cadmium	0.67		0.47	0.047	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Chromium	19	B	1.9	0.20	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Cobalt	5.7		0.75	0.075	mg/Kg		01/31/19 18:52	02/08/19 12:26	4
Copper	160		5.7	2.7	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Lead	180		1.9	0.40	mg/Kg		01/31/19 18:52	02/08/19 15:10	4
Molybdenum	0.50	J	1.9	0.24	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Nickel	69		1.9	0.19	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Selenium	ND		3.8	0.57	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Silver	ND		0.94	0.19	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Thallium	0.96	J	1.9	0.55	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Vanadium	93		1.9	0.26	mg/Kg		01/31/19 18:52	02/05/19 22:36	4
Zinc	94		5.7	2.4	mg/Kg		01/31/19 18:52	02/05/19 22:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.016	0.0024	mg/Kg		02/04/19 15:42	02/04/19 19:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.8		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DUP-117

Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.2	0.20	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Arsenic	1.7	J	2.5	0.21	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Barium	21		1.2	0.18	mg/Kg		01/31/19 18:52	02/08/19 12:31	4
Beryllium	ND		0.25	0.080	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Cadmium	0.38		0.31	0.031	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Chromium	28	B	1.2	0.13	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Cobalt	7.1		0.49	0.049	mg/Kg		01/31/19 18:52	02/08/19 12:31	4
Copper	79		3.7	1.8	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Lead	67		1.2	0.26	mg/Kg		01/31/19 18:52	02/08/19 15:15	4
Molybdenum	0.27	J	1.2	0.16	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Nickel	20		1.2	0.13	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Selenium	1.2	J	2.5	0.37	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Silver	ND		0.62	0.12	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Thallium	ND		1.2	0.36	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Vanadium	64		1.2	0.17	mg/Kg		01/31/19 18:52	02/05/19 22:41	4
Zinc	68		3.7	1.6	mg/Kg		01/31/19 18:52	02/05/19 22:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.015	0.0021	mg/Kg		02/04/19 15:42	02/04/19 19:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.1		0.1	0.05	%			02/01/19 13:49	1

Client Sample ID: DUP-126
Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-24
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.73	J	1.7	0.28	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Arsenic	2.9	J	3.4	0.29	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Barium	64		1.7	0.24	mg/Kg		01/31/19 18:52	02/08/19 12:36	4
Beryllium	ND		0.34	0.11	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Cadmium	0.57		0.42	0.042	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Chromium	32	B	1.7	0.18	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Cobalt	6.6		0.67	0.067	mg/Kg		01/31/19 18:52	02/08/19 12:36	4
Copper	44		5.0	2.4	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Lead	63		1.7	0.35	mg/Kg		01/31/19 18:52	02/08/19 15:19	4
Molybdenum	0.79	J	1.7	0.22	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Nickel	39		1.7	0.17	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Selenium	ND		3.4	0.50	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Silver	ND		0.84	0.17	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Thallium	0.89	J	1.7	0.49	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Vanadium	48		1.7	0.23	mg/Kg		01/31/19 18:52	02/05/19 22:46	4
Zinc	91		5.0	2.1	mg/Kg		01/31/19 18:52	02/05/19 22:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.33		0.017	0.0025	mg/Kg		02/04/19 15:42	02/04/19 19:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.3		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-AA16S-3.5-4

Date Collected: 01/24/19 12:05
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	92		1.2	0.20	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Arsenic	23		2.4	0.20	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Barium	48		3.0	0.43	mg/Kg		01/31/19 18:52	02/08/19 12:40	10
Beryllium	ND		0.24	0.078	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Cadmium	0.60		0.30	0.030	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Chromium	20	B	1.2	0.13	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Cobalt	3.5		1.2	0.12	mg/Kg		01/31/19 18:52	02/08/19 12:40	10
Copper	490		3.6	1.7	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Lead	2500	^	1.2	0.25	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Molybdenum	0.43	J	1.2	0.15	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Nickel	42		1.2	0.12	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Selenium	ND		2.4	0.36	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Silver	0.13	J	0.60	0.12	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Thallium	0.64	J	1.2	0.35	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Vanadium	48		1.2	0.16	mg/Kg		01/31/19 18:52	02/05/19 22:51	4
Zinc	73		3.6	1.5	mg/Kg		01/31/19 18:52	02/05/19 22:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.017	0.0025	mg/Kg		02/04/19 15:42	02/04/19 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.9		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AA14S-0.5-1
Lab Sample ID: 720-91012-26
Date Collected: 01/24/19 13:10
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	1.8	0.30	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Arsenic	3.1	J	3.6	0.31	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Barium	54		1.8	0.26	mg/Kg		01/31/19 18:52	02/08/19 12:45	4
Beryllium	ND		0.36	0.12	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Cadmium	0.93		0.45	0.045	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Chromium	17	B	1.8	0.19	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Cobalt	3.7		0.72	0.072	mg/Kg		01/31/19 18:52	02/08/19 12:45	4
Copper	83		5.4	2.6	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Lead	190	^	1.8	0.38	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Molybdenum	1.1	J	1.8	0.23	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Nickel	10		1.8	0.18	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Selenium	ND		3.6	0.54	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Silver	0.28	J	0.90	0.18	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Thallium	ND		1.8	0.52	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Vanadium	36		1.8	0.25	mg/Kg		01/31/19 18:52	02/05/19 22:55	4
Zinc	110		5.4	2.3	mg/Kg		01/31/19 18:52	02/05/19 22:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.095		0.016	0.0024	mg/Kg		02/04/19 15:42	02/04/19 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.8		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AA14S-3.5-4
Lab Sample ID: 720-91012-27
Date Collected: 01/24/19 13:10
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.7	0.28	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Arsenic	4.0		3.4	0.29	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Barium	57		1.7	0.24	mg/Kg		01/31/19 18:52	02/08/19 12:50	4
Beryllium	ND		0.34	0.11	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Cadmium	0.63		0.42	0.042	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Chromium	21	B	1.7	0.18	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Cobalt	5.4		0.67	0.067	mg/Kg		01/31/19 18:52	02/08/19 12:50	4
Copper	130		5.0	2.4	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Lead	220	^	1.7	0.35	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Molybdenum	0.89	J	1.7	0.22	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Nickel	15		1.7	0.17	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Selenium	0.50	J	3.4	0.50	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Silver	0.25	J	0.84	0.17	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Thallium	ND		1.7	0.49	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Vanadium	49		1.7	0.23	mg/Kg		01/31/19 18:52	02/05/19 23:00	4
Zinc	150		5.0	2.1	mg/Kg		01/31/19 18:52	02/05/19 23:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.32		0.016	0.0023	mg/Kg		02/04/19 15:42	02/04/19 19:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.8		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-AA13S-0.5-1

Date Collected: 01/24/19 13:20
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9		1.3	0.21	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Arsenic	1.6	J	2.5	0.22	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Barium	27		1.3	0.18	mg/Kg		01/31/19 18:52	02/08/19 13:04	4
Beryllium	ND		0.25	0.083	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Cadmium	0.34		0.32	0.032	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Chromium	11	B	1.3	0.14	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Cobalt	7.7		0.51	0.051	mg/Kg		01/31/19 18:52	02/08/19 13:04	4
Copper	200		3.8	1.8	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Lead	150	^	1.3	0.27	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Molybdenum	ND		1.3	0.16	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Nickel	11		1.3	0.13	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Selenium	0.39	J	2.5	0.38	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Silver	ND		0.64	0.13	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Thallium	1.0	J	1.3	0.37	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Vanadium	75		1.3	0.17	mg/Kg		01/31/19 18:52	02/05/19 23:05	4
Zinc	49		3.8	1.6	mg/Kg		01/31/19 18:52	02/05/19 23:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.015	0.0022	mg/Kg		02/04/19 15:42	02/04/19 19:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AA13S-3.5-4
Lab Sample ID: 720-91012-29
Date Collected: 01/24/19 13:20
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J B	1.7	0.28	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Arsenic	1.8	J	3.3	0.28	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Barium	14	B	1.7	0.24	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Beryllium	ND		0.33	0.11	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Cadmium	0.21	J	0.42	0.041	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Chromium	9.6		1.7	0.18	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Cobalt	17		0.67	0.067	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Copper	89		5.0	2.4	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Lead	31		1.7	0.35	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Molybdenum	ND		1.7	0.21	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Nickel	8.2		1.7	0.17	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Selenium	ND		3.3	0.50	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Silver	ND		0.83	0.17	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Thallium	ND		1.7	0.48	mg/Kg		02/01/19 17:30	02/05/19 13:09	4
Vanadium	100		1.7	0.23	mg/Kg		02/01/19 17:30	02/02/19 18:50	4
Zinc	57	B	5.0	2.1	mg/Kg		02/01/19 17:30	02/02/19 18:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.016	0.0024	mg/Kg		02/04/19 15:42	02/04/19 19:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-AC13S-0.5-1

Lab Sample ID: 720-91012-30

Date Collected: 01/24/19 13:40
Date Received: 01/24/19 18:35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.94	J B	1.2	0.20	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Arsenic	2.8		2.4	0.20	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Barium	42	B	1.2	0.17	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Beryllium	ND		0.24	0.078	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Cadmium	0.31		0.30	0.030	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Chromium	20		1.2	0.13	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Cobalt	5.5		0.48	0.048	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Copper	87		3.6	1.7	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Lead	150		1.2	0.25	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Molybdenum	4.4		1.2	0.15	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Nickel	150		1.2	0.12	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Selenium	0.64	J	2.4	0.36	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Silver	ND		0.60	0.12	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Thallium	ND	^	1.2	0.35	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Vanadium	180		1.2	0.16	mg/Kg		02/01/19 17:30	02/02/19 18:55	4
Zinc	81	B	3.6	1.5	mg/Kg		02/01/19 17:30	02/02/19 18:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.094		0.015	0.0021	mg/Kg		02/04/19 15:42	02/05/19 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.2		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AC13S-3.5-4
Lab Sample ID: 720-91012-31
Date Collected: 01/24/19 13:40
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J B	1.5	0.26	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Arsenic	1.4	J	3.1	0.26	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Barium	44	B	1.5	0.22	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Beryllium	ND		0.31	0.10	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Cadmium	0.082	J	0.38	0.038	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Chromium	5.5		1.5	0.16	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Cobalt	6.0		0.62	0.062	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Copper	39		4.6	2.2	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Lead	61		1.5	0.32	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Molybdenum	0.63	J	1.5	0.20	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Nickel	150		1.5	0.16	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Selenium	ND		3.1	0.46	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Silver	ND		0.77	0.16	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Thallium	ND	^	1.5	0.45	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Vanadium	180		1.5	0.21	mg/Kg		02/01/19 17:30	02/02/19 19:00	4
Zinc	18	B	4.6	2.0	mg/Kg		02/01/19 17:30	02/02/19 19:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0089	J	0.014	0.0021	mg/Kg		02/04/19 15:42	02/05/19 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.3		0.1	0.05	%			02/01/19 13:49	1

Client Sample ID: DG-AC14S-0.5-1 Lab Sample ID: 720-91012-32

Date Collected: 01/24/19 14:05 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5	B	1.7	0.28	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Arsenic	5.4		3.3	0.28	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Barium	49	B	1.7	0.24	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Beryllium	ND		0.33	0.11	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Cadmium	1.3		0.42	0.041	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Chromium	27		1.7	0.18	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Cobalt	3.9		0.67	0.067	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Copper	130		5.0	2.4	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Lead	310		1.7	0.35	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Molybdenum	3.7		1.7	0.21	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Nickel	21		1.7	0.17	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Selenium	1.1	J	3.3	0.50	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Silver	0.62	J B	0.83	0.17	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Thallium	ND	^	1.7	0.48	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Vanadium	22		1.7	0.23	mg/Kg		02/01/19 17:30	02/02/19 19:14	4
Zinc	140	B	5.0	2.1	mg/Kg		02/01/19 17:30	02/02/19 19:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.016	0.0024	mg/Kg		02/04/19 15:42	02/05/19 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		0.1	0.05	%			02/01/19 13:49	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AC14S-3.5-4
Lab Sample ID: 720-91012-33
Date Collected: 01/24/19 14:05
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	B	1.3	0.21	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Arsenic	8.1		2.5	0.21	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Barium	51	B	1.3	0.18	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Beryllium	ND		0.25	0.081	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Cadmium	0.57		0.31	0.031	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Chromium	27		1.3	0.13	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Cobalt	9.0		0.50	0.050	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Copper	160		3.8	1.8	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Lead	370		1.3	0.26	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Molybdenum	1.2	J	1.3	0.16	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Nickel	110		1.3	0.13	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Selenium	ND		2.5	0.38	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Silver	ND		0.63	0.13	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Thallium	ND	^	1.3	0.36	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Vanadium	99		1.3	0.17	mg/Kg		02/01/19 17:30	02/02/19 19:19	4
Zinc	76	B	3.8	1.6	mg/Kg		02/01/19 17:30	02/02/19 19:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.015	0.0022	mg/Kg		02/04/19 15:42	02/05/19 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.3		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Y16S-0.5-1
Lab Sample ID: 720-91012-34
Date Collected: 01/24/19 14:10
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	B	1.6	0.27	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Arsenic	5.4		3.3	0.28	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Barium	60	B	1.6	0.23	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Beryllium	0.17	J	0.33	0.11	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Cadmium	0.65		0.41	0.040	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Chromium	31		1.6	0.17	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Cobalt	6.7		0.65	0.065	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Copper	220		4.9	2.3	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Lead	230		1.6	0.34	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Molybdenum	0.60	J	1.6	0.21	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Nickel	52		1.6	0.17	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Selenium	0.84	J	3.3	0.49	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Silver	ND		0.81	0.16	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Thallium	ND	^	1.6	0.47	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Vanadium	65		1.6	0.22	mg/Kg		02/01/19 17:30	02/02/19 19:24	4
Zinc	170	B	4.9	2.1	mg/Kg		02/01/19 17:30	02/02/19 19:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.085		0.017	0.0025	mg/Kg		02/04/19 15:42	02/05/19 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-Y16S-3.5-4

Date Collected: 01/24/19 14:10
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	16	B	1.6	0.26	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Arsenic	61		3.1	0.27	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Barium	110	B	1.6	0.22	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Beryllium	0.13	J	0.31	0.10	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Cadmium	0.94		0.39	0.039	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Chromium	21		1.6	0.17	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Cobalt	12		0.63	0.063	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Copper	430		4.7	2.2	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Lead	2100		1.6	0.33	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Molybdenum	0.39	J	1.6	0.20	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Nickel	56		1.6	0.16	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Selenium	ND		3.1	0.47	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Silver	0.19	J B	0.79	0.16	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Thallium	ND	^	1.6	0.46	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Vanadium	70		1.6	0.21	mg/Kg		02/01/19 17:30	02/02/19 19:29	4
Zinc	220	B	4.7	2.0	mg/Kg		02/01/19 17:30	02/02/19 19:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.015	0.0022	mg/Kg		02/04/19 15:42	02/05/19 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.2		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DUP-116

Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1	B	1.8	0.29	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Arsenic	4.9		3.5	0.30	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Barium	66	B	1.8	0.25	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Beryllium	ND		0.35	0.11	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Cadmium	0.61		0.44	0.044	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Chromium	26		1.8	0.19	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Cobalt	7.6		0.70	0.070	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Copper	110		5.3	2.5	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Lead	200		1.8	0.37	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Molybdenum	0.91	J	1.8	0.22	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Nickel	48		1.8	0.18	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Selenium	0.64	J	3.5	0.53	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Silver	ND		0.88	0.18	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Thallium	ND	^	1.8	0.51	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Vanadium	64		1.8	0.24	mg/Kg		02/01/19 17:30	02/02/19 19:34	4
Zinc	160	B	5.3	2.2	mg/Kg		02/01/19 17:30	02/02/19 19:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.096		0.015	0.0022	mg/Kg		02/04/19 15:42	02/05/19 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-V18S-0.5-1

Date Collected: 01/24/19 14:45
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J B	1.2	0.20	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Arsenic	2.4		2.4	0.20	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Barium	52	B	1.2	0.17	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Beryllium	ND		0.24	0.078	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Cadmium	0.16	J	0.30	0.030	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Chromium	9.7		1.2	0.13	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Cobalt	5.6		0.48	0.048	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Copper	29		3.6	1.7	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Lead	22		1.2	0.25	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Molybdenum	ND		1.2	0.15	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Nickel	15		1.2	0.12	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Selenium	0.59	J	2.4	0.36	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Silver	ND		0.60	0.12	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Thallium	ND	^	1.2	0.35	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Vanadium	39		1.2	0.16	mg/Kg		02/01/19 17:30	02/02/19 19:38	4
Zinc	40	B	3.6	1.5	mg/Kg		02/01/19 17:30	02/02/19 19:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.015	0.0022	mg/Kg		02/04/19 15:42	02/05/19 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-V18S-3.5-4
Lab Sample ID: 720-91012-38
Date Collected: 01/24/19 14:45
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.18	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Arsenic	34		2.2	0.19	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Barium	33	B	1.1	0.16	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Beryllium	0.075	J	0.22	0.072	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Cadmium	0.087	J	0.28	0.028	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Chromium	8.7		1.1	0.12	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Cobalt	9.5		0.44	0.044	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Copper	97		3.3	1.6	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Lead	1.2	B	1.1	0.23	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Molybdenum	ND		1.1	0.14	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Nickel	2.8		1.1	0.11	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Selenium	ND		2.2	0.33	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Silver	ND		0.56	0.11	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Thallium	ND	^	1.1	0.32	mg/Kg		02/02/19 08:08	02/07/19 13:24	4
Vanadium	92		1.1	0.15	mg/Kg		02/02/19 08:08	02/06/19 21:22	4
Zinc	32		3.3	1.4	mg/Kg		02/02/19 08:08	02/06/19 21:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.015	0.0022	mg/Kg		02/04/19 15:42	02/05/19 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U17S-0.5-1

Date Collected: 01/24/19 14:35
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-39

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.8		1.9	0.31	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Arsenic	11		3.7	0.32	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Barium	190	B	1.9	0.27	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Beryllium	0.22	J	0.37	0.12	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Cadmium	1.2		0.47	0.046	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Chromium	35		1.9	0.20	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Cobalt	6.7		0.75	0.075	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Copper	69		5.6	2.7	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Lead	4900	B	1.9	0.39	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Molybdenum	1.0	J	1.9	0.24	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Nickel	27		1.9	0.19	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Selenium	2.0	J	3.7	0.56	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Silver	ND		0.93	0.19	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Thallium	ND	^	1.9	0.54	mg/Kg		02/02/19 08:08	02/07/19 13:29	4
Vanadium	48		1.9	0.25	mg/Kg		02/02/19 08:08	02/06/19 21:26	4
Zinc	200		5.6	2.4	mg/Kg		02/02/19 08:08	02/06/19 21:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.015	0.0022	mg/Kg		02/04/19 15:42	02/05/19 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.3		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-U17S-3.5-4
Lab Sample ID: 720-91012-40
Date Collected: 01/24/19 14:35
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.6		1.2	0.20	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Arsenic	4.4		2.4	0.20	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Barium	150	B	1.2	0.17	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Beryllium	0.50		0.24	0.077	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Cadmium	0.45		0.30	0.030	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Chromium	180		1.2	0.13	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Cobalt	24		0.48	0.048	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Copper	41		3.6	1.7	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Lead	13	B	1.2	0.25	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Molybdenum	0.30	J	1.2	0.15	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Nickel	210		1.2	0.12	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Selenium	1.9	J	2.4	0.36	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Silver	ND		0.60	0.12	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Thallium	ND	^	1.2	0.35	mg/Kg		02/02/19 08:08	02/07/19 13:33	4
Vanadium	79		1.2	0.16	mg/Kg		02/02/19 08:08	02/06/19 21:31	4
Zinc	65		3.6	1.5	mg/Kg		02/02/19 08:08	02/06/19 21:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18		0.29	0.042	mg/Kg		02/04/19 15:42	02/05/19 13:56	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			02/01/19 14:45	1

Client Sample ID: DG-U18S-0.5-1 Lab Sample ID: 720-91012-41

Date Collected: 01/24/19 15:00 **Matrix: Solid**
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6		1.5	0.25	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Arsenic	38		3.0	0.26	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Barium	78	B	1.5	0.22	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Beryllium	0.44		0.30	0.098	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Cadmium	0.73		0.38	0.038	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Chromium	60		1.5	0.16	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Cobalt	12		0.61	0.061	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Copper	52		4.5	2.2	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Lead	130	B	1.5	0.32	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Molybdenum	0.56	J	1.5	0.19	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Nickel	56		1.5	0.15	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Selenium	0.65	J	3.0	0.45	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Silver	ND		0.76	0.15	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Thallium	ND	^	1.5	0.44	mg/Kg		02/02/19 08:08	02/07/19 13:38	4
Vanadium	59		1.5	0.21	mg/Kg		02/02/19 08:08	02/06/19 21:36	4
Zinc	150		4.5	1.9	mg/Kg		02/02/19 08:08	02/06/19 21:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.32		0.016	0.0024	mg/Kg		02/04/19 15:42	02/05/19 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-U18S-3.5-4
Lab Sample ID: 720-91012-42
Date Collected: 01/24/19 15:00
Matrix: Solid
Date Received: 01/24/19 18:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.5	0.25	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Arsenic	98		3.1	0.26	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Barium	72	B	1.5	0.22	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Beryllium	0.45		0.31	0.099	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Cadmium	0.42		0.38	0.038	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Chromium	68		1.5	0.16	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Cobalt	14		0.61	0.061	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Copper	32		4.6	2.2	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Lead	35	B	1.5	0.32	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Molybdenum	ND		1.5	0.20	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Nickel	53		1.5	0.16	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Selenium	0.98	J	3.1	0.46	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Silver	ND		0.76	0.15	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Thallium	ND	^	1.5	0.44	mg/Kg		02/02/19 08:08	02/07/19 13:43	4
Vanadium	54		1.5	0.21	mg/Kg		02/02/19 08:08	02/06/19 21:41	4
Zinc	130		4.6	1.9	mg/Kg		02/02/19 08:08	02/06/19 21:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.43		0.015	0.0022	mg/Kg		02/04/19 15:42	02/05/19 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.8		0.1	0.05	%			02/01/19 14:45	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259517/1-A
Matrix: Solid
Analysis Batch: 259732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.209	J	0.50	0.083	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Arsenic	ND		1.0	0.085	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Barium	0.0931	J	0.50	0.071	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Beryllium	ND		0.10	0.033	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Cadmium	ND		0.13	0.012	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Chromium	ND		0.50	0.053	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Cobalt	ND		0.20	0.020	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Copper	ND		1.5	0.71	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Lead	ND		0.50	0.11	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Nickel	ND		0.50	0.051	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Selenium	ND		1.0	0.15	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Silver	0.141	J	0.25	0.051	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Vanadium	ND		0.50	0.068	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Zinc	ND		1.5	0.64	mg/Kg		02/01/19 17:30	02/02/19 17:29	1

Lab Sample ID: MB 720-259517/1-A
Matrix: Solid
Analysis Batch: 259834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.15	mg/Kg		02/01/19 17:30	02/05/19 11:48	1

Lab Sample ID: LCS 720-259517/2-A
Matrix: Solid
Analysis Batch: 259732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	54.1		mg/Kg		108	80 - 120
Arsenic	50.0	57.0		mg/Kg		114	80 - 120
Barium	50.0	55.6		mg/Kg		111	80 - 120
Beryllium	50.0	55.4		mg/Kg		111	80 - 120
Cadmium	50.0	56.7		mg/Kg		113	80 - 120
Chromium	50.0	57.4		mg/Kg		115	80 - 120
Cobalt	50.0	57.8		mg/Kg		116	80 - 120
Copper	50.0	56.5		mg/Kg		113	80 - 120
Lead	50.0	57.5		mg/Kg		115	80 - 120
Molybdenum	50.0	58.0		mg/Kg		116	80 - 120
Nickel	50.0	57.3		mg/Kg		115	80 - 120
Selenium	50.0	54.8		mg/Kg		110	80 - 120
Silver	25.0	27.3		mg/Kg		109	80 - 120
Vanadium	50.0	57.1		mg/Kg		114	80 - 120
Zinc	50.0	56.7		mg/Kg		113	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259517/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259834 — **Prep Batch: 259517**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	50.1		mg/Kg		100	80 - 120

Lab Sample ID: 720-91089-F-9-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259732 — **Prep Batch: 259517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.5	F1 B	38.5	9.88	F1	mg/Kg		19	75 - 125
Arsenic	9.1		38.5	50.8		mg/Kg		109	75 - 125
Barium	96	F1 B F2	38.5	308	F1	mg/Kg		552	75 - 125
Beryllium	ND		38.5	38.7		mg/Kg		100	75 - 125
Cadmium	1.2		38.5	41.1		mg/Kg		104	75 - 125
Chromium	26		38.5	71.4		mg/Kg		117	75 - 125
Cobalt	8.5		38.5	47.9		mg/Kg		103	75 - 125
Copper	140	F1	38.5	215	F1	mg/Kg		189	75 - 125
Lead	220		38.5	284	4	mg/Kg		170	75 - 125
Molybdenum	2.4		38.5	40.8		mg/Kg		100	75 - 125
Nickel	29		38.5	77.4		mg/Kg		125	75 - 125
Selenium	1.6	J	38.5	38.4		mg/Kg		96	75 - 125
Silver	0.47	J B	19.2	19.9		mg/Kg		101	75 - 125
Vanadium	52		38.5	85.6		mg/Kg		89	75 - 125
Zinc	240	B	38.5	371	4 B	mg/Kg		337	75 - 125

Lab Sample ID: 720-91089-F-9-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259834 — **Prep Batch: 259517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		38.5	34.5		mg/Kg		90	75 - 125

Lab Sample ID: 720-91089-F-9-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259732 — **Prep Batch: 259517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.5	F1 B	38.5	10.2	F1	mg/Kg		20	75 - 125	4	20
Arsenic	9.1		38.5	56.1		mg/Kg		122	75 - 125	10	20
Barium	96	F1 B F2	38.5	191	F1 F2	mg/Kg		247	75 - 125	47	20
Beryllium	ND		38.5	40.5		mg/Kg		105	75 - 125	5	20
Cadmium	1.2		38.5	42.6		mg/Kg		108	75 - 125	4	20
Chromium	26		38.5	68.9		mg/Kg		111	75 - 125	4	20
Cobalt	8.5		38.5	51.2		mg/Kg		111	75 - 125	7	20
Copper	140	F1	38.5	182		mg/Kg		103	75 - 125	17	20
Lead	220		38.5	263	4	mg/Kg		115	75 - 125	8	20
Molybdenum	2.4		38.5	43.6		mg/Kg		107	75 - 125	7	20
Nickel	29		38.5	73.4		mg/Kg		115	75 - 125	5	20
Selenium	1.6	J	38.5	40.0		mg/Kg		100	75 - 125	4	20
Silver	0.47	J B	19.2	20.7		mg/Kg		105	75 - 125	4	20
Vanadium	52		38.5	90.2		mg/Kg		101	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91089-F-9-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259732 — **Prep Batch: 259517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	240	B	38.5	342	4 B	mg/Kg		261	75 - 125	8	20

Lab Sample ID: 720-91089-F-9-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259834 — **Prep Batch: 259517**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		38.5	36.6		mg/Kg		95	75 - 125	6	20

Lab Sample ID: MB 720-259601/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259871 — **Prep Batch: 259601**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Arsenic	ND		1.0	0.085	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Barium	ND		0.50	0.071	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Beryllium	ND		0.10	0.033	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Cadmium	ND		0.13	0.012	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Chromium	0.235	J	0.50	0.053	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Cobalt	ND		0.20	0.020	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Copper	ND		1.5	0.71	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Lead	ND		0.50	0.11	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Nickel	0.113	J	0.50	0.051	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Selenium	ND		1.0	0.15	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Silver	0.0860	J	0.25	0.051	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Thallium	ND		0.50	0.15	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Vanadium	ND		0.50	0.068	mg/Kg		01/31/19 18:00	02/05/19 19:15	1
Zinc	ND		1.5	0.64	mg/Kg		01/31/19 18:00	02/05/19 19:15	1

Lab Sample ID: LCS 720-259601/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259871 — **Prep Batch: 259601**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.8		mg/Kg		102	80 - 120
Arsenic	50.0	51.3		mg/Kg		103	80 - 120
Barium	50.0	48.4		mg/Kg		97	80 - 120
Beryllium	50.0	48.4		mg/Kg		97	80 - 120
Cadmium	50.0	51.1		mg/Kg		102	80 - 120
Chromium	50.0	52.1		mg/Kg		104	80 - 120
Cobalt	50.0	50.8		mg/Kg		102	80 - 120
Copper	50.0	51.3		mg/Kg		103	80 - 120
Lead	50.0	51.9		mg/Kg		104	80 - 120
Molybdenum	50.0	50.3		mg/Kg		101	80 - 120
Nickel	50.0	51.8		mg/Kg		104	80 - 120
Selenium	50.0	49.6		mg/Kg		99	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259601/2-A
Matrix: Solid
Analysis Batch: 259871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	48.8		mg/Kg		98	80 - 120
Vanadium	50.0	50.3		mg/Kg		101	80 - 120
Zinc	50.0	50.6		mg/Kg		101	80 - 120

Lab Sample ID: 720-91011-F-21-G MS
Matrix: Solid
Analysis Batch: 259871

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.7	F1	39.7	13.1	F1	mg/Kg		29	75 - 125
Arsenic	9.2		39.7	50.4		mg/Kg		104	75 - 125
Barium	98	F1	39.7	159	F1	mg/Kg		153	75 - 125
Beryllium	0.59		39.7	44.3		mg/Kg		110	75 - 125
Cadmium	0.17	J	39.7	43.9		mg/Kg		110	75 - 125
Chromium	37	B F1	39.7	85.7		mg/Kg		123	75 - 125
Cobalt	11		39.7	55.1		mg/Kg		112	75 - 125
Copper	45	F1	39.7	87.6		mg/Kg		108	75 - 125
Lead	16		39.7	60.8		mg/Kg		114	75 - 125
Molybdenum	ND		39.7	39.7		mg/Kg		100	75 - 125
Nickel	32	B F1	39.7	79.9		mg/Kg		121	75 - 125
Selenium	0.62	J	39.7	41.6		mg/Kg		103	75 - 125
Silver	ND		19.8	21.5		mg/Kg		108	75 - 125
Thallium	ND		39.7	39.8		mg/Kg		100	75 - 125
Vanadium	40	F1	39.7	93.1	F1	mg/Kg		133	75 - 125
Zinc	110	F1	39.7	166	F1	mg/Kg		145	75 - 125

Lab Sample ID: 720-91011-F-21-H MSD
Matrix: Solid
Analysis Batch: 259871

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.7	F1	39.1	13.6	F1	mg/Kg		31	75 - 125	4	20
Arsenic	9.2		39.1	55.2		mg/Kg		118	75 - 125	9	20
Barium	98	F1	39.1	184	F1	mg/Kg		219	75 - 125	15	20
Beryllium	0.59		39.1	48.3		mg/Kg		122	75 - 125	9	20
Cadmium	0.17	J	39.1	47.3		mg/Kg		121	75 - 125	7	20
Chromium	37	B F1	39.1	94.8	F1	mg/Kg		148	75 - 125	10	20
Cobalt	11		39.1	57.9		mg/Kg		121	75 - 125	5	20
Copper	45	F1	39.1	105	F1	mg/Kg		154	75 - 125	18	20
Lead	16		39.1	63.6		mg/Kg		123	75 - 125	5	20
Molybdenum	ND		39.1	42.4		mg/Kg		109	75 - 125	7	20
Nickel	32	B F1	39.1	84.1	F1	mg/Kg		133	75 - 125	5	20
Selenium	0.62	J	39.1	45.0		mg/Kg		114	75 - 125	8	20
Silver	ND		19.5	23.4		mg/Kg		120	75 - 125	9	20
Thallium	ND		39.1	42.8		mg/Kg		109	75 - 125	7	20
Vanadium	40	F1	39.1	102	F1	mg/Kg		158	75 - 125	9	20
Zinc	110	F1	39.1	182	F1	mg/Kg		188	75 - 125	9	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91012-1 MS
Matrix: Solid
Analysis Batch: 259871

Client Sample ID: DG-U14S-0.5-1
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.57	J F2 F1	41.7	16.5	F1	mg/Kg		38	75 - 125
Arsenic	2.4	J F1 F2	41.7	41.0		mg/Kg		93	75 - 125
Barium	34	F2 F1 ^	41.7	66.5		mg/Kg		78	75 - 125
Beryllium	0.19	J ^ F1 F2	41.7	35.1		mg/Kg		84	75 - 125
Cadmium	0.062	J F1 F2	41.7	37.5		mg/Kg		90	75 - 125
Chromium	18	F2 F1 B	41.7	49.7		mg/Kg		77	75 - 125
Cobalt	6.5	F1 F2	41.7	40.5		mg/Kg		82	75 - 125
Copper	19	F2 F1	41.7	59.5		mg/Kg		97	75 - 125
Lead	21	F1 F2	41.7	51.8		mg/Kg		75	75 - 125
Molybdenum	ND	F1 F2	41.7	34.7		mg/Kg		83	75 - 125
Nickel	20	F2 F1 B	41.7	55.7		mg/Kg		85	75 - 125
Selenium	0.60	J F1 F2	41.7	36.5		mg/Kg		86	75 - 125
Silver	ND	F1 F2	20.8	16.5		mg/Kg		79	75 - 125
Thallium	ND	F1 F2	41.7	31.7		mg/Kg		76	75 - 125
Vanadium	39	F2 F1	41.7	65.5	F1	mg/Kg		64	75 - 125
Zinc	36	F2 F1	41.7	71.5		mg/Kg		84	75 - 125

Lab Sample ID: 720-91012-1 MSD
Matrix: Solid
Analysis Batch: 259871

Client Sample ID: DG-U14S-0.5-1
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.57	J F2 F1	42.0	5.72	F1 F2	mg/Kg		12	75 - 125	97	20
Arsenic	2.4	J F1 F2	42.0	17.4	F1 F2	mg/Kg		36	75 - 125	81	20
Cadmium	0.062	J F1 F2	42.0	16.2	F1 F2	mg/Kg		38	75 - 125	80	20
Chromium	18	F2 F1 B	42.0	22.7	F1 F2	mg/Kg		12	75 - 125	75	20
Cobalt	6.5	F1 F2	42.0	17.4	F1 F2	mg/Kg		26	75 - 125	79	20
Copper	19	F2 F1	42.0	22.8	F1 F2	mg/Kg		9	75 - 125	89	20
Lead	21	F1 F2	42.0	26.3	F1 F2	mg/Kg		13	75 - 125	65	20
Molybdenum	ND	F1 F2	42.0	14.6	F1 F2	mg/Kg		35	75 - 125	82	20
Nickel	20	F2 F1 B	42.0	23.8	F1 F2	mg/Kg		8	75 - 125	80	20
Selenium	0.60	J F1 F2	42.0	16.0	F1 F2	mg/Kg		37	75 - 125	78	20
Silver	ND	F1 F2	21.0	7.77	F1 F2	mg/Kg		37	75 - 125	72	20
Thallium	ND	F1 F2	42.0	13.6	F1 F2	mg/Kg		32	75 - 125	80	20
Vanadium	39	F2 F1	42.0	30.6	F1 F2	mg/Kg		-20	75 - 125	73	20
Zinc	36	F2 F1	42.0	32.7	F1 F2	mg/Kg		-9	75 - 125	74	20

Lab Sample ID: 720-91012-1 MSD
Matrix: Solid
Analysis Batch: 259972

Client Sample ID: DG-U14S-0.5-1
Prep Type: Total/NA
Prep Batch: 259601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	28	F2 F1	42.0	27.6	F2 F1	mg/Kg		-0.4	75 - 125	83	20
Beryllium	0.21	J F2 F1 ^	42.0	13.3	^ F2 F1	mg/Kg		31	75 - 125	90	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259604/1-A
Matrix: Solid
Analysis Batch: 259876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Arsenic	ND		1.0	0.085	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Beryllium	ND		0.10	0.033	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Cadmium	ND		0.13	0.012	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Chromium	0.223	J	0.50	0.053	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Cobalt	ND		0.20	0.020	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Copper	ND		1.5	0.71	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Lead	ND		0.50	0.11	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Nickel	ND		0.50	0.051	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Selenium	ND		1.0	0.15	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Silver	ND		0.25	0.051	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Thallium	ND		0.50	0.15	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Vanadium	ND		0.50	0.068	mg/Kg		01/31/19 18:52	02/05/19 20:41	1
Zinc	ND		1.5	0.64	mg/Kg		01/31/19 18:52	02/05/19 20:41	1

Lab Sample ID: MB 720-259604/1-A
Matrix: Solid
Analysis Batch: 260055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.50	0.071	mg/Kg		01/31/19 18:52	02/08/19 09:53	1

Lab Sample ID: LCS 720-259604/2-A
Matrix: Solid
Analysis Batch: 259876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.7		mg/Kg		99	80 - 120
Arsenic	50.0	48.0		mg/Kg		96	80 - 120
Beryllium	50.0	50.6		mg/Kg		101	80 - 120
Cadmium	50.0	52.1		mg/Kg		104	80 - 120
Chromium	50.0	51.4		mg/Kg		103	80 - 120
Cobalt	50.0	53.9		mg/Kg		108	80 - 120
Copper	50.0	51.4		mg/Kg		103	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Molybdenum	50.0	49.8		mg/Kg		100	80 - 120
Nickel	50.0	50.2		mg/Kg		100	80 - 120
Selenium	50.0	48.9		mg/Kg		98	80 - 120
Silver	25.0	22.2		mg/Kg		89	80 - 120
Thallium	50.0	51.3		mg/Kg		103	80 - 120
Vanadium	50.0	48.9		mg/Kg		98	80 - 120
Zinc	50.0	50.7		mg/Kg		101	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259604/2-A
Matrix: Solid
Analysis Batch: 260055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259604

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Barium			50.0	49.9		mg/Kg		100	80 - 120		

Lab Sample ID: 720-91012-8 MS
Matrix: Solid
Analysis Batch: 259876

Client Sample ID: DG-W17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony	2.9	F1	49.0	18.9	F1	mg/Kg		33	75 - 125		
Arsenic	9.9		49.0	64.6		mg/Kg		112	75 - 125		
Beryllium	0.38	J F1	49.0	62.6	F1	mg/Kg		127	75 - 125		
Cadmium	1.1		49.0	56.4		mg/Kg		113	75 - 125		
Chromium	33	F1 B F2	49.0	98.9	F1	mg/Kg		135	75 - 125		
Cobalt	10		49.0	67.7		mg/Kg		118	75 - 125		
Copper	130	F1 F2	49.0	202	F1	mg/Kg		149	75 - 125		
Lead	190	F1	49.0	254	F1	mg/Kg		137	75 - 125		
Molybdenum	0.76	J	49.0	53.0		mg/Kg		107	75 - 125		
Nickel	32	F1	49.0	99.9	F1	mg/Kg		139	75 - 125		
Selenium	1.1	J	49.0	52.1		mg/Kg		104	75 - 125		
Silver	0.54	J	24.5	27.1		mg/Kg		108	75 - 125		
Thallium	ND		49.0	53.1		mg/Kg		108	75 - 125		
Vanadium	40	F1	49.0	112	F1	mg/Kg		147	75 - 125		
Zinc	230		49.0	351	4	mg/Kg		251	75 - 125		

Lab Sample ID: 720-91012-8 MS
Matrix: Solid
Analysis Batch: 260055

Client Sample ID: DG-W17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Barium	280		49.0	336	4	mg/Kg		123	75 - 125		

Lab Sample ID: 720-91012-8 MSD
Matrix: Solid
Analysis Batch: 259876

Client Sample ID: DG-W17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.9	F1	50.0	19.5	F1	mg/Kg		33	75 - 125	3	20
Arsenic	9.9		50.0	68.8		mg/Kg		118	75 - 125	6	20
Beryllium	0.38	J F1	50.0	60.8		mg/Kg		121	75 - 125	3	20
Cadmium	1.1		50.0	58.0		mg/Kg		114	75 - 125	3	20
Chromium	33	F1 B F2	50.0	153	F1 F2	mg/Kg		241	75 - 125	43	20
Cobalt	10		50.0	72.2		mg/Kg		124	75 - 125	6	20
Copper	130	F1 F2	50.0	250	F1 F2	mg/Kg		243	75 - 125	21	20
Lead	190	F1	50.0	302	F1	mg/Kg		229	75 - 125	17	20
Molybdenum	0.76	J	50.0	53.4		mg/Kg		105	75 - 125	1	20
Nickel	32	F1	50.0	107	F1	mg/Kg		150	75 - 125	7	20
Selenium	1.1	J	50.0	54.0		mg/Kg		106	75 - 125	4	20
Silver	0.54	J	25.0	29.4		mg/Kg		115	75 - 125	8	20
Thallium	ND		50.0	52.2		mg/Kg		104	75 - 125	2	20
Vanadium	40	F1	50.0	118	F1	mg/Kg		157	75 - 125	6	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91012-8 MSD
Matrix: Solid
Analysis Batch: 259876

Client Sample ID: DG-W17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	230		50.0	373	4	mg/Kg		290	75 - 125	6	20

Lab Sample ID: 720-91012-8 MSD
Matrix: Solid
Analysis Batch: 260055

Client Sample ID: DG-W17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	280		50.0	319	4	mg/Kg		88	75 - 125	5	20

Lab Sample ID: 720-91012-15 MS
Matrix: Solid
Analysis Batch: 259876

Client Sample ID: DG-W18S-3.5-4
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.85	J F1	48.5	14.1	F1	mg/Kg		27	75 - 125
Arsenic	0.54	J	48.5	52.8		mg/Kg		108	75 - 125
Beryllium	ND		48.5	58.2		mg/Kg		120	75 - 125
Cadmium	0.43	J	48.5	57.7		mg/Kg		118	75 - 125
Chromium	14	B	48.5	70.2		mg/Kg		116	75 - 125
Cobalt	17		48.5	73.7		mg/Kg		116	75 - 125
Copper	120		48.5	176		mg/Kg		113	75 - 125
Lead	4.4		48.5	58.3		mg/Kg		111	75 - 125
Molybdenum	ND		48.5	51.4		mg/Kg		106	75 - 125
Nickel	7.0		48.5	61.3		mg/Kg		112	75 - 125
Selenium	ND		48.5	54.7		mg/Kg		113	75 - 125
Silver	0.23	J	24.3	27.8		mg/Kg		113	75 - 125
Thallium	1.6	J	48.5	53.9		mg/Kg		108	75 - 125
Vanadium	110		48.5	168		mg/Kg		122	75 - 125
Zinc	55		48.5	110		mg/Kg		114	75 - 125

Lab Sample ID: 720-91012-15 MS
Matrix: Solid
Analysis Batch: 260055

Client Sample ID: DG-W18S-3.5-4
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	11		48.5	61.6		mg/Kg		105	75 - 125

Lab Sample ID: 720-91012-15 MSD
Matrix: Solid
Analysis Batch: 259876

Client Sample ID: DG-W18S-3.5-4
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.85	J F1	49.5	14.2	F1	mg/Kg		27	75 - 125	0	20
Arsenic	0.54	J	49.5	53.9		mg/Kg		108	75 - 125	2	20
Beryllium	ND		49.5	56.8		mg/Kg		115	75 - 125	2	20
Cadmium	0.43	J	49.5	58.9		mg/Kg		118	75 - 125	2	20
Chromium	14	B	49.5	68.9		mg/Kg		111	75 - 125	2	20
Cobalt	17		49.5	75.7		mg/Kg		118	75 - 125	3	20
Copper	120		49.5	168		mg/Kg		95	75 - 125	4	20
Lead	4.4		49.5	57.5		mg/Kg		107	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91012-15 MSD **Client Sample ID: DG-W18S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259876 **Prep Batch: 259604**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	ND		49.5	52.2		mg/Kg		105	75 - 125	2	20
Nickel	7.0		49.5	61.6		mg/Kg		110	75 - 125	1	20
Selenium	ND		49.5	55.4		mg/Kg		112	75 - 125	1	20
Silver	0.23	J	24.8	27.7		mg/Kg		111	75 - 125	0	20
Thallium	1.6	J	49.5	55.0		mg/Kg		108	75 - 125	2	20
Vanadium	110		49.5	165		mg/Kg		114	75 - 125	2	20
Zinc	55		49.5	112		mg/Kg		115	75 - 125	2	20

Lab Sample ID: 720-91012-15 MSD **Client Sample ID: DG-W18S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260055 **Prep Batch: 259604**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	11		49.5	62.2		mg/Kg		104	75 - 125	1	20

Lab Sample ID: MB 720-259629/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259950 **Prep Batch: 259629**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Arsenic	ND		1.0	0.085	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Barium	0.143	J	0.50	0.071	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Beryllium	ND		0.10	0.033	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Cadmium	ND		0.13	0.012	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Chromium	ND		0.50	0.053	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Cobalt	ND		0.20	0.020	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Copper	ND		1.5	0.71	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Lead	0.222	J	0.50	0.11	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Nickel	ND		0.50	0.051	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Selenium	ND		1.0	0.15	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Silver	ND		0.25	0.051	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Thallium	ND		0.50	0.15	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Vanadium	ND		0.50	0.068	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Zinc	ND		1.5	0.64	mg/Kg		02/02/19 08:08	02/06/19 20:39	1

Lab Sample ID: LCS 720-259629/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259950 **Prep Batch: 259629**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.6		mg/Kg		99	80 - 120
Arsenic	50.0	48.9		mg/Kg		98	80 - 120
Barium	50.0	49.8		mg/Kg		100	80 - 120
Beryllium	50.0	46.6		mg/Kg		93	80 - 120
Cadmium	50.0	50.7		mg/Kg		101	80 - 120
Chromium	50.0	51.0		mg/Kg		102	80 - 120
Cobalt	50.0	51.5		mg/Kg		103	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259629/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 259950
Prep Batch: 259629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	50.0	51.8		mg/Kg		104	80 - 120
Lead	50.0	51.5		mg/Kg		103	80 - 120
Molybdenum	50.0	50.2		mg/Kg		100	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	50.0	49.0		mg/Kg		98	80 - 120
Silver	25.0	25.2		mg/Kg		101	80 - 120
Thallium	50.0	50.8		mg/Kg		102	80 - 120
Vanadium	50.0	50.8		mg/Kg		102	80 - 120
Zinc	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: 720-91012-16 MS
Client Sample ID: DG-Z16S-0.5-1
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 259950
Prep Batch: 259629

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.9	F1 F2	36.5	15.6	F1	mg/Kg		29	75 - 125
Arsenic	3.6		36.5	47.0		mg/Kg		119	75 - 125
Barium	39	B F1	36.5	102	F1	mg/Kg		173	75 - 125
Beryllium	0.23	J	36.5	45.3		mg/Kg		123	75 - 125
Cadmium	0.79		36.5	45.2		mg/Kg		122	75 - 125
Chromium	49	F1	36.5	127	F1	mg/Kg		213	75 - 125
Cobalt	6.1	F1	36.5	52.5	F1	mg/Kg		127	75 - 125
Copper	160		36.5	228	4	mg/Kg		181	75 - 125
Lead	800	B F2	36.5	823	4	mg/Kg		70	75 - 125
Molybdenum	0.88	J	36.5	43.0		mg/Kg		115	75 - 125
Nickel	43	F1	36.5	95.3	F1	mg/Kg		143	75 - 125
Selenium	1.5	J	36.5	43.4		mg/Kg		115	75 - 125
Silver	ND		18.2	21.3		mg/Kg		117	75 - 125
Thallium	27	F1	36.5	81.3	F1	mg/Kg		149	75 - 125
Vanadium	67	F1	36.5	140	F1	mg/Kg		200	75 - 125
Zinc	120	F1	36.5	206	F1	mg/Kg		229	75 - 125

Lab Sample ID: 720-91012-16 MSD
Client Sample ID: DG-Z16S-0.5-1
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 259950
Prep Batch: 259629

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.9	F1 F2	36.8	290	F1 F2	mg/Kg		775	75 - 125	180	20
Arsenic	3.6		36.8	46.2		mg/Kg		116	75 - 125	2	20
Barium	39	B F1	36.8	93.2	F1	mg/Kg		147	75 - 125	9	20
Beryllium	0.23	J	36.8	44.9		mg/Kg		122	75 - 125	1	20
Cadmium	0.79		36.8	45.3		mg/Kg		121	75 - 125	0	20
Chromium	49	F1	36.8	109	F1	mg/Kg		162	75 - 125	15	20
Cobalt	6.1	F1	36.8	53.2	F1	mg/Kg		128	75 - 125	1	20
Copper	160		36.8	247	4	mg/Kg		233	75 - 125	8	20
Lead	800	B F2	36.8	3860	4 F2	mg/Kg		8333	75 - 125	130	20
Molybdenum	0.88	J	36.8	40.9		mg/Kg		109	75 - 125	5	20
Nickel	43	F1	36.8	98.2	F1	mg/Kg		150	75 - 125	3	20
Selenium	1.5	J	36.8	42.7		mg/Kg		112	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91012-16 MSD — **Client Sample ID: DG-Z16S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259950 — **Prep Batch: 259629**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		18.4	22.0		mg/Kg		120	75 - 125	3	20
Thallium	27	F1	36.8	75.2	F1	mg/Kg		132	75 - 125	8	20
Vanadium	67	F1	36.8	127	F1	mg/Kg		162	75 - 125	10	20
Zinc	120	F1	36.8	208	F1	mg/Kg		233	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259580/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259898 — **Prep Batch: 259580**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00268	J	0.017	0.0025	mg/Kg		02/05/19 16:16	02/05/19 18:45	1

Lab Sample ID: LCS 720-259580/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259898 — **Prep Batch: 259580**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.830		mg/Kg		100	80 - 120

Lab Sample ID: 720-91012-1 MS — **Client Sample ID: DG-U14S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259898 — **Prep Batch: 259580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.045	B	0.781	0.888		mg/Kg		108	75 - 125

Lab Sample ID: 720-91012-1 MSD — **Client Sample ID: DG-U14S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259898 — **Prep Batch: 259580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.045	B	0.758	0.836		mg/Kg		104	75 - 125	6	20

Lab Sample ID: MB 720-259590/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259815 — **Prep Batch: 259590**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/04/19 15:42	02/04/19 18:56	1

Lab Sample ID: LCS 720-259590/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259815 — **Prep Batch: 259590**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.831		mg/Kg		100	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91012-8 MS
Matrix: Solid
Analysis Batch: 259817

Client Sample ID: DG-W17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.8	F1	0.820	3.11	F1	mg/Kg		155	75 - 125

Lab Sample ID: 720-91012-8 MSD
Matrix: Solid
Analysis Batch: 259817

Client Sample ID: DG-W17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	1.8	F1	0.833	3.36	F1	mg/Kg		182	75 - 125	8	20

Lab Sample ID: 720-91012-15 MS
Matrix: Solid
Analysis Batch: 259815

Client Sample ID: DG-W18S-3.5-4
Prep Type: Total/NA
Prep Batch: 259590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.025		0.806	0.847		mg/Kg		102	75 - 125

Lab Sample ID: 720-91012-15 MSD
Matrix: Solid
Analysis Batch: 259815

Client Sample ID: DG-W18S-3.5-4
Prep Type: Total/NA
Prep Batch: 259590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.025		0.820	0.856		mg/Kg		101	75 - 125	1	20

Lab Sample ID: MB 720-259627/1-A
Matrix: Solid
Analysis Batch: 259845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/04/19 15:42	02/05/19 12:15	1

Lab Sample ID: LCS 720-259627/2-A
Matrix: Solid
Analysis Batch: 259845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.820		mg/Kg		98	80 - 120

Lab Sample ID: 720-91012-16 MS
Matrix: Solid
Analysis Batch: 259845

Client Sample ID: DG-Z16S-0.5-1
Prep Type: Total/NA
Prep Batch: 259627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.27		0.820	1.13		mg/Kg		105	75 - 125

Lab Sample ID: 720-91012-16 MSD
Matrix: Solid
Analysis Batch: 259845

Client Sample ID: DG-Z16S-0.5-1
Prep Type: Total/NA
Prep Batch: 259627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.27		0.833	1.08		mg/Kg		97	75 - 125	5	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91087-A-41 DU **Client Sample ID: Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259646

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	15.0			14.8		%				2	20

Lab Sample ID: 720-91012-14 DU **Client Sample ID: DG-W18S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259664

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.3			12.6		%				10	20

Lab Sample ID: 720-91098-E-1 DU **Client Sample ID: Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259676

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	17.3			14.4		%				19	20

Metals

Prep Batch: 259517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-29	DG-AA13S-3.5-4	Total/NA	Solid	3050B	
720-91012-30	DG-AC13S-0.5-1	Total/NA	Solid	3050B	
720-91012-31	DG-AC13S-3.5-4	Total/NA	Solid	3050B	
720-91012-32	DG-AC14S-0.5-1	Total/NA	Solid	3050B	
720-91012-33	DG-AC14S-3.5-4	Total/NA	Solid	3050B	
720-91012-34	DG-Y16S-0.5-1	Total/NA	Solid	3050B	
720-91012-35	DG-Y16S-3.5-4	Total/NA	Solid	3050B	
720-91012-36	DUP-116	Total/NA	Solid	3050B	
720-91012-37	DG-V18S-0.5-1	Total/NA	Solid	3050B	
MB 720-259517/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259517/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91089-F-9-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-91089-F-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-1	DG-U14S-0.5-1	Total/NA	Solid	7471A	
720-91012-2	DG-U14S-3.5-4	Total/NA	Solid	7471A	
720-91012-3	DG-U16S-0.5-1	Total/NA	Solid	7471A	
720-91012-4	DG-U16S-3.5-4	Total/NA	Solid	7471A	
720-91012-5	DG-V16S-0.5-1	Total/NA	Solid	7471A	
720-91012-6	DG-T16S-0.5-1	Total/NA	Solid	7471A	
720-91012-7	DG-T16S-3.5-4	Total/NA	Solid	7471A	
720-91012-9	DG-W17S-3.5-4	Total/NA	Solid	7471A	
720-91012-10	DG-X18S-0.5-1	Total/NA	Solid	7471A	
720-91012-11	DUP-128	Total/NA	Solid	7471A	
720-91012-12	DUP-99	Total/NA	Solid	7471A	
720-91012-13	DG-X18S-3.5-4	Total/NA	Solid	7471A	
720-91012-14	DG-W18S-0.5-1	Total/NA	Solid	7471A	
720-91012-17	DG-Z16S-3.5-4	Total/NA	Solid	7471A	
720-91012-18	DG-Z15S-0.5-1	Total/NA	Solid	7471A	
MB 720-259580/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259580/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91012-1 MS	DG-U14S-0.5-1	Total/NA	Solid	7471A	
720-91012-1 MSD	DG-U14S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-8	DG-W17S-0.5-1	Total/NA	Solid	7471A	
720-91012-15	DG-W18S-3.5-4	Total/NA	Solid	7471A	
720-91012-19	DG-Z15S-3.5-4	Total/NA	Solid	7471A	
720-91012-20	DG-Z14S-0.5-1	Total/NA	Solid	7471A	
720-91012-21	DG-Z14S-3.5-4	Total/NA	Solid	7471A	
720-91012-22	DG-AA16S-0.5-1	Total/NA	Solid	7471A	
720-91012-23	DUP-117	Total/NA	Solid	7471A	
720-91012-24	DUP-126	Total/NA	Solid	7471A	
720-91012-25	DG-AA16S-3.5-4	Total/NA	Solid	7471A	
720-91012-26	DG-AA14S-0.5-1	Total/NA	Solid	7471A	
720-91012-27	DG-AA14S-3.5-4	Total/NA	Solid	7471A	
720-91012-28	DG-AA13S-0.5-1	Total/NA	Solid	7471A	
720-91012-29	DG-AA13S-3.5-4	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259590/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259590/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91012-8 MS	DG-W17S-0.5-1	Total/NA	Solid	7471A	
720-91012-8 MSD	DG-W17S-0.5-1	Total/NA	Solid	7471A	
720-91012-15 MS	DG-W18S-3.5-4	Total/NA	Solid	7471A	
720-91012-15 MSD	DG-W18S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 259601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-1	DG-U14S-0.5-1	Total/NA	Solid	3050B	
720-91012-2	DG-U14S-3.5-4	Total/NA	Solid	3050B	
720-91012-3	DG-U16S-0.5-1	Total/NA	Solid	3050B	
720-91012-4	DG-U16S-3.5-4	Total/NA	Solid	3050B	
720-91012-5	DG-V16S-0.5-1	Total/NA	Solid	3050B	
720-91012-6	DG-T16S-0.5-1	Total/NA	Solid	3050B	
720-91012-7	DG-T16S-3.5-4	Total/NA	Solid	3050B	
720-91012-9	DG-W17S-3.5-4	Total/NA	Solid	3050B	
MB 720-259601/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259601/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91011-F-21-G MS	Matrix Spike	Total/NA	Solid	3050B	
720-91011-F-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
720-91012-1 MS	DG-U14S-0.5-1	Total/NA	Solid	3050B	
720-91012-1 MSD	DG-U14S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-8	DG-W17S-0.5-1	Total/NA	Solid	3050B	
720-91012-10	DG-X18S-0.5-1	Total/NA	Solid	3050B	
720-91012-11	DUP-128	Total/NA	Solid	3050B	
720-91012-12	DUP-99	Total/NA	Solid	3050B	
720-91012-13	DG-X18S-3.5-4	Total/NA	Solid	3050B	
720-91012-14	DG-W18S-0.5-1	Total/NA	Solid	3050B	
720-91012-15	DG-W18S-3.5-4	Total/NA	Solid	3050B	
720-91012-17	DG-Z16S-3.5-4	Total/NA	Solid	3050B	
720-91012-18	DG-Z15S-0.5-1	Total/NA	Solid	3050B	
720-91012-19	DG-Z15S-3.5-4	Total/NA	Solid	3050B	
720-91012-20	DG-Z14S-0.5-1	Total/NA	Solid	3050B	
720-91012-21	DG-Z14S-3.5-4	Total/NA	Solid	3050B	
720-91012-22	DG-AA16S-0.5-1	Total/NA	Solid	3050B	
720-91012-23	DUP-117	Total/NA	Solid	3050B	
720-91012-24	DUP-126	Total/NA	Solid	3050B	
720-91012-25	DG-AA16S-3.5-4	Total/NA	Solid	3050B	
720-91012-26	DG-AA14S-0.5-1	Total/NA	Solid	3050B	
720-91012-27	DG-AA14S-3.5-4	Total/NA	Solid	3050B	
720-91012-28	DG-AA13S-0.5-1	Total/NA	Solid	3050B	
MB 720-259604/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259604/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91012-8 MS	DG-W17S-0.5-1	Total/NA	Solid	3050B	
720-91012-8 MSD	DG-W17S-0.5-1	Total/NA	Solid	3050B	
720-91012-15 MS	DG-W18S-3.5-4	Total/NA	Solid	3050B	
720-91012-15 MSD	DG-W18S-3.5-4	Total/NA	Solid	3050B	

Metals

Prep Batch: 259627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-16	DG-Z16S-0.5-1	Total/NA	Solid	7471A	
720-91012-30	DG-AC13S-0.5-1	Total/NA	Solid	7471A	
720-91012-31	DG-AC13S-3.5-4	Total/NA	Solid	7471A	
720-91012-32	DG-AC14S-0.5-1	Total/NA	Solid	7471A	
720-91012-33	DG-AC14S-3.5-4	Total/NA	Solid	7471A	
720-91012-34	DG-Y16S-0.5-1	Total/NA	Solid	7471A	
720-91012-35	DG-Y16S-3.5-4	Total/NA	Solid	7471A	
720-91012-36	DUP-116	Total/NA	Solid	7471A	
720-91012-37	DG-V18S-0.5-1	Total/NA	Solid	7471A	
720-91012-38	DG-V18S-3.5-4	Total/NA	Solid	7471A	
720-91012-39	DG-U17S-0.5-1	Total/NA	Solid	7471A	
720-91012-40	DG-U17S-3.5-4	Total/NA	Solid	7471A	
720-91012-41	DG-U18S-0.5-1	Total/NA	Solid	7471A	
720-91012-42	DG-U18S-3.5-4	Total/NA	Solid	7471A	
MB 720-259627/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259627/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91012-16 MS	DG-Z16S-0.5-1	Total/NA	Solid	7471A	
720-91012-16 MSD	DG-Z16S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-16	DG-Z16S-0.5-1	Total/NA	Solid	3050B	
720-91012-38	DG-V18S-3.5-4	Total/NA	Solid	3050B	
720-91012-39	DG-U17S-0.5-1	Total/NA	Solid	3050B	
720-91012-40	DG-U17S-3.5-4	Total/NA	Solid	3050B	
720-91012-41	DG-U18S-0.5-1	Total/NA	Solid	3050B	
720-91012-42	DG-U18S-3.5-4	Total/NA	Solid	3050B	
MB 720-259629/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259629/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91012-16 MS	DG-Z16S-0.5-1	Total/NA	Solid	3050B	
720-91012-16 MSD	DG-Z16S-0.5-1	Total/NA	Solid	3050B	

Analysis Batch: 259732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-29	DG-AA13S-3.5-4	Total/NA	Solid	6010B	259517
720-91012-30	DG-AC13S-0.5-1	Total/NA	Solid	6010B	259517
720-91012-31	DG-AC13S-3.5-4	Total/NA	Solid	6010B	259517
720-91012-32	DG-AC14S-0.5-1	Total/NA	Solid	6010B	259517
720-91012-33	DG-AC14S-3.5-4	Total/NA	Solid	6010B	259517
720-91012-34	DG-Y16S-0.5-1	Total/NA	Solid	6010B	259517
720-91012-35	DG-Y16S-3.5-4	Total/NA	Solid	6010B	259517
720-91012-36	DUP-116	Total/NA	Solid	6010B	259517
720-91012-37	DG-V18S-0.5-1	Total/NA	Solid	6010B	259517
MB 720-259517/1-A	Method Blank	Total/NA	Solid	6010B	259517
LCS 720-259517/2-A	Lab Control Sample	Total/NA	Solid	6010B	259517
720-91089-F-9-D MS	Matrix Spike	Total/NA	Solid	6010B	259517
720-91089-F-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259517

Analysis Batch: 259815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-15	DG-W18S-3.5-4	Total/NA	Solid	7471A	259590

Metals (Continued)

Analysis Batch: 259815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-19	DG-Z15S-3.5-4	Total/NA	Solid	7471A	259590
720-91012-20	DG-Z14S-0.5-1	Total/NA	Solid	7471A	259590
720-91012-21	DG-Z14S-3.5-4	Total/NA	Solid	7471A	259590
720-91012-22	DG-AA16S-0.5-1	Total/NA	Solid	7471A	259590
720-91012-23	DUP-117	Total/NA	Solid	7471A	259590
720-91012-24	DUP-126	Total/NA	Solid	7471A	259590
720-91012-25	DG-AA16S-3.5-4	Total/NA	Solid	7471A	259590
720-91012-26	DG-AA14S-0.5-1	Total/NA	Solid	7471A	259590
720-91012-27	DG-AA14S-3.5-4	Total/NA	Solid	7471A	259590
720-91012-28	DG-AA13S-0.5-1	Total/NA	Solid	7471A	259590
720-91012-29	DG-AA13S-3.5-4	Total/NA	Solid	7471A	259590
MB 720-259590/1-A	Method Blank	Total/NA	Solid	7471A	259590
LCS 720-259590/2-A	Lab Control Sample	Total/NA	Solid	7471A	259590
720-91012-15 MS	DG-W18S-3.5-4	Total/NA	Solid	7471A	259590
720-91012-15 MSD	DG-W18S-3.5-4	Total/NA	Solid	7471A	259590

Analysis Batch: 259817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-8	DG-W17S-0.5-1	Total/NA	Solid	7471A	259590
720-91012-8 MS	DG-W17S-0.5-1	Total/NA	Solid	7471A	259590
720-91012-8 MSD	DG-W17S-0.5-1	Total/NA	Solid	7471A	259590

Analysis Batch: 259834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-29	DG-AA13S-3.5-4	Total/NA	Solid	6010B	259517
MB 720-259517/1-A	Method Blank	Total/NA	Solid	6010B	259517
LCS 720-259517/2-A	Lab Control Sample	Total/NA	Solid	6010B	259517
720-91089-F-9-D MS	Matrix Spike	Total/NA	Solid	6010B	259517
720-91089-F-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259517

Analysis Batch: 259845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-16	DG-Z16S-0.5-1	Total/NA	Solid	7471A	259627
720-91012-30	DG-AC13S-0.5-1	Total/NA	Solid	7471A	259627
720-91012-31	DG-AC13S-3.5-4	Total/NA	Solid	7471A	259627
720-91012-32	DG-AC14S-0.5-1	Total/NA	Solid	7471A	259627
720-91012-33	DG-AC14S-3.5-4	Total/NA	Solid	7471A	259627
720-91012-34	DG-Y16S-0.5-1	Total/NA	Solid	7471A	259627
720-91012-35	DG-Y16S-3.5-4	Total/NA	Solid	7471A	259627
720-91012-36	DUP-116	Total/NA	Solid	7471A	259627
720-91012-37	DG-V18S-0.5-1	Total/NA	Solid	7471A	259627
720-91012-38	DG-V18S-3.5-4	Total/NA	Solid	7471A	259627
720-91012-39	DG-U17S-0.5-1	Total/NA	Solid	7471A	259627
720-91012-40	DG-U17S-3.5-4	Total/NA	Solid	7471A	259627
720-91012-41	DG-U18S-0.5-1	Total/NA	Solid	7471A	259627
720-91012-42	DG-U18S-3.5-4	Total/NA	Solid	7471A	259627
MB 720-259627/1-A	Method Blank	Total/NA	Solid	7471A	259627
LCS 720-259627/2-A	Lab Control Sample	Total/NA	Solid	7471A	259627
720-91012-16 MS	DG-Z16S-0.5-1	Total/NA	Solid	7471A	259627
720-91012-16 MSD	DG-Z16S-0.5-1	Total/NA	Solid	7471A	259627

Metals

Analysis Batch: 259871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-1	DG-U14S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-2	DG-U14S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-3	DG-U16S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-4	DG-U16S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-5	DG-V16S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-6	DG-T16S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-7	DG-T16S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-9	DG-W17S-3.5-4	Total/NA	Solid	6010B	259601
MB 720-259601/1-A	Method Blank	Total/NA	Solid	6010B	259601
LCS 720-259601/2-A	Lab Control Sample	Total/NA	Solid	6010B	259601
720-91011-F-21-G MS	Matrix Spike	Total/NA	Solid	6010B	259601
720-91011-F-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259601
720-91012-1 MS	DG-U14S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-1 MSD	DG-U14S-0.5-1	Total/NA	Solid	6010B	259601

Analysis Batch: 259876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-8	DG-W17S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-10	DG-X18S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-11	DUP-128	Total/NA	Solid	6010B	259604
720-91012-12	DUP-99	Total/NA	Solid	6010B	259604
720-91012-13	DG-X18S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-14	DG-W18S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-15	DG-W18S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-17	DG-Z16S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-18	DG-Z15S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-19	DG-Z15S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-20	DG-Z14S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-21	DG-Z14S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-22	DG-AA16S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-23	DUP-117	Total/NA	Solid	6010B	259604
720-91012-24	DUP-126	Total/NA	Solid	6010B	259604
720-91012-25	DG-AA16S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-26	DG-AA14S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-27	DG-AA14S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-28	DG-AA13S-0.5-1	Total/NA	Solid	6010B	259604
MB 720-259604/1-A	Method Blank	Total/NA	Solid	6010B	259604
LCS 720-259604/2-A	Lab Control Sample	Total/NA	Solid	6010B	259604
720-91012-8 MS	DG-W17S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-8 MSD	DG-W17S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-15 MS	DG-W18S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-15 MSD	DG-W18S-3.5-4	Total/NA	Solid	6010B	259604

Analysis Batch: 259898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-1	DG-U14S-0.5-1	Total/NA	Solid	7471A	259580
720-91012-2	DG-U14S-3.5-4	Total/NA	Solid	7471A	259580
720-91012-3	DG-U16S-0.5-1	Total/NA	Solid	7471A	259580
720-91012-4	DG-U16S-3.5-4	Total/NA	Solid	7471A	259580
720-91012-5	DG-V16S-0.5-1	Total/NA	Solid	7471A	259580
720-91012-6	DG-T16S-0.5-1	Total/NA	Solid	7471A	259580

Metals (Continued)

Analysis Batch: 259898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-7	DG-T16S-3.5-4	Total/NA	Solid	7471A	259580
MB 720-259580/1-A	Method Blank	Total/NA	Solid	7471A	259580
LCS 720-259580/2-A	Lab Control Sample	Total/NA	Solid	7471A	259580
720-91012-1 MS	DG-U14S-0.5-1	Total/NA	Solid	7471A	259580
720-91012-1 MSD	DG-U14S-0.5-1	Total/NA	Solid	7471A	259580

Analysis Batch: 259903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-9	DG-W17S-3.5-4	Total/NA	Solid	7471A	259580
720-91012-10	DG-X18S-0.5-1	Total/NA	Solid	7471A	259580
720-91012-11	DUP-128	Total/NA	Solid	7471A	259580
720-91012-12	DUP-99	Total/NA	Solid	7471A	259580
720-91012-13	DG-X18S-3.5-4	Total/NA	Solid	7471A	259580
720-91012-14	DG-W18S-0.5-1	Total/NA	Solid	7471A	259580
720-91012-17	DG-Z16S-3.5-4	Total/NA	Solid	7471A	259580
720-91012-18	DG-Z15S-0.5-1	Total/NA	Solid	7471A	259580

Analysis Batch: 259950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-16	DG-Z16S-0.5-1	Total/NA	Solid	6010B	259629
720-91012-38	DG-V18S-3.5-4	Total/NA	Solid	6010B	259629
720-91012-39	DG-U17S-0.5-1	Total/NA	Solid	6010B	259629
720-91012-40	DG-U17S-3.5-4	Total/NA	Solid	6010B	259629
720-91012-41	DG-U18S-0.5-1	Total/NA	Solid	6010B	259629
720-91012-42	DG-U18S-3.5-4	Total/NA	Solid	6010B	259629
MB 720-259629/1-A	Method Blank	Total/NA	Solid	6010B	259629
LCS 720-259629/2-A	Lab Control Sample	Total/NA	Solid	6010B	259629
720-91012-16 MS	DG-Z16S-0.5-1	Total/NA	Solid	6010B	259629
720-91012-16 MSD	DG-Z16S-0.5-1	Total/NA	Solid	6010B	259629

Analysis Batch: 259972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-1	DG-U14S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-2	DG-U14S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-3	DG-U16S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-4	DG-U16S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-5	DG-V16S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-6	DG-T16S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-7	DG-T16S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-9	DG-W17S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-1 MSD	DG-U14S-0.5-1	Total/NA	Solid	6010B	259601

Analysis Batch: 259974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-16	DG-Z16S-0.5-1	Total/NA	Solid	6010B	259629
720-91012-38	DG-V18S-3.5-4	Total/NA	Solid	6010B	259629
720-91012-39	DG-U17S-0.5-1	Total/NA	Solid	6010B	259629
720-91012-40	DG-U17S-3.5-4	Total/NA	Solid	6010B	259629
720-91012-41	DG-U18S-0.5-1	Total/NA	Solid	6010B	259629
720-91012-42	DG-U18S-3.5-4	Total/NA	Solid	6010B	259629

Metals

Analysis Batch: 259986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-1	DG-U14S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-2	DG-U14S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-3	DG-U16S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-4	DG-U16S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-5	DG-V16S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-6	DG-T16S-0.5-1	Total/NA	Solid	6010B	259601
720-91012-7	DG-T16S-3.5-4	Total/NA	Solid	6010B	259601
720-91012-9	DG-W17S-3.5-4	Total/NA	Solid	6010B	259601

Analysis Batch: 260055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-8	DG-W17S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-10	DG-X18S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-11	DUP-128	Total/NA	Solid	6010B	259604
720-91012-12	DUP-99	Total/NA	Solid	6010B	259604
720-91012-13	DG-X18S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-14	DG-W18S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-15	DG-W18S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-17	DG-Z16S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-18	DG-Z15S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-19	DG-Z15S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-20	DG-Z14S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-21	DG-Z14S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-22	DG-AA16S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-23	DUP-117	Total/NA	Solid	6010B	259604
720-91012-24	DUP-126	Total/NA	Solid	6010B	259604
720-91012-25	DG-AA16S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-26	DG-AA14S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-27	DG-AA14S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-28	DG-AA13S-0.5-1	Total/NA	Solid	6010B	259604
MB 720-259604/1-A	Method Blank	Total/NA	Solid	6010B	259604
LCS 720-259604/2-A	Lab Control Sample	Total/NA	Solid	6010B	259604
720-91012-8 MS	DG-W17S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-8 MSD	DG-W17S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-15 MS	DG-W18S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-15 MSD	DG-W18S-3.5-4	Total/NA	Solid	6010B	259604

Analysis Batch: 260070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-13	DG-X18S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-20	DG-Z14S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-21	DG-Z14S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-22	DG-AA16S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-23	DUP-117	Total/NA	Solid	6010B	259604
720-91012-24	DUP-126	Total/NA	Solid	6010B	259604

Analysis Batch: 262029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-8	DG-W17S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-10	DG-X18S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-11	DUP-128	Total/NA	Solid	6010B	259604

Metals (Continued)

Analysis Batch: 262029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-12	DUP-99	Total/NA	Solid	6010B	259604
720-91012-14	DG-W18S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-15	DG-W18S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-17	DG-Z16S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-18	DG-Z15S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-19	DG-Z15S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-20	DG-Z14S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-21	DG-Z14S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-22	DG-AA16S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-23	DUP-117	Total/NA	Solid	6010B	259604
720-91012-24	DUP-126	Total/NA	Solid	6010B	259604
720-91012-25	DG-AA16S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-26	DG-AA14S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-27	DG-AA14S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-28	DG-AA13S-0.5-1	Total/NA	Solid	6010B	259604
MB 720-259604/1-A	Method Blank	Total/NA	Solid	6010B	259604
LCS 720-259604/2-A	Lab Control Sample	Total/NA	Solid	6010B	259604
720-91012-8 MS	DG-W17S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-8 MSD	DG-W17S-0.5-1	Total/NA	Solid	6010B	259604
720-91012-15 MS	DG-W18S-3.5-4	Total/NA	Solid	6010B	259604
720-91012-15 MSD	DG-W18S-3.5-4	Total/NA	Solid	6010B	259604

General Chemistry

Analysis Batch: 259646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-1	DG-U14S-0.5-1	Total/NA	Solid	Moisture	
720-91012-2	DG-U14S-3.5-4	Total/NA	Solid	Moisture	
720-91012-3	DG-U16S-0.5-1	Total/NA	Solid	Moisture	
720-91012-4	DG-U16S-3.5-4	Total/NA	Solid	Moisture	
720-91012-5	DG-V16S-0.5-1	Total/NA	Solid	Moisture	
720-91012-6	DG-T16S-0.5-1	Total/NA	Solid	Moisture	
720-91012-7	DG-T16S-3.5-4	Total/NA	Solid	Moisture	
720-91012-8	DG-W17S-0.5-1	Total/NA	Solid	Moisture	
720-91012-9	DG-W17S-3.5-4	Total/NA	Solid	Moisture	
720-91012-10	DG-X18S-0.5-1	Total/NA	Solid	Moisture	
720-91012-11	DUP-128	Total/NA	Solid	Moisture	
720-91012-12	DUP-99	Total/NA	Solid	Moisture	
720-91012-13	DG-X18S-3.5-4	Total/NA	Solid	Moisture	
720-91087-A-41 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 259664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-14	DG-W18S-0.5-1	Total/NA	Solid	Moisture	
720-91012-15	DG-W18S-3.5-4	Total/NA	Solid	Moisture	
720-91012-16	DG-Z16S-0.5-1	Total/NA	Solid	Moisture	
720-91012-17	DG-Z16S-3.5-4	Total/NA	Solid	Moisture	
720-91012-18	DG-Z15S-0.5-1	Total/NA	Solid	Moisture	
720-91012-19	DG-Z15S-3.5-4	Total/NA	Solid	Moisture	
720-91012-20	DG-Z14S-0.5-1	Total/NA	Solid	Moisture	
720-91012-21	DG-Z14S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-22	DG-AA16S-0.5-1	Total/NA	Solid	Moisture	
720-91012-23	DUP-117	Total/NA	Solid	Moisture	
720-91012-24	DUP-126	Total/NA	Solid	Moisture	
720-91012-25	DG-AA16S-3.5-4	Total/NA	Solid	Moisture	
720-91012-26	DG-AA14S-0.5-1	Total/NA	Solid	Moisture	
720-91012-27	DG-AA14S-3.5-4	Total/NA	Solid	Moisture	
720-91012-28	DG-AA13S-0.5-1	Total/NA	Solid	Moisture	
720-91012-29	DG-AA13S-3.5-4	Total/NA	Solid	Moisture	
720-91012-30	DG-AC13S-0.5-1	Total/NA	Solid	Moisture	
720-91012-31	DG-AC13S-3.5-4	Total/NA	Solid	Moisture	
720-91012-32	DG-AC14S-0.5-1	Total/NA	Solid	Moisture	
720-91012-14 DU	DG-W18S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 259676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91012-33	DG-AC14S-3.5-4	Total/NA	Solid	Moisture	
720-91012-34	DG-Y16S-0.5-1	Total/NA	Solid	Moisture	
720-91012-35	DG-Y16S-3.5-4	Total/NA	Solid	Moisture	
720-91012-36	DUP-116	Total/NA	Solid	Moisture	
720-91012-37	DG-V18S-0.5-1	Total/NA	Solid	Moisture	
720-91012-38	DG-V18S-3.5-4	Total/NA	Solid	Moisture	
720-91012-39	DG-U17S-0.5-1	Total/NA	Solid	Moisture	
720-91012-40	DG-U17S-3.5-4	Total/NA	Solid	Moisture	
720-91012-41	DG-U18S-0.5-1	Total/NA	Solid	Moisture	
720-91012-42	DG-U18S-3.5-4	Total/NA	Solid	Moisture	
720-91098-E-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U14S-0.5-1

Lab Sample ID: 720-91012-1

Date Collected: 01/24/19 08:10

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 21:05	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259986	02/07/19 14:35	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259972	02/07/19 12:57	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 19:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-U14S-3.5-4

Lab Sample ID: 720-91012-2

Date Collected: 01/24/19 08:10

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 21:10	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259986	02/07/19 14:39	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259972	02/07/19 13:02	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 19:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-U16S-0.5-1

Lab Sample ID: 720-91012-3

Date Collected: 01/24/19 08:25

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 21:15	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259986	02/07/19 14:44	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259972	02/07/19 13:07	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 19:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U16S-3.5-4

Lab Sample ID: 720-91012-4

Date Collected: 01/24/19 08:25
Date Received: 01/24/19 18:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 21:20	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259986	02/07/19 14:49	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259972	02/07/19 13:12	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 19:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-V16S-0.5-1

Lab Sample ID: 720-91012-5

Date Collected: 01/24/19 08:45
Date Received: 01/24/19 18:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 21:25	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259986	02/07/19 14:54	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259972	02/07/19 13:16	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 19:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-T16S-0.5-1

Lab Sample ID: 720-91012-6

Date Collected: 01/24/19 09:00
Date Received: 01/24/19 18:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 21:30	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259986	02/07/19 14:59	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259972	02/07/19 13:21	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 19:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-T16S-3.5-4

Lab Sample ID: 720-91012-7

Date Collected: 01/24/19 09:00
Date Received: 01/24/19 18:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 21:34	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259986	02/07/19 15:03	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259972	02/07/19 13:26	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259898	02/05/19 19:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-W17S-0.5-1

Lab Sample ID: 720-91012-8

Date Collected: 01/24/19 09:50
Date Received: 01/24/19 18:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 21:10	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 21:10	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 10:22	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		2	259817	02/05/19 11:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-W17S-3.5-4

Lab Sample ID: 720-91012-9

Date Collected: 01/24/19 09:50
Date Received: 01/24/19 18:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259871	02/05/19 21:39	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259986	02/07/19 15:08	OBI	TAL PLS
Total/NA	Prep	3050B			259601	01/31/19 18:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259972	02/07/19 13:31	OBI	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259903	02/06/19 11:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-X18S-0.5-1

Lab Sample ID: 720-91012-10

Date Collected: 01/24/19 10:40

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 21:15	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 21:15	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 10:26	BKR	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259903	02/06/19 11:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DUP-128

Lab Sample ID: 720-91012-11

Date Collected: 01/24/19 00:00

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 21:29	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 21:29	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 10:31	BKR	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259903	02/06/19 11:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DUP-99

Lab Sample ID: 720-91012-12

Date Collected: 01/24/19 00:00

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 21:34	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 21:34	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 10:36	BKR	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259903	02/06/19 11:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-X18S-3.5-4

Lab Sample ID: 720-91012-13

Date Collected: 01/24/19 10:40

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260070	02/08/19 14:56	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 21:39	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260055	02/08/19 11:11	BKR	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259903	02/06/19 11:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-W18S-0.5-1

Lab Sample ID: 720-91012-14

Date Collected: 01/24/19 10:50

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 21:44	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 21:44	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 11:16	BKR	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259903	02/06/19 11:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-W18S-3.5-4

Lab Sample ID: 720-91012-15

Date Collected: 01/24/19 10:50

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 21:58	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 21:58	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 11:30	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Z16S-0.5-1 — Lab Sample ID: 720-91012-16

Date Collected: 01/24/19 11:15 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259974	02/07/19 13:19	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 21:17	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-Z16S-3.5-4 — Lab Sample ID: 720-91012-17

Date Collected: 01/24/19 11:15 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:03	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 22:03	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 11:35	BKR	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259903	02/06/19 11:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-Z15S-0.5-1 — Lab Sample ID: 720-91012-18

Date Collected: 01/24/19 11:35 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:08	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 22:08	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 11:39	BKR	TAL PLS
Total/NA	Prep	7471A			259580	02/05/19 16:16	SUN	TAL PLS
Total/NA	Analysis	7471A		1	259903	02/06/19 11:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-Z15S-3.5-4 — Lab Sample ID: 720-91012-19

Date Collected: 01/24/19 11:35 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:12	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Z15S-3.5-4 Lab Sample ID: 720-91012-19

Date Collected: 01/24/19 11:35 **Matrix: Solid**
Date Received: 01/24/19 18:35

Total/NA	Analysis	6010B	4	262029	02/05/19 22:12	BKR	TAL PLS
Total/NA	Prep	3050B		259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B	4	260055	02/08/19 11:44	BKR	TAL PLS
Total/NA	Prep	7471A		259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A	1	259815	02/04/19 19:16	MAG	TAL PLS
Total/NA	Analysis	Moisture	1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-Z14S-0.5-1 Lab Sample ID: 720-91012-20

Date Collected: 01/24/19 11:45 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260070	02/08/19 15:00	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:27	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 22:27	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 12:17	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-Z14S-3.5-4 Lab Sample ID: 720-91012-21

Date Collected: 01/24/19 11:45 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260070	02/08/19 15:05	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:32	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 22:32	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 12:21	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AA16S-0.5-1

Lab Sample ID: 720-91012-22

Date Collected: 01/24/19 12:05

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260070	02/08/19 15:10	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:36	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 22:36	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 12:26	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DUP-117

Lab Sample ID: 720-91012-23

Date Collected: 01/24/19 00:00

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260070	02/08/19 15:15	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:41	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 22:41	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 12:31	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DUP-126

Lab Sample ID: 720-91012-24

Date Collected: 01/24/19 00:00

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260070	02/08/19 15:19	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:46	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 22:46	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 12:36	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-AA16S-3.5-4

Lab Sample ID: 720-91012-25

Date Collected: 01/24/19 12:05

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:51	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 22:51	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260055	02/08/19 12:40	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AA14S-0.5-1

Lab Sample ID: 720-91012-26

Date Collected: 01/24/19 13:10

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 22:55	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 22:55	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 12:45	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AA14S-3.5-4

Lab Sample ID: 720-91012-27

Date Collected: 01/24/19 13:10

Matrix: Solid

Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 23:00	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 23:00	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 12:50	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AA13S-0.5-1 Lab Sample ID: 720-91012-28

Date Collected: 01/24/19 13:20 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259876	02/05/19 23:05	OBI	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262029	02/05/19 23:05	BKR	TAL PLS
Total/NA	Prep	3050B			259604	01/31/19 18:52	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260055	02/08/19 13:04	BKR	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AA13S-3.5-4 Lab Sample ID: 720-91012-29

Date Collected: 01/24/19 13:20 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 18:50	OBI	TAL PLS
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259834	02/05/19 13:09	OBI	TAL PLS
Total/NA	Prep	7471A			259590	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259815	02/04/19 19:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AC13S-0.5-1 Lab Sample ID: 720-91012-30

Date Collected: 01/24/19 13:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 18:55	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AC13S-3.5-4 Lab Sample ID: 720-91012-31

Date Collected: 01/24/19 13:40 **Matrix: Solid**
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 19:00	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-AC14S-0.5-1

Lab Sample ID: 720-91012-32

Date Collected: 01/24/19 14:05
Matrix: Solid
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 19:14	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259664	02/01/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AC14S-3.5-4

Lab Sample ID: 720-91012-33

Date Collected: 01/24/19 14:05
Matrix: Solid
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 19:19	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-Y16S-0.5-1

Lab Sample ID: 720-91012-34

Date Collected: 01/24/19 14:10
Matrix: Solid
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 19:24	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-Y16S-3.5-4

Lab Sample ID: 720-91012-35

Date Collected: 01/24/19 14:10
Matrix: Solid
Date Received: 01/24/19 18:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 19:29	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DUP-116
Date Collected: 01/24/19 00:00
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 19:34	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-V18S-0.5-1
Date Collected: 01/24/19 14:45
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 19:38	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-V18S-3.5-4
Date Collected: 01/24/19 14:45
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259974	02/07/19 13:24	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 21:22	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 12:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-U17S-0.5-1
Date Collected: 01/24/19 14:35
Date Received: 01/24/19 18:35

Lab Sample ID: 720-91012-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259974	02/07/19 13:29	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 21:26	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 13:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Client Sample ID: DG-U17S-3.5-4

Lab Sample ID: 720-91012-40

Date Collected: 01/24/19 14:35
Date Received: 01/24/19 18:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259974	02/07/19 13:33	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 21:31	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		20	259845	02/05/19 13:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-U18S-0.5-1

Lab Sample ID: 720-91012-41

Date Collected: 01/24/19 15:00
Date Received: 01/24/19 18:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259974	02/07/19 13:38	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 21:36	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 13:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-U18S-3.5-4

Lab Sample ID: 720-91012-42

Date Collected: 01/24/19 15:00
Date Received: 01/24/19 18:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259974	02/07/19 13:43	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 21:41	OBI	TAL PLS
Total/NA	Prep	7471A			259627	02/04/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259845	02/05/19 13:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91012-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91012-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91012-1	DG-U14S-0.5-1	Solid	01/24/19 08:10	01/24/19 18:35
720-91012-2	DG-U14S-3.5-4	Solid	01/24/19 08:10	01/24/19 18:35
720-91012-3	DG-U16S-0.5-1	Solid	01/24/19 08:25	01/24/19 18:35
720-91012-4	DG-U16S-3.5-4	Solid	01/24/19 08:25	01/24/19 18:35
720-91012-5	DG-V16S-0.5-1	Solid	01/24/19 08:45	01/24/19 18:35
720-91012-6	DG-T16S-0.5-1	Solid	01/24/19 09:00	01/24/19 18:35
720-91012-7	DG-T16S-3.5-4	Solid	01/24/19 09:00	01/24/19 18:35
720-91012-8	DG-W17S-0.5-1	Solid	01/24/19 09:50	01/24/19 18:35
720-91012-9	DG-W17S-3.5-4	Solid	01/24/19 09:50	01/24/19 18:35
720-91012-10	DG-X18S-0.5-1	Solid	01/24/19 10:40	01/24/19 18:35
720-91012-11	DUP-128	Solid	01/24/19 00:00	01/24/19 18:35
720-91012-12	DUP-99	Solid	01/24/19 00:00	01/24/19 18:35
720-91012-13	DG-X18S-3.5-4	Solid	01/24/19 10:40	01/24/19 18:35
720-91012-14	DG-W18S-0.5-1	Solid	01/24/19 10:50	01/24/19 18:35
720-91012-15	DG-W18S-3.5-4	Solid	01/24/19 10:50	01/24/19 18:35
720-91012-16	DG-Z16S-0.5-1	Solid	01/24/19 11:15	01/24/19 18:35
720-91012-17	DG-Z16S-3.5-4	Solid	01/24/19 11:15	01/24/19 18:35
720-91012-18	DG-Z15S-0.5-1	Solid	01/24/19 11:35	01/24/19 18:35
720-91012-19	DG-Z15S-3.5-4	Solid	01/24/19 11:35	01/24/19 18:35
720-91012-20	DG-Z14S-0.5-1	Solid	01/24/19 11:45	01/24/19 18:35
720-91012-21	DG-Z14S-3.5-4	Solid	01/24/19 11:45	01/24/19 18:35
720-91012-22	DG-AA16S-0.5-1	Solid	01/24/19 12:05	01/24/19 18:35
720-91012-23	DUP-117	Solid	01/24/19 00:00	01/24/19 18:35
720-91012-24	DUP-126	Solid	01/24/19 00:00	01/24/19 18:35
720-91012-25	DG-AA16S-3.5-4	Solid	01/24/19 12:05	01/24/19 18:35
720-91012-26	DG-AA14S-0.5-1	Solid	01/24/19 13:10	01/24/19 18:35
720-91012-27	DG-AA14S-3.5-4	Solid	01/24/19 13:10	01/24/19 18:35
720-91012-28	DG-AA13S-0.5-1	Solid	01/24/19 13:20	01/24/19 18:35
720-91012-29	DG-AA13S-3.5-4	Solid	01/24/19 13:20	01/24/19 18:35
720-91012-30	DG-AC13S-0.5-1	Solid	01/24/19 13:40	01/24/19 18:35
720-91012-31	DG-AC13S-3.5-4	Solid	01/24/19 13:40	01/24/19 18:35
720-91012-32	DG-AC14S-0.5-1	Solid	01/24/19 14:05	01/24/19 18:35
720-91012-33	DG-AC14S-3.5-4	Solid	01/24/19 14:05	01/24/19 18:35
720-91012-34	DG-Y16S-0.5-1	Solid	01/24/19 14:10	01/24/19 18:35
720-91012-35	DG-Y16S-3.5-4	Solid	01/24/19 14:10	01/24/19 18:35
720-91012-36	DUP-116	Solid	01/24/19 00:00	01/24/19 18:35
720-91012-37	DG-V18S-0.5-1	Solid	01/24/19 14:45	01/24/19 18:35
720-91012-38	DG-V18S-3.5-4	Solid	01/24/19 14:45	01/24/19 18:35
720-91012-39	DG-U17S-0.5-1	Solid	01/24/19 14:35	01/24/19 18:35
720-91012-40	DG-U17S-3.5-4	Solid	01/24/19 14:35	01/24/19 18:35
720-91012-41	DG-U18S-0.5-1	Solid	01/24/19 15:00	01/24/19 18:35
720-91012-42	DG-U18S-3.5-4	Solid	01/24/19 15:00	01/24/19 18:35

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91012

Chain of Custody Record

188098

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 24 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James-Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91012 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1 DG-U14s-0.5-1	24 Jan. 2019	0810	G	S	1	N	Y	X	
2 DG-U14s-3.5-4		0810							
3 DG-U16s-0.5-1		0825							
4 DG-U16s-3.5-4		0825							
5 DG-V16s-0.5-1		0845							
6 DG-T16s-0.5-1		0900							
7 DG-T16s-3.5-4		0900							
8 DG-W17s-0.5-1		0950					Y		
9 DG-W17s-3.5-4		0950							
10 DG-X18s-0.5-1		1040							
11 DUP-122		—							
12 DUP-99	↓	—	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company Geosyntec	Date/Time 1603 24 Jan. 2019	Received by	Company TAPCS	Date/Time 1/24/19 1603
Relinquished by	Company TAPCS	Date/Time 1624/19 1835	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/24/19 1835

3.5°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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4/7/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91012

Chain of Custody Record

188098

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 24 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James - Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
DG-X18s-3.5-4	24 Jan 2019	1040	G	S	1	N		X	
DG-W18s-0.5-1		1050							
DG-W18s-3.5-4		1050					Y		
DG-Z16s-0.5-1 (NAP)	~~1115~~	1115					Y		
DG-Z16s-3.5-4 (NAP)	~~1115~~	1115							
DG-Z15s-0.5-1		1135							
DG-Z15s-3.5-4		1135							
DG-Z14s-0.5-1		1145							
DG-Z14s-3.5-4		1145							
DG-AA16s-0.5-1		1205							
DUP-117		—							
DUP-126	↓	—	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Tisha Tsuchiya	Geosyntec	1603 24 Jan. 2019		TA PLS	1/24/19 1603
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	TA PLS	1/24/19 1835			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA PLS	1/28/19 1835

3-8°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/7/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600 3002

120491012

Chain of Custody Record

188098

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 24 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James - Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
35.	DG-AA16s-3.5-4	24 Jan. 2019	1205	G	S	1	N		X	
36.	DG-AA14s-0.5-1		1310							
37.	DG-AA 14s-3.5-4		1310							
38.	DG-AA 13s-0.5-1		1320							
39.	DG-AA 13s-3.5-4		1320							
40.	DG-AC 13s-0.5-1		1340							
41.	DG-AC 13s-3.5-4		1340							
42.	DG-AC 14s-0.5-1		1405							
43.	DG-AC 14s-3.5-4		1405							
44.	DG-Y16s-0.5-1		1410							
45.	DG-Y16s-3.5-4		1410							
46.	DUP-116	↓	—	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C): Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company: Geosyntec	Date/Time: 1603 24 Jan. 2019	Received by	Company: TAPLS	Date/Time: 1/24/19 1603
Relinquished by	Company: TAPLS	Date/Time: 1/24/19 1835	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/24/19 1835

3.8C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/7/2019 (Rev. 1)

TestAmerica Pleasanton 720-91812
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

188098

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 24 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James-Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling.
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
37.	DG-V18S-0.5-1	24 Jan 2019	1445	G	S	1	N		X	
38.	DG-V18S-3.5-4	↓	1445	↓	↓	↓			↓	
39.	DG-U17S-0.5-1		1435							
40.	DG-U17S-3.5-4		1435							
41.	DG-U18S-0.5-1		1500							
42.	DG-U18S-3.5-4	↓	1500	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C). Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by:	Company Geosyntec	Date/Time 1603 24 Jan 2019	Received by	Company TA-PLS	Date/Time 1/24/19 1605
Relinquished by	Company TA-PLS	Date/Time 1/24/19 1835	Received by	Company	Date/Time
Relinquished by:	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/24/19 1835

3.8C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 778645741 2935	COC No: 720-40959.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 6
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-U14S-0.5-1 (720-91012-1)	1/24/19	08:10 Pacific		Solid			X	X	X	1	
DG-U14S-0.5-1 (720-91012-1MS)	1/24/19	08:10 Pacific	MS	Solid				X	X	1	
DG-U14S-0.5-1 (720-91012-1MSD)	1/24/19	08:10 Pacific	MSD	Solid				X	X	1	
DG-U14S-3.5-4 (720-91012-2)	1/24/19	08:10 Pacific		Solid			X	X	X	1	
DG-U16S-0.5-1 (720-91012-3)	1/24/19	08:25 Pacific		Solid			X	X	X	1	
DG-U16S-3.5-4 (720-91012-4)	1/24/19	08:25 Pacific		Solid			X	X	X	1	
DG-V16S-0.5-1 (720-91012-5)	1/24/19	08:45 Pacific		Solid			X	X	X	1	
DG-T16S-0.5-1 (720-91012-6)	1/24/19	09:00 Pacific		Solid			X	X	X	1	
DG-T16S-3.5-4 (720-91012-7)	1/24/19	09:00 Pacific		Solid			X	X	X	1	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/26/19 10:45	Company: TA-IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1 | 1.1 IR66

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 778641542955	COC No: 720-40959.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 6
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-W18S-3.5-4 (720-91012-15)	1/24/19	10:50 Pacific		Solid			X	X	X	1	
DG-W18S-3.5-4 (720-91012-15MS)	1/24/19	10:50 Pacific	MS	Solid				X	X	1	
DG-W18S-3.5-4 (720-91012-15MSD)	1/24/19	10:50 Pacific	MSD	Solid				X	X	1	
DG-Z16S-0.5-1 (720-91012-16)	1/24/19	11:15 Pacific		Solid			X	X	X	1	
DG-Z16S-0.5-1 (720-91012-16MS)	1/24/19	11:15 Pacific	MS	Solid				X	X	1	
DG-Z16S-0.5-1 (720-91012-16MSD)	1/24/19	11:15 Pacific	MSD	Solid				X	X	1	
DG-Z16S-3.5-4 (720-91012-17)	1/24/19	11:15 Pacific		Solid			X	X	X	1	
DG-Z15S-0.5-1 (720-91012-18)	1/24/19	11.35 Pacific		Solid			X	X	X	1	
DG-Z15S-3.5-4 (720-91012-19)	1/24/19	11:35 Pacific		Solid			X	X	X	1	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1-25-19 1430	Company: AS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/26/19 10:45	Company: TA-IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1 | 1.1 IR66

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 2938	COC No. 720-40959.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page. Page 4 of 6
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-Z14S-0.5-1 (720-91012-20)	1/24/19	11:45 Pacific		Solid			X	X	X	1	
DG-Z14S-3.5-4 (720-91012-21)	1/24/19	11:45 Pacific		Solid			X	X	X	1	
DG-AA16S-0.5-1 (720-91012-22)	1/24/19	12:00 Pacific		Solid			X	X	X	1	
DUP-117 (720-91012-23)	1/24/19	Pacific		Solid			X	X	X	1	
DUP-126 (720-91012-24)	1/24/19	Pacific		Solid			X	X	X	1	
DG-AA16S-3.5-4 (720-91012-25)	1/24/19	12:05 Pacific		Solid			X	X	X	1	
DG-AA14S-0.5-1 (720-91012-26)	1/24/19	13:10 Pacific		Solid			X	X	X	1	
DG-AA14S-3.5-4 (720-91012-27)	1/24/19	13:10 Pacific		Solid			X	X	X	1	
DG-AA13S-0.5-1 (720-91012-28)	1/24/19	13:20 Pacific		Solid			X	X	X	1	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1-25-19 1430	Company: TS	Received by	Date/Time:	Company
Relinquished by.	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by	Date/Time: 1/26/19 10:45	Company: TAJRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1/1.1 IR66

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645712955	COC No: 720-40959.5
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 5 of 6
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AA13S-3.5-4 (720-91012-29)	1/24/19	13:20 Pacific		Solid			X	X	X	1	
DG-AC13S-0.5-1 (720-91012-30)	1/24/19	13:40 Pacific		Solid			X	X	X	1	
DG-AC13S-3 5-4 (720-91012-31)	1/24/19	13:40 Pacific		Solid			X	X	X	1	
DG-AC14S-0.5-1 (720-91012-32)	1/24/19	14:05 Pacific		Solid			X	X	X	1	
DG-AC14S-3.5-4 (720-91012-33)	1/24/19	14.05 Pacific		Solid			X	X	X	1	
DG-Y16S-0.5-1 (720-91012-34)	1/24/19	14:10 Pacific		Solid			X	X	X	1	
DG-Y16S-3.5-4 (720-91012-35)	1/24/19	14 10 Pacific		Solid			X	X	X	1	
DUP-116 (720-91012-36)	1/24/19	*Pacific*		Solid			X	X	X	1	
DG-V18S-0.5-1 (720-91012-37)	1/24/19	14:45 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company
Joan Muller	1-25-19 1430	AS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/26/19 10:48	Company TA-IRV

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 / 1.1 ID66

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645742955	COC No: 720-40959.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 6 of 6
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-V18S-3 5-4 (720-91012-38)	1/24/19	14:45 Pacific		Solid			X	X	X	1	
DG-U17S-0.5-1 (720-91012-39)	1/24/19	14:35 Pacific		Solid			X	X	X	1	
DG-U17S-3 5-4 (720-91012-40)	1/24/19	14:35 Pacific		Solid			X	X	X	1	
DG-U18S-0.5-1 (720-91012-41)	1/24/19	15:00 Pacific		Solid			X	X	X	1	
DG-U18S-3.5-4 (720-91012-42)	1/24/19	15:00 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by.	Date:	Time:	Method of Shipment

Relinquished by: [signature]	Date/Time: 1-25-19 1470	Company: P/S	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by: [signature]	Date/Time: 1/26/19 10:45	Company: TA-IRV

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks: 2.1 / 1.1 IR GS

Ver: 09/20/2016

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 440-133068.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 6
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 1220 Quarry Lane, ,	Due Date Requested: 1/28/2019			
City: Pleasanton	TAT Requested (days):			
State, Zip: CA, 94566				
Phone: 925-484-1919(Tel) 925-600-3002(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Moisture/ Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-U14S-0.5-1 (720-91012-1)	1/24/19	08:10 Pacific		Solid			X	X	X	1	
DG-U14S-0.5-1 (720-91012-1MS)	1/24/19	08:10 Pacific	MS	Solid			X	X		1	
DG-U14S-0.5-1 (720-91012-1MSD)	1/24/19	08:10 Pacific	MSD	Solid			X	X		1	
DG-U14S-3.5-4 (720-91012-2)	1/24/19	08:10 Pacific		Solid			X	X	X	1	
DG-U16S-0.5-1 (720-91012-3)	1/24/19	08:25 Pacific		Solid			X	X	X	1	
DG-U16S-3.5-4 (720-91012-4)	1/24/19	08:25 Pacific		Solid			X	X	X	1	
DG-V16S-0.5-1 (720-91012-5)	1/24/19	08:45 Pacific		Solid			X	X	X	1	
DG-T16S-0.5-1 (720-91012-6)	1/24/19	09:00 Pacific		Solid			X	X	X	1	
DG-T16S-3.5-4 (720-91012-7)	1/24/19	09:00 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 1/30/19 1720	Company: TA/A	Received by: Joseph Mullen
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time: 1-31-19 940	Company: TA/S
Date/Time:	Company
Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4/2.3c

Ver: 09/20/2016

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 440-133068.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 6
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 1220 Quarry Lane, ,	Due Date Requested: 1/28/2019			
City: Pleasanton	TAT Requested (days):			
State, Zip: CA, 94566				
Phone: 925-484-1919(Tel) 925-600-3002(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Moisture/ Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-W17S-0.5-1 (720-91012-8)	1/24/19	09:50 Pacific		Solid			X	X	X	1	
DG-W17S-0.5-1 (720-91012-8MS)	1/24/19	09:50 Pacific	MS	Solid			X	X		1	
DG-W17S-0.5-1 (720-91012-8MSD)	1/24/19	09:50 Pacific	MSD	Solid			X	X		1	
DG-W17S-3.5-4 (720-91012-9)	1/24/19	09:50 Pacific		Solid			X	X	X	1	
DG-X18S-0.5-1 (720-91012-10)	1/24/19	10:40 Pacific		Solid			X	X	X	1	
DUP-122 (720-91012-11)	1/24/19	Pacific		Solid			X	X	X	1	
DUP-99 (720-91012-12)	1/24/19	Pacific		Solid			X	X	X	1	
DG-X18S-3.5-4 (720-91012-13)	1/24/19	10:40 Pacific		Solid			X	X	X	1	
DG-W18S-0.5-1 (720-91012-14)	1/24/19	10:50 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/30/19 0700	Company PTS	Received by:	Date/Time: 1-31-19 940	Company AS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 440-133068.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 6
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 1220 Quarry Lane, ,	Due Date Requested: 1/28/2019			
City: Pleasanton	TAT Requested (days):			
State, Zip: CA, 94566				
Phone: 925-484-1919(Tel) 925-600-3002(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Moisture/ Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-W18S-3.5-4 (720-91012-15)	1/24/19	10:50 Pacific		Solid			X	X	X	1	
DG-W18S-3.5-4 (720-91012-15MS)	1/24/19	10:50 Pacific	MS	Solid			X	X		1	
DG-W18S-3.5-4 (720-91012-15MSD)	1/24/19	10:50 Pacific	MSD	Solid			X	X		1	
DG-Z16S-0.5-1 (720-91012-16)	1/24/19	11:15 Pacific		Solid			X	X	X	1	
DG-Z16S-0.5-1 (720-91012-16MS)	1/24/19	11:15 Pacific	MS	Solid			X	X		1	
DG-Z16S-0.5-1 (720-91012-16MSD)	1/24/19	11:15 Pacific	MSD	Solid			X	X		1	
DG-Z16S-3.5-4 (720-91012-17)	1/24/19	11:15 Pacific		Solid			X	X	X	1	
DG-Z15S-0.5-1 (720-91012-18)	1/24/19	11:35 Pacific		Solid			X	X	X	1	
DG-Z15S-3.5-4 (720-91012-19)	1/24/19	11:35 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 1/30/19 (PM)	Company: TAL-IRV	Received by:	Date/Time: 1-31-19 940	Company: BFS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 440-133068.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 6
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 1220 Quarry Lane, ,	Due Date Requested: 1/28/2019			
City: Pleasanton	TAT Requested (days):			
State, Zip: CA, 94566				
Phone: 925-484-1919(Tel) 925-600-3002(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Moisture/ Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code								
DG-Z14S-0.5-1 (720-91012-20)	1/24/19	11:45 Pacific		Solid			X	X	X	1	
DG-Z14S-3.5-4 (720-91012-21)	1/24/19	11:45 Pacific		Solid			X	X	X	1	
DG-AA16S-0.5-1 (720-91012-22)	1/24/19	12:05 Pacific		Solid			X	X	X	1	
DUP-117 (720-91012-23)	1/24/19	Pacific		Solid			X	X	X	1	
DUP-126 (720-91012-24)	1/24/19	Pacific		Solid			X	X	X	1	
DG-AA16S-3.5-4 (720-91012-25)	1/24/19	12:05 Pacific		Solid			X	X	X	1	
DG-AA14S-0.5-1 (720-91012-26)	1/24/19	13:10 Pacific		Solid			X	X	X	1	
DG-AA14S-3.5-4 (720-91012-27)	1/24/19	13:10 Pacific		Solid			X	X	X	1	
DG-AA13S-0.5-1 (720-91012-28)	1/24/19	13:20 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 1/25/19 0700	Company TAL	Received by: Joan Muller	Date/Time: 1-31-19 940	Company TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

Ver: 09/20/2016

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 440-133068.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 5 of 6
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 1220 Quarry Lane, ,	Due Date Requested: 1/28/2019			
City: Pleasanton	TAT Requested (days):			
State, Zip: CA, 94566				
Phone: 925-484-1919(Tel) 925-600-3002(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Moisture/ Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AA13S-3.5-4 (720-91012-29)	1/24/19	13:20 Pacific		Solid			X	X	X	1	
DG-AC13S-0.5-1 (720-91012-30)	1/24/19	13:40 Pacific		Solid			X	X	X	1	
DG-AC13S-3.5-4 (720-91012-31)	1/24/19	13:40 Pacific		Solid			X	X	X	1	
DG-AC14S-0.5-1 (720-91012-32)	1/24/19	14:05 Pacific		Solid			X	X	X	1	
DG-AC14S-3.5-4 (720-91012-33)	1/24/19	14:05 Pacific		Solid			X	X	X	1	
DG-Y16S-0.5-1 (720-91012-34)	1/24/19	14:10 Pacific		Solid			X	X	X	1	
DG-Y16S-3.5-4 (720-91012-35)	1/24/19	14:10 Pacific		Solid			X	X	X	1	
DUP-116 (720-91012-36)	1/24/19	Pacific		Solid			X	X	X	1	
DG-V18S-0.5-1 (720-91012-37)	1/24/19	14:45 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:
Relinquished by: Date/Time: Company	Received by: Date/Time: 1-31-19 946 Company BTS
Relinquished by: Date/Time: Company	Received by: Date/Time: Company
Relinquished by: Date/Time: Company	Received by: Date/Time: Company
Custody Seals Intact: Δ Yes Δ No / Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 440-133068.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 6 of 6
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 720-91012-1
Address: 1220 Quarry Lane, ,	Due Date Requested: 1/28/2019			
City: Pleasanton	TAT Requested (days):			
State, Zip: CA, 94566				
Phone: 925-484-1919(Tel) 925-600-3002(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	Moisture/ Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-V18S-3.5-4 (720-91012-38)	1/24/19	14:45 Pacific		Solid			X	X	X	1	
DG-U17S-0.5-1 (720-91012-39)	1/24/19	14:35 Pacific		Solid			X	X	X	1	
DG-U17S-3.5-4 (720-91012-40)	1/24/19	14:35 Pacific		Solid			X	X	X	1	
DG-U18S-0.5-1 (720-91012-41)	1/24/19	15:00 Pacific		Solid			X	X	X	1	
DG-U18S-3.5-4 (720-91012-42)	1/24/19	15:00 Pacific		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:
Relinquished by: 1/30/19 1700 TAL	Date/Time: Company: Received by: Date/Time: 1-31-19 940 Company: TAL
Relinquished by:	Date/Time: Company: Received by: Date/Time: Company:
Relinquished by:	Date/Time: Company: Received by: Date/Time: Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91012-1

Login Number: 91012
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Tuesday, April 02, 2019 9:51 AM
To: Patel, Urvashi
Cc: Morgan Greenwald; Todd Olsen; Anthony Smith; Daniel Blake
Subject: Revise two Brisbane Lab Reports
Attachments: J91106-1 UDS Level 2 Report Final Report.pdf; J91012-1 UDS Level 2 Report Final Report.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

-External Email-

Hi Urvashi,

I am requesting to reissue two lab reports, we realized during the data validation process that we double named a couple of duplicates.

FD Sample	Matrix	Sample Date	Work Order #
DUP-129 (previously DUP-93)	Soil	1/31/2019	720-91106-1
DUP-128 (previously DUP-122)	Soil	1/24/2019	720-91012-1

Let me know if you have any questions,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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Geosyntec consultants
engineers | scientists | innovators

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April 2, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91012-A-10-B	DG-X18S-0.5-1	25	1.1 J
720-91012-A-11-B	DUP-122	39	1.4 J
720-91012-A-12-B	DUP-99	22	ND
720-91012-A-14-B	DG-W18S-0.5-1	26	1.1 J
720-91012-A-15-F	DG-W18S-3.5-4	44	1.6 J
720-91012-A-17-B	DG-Z16S-3.5-4	24	0.39 J
720-91012-A-18-B	DG-Z15S-0.5-1	31	ND
720-91012-A-19-B	DG-Z15S-3.5-4	62	ND
720-91012-A-20-B	DG-Z14S-0.5-1	23	ND
720-91012-A-21-B	DG-Z14S-3.5-4	31	0.83 J
720-91012-A-22-B	DG-AA16S-0.5-1	38	0.96 J
720-91012-A-23-B	DUP-117	26	ND
720-91012-A-24-B	DUP-126	20	0.89 J
720-91012-A-25-B	DG-AA16S-3.5-4	19	0.64 J
720-91012-A-26-B	DG-AA14S-0.5-1	15	ND

* ND values are ND at the same RL originally reported.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91012-A-27-B	DG-AA14S-3.5-4	20	ND
720-91012-A-28-B	DG-AA13S-0.5-1	30	1.0 J
720-91012-A-8-F	DG-W17S-0.5-1	16	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa A Brewer

Melissa Brewer
Quality Assurance Manager

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91035-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 8:09:07 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
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LINKS

Review your project results through TotalAccess

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91035-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91035-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 1/25/2019 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.3º C, 0.5º C, 0.5º C, 2.2º C and 3.9º C.

Metals
Method 7471A: The following sample was diluted to bring the concentration of target analytes within the calibration range: DG-AK13S-3.5-4 (720-91035-19). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259362 and analytical batch 720-259654 contained Chromium and Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259362 and analytical batch 720-259654 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for Arsenic-126%, Barium-130%, Beryllium-128%, Chromium-128%, Copper-131%, Lead-164%, Thallium-179%, Vanadium-179%, and Zinc-179% associated with batch 720-259654 were outside of control limits.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259654 contained Copper and Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a “^” symbol .

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AE12S-0.5-1 (720-91035-1), DG-AE12S-3.5-4 (720-91035-2), DG-AE13S-0.5-1 (720-91035-3), DG-AE13S-3.5-4 (720-91035-4), DG-AG13S-0.5-1 (720-91035-5), DG-AG13S-3.5-4 (720-91035-6), DG-AG12S-0.5-1 (720-91035-7), DG-AG12S-0.5-1 (720-91035-7[MS]), DG-AG12S-0.5-1 (720-91035-7[MSD]), DG-AG12S-3.5-4 (720-91035-8), DG-AI12S-0.5-1 (720-91035-9), DG-AI12S-3.5-4 (720-91035-10), DG-AH12S-0.5-1 (720-91035-11), DUP-85 (720-91035-12), DG-AH12S-3.5-4 (720-91035-13), DG-AJ12S-0.5-1 (720-91035-14), DG-AJ12S-3.5-4 (720-91035-15), DG-AK12S-0.5-1 (720-91035-16), DG-AK12S-3.5-4 (720-91035-17), DG-AK13S-0.5-1 (720-91035-18), DG-AK13S-3.5-4 (720-91035-19), DG-AL12S-0.5-1 (720-91035-20), (720-91035-A-7-C PDS) , (720-91035-A-7-C SD). DG-AL12S-3.5-4 (720-91035-21), DG-AM12S-0.5-1 (720-91035-22), DG-AM12S-3.5-4 (720-91035-23), DUP-86 (720-91035-24), DG-AN12S-0.5-1 (720-91035-25), DG-AN12S-3.5-4 (720-91035-26), DG-AF12S-0.5-1 (720-91035-27), DG-AF12S-3.5-4 (720-91035-28) and DG-AB12S-0.5-1 (720-91035-29). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259685 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AM12S-0.5-1 (720-91035-22), DG-AM12S-3.5-4 (720-91035-23), DUP-86 (720-91035-24), DG-AN12S-0.5-1 (720-91035-25), DG-AF12S-0.5-1 (720-91035-27), DG-AF12S-3.5-4 (720-91035-28) and DG-AB12S-0.5-1 (720-91035-29).

Method 6010B: The method blank for preparation batch 720-259393 and analytical batch 720-259703 contained Arsenic, Barium, Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259393 and analytical batch 720-259703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Job ID: 720-91035-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259703 was outside control limits for Arsenic-24%, Barium-25%, Cobalt-20%, Chromium-25%, Copper-19%, Nickel-21%, Lead-23%, Antimony-19%, Vanadium-25%, Zinc-22%: (720-91035-A-30-D SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AB12S-3.5-4 (720-91035-30), DG-AA12S-0.5-1 (720-91035-31), DG-AA12S-3.5-4 (720-91035-32), DG-Z12S-0.5-1 (720-91035-33), DG-Z12S-3.5-4 (720-91035-34), DUP-83 (720-91035-35), DUP-87 (720-91035-36), DG-Y12S-0.5-1 (720-91035-37) and DG-Y12S-3.5-4 (720-91035-38). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259703 contained Thallium above the reporting limit (RL). All reported samples associated with this CCB were ND for this analyte; therefore, re-analysis of samples was not performed.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target element recoveries passed criteria: (ICSA 720-259703/7) and (ICSAB 720-259703/11).

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AE13S-3.5-4 (720-91035-4), DG-AG13S-0.5-1 (720-91035-5), DG-AI12S-0.5-1 (720-91035-9), DG-AI12S-3.5-4 (720-91035-10), DUP-85 (720-91035-12), DG-AH12S-3.5-4 (720-91035-13), DG-AJ12S-0.5-1 (720-91035-14), DG-AK12S-0.5-1 (720-91035-16), DG-AK13S-3.5-4 (720-91035-19) and DG-AL12S-0.5-1 (720-91035-20). Elevated reporting limits (RLs) are provided.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB but target element recoveries met criteria: (ICSA 720-259718/7) and (ICSAB 720-259718/8).

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259383 and analytical batch 720-259749 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259749 was outside control limits for Barium-30%, Cobalt-44%, Chromium-35%, Nickel-30%, Vanadium-32%: (720-91016-A-8-E SD)

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target analyte passed criteria: (ICSA 720-259685/7) and (ICSAB 720-259685/8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AE12S-0.5-1 — Lab Sample ID: 720-91035-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	4.3		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	280		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.61		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	60	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	38		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	36		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	60	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	66		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE12S-3.5-4 — Lab Sample ID: 720-91035-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	23		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	66		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.43		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	40	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.0		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	20		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	48		1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	33	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	290		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.029		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE13S-0.5-1 — Lab Sample ID: 720-91035-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	5.8		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	52		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.47	J	0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	50	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	120		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	220		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	82	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.75	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	89		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.085		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AE13S-3.5-4 — Lab Sample ID: 720-91035-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.82	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	3.8		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	110		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.27	J	0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.48		0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	30	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	4.4		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	16		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	110	^	1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	120		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.029		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG13S-0.5-1 — Lab Sample ID: 720-91035-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	34		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.34	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	9.3	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	2.6		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	43		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	150	^	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.46	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	23	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	51		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.040		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG13S-3.5-4 — Lab Sample ID: 720-91035-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	22		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	24		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	1000		1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.65		0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	3.3		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	44	B	1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	710	^	5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	4000	^	1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	40	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.9	J	3.9	0.58	mg/Kg	4		6010B	Total/NA
Silver	4.9		0.97	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	2200		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AG12S-0.5-1 — Lab Sample ID: 720-91035-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.92	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	3.7	F1	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	34	F1 F2	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.34	J F1	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.37	J F1	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	16	B F1	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	2.0	F1	0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	47	F1	5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	320		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.83	J F1	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	6.5	B F1	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.94	J F1	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	29	F1	1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	29	F1	5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.063		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG12S-3.5-4 — Lab Sample ID: 720-91035-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	16		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	1100		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.60		0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	2.7		0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	45	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	7.9		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	3600	^	5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	2600	^	2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.98	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	410	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	4.0	0.59	mg/Kg	4		6010B	Total/NA
Silver	4.0		0.99	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	30		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	2900		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.67		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI12S-0.5-1 — Lab Sample ID: 720-91035-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	8.2		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	36		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.46	J	0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	11	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	4.7		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	51		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	82		2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	11	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.87	J	4.0	0.60	mg/Kg	4		6010B	Total/NA
Vanadium	38		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	75		6.0	2.5	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AI12S-0.5-1 (Continued)
Lab Sample ID: 720-91035-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.032		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI12S-3.5-4
Lab Sample ID: 720-91035-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.35	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	4.1		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	18		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.074	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	10	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	2.5		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	13		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	9.1		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	15	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	18		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	25		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.013	J	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH12S-0.5-1
Lab Sample ID: 720-91035-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.87	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	5.1		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	64		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.23	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.43	J	0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	24	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	5.0		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	140	^	5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	150	^	2.0	0.41	mg/Kg	4		6010B	Total/NA
Nickel	28	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	37		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	180		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.031		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-85
Lab Sample ID: 720-91035-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	23		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	19		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	1100		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.54		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	4.0		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	40	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	150		13	6.0	mg/Kg	10		6010B	Total/NA
Lead	34		4.2	0.88	mg/Kg	10		6010B	Total/NA
Nickel	2100	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Silver	6.6		0.84	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.7	0.23	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-85 (Continued)

Lab Sample ID: 720-91035-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	82		13	5.3	mg/Kg	10		6010B	Total/NA
Mercury	0.93		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH12S-3.5-4

Lab Sample ID: 720-91035-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	100		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	19		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	980		1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.61		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	1.8		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	31	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	6.5		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	110		13	6.2	mg/Kg	10		6010B	Total/NA
Lead	410		4.3	0.91	mg/Kg	10		6010B	Total/NA
Molybdenum	1.2	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	42	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.61	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Silver	5.3		0.87	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	1600		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.74		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ12S-0.5-1

Lab Sample ID: 720-91035-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	37		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	65		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.73		0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.35	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	36	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	190		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	1200		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.63	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	44	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.89	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	150		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.35		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ12S-3.5-4

Lab Sample ID: 720-91035-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	14		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	360		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.94		0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.59		0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	47	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.79	0.079	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ12S-3.5-4 (Continued) Lab Sample ID: 720-91035-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	150	^	5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	280	^	2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.42	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	66	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.94	J	4.0	0.59	mg/Kg	4		6010B	Total/NA
Silver	0.35	J	0.99	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	49		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	690		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK12S-0.5-1 Lab Sample ID: 720-91035-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.62	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	48		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	0.41		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	4.9		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	39		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	100		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	19	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	88		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.061		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK12S-3.5-4 Lab Sample ID: 720-91035-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	14		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	10		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	440		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.69		0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.89		0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	61	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	140	^	5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	960	^	1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	61	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.59	J	0.96	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	520		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.72		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK13S-0.5-1 Lab Sample ID: 720-91035-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	40		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	100		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.28	J	0.33	0.11	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK13S-0.5-1 (Continued) — Lab Sample ID: 720-91035-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.80		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	27	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	200	^	4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	300	^	1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	23	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.92	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Silver	2.3		0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	300		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK13S-3.5-4 — Lab Sample ID: 720-91035-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.3		3.7	0.62	mg/Kg	10		6010B	Total/NA
Arsenic	290		7.5	0.63	mg/Kg	10		6010B	Total/NA
Barium	420		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.30	0.097	mg/Kg	4		6010B	Total/NA
Cadmium	0.76	J	0.93	0.093	mg/Kg	10		6010B	Total/NA
Chromium	14	B	3.7	0.40	mg/Kg	10		6010B	Total/NA
Cobalt	12		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	140		11	5.3	mg/Kg	10		6010B	Total/NA
Lead	200		3.7	0.78	mg/Kg	10		6010B	Total/NA
Molybdenum	1.1	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	14	B	3.7	0.38	mg/Kg	10		6010B	Total/NA
Silver	0.66	J	1.9	0.38	mg/Kg	10		6010B	Total/NA
Vanadium	87		3.7	0.51	mg/Kg	10		6010B	Total/NA
Zinc	210		11	4.7	mg/Kg	10		6010B	Total/NA
Mercury	1.7		0.058	0.0086	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AL12S-0.5-1 — Lab Sample ID: 720-91035-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	8.8		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	57		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.48		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	3.5		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	31		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	150		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	22	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	23		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	110		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.040		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL12S-3.5-4 — Lab Sample ID: 720-91035-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	10		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	13		2.4	0.20	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL12S-3.5-4 (Continued) Lab Sample ID: 720-91035-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	730		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.51		0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	1.4		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	31		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	6.4		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	580		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	2000		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.82	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	37		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	1.6		0.60	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	990		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	1.1		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM12S-0.5-1 Lab Sample ID: 720-91035-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	5.3		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	32		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	13		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	2.8		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	22		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	64		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	12		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	15		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	57		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.033		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM12S-3.5-4 Lab Sample ID: 720-91035-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	12		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	170		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.55		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.42		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	53		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	81		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	110		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.16	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	39		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	400		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DUP-86 — Lab Sample ID: 720-91035-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	14		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	17		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	51		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.56		0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.60		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	66		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	250		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	2600		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	4.7		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	65		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.53	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	140		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN12S-0.5-1 — Lab Sample ID: 720-91035-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.64	J	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	9.5		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	22		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.10	J	0.23	0.075	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	11		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	2.4		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	18		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	59		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	10		1.1	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	13		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	50		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.036		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN12S-3.5-4 — Lab Sample ID: 720-91035-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	140		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	120		1.5	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.54		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	64		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	110		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	34		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	13		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	2.2	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Thallium	1.7		1.5	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	360		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AF12S-0.5-1 Lab Sample ID: 720-91035-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	25		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	100		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.10	J	0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	33		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	52		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	150		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.15	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	41		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	110		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF12S-3.5-4 Lab Sample ID: 720-91035-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	36		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	83		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.096	J	0.26	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.28	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	14		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	2.5		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	94		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	280		1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	12		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	14		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	150		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.061		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB12S-0.5-1 Lab Sample ID: 720-91035-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.4		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	150		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	2.5		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	71		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	570		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	830		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	5.3		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	72		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	260		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.61		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AB12S-3.5-4 — Lab Sample ID: 720-91035-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	250	F2	3.0	0.50	mg/Kg	10		6010B	Total/NA
Arsenic	38	B F1	6.1	0.52	mg/Kg	10		6010B	Total/NA
Barium	170	B	3.0	0.43	mg/Kg	10		6010B	Total/NA
Cadmium	2.2		0.76	0.075	mg/Kg	10		6010B	Total/NA
Chromium	55		3.0	0.32	mg/Kg	10		6010B	Total/NA
Cobalt	16		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	4400	F2	9.1	4.3	mg/Kg	10		6010B	Total/NA
Lead	4200		3.0	0.64	mg/Kg	10		6010B	Total/NA
Molybdenum	1.6	J	3.0	0.39	mg/Kg	10		6010B	Total/NA
Nickel	81	F1	3.0	0.31	mg/Kg	10		6010B	Total/NA
Selenium	1.2	J B	6.1	0.91	mg/Kg	10		6010B	Total/NA
Silver	1.6		1.5	0.31	mg/Kg	10		6010B	Total/NA
Vanadium	67		3.0	0.41	mg/Kg	10		6010B	Total/NA
Zinc	930		9.1	3.8	mg/Kg	10		6010B	Total/NA
Mercury	0.36		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA12S-0.5-1 — Lab Sample ID: 720-91035-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.8		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	4.9	B	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	48	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.62		0.30	0.029	mg/Kg	4		6010B	Total/NA
Chromium	21		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	390		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	710		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	21		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.52	J B	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	91		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	120		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	1.3		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA12S-3.5-4 — Lab Sample ID: 720-91035-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	5.2	B	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	61	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.68		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	35		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	170		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	620		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	48		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.57	J B	3.4	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	160		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	1.8		0.059	0.0087	mg/Kg	4		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-Z12S-0.5-1 — Lab Sample ID: 720-91035-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	2.0	J B	3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	51	B	1.9	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.49		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	14		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	100		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	140		1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	9.3		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J B	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	120		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.078		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z12S-3.5-4 — Lab Sample ID: 720-91035-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	17		3.6	0.61	mg/Kg	10		6010B	Total/NA
Arsenic	23	B	7.3	0.62	mg/Kg	10		6010B	Total/NA
Barium	290	B	3.6	0.52	mg/Kg	10		6010B	Total/NA
Cadmium	2.0		0.91	0.091	mg/Kg	10		6010B	Total/NA
Chromium	40		3.6	0.39	mg/Kg	10		6010B	Total/NA
Cobalt	14		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	330		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	960		3.6	0.77	mg/Kg	10		6010B	Total/NA
Nickel	41		3.6	0.37	mg/Kg	10		6010B	Total/NA
Selenium	4.0	J B	7.3	1.1	mg/Kg	10		6010B	Total/NA
Silver	1.5	J	1.8	0.37	mg/Kg	10		6010B	Total/NA
Vanadium	31		3.6	0.50	mg/Kg	10		6010B	Total/NA
Zinc	640		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	0.52		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-83 — Lab Sample ID: 720-91035-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.68	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	1.4	J B	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	42	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	8.7		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	96		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	53		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	5.7		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.63	J B	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	73		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.038		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DUP-87 — Lab Sample ID: 720-91035-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	12	B	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	250	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.47		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.60		0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	58		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	160		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	320		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	41		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J B	3.6	0.54	mg/Kg	4		6010B	Total/NA
Silver	0.79	J	0.89	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	590		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.080		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y12S-0.5-1 — Lab Sample ID: 720-91035-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.6	J B	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	27	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	5.1		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	0.60	J	0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	9.3		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	120		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	3.9		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	4.6		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	37		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.0064	J	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y12S-3.5-4 — Lab Sample ID: 720-91035-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.5		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	6.0	B	4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	120	B	2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.67		0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	23		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	270		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	340		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	2.0	0.26	mg/Kg	4		6010B	Total/NA
Nickel	19		2.0	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.28	J	1.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	80		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	340		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AE12S-0.5-1 Lab Sample ID: 720-91035-1

Date Collected: 01/25/19 08:40 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.9	0.31	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Arsenic	4.3		3.8	0.32	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Barium	280		1.9	0.27	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Beryllium	0.41		0.38	0.12	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Cadmium	0.61		0.47	0.047	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Chromium	60	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Cobalt	12		0.75	0.075	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Copper	38		5.7	2.7	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Lead	36		1.9	0.40	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Molybdenum	1.3	J	1.9	0.24	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Nickel	60	B	1.9	0.19	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Selenium	ND		3.8	0.57	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Silver	ND		0.94	0.19	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Thallium	ND		1.9	0.55	mg/Kg		01/30/19 08:58	03/12/19 23:57	4
Vanadium	70		1.9	0.26	mg/Kg		01/30/19 08:58	02/01/19 10:31	4
Zinc	66		5.7	2.4	mg/Kg		01/30/19 08:58	02/01/19 10:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.015	0.0022	mg/Kg		01/30/19 12:27	01/30/19 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AE12S-3.5-4

Date Collected: 01/25/19 08:40
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.31	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Arsenic	**23**		3.7	0.32	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Barium	**66**		1.9	0.27	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Beryllium	**0.43**		0.37	0.12	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Cadmium	**0.36**	**J**	0.47	0.046	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Chromium	**40**	**B**	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Cobalt	**5.0**		0.75	0.075	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Copper	**20**		5.6	2.7	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Lead	**48**		1.9	0.39	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Nickel	**33**	**B**	1.9	0.19	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Selenium	ND		3.7	0.56	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Silver	ND		0.93	0.19	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Thallium	ND		1.9	0.54	mg/Kg		01/30/19 08:58	03/13/19 00:01	4
Vanadium	**32**		1.9	0.25	mg/Kg		01/30/19 08:58	02/01/19 10:36	4
Zinc	**290**		5.6	2.4	mg/Kg		01/30/19 08:58	02/01/19 10:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.016	0.0023	mg/Kg		01/30/19 12:27	01/30/19 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.8**		0.1	0.05	%			01/29/19 15:07	1

Client Sample ID: DG-AE13S-0.5-1 Lab Sample ID: 720-91035-3

Date Collected: 01/25/19 09:00 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	1.9	0.32	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Arsenic	5.8		3.8	0.32	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Barium	52		1.9	0.27	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Beryllium	0.20	J	0.38	0.12	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Cadmium	0.47	J	0.48	0.047	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Chromium	50	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Cobalt	10		0.76	0.076	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Copper	120		5.7	2.7	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Lead	220		1.9	0.40	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Molybdenum	1.2	J	1.9	0.24	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Nickel	82	B	1.9	0.19	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Selenium	0.75	J	3.8	0.57	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Silver	ND		0.95	0.19	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Thallium	ND		1.9	0.55	mg/Kg		01/30/19 08:58	03/13/19 00:06	4
Vanadium	84		1.9	0.26	mg/Kg		01/30/19 08:58	02/01/19 10:41	4
Zinc	89		5.7	2.4	mg/Kg		01/30/19 08:58	02/01/19 10:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.085		0.015	0.0022	mg/Kg		01/30/19 12:27	01/30/19 16:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.4		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AE13S-3.5-4

Date Collected: 01/25/19 09:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.82	J	1.9	0.32	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Arsenic	3.8		3.8	0.33	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Barium	110		1.9	0.27	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Beryllium	0.27	J	0.38	0.13	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Cadmium	0.48		0.48	0.048	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Chromium	30	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Cobalt	4.4		0.77	0.077	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Copper	16		5.8	2.7	mg/Kg		01/30/19 08:58	02/02/19 12:40	4
Lead	110	^	1.9	0.40	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Molybdenum	ND		1.9	0.25	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Nickel	24	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Selenium	ND		3.8	0.58	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Silver	ND		0.96	0.19	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Thallium	ND		1.9	0.56	mg/Kg		01/30/19 08:58	03/13/19 00:11	4
Vanadium	22		1.9	0.26	mg/Kg		01/30/19 08:58	02/01/19 10:55	4
Zinc	120		5.8	2.4	mg/Kg		01/30/19 08:58	02/01/19 10:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.014	0.0021	mg/Kg		01/30/19 12:27	01/30/19 16:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.0		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AG13S-0.5-1

Date Collected: 01/25/19 09:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.27	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Arsenic	**5.0**		3.3	0.28	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Barium	**34**		1.6	0.23	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Beryllium	**0.22**	**J**	0.33	0.11	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Cadmium	**0.34**	**J**	0.41	0.041	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Chromium	**9.3**	**B**	1.6	0.17	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Cobalt	**2.6**		0.66	0.066	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Copper	**43**		4.9	2.3	mg/Kg		01/30/19 08:58	02/02/19 12:45	4
Lead	**150**	**^**	1.6	0.34	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Molybdenum	**0.46**	**J**	1.6	0.21	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Nickel	**23**	**B**	1.6	0.17	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Selenium	ND		3.3	0.49	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Silver	ND		0.82	0.17	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Thallium	ND		1.6	0.48	mg/Kg		01/30/19 08:58	03/13/19 00:16	4
Vanadium	**28**		1.6	0.22	mg/Kg		01/30/19 08:58	02/01/19 11:00	4
Zinc	**51**		4.9	2.1	mg/Kg		01/30/19 08:58	02/01/19 11:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.040**		0.017	0.0025	mg/Kg		01/30/19 12:27	01/30/19 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.2**		0.1	0.05	%			01/29/19 15:07	1

Client Sample ID: DG-AG13S-3.5-4 Lab Sample ID: 720-91035-6

Date Collected: 01/25/19 09:10 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	22		1.9	0.32	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Arsenic	24		3.9	0.33	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Barium	1000		1.9	0.28	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Beryllium	0.65		0.39	0.13	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Cadmium	3.3		0.49	0.048	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Chromium	44	B	1.9	0.21	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Cobalt	11		0.78	0.078	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Copper	710	^	5.8	2.8	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Lead	4000	^	1.9	0.41	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Molybdenum	1.1	J	1.9	0.25	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Nickel	40	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Selenium	1.9	J	3.9	0.58	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Silver	4.9		0.97	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Thallium	ND		1.9	0.56	mg/Kg		01/30/19 08:58	03/13/19 00:21	4
Vanadium	49		1.9	0.26	mg/Kg		01/30/19 08:58	02/01/19 11:05	4
Zinc	2200		5.8	2.5	mg/Kg		01/30/19 08:58	02/01/19 11:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.017	0.0025	mg/Kg		01/30/19 12:27	01/30/19 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.8		0.1	0.05	%			01/29/19 15:07	1

Client Sample ID: DG-AG12S-0.5-1 Lab Sample ID: 720-91035-7

Date Collected: 01/25/19 09:20 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.92	J	1.8	0.30	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Arsenic	3.7	F1	3.6	0.30	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Barium	34	F1 F2	1.8	0.25	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Beryllium	0.34	J F1	0.36	0.12	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Cadmium	0.37	J F1	0.45	0.044	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Chromium	16	B F1	1.8	0.19	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Cobalt	2.0	F1	0.71	0.071	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Copper	47	F1	5.4	2.5	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Lead	320		1.8	0.38	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Molybdenum	0.83	J F1	1.8	0.23	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Nickel	6.5	B F1	1.8	0.18	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Selenium	0.94	J F1	3.6	0.54	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Silver	ND	F1	0.89	0.18	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Thallium	ND		1.8	0.52	mg/Kg		01/30/19 08:58	03/12/19 23:52	4
Vanadium	29	F1	1.8	0.24	mg/Kg		01/30/19 08:58	02/01/19 10:27	4
Zinc	29	F1	5.4	2.3	mg/Kg		01/30/19 08:58	02/01/19 10:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.015	0.0022	mg/Kg		01/30/19 12:27	01/30/19 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AG12S-3.5-4

Date Collected: 01/25/19 09:20
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		2.0	0.33	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Arsenic	16		4.0	0.34	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Barium	1100		2.0	0.28	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Beryllium	0.60		0.40	0.13	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Cadmium	2.7		0.50	0.049	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Chromium	45	B	2.0	0.21	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Cobalt	7.9		0.79	0.079	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Copper	3600	^	5.9	2.8	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Lead	2600	^	2.0	0.42	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Molybdenum	0.98	J	2.0	0.25	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Nickel	410	B	2.0	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Selenium	1.8	J	4.0	0.59	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Silver	4.0		0.99	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Thallium	ND		2.0	0.57	mg/Kg		01/30/19 08:58	03/13/19 00:25	4
Vanadium	30		2.0	0.27	mg/Kg		01/30/19 08:58	02/01/19 11:09	4
Zinc	2900		5.9	2.5	mg/Kg		01/30/19 08:58	02/01/19 11:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.67		0.016	0.0023	mg/Kg		01/30/19 12:27	01/30/19 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.1		0.1	0.05	%			01/29/19 15:07	1

Client Sample ID: DG-AI12S-0.5-1 Lab Sample ID: 720-91035-9

Date Collected: 01/25/19 09:50 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	2.0	0.33	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Arsenic	8.2		4.0	0.34	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Barium	36		2.0	0.28	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Beryllium	0.21	J	0.40	0.13	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Cadmium	0.46	J	0.50	0.050	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Chromium	11	B	2.0	0.21	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Cobalt	4.7		0.80	0.080	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Copper	51		6.0	2.8	mg/Kg		01/30/19 08:58	02/02/19 12:49	4
Lead	82		2.0	0.42	mg/Kg		01/30/19 08:58	02/02/19 12:49	4
Molybdenum	ND		2.0	0.26	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Nickel	11	B	2.0	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Selenium	0.87	J	4.0	0.60	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Silver	ND		1.0	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Thallium	ND		2.0	0.58	mg/Kg		01/30/19 08:58	03/13/19 00:40	4
Vanadium	38		2.0	0.27	mg/Kg		01/30/19 08:58	02/01/19 11:14	4
Zinc	75		6.0	2.5	mg/Kg		01/30/19 08:58	02/01/19 11:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.016	0.0024	mg/Kg		01/30/19 12:27	01/30/19 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AI12S-3.5-4
Lab Sample ID: 720-91035-10
Date Collected: 01/25/19 09:50
Matrix: Solid
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.9	0.32	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Arsenic	4.1		3.8	0.33	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Barium	18		1.9	0.27	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Beryllium	0.20	J	0.38	0.13	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Cadmium	0.074	J	0.48	0.048	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Chromium	10	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Cobalt	2.5		0.77	0.077	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Copper	13		5.8	2.7	mg/Kg		01/30/19 08:58	02/02/19 12:54	4
Lead	9.1		1.9	0.40	mg/Kg		01/30/19 08:58	02/02/19 12:54	4
Molybdenum	ND		1.9	0.25	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Nickel	15	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Selenium	ND		3.8	0.58	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Silver	ND		0.96	0.19	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Thallium	ND		1.9	0.56	mg/Kg		01/30/19 08:58	03/13/19 00:45	4
Vanadium	18		1.9	0.26	mg/Kg		01/30/19 08:58	02/01/19 11:19	4
Zinc	25		5.8	2.4	mg/Kg		01/30/19 08:58	02/01/19 11:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.015	0.0023	mg/Kg		01/30/19 12:27	01/30/19 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AH12S-0.5-1

Date Collected: 01/25/19 10:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.87	J	2.0	0.33	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Arsenic	5.1		3.9	0.33	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Barium	64		2.0	0.28	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Beryllium	0.23	J	0.39	0.13	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Cadmium	0.43	J	0.49	0.049	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Chromium	24	B	2.0	0.21	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Cobalt	5.0		0.78	0.078	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Copper	140	^	5.9	2.8	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Lead	150	^	2.0	0.41	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Molybdenum	ND		2.0	0.25	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Nickel	28	B	2.0	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Selenium	ND		3.9	0.59	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Silver	ND		0.98	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Thallium	ND		2.0	0.57	mg/Kg		01/30/19 08:58	03/13/19 00:49	4
Vanadium	37		2.0	0.27	mg/Kg		01/30/19 08:58	02/01/19 11:24	4
Zinc	180		5.9	2.5	mg/Kg		01/30/19 08:58	02/01/19 11:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.015	0.0022	mg/Kg		01/30/19 12:27	01/30/19 17:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.6		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DUP-85

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	23		1.7	0.28	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Arsenic	19		3.4	0.29	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Barium	1100		1.7	0.24	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Beryllium	0.54		0.34	0.11	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Cadmium	4.0		0.42	0.042	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Chromium	40	B	1.7	0.18	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Cobalt	14		0.67	0.067	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Copper	150		13	6.0	mg/Kg		01/30/19 08:58	02/02/19 12:59	10
Lead	34		4.2	0.88	mg/Kg		01/30/19 08:58	02/02/19 12:59	10
Molybdenum	ND		1.7	0.22	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Nickel	2100	B	1.7	0.17	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Selenium	1.3	J	3.4	0.50	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Silver	6.6		0.84	0.17	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Thallium	ND		1.7	0.49	mg/Kg		01/30/19 08:58	03/13/19 00:54	4
Vanadium	29		1.7	0.23	mg/Kg		01/30/19 08:58	02/01/19 11:28	4
Zinc	82		13	5.3	mg/Kg		01/30/19 08:58	02/02/19 12:59	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.93		0.015	0.0022	mg/Kg		01/30/19 12:27	01/30/19 17:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.7		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AH12S-3.5-4

Date Collected: 01/25/19 10:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	100		1.7	0.29	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Arsenic	19		3.5	0.30	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Barium	980		1.7	0.25	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Beryllium	0.61		0.35	0.11	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Cadmium	1.8		0.43	0.043	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Chromium	31	B	1.7	0.18	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Cobalt	6.5		0.70	0.070	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Copper	110		13	6.2	mg/Kg		01/30/19 08:58	02/02/19 13:04	10
Lead	410		4.3	0.91	mg/Kg		01/30/19 08:58	02/02/19 13:04	10
Molybdenum	1.2	J	1.7	0.22	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Nickel	42	B	1.7	0.18	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Selenium	0.61	J	3.5	0.52	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Silver	5.3		0.87	0.18	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Thallium	ND		1.7	0.50	mg/Kg		01/30/19 08:58	03/13/19 00:59	4
Vanadium	36		1.7	0.24	mg/Kg		01/30/19 08:58	02/01/19 11:34	4
Zinc	1600		5.2	2.2	mg/Kg		01/30/19 08:58	02/01/19 11:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.74		0.015	0.0022	mg/Kg		01/30/19 12:27	01/30/19 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.4		0.1	0.05	%			01/29/19 15:07	1

Client Sample ID: DG-AJ12S-0.5-1 Lab Sample ID: 720-91035-14

Date Collected: 01/25/19 10:30 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	37		1.9	0.32	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Arsenic	16		3.8	0.33	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Barium	65		1.9	0.27	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Beryllium	0.73		0.38	0.13	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Cadmium	0.35	J	0.48	0.048	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Chromium	36	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Cobalt	13		0.77	0.077	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Copper	190		5.8	2.7	mg/Kg		01/30/19 08:58	02/02/19 13:09	4
Lead	1200		1.9	0.40	mg/Kg		01/30/19 08:58	02/02/19 13:09	4
Molybdenum	0.63	J	1.9	0.25	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Nickel	44	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Selenium	0.89	J	3.8	0.58	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Silver	ND		0.96	0.19	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Thallium	ND		1.9	0.56	mg/Kg		01/30/19 08:58	03/13/19 01:04	4
Vanadium	48		1.9	0.26	mg/Kg		01/30/19 08:58	02/01/19 11:38	4
Zinc	150		5.8	2.4	mg/Kg		01/30/19 08:58	02/01/19 11:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.016	0.0023	mg/Kg		01/30/19 12:27	01/30/19 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			01/29/19 15:07	1

Client Sample ID: DG-AJ12S-3.5-4 Lab Sample ID: 720-91035-15

Date Collected: 01/25/19 10:30 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3		2.0	0.33	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Arsenic	14		4.0	0.34	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Barium	360		2.0	0.28	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Beryllium	0.94		0.40	0.13	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Cadmium	0.59		0.50	0.049	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Chromium	47	B	2.0	0.21	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Cobalt	17		0.79	0.079	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Copper	150	^	5.9	2.8	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Lead	280	^	2.0	0.42	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Molybdenum	0.42	J	2.0	0.25	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Nickel	66	B	2.0	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Selenium	0.94	J	4.0	0.59	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Silver	0.35	J	0.99	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Thallium	ND		2.0	0.57	mg/Kg		01/30/19 08:58	03/13/19 01:09	4
Vanadium	49		2.0	0.27	mg/Kg		01/30/19 08:58	02/01/19 11:53	4
Zinc	690		5.9	2.5	mg/Kg		01/30/19 08:58	02/01/19 11:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.014	0.0021	mg/Kg		01/30/19 12:27	01/30/19 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.9		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AK12S-0.5-1
Lab Sample ID: 720-91035-16
Date Collected: 01/25/19 10:40
Matrix: Solid
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.5	0.25	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Arsenic	11		3.1	0.26	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Barium	48		1.5	0.22	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Beryllium	0.12	J	0.31	0.099	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Cadmium	0.41		0.38	0.038	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Chromium	21	B	1.5	0.16	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Cobalt	4.9		0.61	0.061	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Copper	39		4.6	2.2	mg/Kg		01/30/19 08:58	02/02/19 13:14	4
Lead	100		1.5	0.32	mg/Kg		01/30/19 08:58	02/02/19 13:14	4
Molybdenum	ND		1.5	0.20	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Nickel	19	B	1.5	0.16	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Selenium	ND		3.1	0.46	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Silver	ND		0.76	0.15	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Thallium	ND		1.5	0.44	mg/Kg		01/30/19 08:58	03/13/19 01:13	4
Vanadium	36		1.5	0.21	mg/Kg		01/30/19 08:58	02/01/19 11:58	4
Zinc	88		4.6	1.9	mg/Kg		01/30/19 08:58	02/01/19 11:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.015	0.0022	mg/Kg		01/30/19 12:27	01/30/19 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.8		0.1	0.05	%			01/29/19 15:07	1

Client Sample ID: DG-AK12S-3.5-4 — Lab Sample ID: 720-91035-17

Date Collected: 01/25/19 10:40 — **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	14		1.9	0.32	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Arsenic	10		3.8	0.33	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Barium	440		1.9	0.27	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Beryllium	0.69		0.38	0.13	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Cadmium	0.89		0.48	0.048	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Chromium	61	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Cobalt	13		0.77	0.077	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Copper	140	^	5.8	2.7	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Lead	960	^	1.9	0.40	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Molybdenum	ND		1.9	0.25	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Nickel	61	B	1.9	0.20	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Selenium	ND		3.8	0.58	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Silver	0.59	J	0.96	0.19	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Thallium	ND		1.9	0.56	mg/Kg		01/30/19 08:58	03/13/19 01:18	4
Vanadium	51		1.9	0.26	mg/Kg		01/30/19 08:58	02/01/19 12:02	4
Zinc	520		5.8	2.4	mg/Kg		01/30/19 08:58	02/01/19 12:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.72		0.015	0.0023	mg/Kg		01/30/19 12:27	01/30/19 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.0		0.1	0.05	%			01/29/19 15:07	1

Client Sample ID: DG-AK13S-0.5-1 — Lab Sample ID: 720-91035-18

Date Collected: 01/25/19 10:55 — **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8		1.6	0.27	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Arsenic	40		3.3	0.28	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Barium	100		1.6	0.23	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Beryllium	0.28	J	0.33	0.11	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Cadmium	0.80		0.41	0.040	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Chromium	27	B	1.6	0.17	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Cobalt	11		0.65	0.065	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Copper	200	^	4.9	2.3	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Lead	300	^	1.6	0.34	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Molybdenum	ND		1.6	0.21	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Nickel	23	B	1.6	0.17	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Selenium	0.92	J	3.3	0.49	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Silver	2.3		0.81	0.16	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Thallium	ND		1.6	0.47	mg/Kg		01/30/19 08:58	03/13/19 01:23	4
Vanadium	87		1.6	0.22	mg/Kg		01/30/19 08:58	02/01/19 12:07	4
Zinc	300		4.9	2.1	mg/Kg		01/30/19 08:58	02/01/19 12:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.016	0.0023	mg/Kg		01/30/19 12:27	01/30/19 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			01/29/19 15:07	1

Client Sample ID: DG-AK13S-3.5-4 Lab Sample ID: 720-91035-19

Date Collected: 01/25/19 10:55 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.3		3.7	0.62	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Arsenic	290		7.5	0.63	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Barium	420		1.5	0.21	mg/Kg		01/30/19 08:58	02/01/19 12:12	4
Beryllium	0.40		0.30	0.097	mg/Kg		01/30/19 08:58	02/01/19 12:12	4
Cadmium	0.76	J	0.93	0.093	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Chromium	14	B	3.7	0.40	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Cobalt	12		1.5	0.15	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Copper	140		11	5.3	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Lead	200		3.7	0.78	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Molybdenum	1.1	J	1.5	0.19	mg/Kg		01/30/19 08:58	02/01/19 12:12	4
Nickel	14	B	3.7	0.38	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Selenium	ND		7.5	1.1	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Silver	0.66	J	1.9	0.38	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Thallium	ND		3.7	1.1	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Vanadium	87		3.7	0.51	mg/Kg		01/30/19 08:58	02/02/19 13:18	10
Zinc	210		11	4.7	mg/Kg		01/30/19 08:58	02/02/19 13:18	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.7		0.058	0.0086	mg/Kg		01/30/19 12:27	01/31/19 10:33	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.8		0.1	0.05	%			01/29/19 15:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AL12S-0.5-1

Date Collected: 01/25/19 11:05
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.8	0.30	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Arsenic	8.8		3.6	0.31	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Barium	57		1.8	0.26	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Beryllium	ND		0.36	0.12	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Cadmium	0.48		0.45	0.045	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Chromium	20	B	1.8	0.19	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Cobalt	3.5		0.72	0.072	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Copper	31		5.4	2.6	mg/Kg		01/30/19 08:58	02/02/19 13:23	4
Lead	150		1.8	0.38	mg/Kg		01/30/19 08:58	02/02/19 13:23	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Nickel	22	B	1.8	0.18	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Selenium	ND		3.6	0.54	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Silver	ND		0.90	0.18	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Thallium	ND		1.8	0.52	mg/Kg		01/30/19 08:58	03/13/19 01:42	4
Vanadium	23		1.8	0.25	mg/Kg		01/30/19 08:58	02/01/19 12:17	4
Zinc	110		5.4	2.3	mg/Kg		01/30/19 08:58	02/01/19 12:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.014	0.0021	mg/Kg		01/30/19 12:27	01/30/19 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.2		0.1	0.05	%			01/29/19 15:42	1

Client Sample ID: DG-AL12S-3.5-4 Lab Sample ID: 720-91035-21

Date Collected: 01/25/19 11:05 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	10		1.2	0.20	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Arsenic	13		2.4	0.20	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Barium	730		1.2	0.17	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Beryllium	0.51		0.24	0.078	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Cadmium	1.4		0.30	0.030	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Chromium	31		1.2	0.13	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Cobalt	6.4		0.48	0.048	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Copper	580		3.6	1.7	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Lead	2000		1.2	0.25	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Molybdenum	0.82	J	1.2	0.15	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Nickel	37		1.2	0.12	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Selenium	ND		2.4	0.36	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Silver	1.6		0.60	0.12	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Thallium	ND		1.2	0.35	mg/Kg		01/30/19 08:58	03/12/19 14:52	4
Vanadium	60		1.2	0.16	mg/Kg		01/30/19 08:58	02/01/19 14:40	4
Zinc	990		3.6	1.5	mg/Kg		01/30/19 08:58	02/01/19 14:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.016	0.0023	mg/Kg		02/06/19 10:50	02/06/19 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.8		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AM12S-0.5-1

Date Collected: 01/25/19 11:20
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-22

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.4	0.24	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Arsenic	5.3		2.8	0.24	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Barium	32		1.4	0.20	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Beryllium	0.12	J	0.28	0.092	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Cadmium	0.23	J	0.35	0.035	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Chromium	13		1.4	0.15	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Cobalt	2.8		0.57	0.057	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Copper	22		4.3	2.0	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Lead	64		1.4	0.30	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Nickel	12		1.4	0.14	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Selenium	ND		2.8	0.43	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Silver	ND		0.71	0.14	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Thallium	ND		1.4	0.41	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Vanadium	15		1.4	0.19	mg/Kg		01/30/19 08:58	02/01/19 14:44	4
Zinc	57		4.3	1.8	mg/Kg		01/30/19 08:58	02/01/19 14:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.017	0.0025	mg/Kg		02/06/19 10:50	02/06/19 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.05	%			01/29/19 15:42	1

Client Sample ID: DG-AM12S-3.5-4 Lab Sample ID: 720-91035-23

Date Collected: 01/25/19 11:20 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.2	0.20	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Arsenic	12		2.4	0.21	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Barium	170		1.2	0.17	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Beryllium	0.55		0.24	0.079	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Cadmium	0.42		0.30	0.030	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Chromium	53		1.2	0.13	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Cobalt	12		0.48	0.048	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Copper	81		3.6	1.7	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Lead	110		1.2	0.25	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Molybdenum	0.16	J	1.2	0.16	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Nickel	39		1.2	0.12	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Selenium	0.54	J	2.4	0.36	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Silver	ND		0.61	0.12	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Thallium	ND		1.2	0.35	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Vanadium	50		1.2	0.16	mg/Kg		01/30/19 08:58	02/01/19 14:49	4
Zinc	400		3.6	1.5	mg/Kg		01/30/19 08:58	02/01/19 14:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0025	mg/Kg		02/06/19 10:50	02/06/19 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.05	%			01/29/19 15:42	1

Client Sample ID: DUP-86
Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-24
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	14		1.4	0.23	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Arsenic	17		2.8	0.24	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Barium	51		1.4	0.20	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Beryllium	0.56		0.28	0.092	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Cadmium	0.60		0.35	0.035	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Chromium	66		1.4	0.15	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Cobalt	16		0.56	0.056	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Copper	250		4.2	2.0	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Lead	2600		1.4	0.30	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Molybdenum	4.7		1.4	0.18	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Nickel	65		1.4	0.14	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Selenium	0.53	J	2.8	0.42	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Silver	ND		0.70	0.14	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Thallium	ND		1.4	0.41	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Vanadium	40		1.4	0.19	mg/Kg		01/30/19 08:58	02/01/19 15:04	4
Zinc	140		4.2	1.8	mg/Kg		01/30/19 08:58	02/01/19 15:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.017	0.0025	mg/Kg		02/06/19 10:50	02/06/19 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1		0.1	0.05	%			01/29/19 15:42	1

Client Sample ID: DG-AN12S-0.5-1 Lab Sample ID: 720-91035-25

Date Collected: 01/25/19 12:05 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.1	0.19	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Arsenic	9.5		2.3	0.20	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Barium	22		1.1	0.16	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Beryllium	0.10	J	0.23	0.075	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Cadmium	0.24	J	0.29	0.029	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Chromium	11		1.1	0.12	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Cobalt	2.4		0.46	0.046	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Copper	18		3.4	1.6	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Lead	59		1.1	0.24	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Molybdenum	ND		1.1	0.15	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Nickel	10		1.1	0.12	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Selenium	ND		2.3	0.34	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Silver	ND		0.57	0.12	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Thallium	ND		1.1	0.33	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Vanadium	13		1.1	0.16	mg/Kg		01/30/19 08:58	02/01/19 15:08	4
Zinc	50		3.4	1.5	mg/Kg		01/30/19 08:58	02/01/19 15:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.015	0.0022	mg/Kg		02/06/19 10:50	02/06/19 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.1	0.05	%			01/29/19 15:42	1

Client Sample ID: DG-AN12S-3.5-4 Lab Sample ID: 720-91035-26

Date Collected: 01/25/19 12:05 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.5	0.25	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Arsenic	140		3.1	0.26	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Barium	120		1.5	0.22	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Beryllium	ND		0.31	0.099	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Cadmium	0.54		0.38	0.038	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Chromium	64		1.5	0.16	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Cobalt	14		0.61	0.061	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Copper	110		4.6	2.2	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Lead	34		1.5	0.32	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Molybdenum	ND		1.5	0.20	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Nickel	13		1.5	0.16	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Selenium	2.2	J	3.1	0.46	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Silver	ND		0.76	0.15	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Thallium	1.7		1.5	0.44	mg/Kg		01/30/19 08:58	03/12/19 14:57	4
Vanadium	100		1.5	0.21	mg/Kg		01/30/19 08:58	02/01/19 15:13	4
Zinc	360		4.6	1.9	mg/Kg		01/30/19 08:58	02/01/19 15:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.014	0.0021	mg/Kg		02/06/19 10:50	02/06/19 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AF12S-0.5-1

Date Collected: 01/25/19 12:25
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.2	0.20	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Arsenic	25		2.4	0.20	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Barium	100		1.2	0.17	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Beryllium	0.10	J	0.24	0.078	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Cadmium	0.27	J	0.30	0.030	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Chromium	33		1.2	0.13	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Cobalt	7.7		0.48	0.048	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Copper	52		3.6	1.7	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Lead	150		1.2	0.25	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Molybdenum	0.15	J	1.2	0.15	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Nickel	41		1.2	0.12	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Selenium	ND		2.4	0.36	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Silver	ND		0.60	0.12	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Thallium	ND		1.2	0.35	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Vanadium	41		1.2	0.16	mg/Kg		01/30/19 08:58	02/01/19 15:18	4
Zinc	110		3.6	1.5	mg/Kg		01/30/19 08:58	02/01/19 15:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0025	mg/Kg		02/06/19 10:50	02/06/19 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.7		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AF12S-3.5-4

Date Collected: 01/25/19 12:25
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.3	0.21	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Arsenic	36		2.6	0.22	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Barium	83		1.3	0.18	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Beryllium	0.096	J	0.26	0.083	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Cadmium	0.28	J	0.32	0.032	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Chromium	14		1.3	0.14	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Cobalt	2.5		0.51	0.051	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Copper	94		3.8	1.8	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Lead	280		1.3	0.27	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Molybdenum	ND		1.3	0.16	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Nickel	12		1.3	0.13	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Selenium	ND		2.6	0.38	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Silver	ND		0.64	0.13	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Thallium	ND		1.3	0.37	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Vanadium	14		1.3	0.17	mg/Kg		01/30/19 08:58	02/01/19 15:23	4
Zinc	150		3.8	1.6	mg/Kg		01/30/19 08:58	02/01/19 15:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.015	0.0023	mg/Kg		02/06/19 10:50	02/06/19 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.8		0.1	0.05	%			01/29/19 15:42	1

Client Sample ID: DG-AB12S-0.5-1 Lab Sample ID: 720-91035-29

Date Collected: 01/25/19 12:40 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.4		1.4	0.23	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Arsenic	11		2.8	0.24	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Barium	150		1.4	0.20	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Beryllium	ND		0.28	0.091	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Cadmium	2.5		0.35	0.035	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Chromium	71		1.4	0.15	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Cobalt	13		0.56	0.056	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Copper	570		4.2	2.0	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Lead	830		1.4	0.29	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Molybdenum	5.3		1.4	0.18	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Nickel	72		1.4	0.14	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Selenium	ND		2.8	0.42	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Silver	ND		0.70	0.14	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Thallium	ND		1.4	0.41	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Vanadium	70		1.4	0.19	mg/Kg		01/30/19 08:58	02/01/19 15:28	4
Zinc	260		4.2	1.8	mg/Kg		01/30/19 08:58	02/01/19 15:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61		0.016	0.0023	mg/Kg		02/06/19 10:50	02/06/19 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AB12S-3.5-4
Date Collected: 01/25/19 12:40
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-30
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	250	F2	3.0	0.50	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Arsenic	38	B F1	6.1	0.52	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Barium	170	B	3.0	0.43	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Beryllium	ND		0.61	0.20	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Cadmium	2.2		0.76	0.075	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Chromium	55		3.0	0.32	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Cobalt	16		1.2	0.12	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Copper	4400	F2	9.1	4.3	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Lead	4200		3.0	0.64	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Molybdenum	1.6	J	3.0	0.39	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Nickel	81	F1	3.0	0.31	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Selenium	1.2	J B	6.1	0.91	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Silver	1.6		1.5	0.31	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Thallium	ND		3.0	0.88	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Vanadium	67		3.0	0.41	mg/Kg		01/31/19 08:42	02/01/19 21:15	10
Zinc	930		9.1	3.8	mg/Kg		01/31/19 08:42	02/01/19 21:15	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.016	0.0023	mg/Kg		02/06/19 10:50	02/06/19 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.3		0.1	0.05	%			01/29/19 15:42	1

Client Sample ID: DG-AA12S-0.5-1 Lab Sample ID: 720-91035-31

Date Collected: 01/25/19 12:50 **Matrix: Solid**
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.8		1.2	0.20	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Arsenic	4.9	B	2.4	0.20	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Barium	48	B	1.2	0.17	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Beryllium	ND		0.24	0.077	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Cadmium	0.62		0.30	0.029	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Chromium	21		1.2	0.13	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Cobalt	12		0.47	0.047	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Copper	390		3.6	1.7	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Lead	710		1.2	0.25	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Molybdenum	0.26	J	1.2	0.15	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Nickel	21		1.2	0.12	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Selenium	0.52	J B	2.4	0.36	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Silver	ND		0.59	0.12	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Thallium	ND		1.2	0.34	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Vanadium	91		1.2	0.16	mg/Kg		01/31/19 08:42	02/01/19 21:20	4
Zinc	120		3.6	1.5	mg/Kg		01/31/19 08:42	02/01/19 21:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.016	0.0023	mg/Kg		02/06/19 10:50	02/06/19 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AA12S-3.5-4

Date Collected: 01/25/19 12:50
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.7	0.29	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Arsenic	5.2	B	3.4	0.29	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Barium	61	B	1.7	0.24	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Beryllium	ND		0.34	0.11	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Cadmium	0.68		0.43	0.043	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Chromium	35		1.7	0.18	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Cobalt	12		0.69	0.069	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Copper	170		5.2	2.5	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Lead	620		1.7	0.36	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Nickel	48		1.7	0.18	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Selenium	0.57	J B	3.4	0.52	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Silver	ND		0.86	0.17	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Thallium	ND		1.7	0.50	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Vanadium	70		1.7	0.23	mg/Kg		01/31/19 08:42	02/01/19 21:24	4
Zinc	160		5.2	2.2	mg/Kg		01/31/19 08:42	02/01/19 21:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8		0.059	0.0087	mg/Kg		02/06/19 10:50	02/06/19 14:03	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Z12S-0.5-1
Lab Sample ID: 720-91035-33
Date Collected: 01/25/19 13:05
Matrix: Solid
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.9	0.31	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Arsenic	2.0	J B	3.7	0.31	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Barium	51	B	1.9	0.26	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Beryllium	ND		0.37	0.12	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Cadmium	0.49		0.46	0.046	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Chromium	14		1.9	0.20	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Cobalt	13		0.74	0.074	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Copper	100		5.6	2.6	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Lead	140		1.9	0.39	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Nickel	9.3		1.9	0.19	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Selenium	1.5	J B	3.7	0.56	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Silver	ND		0.93	0.19	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Thallium	ND		1.9	0.54	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Vanadium	110		1.9	0.25	mg/Kg		01/31/19 08:42	02/01/19 21:29	4
Zinc	120		5.6	2.4	mg/Kg		01/31/19 08:42	02/01/19 21:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.078		0.015	0.0022	mg/Kg		02/06/19 10:50	02/06/19 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.8		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Z12S-3.5-4
Lab Sample ID: 720-91035-34
Date Collected: 01/25/19 13:05
Matrix: Solid
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	17		3.6	0.61	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Arsenic	23	B	7.3	0.62	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Barium	290	B	3.6	0.52	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Beryllium	ND		0.73	0.24	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Cadmium	2.0		0.91	0.091	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Chromium	40		3.6	0.39	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Cobalt	14		1.5	0.15	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Copper	330		11	5.2	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Lead	960		3.6	0.77	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Molybdenum	ND		3.6	0.47	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Nickel	41		3.6	0.37	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Selenium	4.0	J B	7.3	1.1	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Silver	1.5	J	1.8	0.37	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Thallium	ND		3.6	1.1	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Vanadium	31		3.6	0.50	mg/Kg		01/31/19 08:42	02/01/19 21:34	10
Zinc	640		11	4.6	mg/Kg		01/31/19 08:42	02/01/19 21:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.52		0.016	0.0024	mg/Kg		02/06/19 10:50	02/06/19 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.4		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DUP-83

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.6	0.26	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Arsenic	1.4	J B	3.2	0.27	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Barium	42	B	1.6	0.23	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Beryllium	ND		0.32	0.10	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Cadmium	0.29	J	0.40	0.039	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Chromium	8.7		1.6	0.17	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Cobalt	15		0.63	0.063	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Copper	96		4.8	2.3	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Lead	53		1.6	0.33	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Nickel	5.7		1.6	0.16	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Selenium	0.63	J B	3.2	0.48	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Silver	ND		0.79	0.16	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Thallium	ND		1.6	0.46	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Vanadium	120		1.6	0.22	mg/Kg		01/31/19 08:42	02/01/19 21:38	4
Zinc	73		4.8	2.0	mg/Kg		01/31/19 08:42	02/01/19 21:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.017	0.0025	mg/Kg		02/06/19 10:50	02/06/19 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DUP-87

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91035-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8		1.8	0.30	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Arsenic	12	B	3.6	0.30	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Barium	250	B	1.8	0.25	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Beryllium	0.47		0.36	0.12	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Cadmium	0.60		0.45	0.044	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Chromium	58		1.8	0.19	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Cobalt	13		0.71	0.071	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Copper	160		5.4	2.5	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Lead	320		1.8	0.38	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Nickel	41		1.8	0.18	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Selenium	1.4	J B	3.6	0.54	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Silver	0.79	J	0.89	0.18	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Thallium	ND		1.8	0.52	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Vanadium	47		1.8	0.24	mg/Kg		01/31/19 08:42	02/01/19 21:43	4
Zinc	590		5.4	2.3	mg/Kg		01/31/19 08:42	02/01/19 21:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080		0.017	0.0025	mg/Kg		02/06/19 10:50	02/06/19 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.0		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Y12S-0.5-1
Lab Sample ID: 720-91035-37
Date Collected: 01/25/19 13:20
Matrix: Solid
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Arsenic	**1.6**	**J B**	3.2	0.27	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Barium	**27**	**B**	1.6	0.23	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Beryllium	ND		0.32	0.10	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Cadmium	**0.20**	**J**	0.40	0.039	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Chromium	**5.1**		1.6	0.17	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Cobalt	**0.60**	**J**	0.63	0.063	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Copper	**9.3**		4.8	2.3	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Lead	**120**		1.6	0.33	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Nickel	**3.9**		1.6	0.16	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Selenium	ND		3.2	0.48	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Silver	ND		0.79	0.16	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Thallium	ND		1.6	0.46	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Vanadium	**4.6**		1.6	0.22	mg/Kg		01/31/19 08:42	02/01/19 21:48	4
Zinc	**37**		4.8	2.0	mg/Kg		01/31/19 08:42	02/01/19 21:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0064**	**J**	0.016	0.0023	mg/Kg		02/06/19 10:50	02/06/19 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.7**		0.1	0.05	%			01/29/19 15:42	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Y12S-3.5-4
Lab Sample ID: 720-91035-38
Date Collected: 01/25/19 13:20
Matrix: Solid
Date Received: 01/25/19 16:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.5		2.0	0.33	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Arsenic	6.0	B	4.0	0.34	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Barium	120	B	2.0	0.28	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Beryllium	ND		0.40	0.13	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Cadmium	0.67		0.50	0.050	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Chromium	23		2.0	0.21	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Cobalt	12		0.80	0.080	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Copper	270		6.0	2.8	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Lead	340		2.0	0.42	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Molybdenum	0.28	J	2.0	0.26	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Nickel	19		2.0	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Selenium	ND		4.0	0.60	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Silver	0.28	J	1.0	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Thallium	ND		2.0	0.58	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Vanadium	80		2.0	0.27	mg/Kg		01/31/19 08:42	02/01/19 22:03	4
Zinc	340		6.0	2.5	mg/Kg		01/31/19 08:42	02/01/19 22:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.015	0.0022	mg/Kg		02/06/19 10:50	02/06/19 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.05	%			01/29/19 15:42	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259362/1-A
Matrix: Solid
Analysis Batch: 259654

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Arsenic	ND		1.0	0.085	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Barium	ND		0.50	0.071	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Beryllium	ND		0.10	0.033	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Cadmium	ND		0.13	0.012	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Chromium	0.0632	J	0.50	0.053	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Cobalt	ND		0.20	0.020	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Copper	ND		1.5	0.71	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Lead	ND		0.50	0.11	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Nickel	0.0554	J	0.50	0.051	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Selenium	ND		1.0	0.15	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Silver	ND		0.25	0.051	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Vanadium	ND		0.50	0.068	mg/Kg		01/30/19 08:58	02/01/19 09:58	1
Zinc	ND		1.5	0.64	mg/Kg		01/30/19 08:58	02/01/19 09:58	1

Lab Sample ID: MB 720-259362/1-A
Matrix: Solid
Analysis Batch: 262175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		2.0	0.58	mg/Kg		01/30/19 08:58	03/12/19 23:14	4

Lab Sample ID: LCS 720-259362/2-A
Matrix: Solid
Analysis Batch: 259654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.5		mg/Kg		99	80 - 120
Arsenic	50.0	49.5		mg/Kg		99	80 - 120
Barium	50.0	47.6		mg/Kg		95	80 - 120
Beryllium	50.0	48.6		mg/Kg		97	80 - 120
Cadmium	50.0	51.2		mg/Kg		102	80 - 120
Chromium	50.0	50.6		mg/Kg		101	80 - 120
Cobalt	50.0	52.2		mg/Kg		104	80 - 120
Copper	50.0	50.4		mg/Kg		101	80 - 120
Lead	50.0	52.4		mg/Kg		105	80 - 120
Molybdenum	50.0	50.7		mg/Kg		101	80 - 120
Nickel	50.0	52.1		mg/Kg		104	80 - 120
Selenium	50.0	49.9		mg/Kg		100	80 - 120
Silver	25.0	24.4		mg/Kg		98	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	51.3		mg/Kg		103	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259362/2-A
Matrix: Solid
Analysis Batch: 262175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259362

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Thallium			50.0	52.2		mg/Kg		104	80 - 120		

Lab Sample ID: 720-91035-7 MS
Matrix: Solid
Analysis Batch: 259654

Client Sample ID: DG-AG12S-0.5-1
Prep Type: Total/NA
Prep Batch: 259362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony	0.92	J	44.6	34.9		mg/Kg		76	75 - 125		
Arsenic	3.7	F1	44.6	61.8	F1	mg/Kg		130	75 - 125		
Barium	34	F1 F2	44.6	95.1	F1	mg/Kg		136	75 - 125		
Beryllium	0.34	J F1	44.6	60.9	F1	mg/Kg		136	75 - 125		
Cadmium	0.37	J F1	44.6	57.8	F1	mg/Kg		129	75 - 125		
Chromium	16	B F1	44.6	80.9	F1	mg/Kg		145	75 - 125		
Cobalt	2.0	F1	44.6	60.6	F1	mg/Kg		131	75 - 125		
Copper	47	F1	44.6	110	F1	mg/Kg		142	75 - 125		
Lead	320		44.6	420	4	mg/Kg		232	75 - 125		
Molybdenum	0.83	J F1	44.6	58.0	F1	mg/Kg		128	75 - 125		
Nickel	6.5	B F1	44.6	64.1	F1	mg/Kg		129	75 - 125		
Selenium	0.94	J F1	44.6	55.4		mg/Kg		122	75 - 125		
Silver	ND	F1	22.3	28.3	F1	mg/Kg		127	75 - 125		
Vanadium	29	F1	44.6	92.4	F1	mg/Kg		142	75 - 125		
Zinc	29	F1	44.6	98.0	F1	mg/Kg		155	75 - 125		

Lab Sample ID: 720-91035-7 MS
Matrix: Solid
Analysis Batch: 262175

Client Sample ID: DG-AG12S-0.5-1
Prep Type: Total/NA
Prep Batch: 259362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Thallium	ND		44.6	55.3		mg/Kg		124	75 - 125		

Lab Sample ID: 720-91035-7 MSD
Matrix: Solid
Analysis Batch: 259654

Client Sample ID: DG-AG12S-0.5-1
Prep Type: Total/NA
Prep Batch: 259362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.92	J	44.2	36.1		mg/Kg		79	75 - 125	3	20
Arsenic	3.7	F1	44.2	68.0	F1	mg/Kg		145	75 - 125	9	20
Barium	34	F1 F2	44.2	120	F1 F2	mg/Kg		194	75 - 125	23	20
Beryllium	0.34	J F1	44.2	65.2	F1	mg/Kg		147	75 - 125	7	20
Cadmium	0.37	J F1	44.2	63.3	F1	mg/Kg		142	75 - 125	9	20
Chromium	16	B F1	44.2	87.1	F1	mg/Kg		160	75 - 125	7	20
Cobalt	2.0	F1	44.2	66.6	F1	mg/Kg		146	75 - 125	9	20
Copper	47	F1	44.2	133	F1	mg/Kg		193	75 - 125	18	20
Lead	320		44.2	439	4	mg/Kg		277	75 - 125	4	20
Molybdenum	0.83	J F1	44.2	64.1	F1	mg/Kg		143	75 - 125	10	20
Nickel	6.5	B F1	44.2	73.2	F1	mg/Kg		151	75 - 125	13	20
Selenium	0.94	J F1	44.2	62.4	F1	mg/Kg		139	75 - 125	12	20
Silver	ND	F1	22.1	31.4	F1	mg/Kg		142	75 - 125	10	20
Vanadium	29	F1	44.2	104	F1	mg/Kg		168	75 - 125	11	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91035-7 MSD
Matrix: Solid
Analysis Batch: 259654

Client Sample ID: DG-AG12S-0.5-1
Prep Type: Total/NA
Prep Batch: 259362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	29	F1	44.2	110	F1	mg/Kg		184	75 - 125	12	20

Lab Sample ID: 720-91035-7 MSD
Matrix: Solid
Analysis Batch: 262175

Client Sample ID: DG-AG12S-0.5-1
Prep Type: Total/NA
Prep Batch: 259362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		44.2	53.9		mg/Kg		122	75 - 125	3	20

Lab Sample ID: MB 720-259383/1-A
Matrix: Solid
Analysis Batch: 259749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Arsenic	ND		1.0	0.085	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Barium	ND		0.50	0.071	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Beryllium	ND		0.10	0.033	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Cadmium	ND		0.13	0.012	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Chromium	ND		0.50	0.053	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Cobalt	ND		0.20	0.020	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Copper	ND		1.5	0.71	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Lead	ND		0.50	0.11	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Nickel	ND		0.50	0.051	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Selenium	ND		1.0	0.15	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Silver	ND		0.25	0.051	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Vanadium	ND		0.50	0.068	mg/Kg		01/30/19 08:58	02/04/19 12:11	1
Zinc	ND		1.5	0.64	mg/Kg		01/30/19 08:58	02/04/19 12:11	1

Lab Sample ID: MB 720-259383/1-A
Matrix: Solid
Analysis Batch: 261821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.15	mg/Kg		01/30/19 08:58	03/12/19 14:09	1

Lab Sample ID: LCS 720-259383/2-A
Matrix: Solid
Analysis Batch: 259749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.2		mg/Kg		100	80 - 120
Arsenic	50.0	50.2		mg/Kg		100	80 - 120
Barium	50.0	46.2		mg/Kg		92	80 - 120
Beryllium	50.0	50.3		mg/Kg		101	80 - 120
Cadmium	50.0	51.5		mg/Kg		103	80 - 120
Chromium	50.0	51.6		mg/Kg		103	80 - 120
Cobalt	50.0	52.4		mg/Kg		105	80 - 120
Copper	50.0	50.1		mg/Kg		100	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259383/2-A
Matrix: Solid
Analysis Batch: 259749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	51.4		mg/Kg		103	80 - 120
Molybdenum	50.0	51.4		mg/Kg		103	80 - 120
Nickel	50.0	50.5		mg/Kg		101	80 - 120
Selenium	50.0	49.2		mg/Kg		98	80 - 120
Silver	25.0	23.4		mg/Kg		94	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	50.6		mg/Kg		101	80 - 120

Lab Sample ID: LCS 720-259383/2-A
Matrix: Solid
Analysis Batch: 261821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	48.6		mg/Kg		97	80 - 120

Lab Sample ID: 720-91016-A-8-C MS
Matrix: Solid
Analysis Batch: 259749

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.93	J F1	35.2	9.17	F1	mg/Kg		23	75 - 125
Arsenic	2.6	J	35.2	30.2		mg/Kg		78	75 - 125
Barium	55	F1	35.2	84.4		mg/Kg		83	75 - 125
Beryllium	0.29		35.2	34.7		mg/Kg		98	75 - 125
Cadmium	0.28	J	35.2	33.6		mg/Kg		95	75 - 125
Chromium	50		35.2	87.2		mg/Kg		106	75 - 125
Cobalt	4.8		35.2	37.2		mg/Kg		92	75 - 125
Copper	16		35.2	49.4		mg/Kg		95	75 - 125
Lead	5.4	^	35.2	37.3		mg/Kg		91	75 - 125
Molybdenum	0.29	J F1	35.2	24.9	F1	mg/Kg		70	75 - 125
Nickel	26		35.2	58.6		mg/Kg		92	75 - 125
Selenium	1.3	J	35.2	30.9		mg/Kg		84	75 - 125
Silver	ND		17.6	16.6		mg/Kg		94	75 - 125
Vanadium	42		35.2	77.7		mg/Kg		101	75 - 125
Zinc	24		35.2	55.5		mg/Kg		88	75 - 125

Lab Sample ID: 720-91016-A-8-C MS
Matrix: Solid
Analysis Batch: 261821

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		35.2	36.8		mg/Kg		105	75 - 125

Lab Sample ID: 720-91016-A-8-D MSD
Matrix: Solid
Analysis Batch: 259749

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.93	J F1	35.5	9.07	F1	mg/Kg		23	75 - 125	1	20
Arsenic	2.6	J	35.5	30.4		mg/Kg		78	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91016-A-8-D MSD
Matrix: Solid
Analysis Batch: 259749

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	55	F1	35.5	103	F1	mg/Kg		134	75 - 125	20	20
Beryllium	0.29		35.5	34.4		mg/Kg		96	75 - 125	1	20
Cadmium	0.28	J	35.5	33.8		mg/Kg		94	75 - 125	1	20
Chromium	50		35.5	88.8		mg/Kg		110	75 - 125	2	20
Cobalt	4.8		35.5	38.8		mg/Kg		96	75 - 125	4	20
Copper	16		35.5	53.6		mg/Kg		107	75 - 125	8	20
Lead	5.4	^	35.5	38.8		mg/Kg		94	75 - 125	4	20
Molybdenum	0.29	J F1	35.5	24.6	F1	mg/Kg		69	75 - 125	1	20
Nickel	26		35.5	66.1		mg/Kg		113	75 - 125	12	20
Selenium	1.3	J	35.5	31.3		mg/Kg		85	75 - 125	1	20
Silver	ND		17.7	17.6		mg/Kg		99	75 - 125	6	20
Vanadium	42		35.5	79.7		mg/Kg		106	75 - 125	2	20
Zinc	24		35.5	60.8		mg/Kg		103	75 - 125	9	20

Lab Sample ID: 720-91016-A-8-D MSD
Matrix: Solid
Analysis Batch: 261821

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		35.5	39.4		mg/Kg		111	75 - 125	7	20

Lab Sample ID: MB 720-259393/1-A
Matrix: Solid
Analysis Batch: 259703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Arsenic	0.0963	J	1.0	0.085	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Barium	0.0882	J	0.50	0.071	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Beryllium	ND		0.10	0.033	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Cadmium	ND		0.13	0.012	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Chromium	ND		0.50	0.053	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Cobalt	ND		0.20	0.020	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Copper	ND		1.5	0.71	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Lead	ND		0.50	0.11	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Nickel	ND		0.50	0.051	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Selenium	0.307	J	1.0	0.15	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Silver	ND		0.25	0.051	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Thallium	ND		0.50	0.15	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Vanadium	ND		0.50	0.068	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Zinc	ND		1.5	0.64	mg/Kg		01/31/19 08:42	02/01/19 20:37	1

Lab Sample ID: LCS 720-259393/2-A
Matrix: Solid
Analysis Batch: 259703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	53.7		mg/Kg		107	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259393/2-A
Matrix: Solid
Analysis Batch: 259703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	54.6		mg/Kg		109	80 - 120
Barium	50.0	55.1		mg/Kg		110	80 - 120
Beryllium	50.0	54.9		mg/Kg		110	80 - 120
Cadmium	50.0	54.8		mg/Kg		110	80 - 120
Chromium	50.0	55.5		mg/Kg		111	80 - 120
Cobalt	50.0	56.1		mg/Kg		112	80 - 120
Copper	50.0	55.4		mg/Kg		111	80 - 120
Lead	50.0	55.7		mg/Kg		111	80 - 120
Molybdenum	50.0	56.1		mg/Kg		112	80 - 120
Nickel	50.0	55.6		mg/Kg		111	80 - 120
Selenium	50.0	53.1		mg/Kg		106	80 - 120
Silver	25.0	25.9		mg/Kg		103	80 - 120
Thallium	50.0	55.7		mg/Kg		111	80 - 120
Vanadium	50.0	54.5		mg/Kg		109	80 - 120
Zinc	50.0	54.8		mg/Kg		110	80 - 120

Lab Sample ID: 720-91035-30 MS
Matrix: Solid
Analysis Batch: 259703

Client Sample ID: DG-AB12S-3.5-4
Prep Type: Total/NA
Prep Batch: 259393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	250	F2	30.5	106	4	mg/Kg		-477	75 - 125
Arsenic	38	B F1	30.5	58.1	F1	mg/Kg		65	75 - 125
Barium	170	B	30.5	213	4	mg/Kg		152	75 - 125
Beryllium	ND		30.5	32.5		mg/Kg		107	75 - 125
Cadmium	2.2		30.5	33.9		mg/Kg		104	75 - 125
Chromium	55		30.5	82.2		mg/Kg		88	75 - 125
Cobalt	16		30.5	46.6		mg/Kg		99	75 - 125
Copper	4400	F2	30.5	4940	4	mg/Kg		1689	75 - 125
Lead	4200		30.5	2590	4	mg/Kg		-5364	75 - 125
Molybdenum	1.6	J	30.5	34.6		mg/Kg		108	75 - 125
Nickel	81	F1	30.5	120	F1	mg/Kg		129	75 - 125
Selenium	1.2	J B	30.5	31.1		mg/Kg		98	75 - 125
Silver	1.6		15.2	17.1		mg/Kg		102	75 - 125
Thallium	ND		30.5	32.0		mg/Kg		105	75 - 125
Vanadium	67		30.5	95.8		mg/Kg		96	75 - 125
Zinc	930		30.5	766	4	mg/Kg		-525	75 - 125

Lab Sample ID: 720-91035-30 MSD
Matrix: Solid
Analysis Batch: 259703

Client Sample ID: DG-AB12S-3.5-4
Prep Type: Total/NA
Prep Batch: 259393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	250	F2	29.8	82.2	4 F2	mg/Kg		-569	75 - 125	25	20
Arsenic	38	B F1	29.8	59.3	F1	mg/Kg		70	75 - 125	2	20
Barium	170	B	29.8	211	4	mg/Kg		149	75 - 125	1	20
Beryllium	ND		29.8	32.4		mg/Kg		109	75 - 125	0	20
Cadmium	2.2		29.8	34.5		mg/Kg		108	75 - 125	2	20
Chromium	55		29.8	87.6		mg/Kg		109	75 - 125	6	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91035-30 MSD — **Client Sample ID: DG-AB12S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259703 — **Prep Batch: 259393**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	16		29.8	48.6		mg/Kg		109	75 - 125	4	20
Copper	4400	F2	29.8	3550	4 F2	mg/Kg		-2938	75 - 125	33	20
Lead	4200		29.8	2370	4	mg/Kg		-6237	75 - 125	9	20
Molybdenum	1.6	J	29.8	34.3		mg/Kg		110	75 - 125	1	20
Nickel	81	F1	29.8	111		mg/Kg		103	75 - 125	8	20
Selenium	1.2	J B	29.8	33.4		mg/Kg		108	75 - 125	7	20
Silver	1.6		14.9	16.8		mg/Kg		102	75 - 125	2	20
Thallium	ND		29.8	30.6		mg/Kg		103	75 - 125	4	20
Vanadium	67		29.8	102		mg/Kg		119	75 - 125	6	20
Zinc	930		29.8	771	4	mg/Kg		-524	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259363/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259549 — **Prep Batch: 259363**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/30/19 12:27	01/30/19 16:39	1

Lab Sample ID: LCS 720-259363/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259549 — **Prep Batch: 259363**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.727		mg/Kg		87	80 - 120

Lab Sample ID: 720-91035-7 MS — **Client Sample ID: DG-AG12S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259549 — **Prep Batch: 259363**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.063		0.746	0.744		mg/Kg		91	75 - 125

Lab Sample ID: 720-91035-7 MSD — **Client Sample ID: DG-AG12S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259549 — **Prep Batch: 259363**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.063		0.746	0.760		mg/Kg		93	75 - 125	2	20

Lab Sample ID: MB 720-259380/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260062 — **Prep Batch: 259380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/06/19 10:50	02/06/19 12:05	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-259380/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260062 — **Prep Batch: 259380**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.822		mg/Kg		99	80 - 120		

Lab Sample ID: 720-91035-22 MS — **Client Sample ID: DG-AM12S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260062 — **Prep Batch: 259380**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.033		0.820	0.871		mg/Kg		102	75 - 125		

Lab Sample ID: 720-91035-22 MSD — **Client Sample ID: DG-AM12S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260062 — **Prep Batch: 259380**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.033		0.833	0.868		mg/Kg		100	75 - 125	0	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91035-1 DU — **Client Sample ID: DG-AE12S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259413

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.8			10.5		%				12	20

Lab Sample ID: 720-91035-20 DU — **Client Sample ID: DG-AL12S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259418

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	15.2			16.1		%				6	20

Metals

Prep Batch: 259362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-1	DG-AE12S-0.5-1	Total/NA	Solid	3050B	
720-91035-2	DG-AE12S-3.5-4	Total/NA	Solid	3050B	
720-91035-3	DG-AE13S-0.5-1	Total/NA	Solid	3050B	
720-91035-4	DG-AE13S-3.5-4	Total/NA	Solid	3050B	
720-91035-5	DG-AG13S-0.5-1	Total/NA	Solid	3050B	
720-91035-6	DG-AG13S-3.5-4	Total/NA	Solid	3050B	
720-91035-7	DG-AG12S-0.5-1	Total/NA	Solid	3050B	
720-91035-8	DG-AG12S-3.5-4	Total/NA	Solid	3050B	
720-91035-9	DG-AI12S-0.5-1	Total/NA	Solid	3050B	
720-91035-10	DG-AI12S-3.5-4	Total/NA	Solid	3050B	
720-91035-11	DG-AH12S-0.5-1	Total/NA	Solid	3050B	
720-91035-12	DUP-85	Total/NA	Solid	3050B	
720-91035-13	DG-AH12S-3.5-4	Total/NA	Solid	3050B	
720-91035-14	DG-AJ12S-0.5-1	Total/NA	Solid	3050B	
720-91035-15	DG-AJ12S-3.5-4	Total/NA	Solid	3050B	
720-91035-16	DG-AK12S-0.5-1	Total/NA	Solid	3050B	
720-91035-17	DG-AK12S-3.5-4	Total/NA	Solid	3050B	
720-91035-18	DG-AK13S-0.5-1	Total/NA	Solid	3050B	
720-91035-19	DG-AK13S-3.5-4	Total/NA	Solid	3050B	
720-91035-20	DG-AL12S-0.5-1	Total/NA	Solid	3050B	
MB 720-259362/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259362/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91035-7 MS	DG-AG12S-0.5-1	Total/NA	Solid	3050B	
720-91035-7 MSD	DG-AG12S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-1	DG-AE12S-0.5-1	Total/NA	Solid	7471A	
720-91035-2	DG-AE12S-3.5-4	Total/NA	Solid	7471A	
720-91035-3	DG-AE13S-0.5-1	Total/NA	Solid	7471A	
720-91035-4	DG-AE13S-3.5-4	Total/NA	Solid	7471A	
720-91035-5	DG-AG13S-0.5-1	Total/NA	Solid	7471A	
720-91035-6	DG-AG13S-3.5-4	Total/NA	Solid	7471A	
720-91035-7	DG-AG12S-0.5-1	Total/NA	Solid	7471A	
720-91035-8	DG-AG12S-3.5-4	Total/NA	Solid	7471A	
720-91035-9	DG-AI12S-0.5-1	Total/NA	Solid	7471A	
720-91035-10	DG-AI12S-3.5-4	Total/NA	Solid	7471A	
720-91035-11	DG-AH12S-0.5-1	Total/NA	Solid	7471A	
720-91035-12	DUP-85	Total/NA	Solid	7471A	
720-91035-13	DG-AH12S-3.5-4	Total/NA	Solid	7471A	
720-91035-14	DG-AJ12S-0.5-1	Total/NA	Solid	7471A	
720-91035-15	DG-AJ12S-3.5-4	Total/NA	Solid	7471A	
720-91035-16	DG-AK12S-0.5-1	Total/NA	Solid	7471A	
720-91035-17	DG-AK12S-3.5-4	Total/NA	Solid	7471A	
720-91035-18	DG-AK13S-0.5-1	Total/NA	Solid	7471A	
720-91035-19	DG-AK13S-3.5-4	Total/NA	Solid	7471A	
720-91035-20	DG-AL12S-0.5-1	Total/NA	Solid	7471A	
MB 720-259363/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259363/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91035-7 MS	DG-AG12S-0.5-1	Total/NA	Solid	7471A	
720-91035-7 MSD	DG-AG12S-0.5-1	Total/NA	Solid	7471A	

Metals

Prep Batch: 259380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-21	DG-AL12S-3.5-4	Total/NA	Solid	7471A	
720-91035-22	DG-AM12S-0.5-1	Total/NA	Solid	7471A	
720-91035-23	DG-AM12S-3.5-4	Total/NA	Solid	7471A	
720-91035-24	DUP-86	Total/NA	Solid	7471A	
720-91035-25	DG-AN12S-0.5-1	Total/NA	Solid	7471A	
720-91035-26	DG-AN12S-3.5-4	Total/NA	Solid	7471A	
720-91035-27	DG-AF12S-0.5-1	Total/NA	Solid	7471A	
720-91035-28	DG-AF12S-3.5-4	Total/NA	Solid	7471A	
720-91035-29	DG-AB12S-0.5-1	Total/NA	Solid	7471A	
720-91035-30	DG-AB12S-3.5-4	Total/NA	Solid	7471A	
720-91035-31	DG-AA12S-0.5-1	Total/NA	Solid	7471A	
720-91035-32	DG-AA12S-3.5-4	Total/NA	Solid	7471A	
720-91035-33	DG-Z12S-0.5-1	Total/NA	Solid	7471A	
720-91035-34	DG-Z12S-3.5-4	Total/NA	Solid	7471A	
720-91035-35	DUP-83	Total/NA	Solid	7471A	
720-91035-36	DUP-87	Total/NA	Solid	7471A	
720-91035-37	DG-Y12S-0.5-1	Total/NA	Solid	7471A	
720-91035-38	DG-Y12S-3.5-4	Total/NA	Solid	7471A	
MB 720-259380/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259380/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91035-22 MS	DG-AM12S-0.5-1	Total/NA	Solid	7471A	
720-91035-22 MSD	DG-AM12S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-21	DG-AL12S-3.5-4	Total/NA	Solid	3050B	
720-91035-22	DG-AM12S-0.5-1	Total/NA	Solid	3050B	
720-91035-23	DG-AM12S-3.5-4	Total/NA	Solid	3050B	
720-91035-24	DUP-86	Total/NA	Solid	3050B	
720-91035-25	DG-AN12S-0.5-1	Total/NA	Solid	3050B	
720-91035-26	DG-AN12S-3.5-4	Total/NA	Solid	3050B	
720-91035-27	DG-AF12S-0.5-1	Total/NA	Solid	3050B	
720-91035-28	DG-AF12S-3.5-4	Total/NA	Solid	3050B	
720-91035-29	DG-AB12S-0.5-1	Total/NA	Solid	3050B	
MB 720-259383/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259383/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91016-A-8-C MS	Matrix Spike	Total/NA	Solid	3050B	
720-91016-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-30	DG-AB12S-3.5-4	Total/NA	Solid	3050B	
720-91035-31	DG-AA12S-0.5-1	Total/NA	Solid	3050B	
720-91035-32	DG-AA12S-3.5-4	Total/NA	Solid	3050B	
720-91035-33	DG-Z12S-0.5-1	Total/NA	Solid	3050B	
720-91035-34	DG-Z12S-3.5-4	Total/NA	Solid	3050B	
720-91035-35	DUP-83	Total/NA	Solid	3050B	
720-91035-36	DUP-87	Total/NA	Solid	3050B	
720-91035-37	DG-Y12S-0.5-1	Total/NA	Solid	3050B	
720-91035-38	DG-Y12S-3.5-4	Total/NA	Solid	3050B	
MB 720-259393/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 259393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-259393/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91035-30 MS	DG-AB12S-3.5-4	Total/NA	Solid	3050B	
720-91035-30 MSD	DG-AB12S-3.5-4	Total/NA	Solid	3050B	

Analysis Batch: 259549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-1	DG-AE12S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-2	DG-AE12S-3.5-4	Total/NA	Solid	7471A	259363
720-91035-3	DG-AE13S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-4	DG-AE13S-3.5-4	Total/NA	Solid	7471A	259363
720-91035-5	DG-AG13S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-6	DG-AG13S-3.5-4	Total/NA	Solid	7471A	259363
720-91035-7	DG-AG12S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-8	DG-AG12S-3.5-4	Total/NA	Solid	7471A	259363
720-91035-9	DG-AI12S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-10	DG-AI12S-3.5-4	Total/NA	Solid	7471A	259363
720-91035-11	DG-AH12S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-12	DUP-85	Total/NA	Solid	7471A	259363
720-91035-13	DG-AH12S-3.5-4	Total/NA	Solid	7471A	259363
720-91035-14	DG-AJ12S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-15	DG-AJ12S-3.5-4	Total/NA	Solid	7471A	259363
720-91035-16	DG-AK12S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-17	DG-AK12S-3.5-4	Total/NA	Solid	7471A	259363
720-91035-18	DG-AK13S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-20	DG-AL12S-0.5-1	Total/NA	Solid	7471A	259363
MB 720-259363/1-A	Method Blank	Total/NA	Solid	7471A	259363
LCS 720-259363/2-A	Lab Control Sample	Total/NA	Solid	7471A	259363
720-91035-7 MS	DG-AG12S-0.5-1	Total/NA	Solid	7471A	259363
720-91035-7 MSD	DG-AG12S-0.5-1	Total/NA	Solid	7471A	259363

Analysis Batch: 259555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-19	DG-AK13S-3.5-4	Total/NA	Solid	7471A	259363

Analysis Batch: 259654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-1	DG-AE12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-2	DG-AE12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-3	DG-AE13S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-4	DG-AE13S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-5	DG-AG13S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-6	DG-AG13S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-7	DG-AG12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-8	DG-AG12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-9	DG-AI12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-10	DG-AI12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-11	DG-AH12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-12	DUP-85	Total/NA	Solid	6010B	259362
720-91035-13	DG-AH12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-14	DG-AJ12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-15	DG-AJ12S-3.5-4	Total/NA	Solid	6010B	259362

Metals (Continued)

Analysis Batch: 259654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-16	DG-AK12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-17	DG-AK12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-18	DG-AK13S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-19	DG-AK13S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-20	DG-AL12S-0.5-1	Total/NA	Solid	6010B	259362
MB 720-259362/1-A	Method Blank	Total/NA	Solid	6010B	259362
LCS 720-259362/2-A	Lab Control Sample	Total/NA	Solid	6010B	259362
720-91035-7 MS	DG-AG12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-7 MSD	DG-AG12S-0.5-1	Total/NA	Solid	6010B	259362

Analysis Batch: 259685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-21	DG-AL12S-3.5-4	Total/NA	Solid	6010B	259383
720-91035-22	DG-AM12S-0.5-1	Total/NA	Solid	6010B	259383
720-91035-23	DG-AM12S-3.5-4	Total/NA	Solid	6010B	259383
720-91035-24	DUP-86	Total/NA	Solid	6010B	259383
720-91035-25	DG-AN12S-0.5-1	Total/NA	Solid	6010B	259383
720-91035-26	DG-AN12S-3.5-4	Total/NA	Solid	6010B	259383
720-91035-27	DG-AF12S-0.5-1	Total/NA	Solid	6010B	259383
720-91035-28	DG-AF12S-3.5-4	Total/NA	Solid	6010B	259383
720-91035-29	DG-AB12S-0.5-1	Total/NA	Solid	6010B	259383

Analysis Batch: 259703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-30	DG-AB12S-3.5-4	Total/NA	Solid	6010B	259393
720-91035-31	DG-AA12S-0.5-1	Total/NA	Solid	6010B	259393
720-91035-32	DG-AA12S-3.5-4	Total/NA	Solid	6010B	259393
720-91035-33	DG-Z12S-0.5-1	Total/NA	Solid	6010B	259393
720-91035-34	DG-Z12S-3.5-4	Total/NA	Solid	6010B	259393
720-91035-35	DUP-83	Total/NA	Solid	6010B	259393
720-91035-36	DUP-87	Total/NA	Solid	6010B	259393
720-91035-37	DG-Y12S-0.5-1	Total/NA	Solid	6010B	259393
720-91035-38	DG-Y12S-3.5-4	Total/NA	Solid	6010B	259393
MB 720-259393/1-A	Method Blank	Total/NA	Solid	6010B	259393
LCS 720-259393/2-A	Lab Control Sample	Total/NA	Solid	6010B	259393
720-91035-30 MS	DG-AB12S-3.5-4	Total/NA	Solid	6010B	259393
720-91035-30 MSD	DG-AB12S-3.5-4	Total/NA	Solid	6010B	259393

Analysis Batch: 259718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-4	DG-AE13S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-5	DG-AG13S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-9	DG-AI12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-10	DG-AI12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-12	DUP-85	Total/NA	Solid	6010B	259362
720-91035-13	DG-AH12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-14	DG-AJ12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-16	DG-AK12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-19	DG-AK13S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-20	DG-AL12S-0.5-1	Total/NA	Solid	6010B	259362

Metals

Analysis Batch: 259749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259383/1-A	Method Blank	Total/NA	Solid	6010B	259383
LCS 720-259383/2-A	Lab Control Sample	Total/NA	Solid	6010B	259383
720-91016-A-8-C MS	Matrix Spike	Total/NA	Solid	6010B	259383
720-91016-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259383

Analysis Batch: 260062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-21	DG-AL12S-3.5-4	Total/NA	Solid	7471A	259380
720-91035-22	DG-AM12S-0.5-1	Total/NA	Solid	7471A	259380
720-91035-23	DG-AM12S-3.5-4	Total/NA	Solid	7471A	259380
720-91035-24	DUP-86	Total/NA	Solid	7471A	259380
720-91035-25	DG-AN12S-0.5-1	Total/NA	Solid	7471A	259380
720-91035-26	DG-AN12S-3.5-4	Total/NA	Solid	7471A	259380
720-91035-27	DG-AF12S-0.5-1	Total/NA	Solid	7471A	259380
720-91035-28	DG-AF12S-3.5-4	Total/NA	Solid	7471A	259380
720-91035-29	DG-AB12S-0.5-1	Total/NA	Solid	7471A	259380
720-91035-30	DG-AB12S-3.5-4	Total/NA	Solid	7471A	259380
720-91035-31	DG-AA12S-0.5-1	Total/NA	Solid	7471A	259380
720-91035-32	DG-AA12S-3.5-4	Total/NA	Solid	7471A	259380
720-91035-33	DG-Z12S-0.5-1	Total/NA	Solid	7471A	259380
720-91035-34	DG-Z12S-3.5-4	Total/NA	Solid	7471A	259380
720-91035-35	DUP-83	Total/NA	Solid	7471A	259380
720-91035-36	DUP-87	Total/NA	Solid	7471A	259380
720-91035-37	DG-Y12S-0.5-1	Total/NA	Solid	7471A	259380
720-91035-38	DG-Y12S-3.5-4	Total/NA	Solid	7471A	259380
MB 720-259380/1-A	Method Blank	Total/NA	Solid	7471A	259380
LCS 720-259380/2-A	Lab Control Sample	Total/NA	Solid	7471A	259380
720-91035-22 MS	DG-AM12S-0.5-1	Total/NA	Solid	7471A	259380
720-91035-22 MSD	DG-AM12S-0.5-1	Total/NA	Solid	7471A	259380

Analysis Batch: 261821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-21	DG-AL12S-3.5-4	Total/NA	Solid	6010B	259383
720-91035-26	DG-AN12S-3.5-4	Total/NA	Solid	6010B	259383
MB 720-259383/1-A	Method Blank	Total/NA	Solid	6010B	259383
LCS 720-259383/2-A	Lab Control Sample	Total/NA	Solid	6010B	259383
720-91016-A-8-C MS	Matrix Spike	Total/NA	Solid	6010B	259383
720-91016-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259383

Analysis Batch: 262175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-1	DG-AE12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-2	DG-AE12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-3	DG-AE13S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-4	DG-AE13S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-5	DG-AG13S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-6	DG-AG13S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-7	DG-AG12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-8	DG-AG12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-9	DG-AI12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-10	DG-AI12S-3.5-4	Total/NA	Solid	6010B	259362

Metals (Continued)

Analysis Batch: 262175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-11	DG-AH12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-12	DUP-85	Total/NA	Solid	6010B	259362
720-91035-13	DG-AH12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-14	DG-AJ12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-15	DG-AJ12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-16	DG-AK12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-17	DG-AK12S-3.5-4	Total/NA	Solid	6010B	259362
720-91035-18	DG-AK13S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-20	DG-AL12S-0.5-1	Total/NA	Solid	6010B	259362
MB 720-259362/1-A	Method Blank	Total/NA	Solid	6010B	259362
LCS 720-259362/2-A	Lab Control Sample	Total/NA	Solid	6010B	259362
720-91035-7 MS	DG-AG12S-0.5-1	Total/NA	Solid	6010B	259362
720-91035-7 MSD	DG-AG12S-0.5-1	Total/NA	Solid	6010B	259362

General Chemistry

Analysis Batch: 259413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-1	DG-AE12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-2	DG-AE12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-3	DG-AE13S-0.5-1	Total/NA	Solid	Moisture	
720-91035-4	DG-AE13S-3.5-4	Total/NA	Solid	Moisture	
720-91035-5	DG-AG13S-0.5-1	Total/NA	Solid	Moisture	
720-91035-6	DG-AG13S-3.5-4	Total/NA	Solid	Moisture	
720-91035-7	DG-AG12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-8	DG-AG12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-9	DG-AI12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-10	DG-AI12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-11	DG-AH12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-12	DUP-85	Total/NA	Solid	Moisture	
720-91035-13	DG-AH12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-14	DG-AJ12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-15	DG-AJ12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-16	DG-AK12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-17	DG-AK12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-18	DG-AK13S-0.5-1	Total/NA	Solid	Moisture	
720-91035-19	DG-AK13S-3.5-4	Total/NA	Solid	Moisture	
720-91035-1 DU	DG-AE12S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 259418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-20	DG-AL12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-21	DG-AL12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-22	DG-AM12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-23	DG-AM12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-24	DUP-86	Total/NA	Solid	Moisture	
720-91035-25	DG-AN12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-26	DG-AN12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-27	DG-AF12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-28	DG-AF12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-29	DG-AB12S-0.5-1	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-30	DG-AB12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-31	DG-AA12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-32	DG-AA12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-33	DG-Z12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-34	DG-Z12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-35	DUP-83	Total/NA	Solid	Moisture	
720-91035-36	DUP-87	Total/NA	Solid	Moisture	
720-91035-37	DG-Y12S-0.5-1	Total/NA	Solid	Moisture	
720-91035-38	DG-Y12S-3.5-4	Total/NA	Solid	Moisture	
720-91035-20 DU	DG-AL12S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AE12S-0.5-1 Lab Sample ID: 720-91035-1

Date Collected: 01/25/19 08:40 **Matrix: Solid**
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/12/19 23:57	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 10:31	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 16:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AE12S-3.5-4 Lab Sample ID: 720-91035-2

Date Collected: 01/25/19 08:40 **Matrix: Solid**
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:01	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 10:36	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 16:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AE13S-0.5-1 Lab Sample ID: 720-91035-3

Date Collected: 01/25/19 09:00 **Matrix: Solid**
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:06	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 10:41	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 16:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AE13S-3.5-4 Lab Sample ID: 720-91035-4

Date Collected: 01/25/19 09:00 **Matrix: Solid**
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259718	02/02/19 12:40	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:11	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 10:55	OBI	TAL PLS

Client Sample ID: DG-AE13S-3.5-4

Lab Sample ID: 720-91035-4

Date Collected: 01/25/19 09:00

Matrix: Solid

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 16:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AG13S-0.5-1

Lab Sample ID: 720-91035-5

Date Collected: 01/25/19 09:10

Matrix: Solid

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259718	02/02/19 12:45	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:16	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:00	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AG13S-3.5-4

Lab Sample ID: 720-91035-6

Date Collected: 01/25/19 09:10

Matrix: Solid

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:21	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:05	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AG12S-0.5-1

Lab Sample ID: 720-91035-7

Date Collected: 01/25/19 09:20

Matrix: Solid

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/12/19 23:52	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 10:27	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 16:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AG12S-3.5-4
Lab Sample ID: 720-91035-8
Date Collected: 01/25/19 09:20
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:25	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:09	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AI12S-0.5-1
Lab Sample ID: 720-91035-9
Date Collected: 01/25/19 09:50
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259718	02/02/19 12:49	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:40	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:14	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AI12S-3.5-4
Lab Sample ID: 720-91035-10
Date Collected: 01/25/19 09:50
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259718	02/02/19 12:54	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:45	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:19	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AH12S-0.5-1
Lab Sample ID: 720-91035-11
Date Collected: 01/25/19 10:10
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:49	BKR	TAL PLS

Client Sample ID: DG-AH12S-0.5-1

Lab Sample ID: 720-91035-11

Date Collected: 01/25/19 10:10

Matrix: Solid

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:24	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DUP-85

Lab Sample ID: 720-91035-12

Date Collected: 01/25/19 00:00

Matrix: Solid

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259718	02/02/19 12:59	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:54	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:28	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AH12S-3.5-4

Lab Sample ID: 720-91035-13

Date Collected: 01/25/19 10:10

Matrix: Solid

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259718	02/02/19 13:04	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 00:59	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:34	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AJ12S-0.5-1

Lab Sample ID: 720-91035-14

Date Collected: 01/25/19 10:30

Matrix: Solid

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259718	02/02/19 13:09	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 01:04	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AJ12S-0.5-1

Lab Sample ID: 720-91035-14

Date Collected: 01/25/19 10:30
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:38	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AJ12S-3.5-4

Lab Sample ID: 720-91035-15

Date Collected: 01/25/19 10:30
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 01:09	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:53	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AK12S-0.5-1

Lab Sample ID: 720-91035-16

Date Collected: 01/25/19 10:40
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259718	02/02/19 13:14	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 01:13	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 11:58	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AK12S-3.5-4

Lab Sample ID: 720-91035-17

Date Collected: 01/25/19 10:40
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 01:18	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 12:02	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:35	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AK12S-3.5-4

Lab Sample ID: 720-91035-17

Date Collected: 01/25/19 10:40
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AK13S-0.5-1

Lab Sample ID: 720-91035-18

Date Collected: 01/25/19 10:55
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 01:23	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 12:07	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AK13S-3.5-4

Lab Sample ID: 720-91035-19

Date Collected: 01/25/19 10:55
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259718	02/02/19 13:18	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 12:12	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		4	259555	01/31/19 10:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259413	01/29/19 15:07	TNL	TAL PLS

Client Sample ID: DG-AL12S-0.5-1

Lab Sample ID: 720-91035-20

Date Collected: 01/25/19 11:05
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259718	02/02/19 13:23	OBI	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262175	03/13/19 01:42	BKR	TAL PLS
Total/NA	Prep	3050B			259362	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259654	02/01/19 12:17	OBI	TAL PLS
Total/NA	Prep	7471A			259363	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259549	01/30/19 17:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AL12S-3.5-4
Lab Sample ID: 720-91035-21
Date Collected: 01/25/19 11:05
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259685	02/01/19 14:40	OBI	TAL PLS
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261821	03/12/19 14:52	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 12:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AM12S-0.5-1
Lab Sample ID: 720-91035-22
Date Collected: 01/25/19 11:20
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259685	02/01/19 14:44	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 12:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AM12S-3.5-4
Lab Sample ID: 720-91035-23
Date Collected: 01/25/19 11:20
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259685	02/01/19 14:49	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 12:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DUP-86
Lab Sample ID: 720-91035-24
Date Collected: 01/25/19 00:00
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259685	02/01/19 15:04	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 12:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-AN12S-0.5-1

Lab Sample ID: 720-91035-25

Date Collected: 01/25/19 12:05
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259685	02/01/19 15:08	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 12:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AN12S-3.5-4

Lab Sample ID: 720-91035-26

Date Collected: 01/25/19 12:05
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259685	02/01/19 15:13	OBI	TAL PLS
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261821	03/12/19 14:57	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 12:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AF12S-0.5-1

Lab Sample ID: 720-91035-27

Date Collected: 01/25/19 12:25
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259685	02/01/19 15:18	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 12:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AF12S-3.5-4

Lab Sample ID: 720-91035-28

Date Collected: 01/25/19 12:25
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259685	02/01/19 15:23	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 12:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AB12S-0.5-1
Lab Sample ID: 720-91035-29
Date Collected: 01/25/19 12:40
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259383	01/30/19 08:58	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259685	02/01/19 15:28	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AB12S-3.5-4
Lab Sample ID: 720-91035-30
Date Collected: 01/25/19 12:40
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259703	02/01/19 21:15	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AA12S-0.5-1
Lab Sample ID: 720-91035-31
Date Collected: 01/25/19 12:50
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 21:20	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AA12S-3.5-4
Lab Sample ID: 720-91035-32
Date Collected: 01/25/19 12:50
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 21:24	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		4	260062	02/06/19 14:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91035-1

Client Sample ID: DG-Z12S-0.5-1

Lab Sample ID: 720-91035-33

Date Collected: 01/25/19 13:05
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 21:29	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-Z12S-3.5-4

Lab Sample ID: 720-91035-34

Date Collected: 01/25/19 13:05
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259703	02/01/19 21:34	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DUP-83

Lab Sample ID: 720-91035-35

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 21:38	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DUP-87

Lab Sample ID: 720-91035-36

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 21:43	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Y12S-0.5-1
Lab Sample ID: 720-91035-37
Date Collected: 01/25/19 13:20
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 21:48	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Client Sample ID: DG-Y12S-3.5-4
Lab Sample ID: 720-91035-38
Date Collected: 01/25/19 13:20
Matrix: Solid
Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:03	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259418	01/29/19 15:42	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91035-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91035-1	DG-AE12S-0.5-1	Solid	01/25/19 08:40	01/25/19 16:00
720-91035-2	DG-AE12S-3.5-4	Solid	01/25/19 08:40	01/25/19 16:00
720-91035-3	DG-AE13S-0.5-1	Solid	01/25/19 09:00	01/25/19 16:00
720-91035-4	DG-AE13S-3.5-4	Solid	01/25/19 09:00	01/25/19 16:00
720-91035-5	DG-AG13S-0.5-1	Solid	01/25/19 09:10	01/25/19 16:00
720-91035-6	DG-AG13S-3.5-4	Solid	01/25/19 09:10	01/25/19 16:00
720-91035-7	DG-AG12S-0.5-1	Solid	01/25/19 09:20	01/25/19 16:00
720-91035-8	DG-AG12S-3.5-4	Solid	01/25/19 09:20	01/25/19 16:00
720-91035-9	DG-AI12S-0.5-1	Solid	01/25/19 09:50	01/25/19 16:00
720-91035-10	DG-AI12S-3.5-4	Solid	01/25/19 09:50	01/25/19 16:00
720-91035-11	DG-AH12S-0.5-1	Solid	01/25/19 10:10	01/25/19 16:00
720-91035-12	DUP-85	Solid	01/25/19 00:00	01/25/19 16:00
720-91035-13	DG-AH12S-3.5-4	Solid	01/25/19 10:10	01/25/19 16:00
720-91035-14	DG-AJ12S-0.5-1	Solid	01/25/19 10:30	01/25/19 16:00
720-91035-15	DG-AJ12S-3.5-4	Solid	01/25/19 10:30	01/25/19 16:00
720-91035-16	DG-AK12S-0.5-1	Solid	01/25/19 10:40	01/25/19 16:00
720-91035-17	DG-AK12S-3.5-4	Solid	01/25/19 10:40	01/25/19 16:00
720-91035-18	DG-AK13S-0.5-1	Solid	01/25/19 10:55	01/25/19 16:00
720-91035-19	DG-AK13S-3.5-4	Solid	01/25/19 10:55	01/25/19 16:00
720-91035-20	DG-AL12S-0.5-1	Solid	01/25/19 11:05	01/25/19 16:00
720-91035-21	DG-AL12S-3.5-4	Solid	01/25/19 11:05	01/25/19 16:00
720-91035-22	DG-AM12S-0.5-1	Solid	01/25/19 11:20	01/25/19 16:00
720-91035-23	DG-AM12S-3.5-4	Solid	01/25/19 11:20	01/25/19 16:00
720-91035-24	DUP-86	Solid	01/25/19 00:00	01/25/19 16:00
720-91035-25	DG-AN12S-0.5-1	Solid	01/25/19 12:05	01/25/19 16:00
720-91035-26	DG-AN12S-3.5-4	Solid	01/25/19 12:05	01/25/19 16:00
720-91035-27	DG-AF12S-0.5-1	Solid	01/25/19 12:25	01/25/19 16:00
720-91035-28	DG-AF12S-3.5-4	Solid	01/25/19 12:25	01/25/19 16:00
720-91035-29	DG-AB12S-0.5-1	Solid	01/25/19 12:40	01/25/19 16:00
720-91035-30	DG-AB12S-3.5-4	Solid	01/25/19 12:40	01/25/19 16:00
720-91035-31	DG-AA12S-0.5-1	Solid	01/25/19 12:50	01/25/19 16:00
720-91035-32	DG-AA12S-3.5-4	Solid	01/25/19 12:50	01/25/19 16:00
720-91035-33	DG-Z12S-0.5-1	Solid	01/25/19 13:05	01/25/19 16:00
720-91035-34	DG-Z12S-3.5-4	Solid	01/25/19 13:05	01/25/19 16:00
720-91035-35	DUP-83	Solid	01/25/19 00:00	01/25/19 16:00
720-91035-36	DUP-87	Solid	01/25/19 00:00	01/25/19 16:00
720-91035-37	DG-Y12S-0.5-1	Solid	01/25/19 13:20	01/25/19 16:00
720-91035-38	DG-Y12S-3.5-4	Solid	01/25/19 13:20	01/25/19 16:00

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925 600.3002

720.91035

Chain of Custody Record

TestAmerica
TestAmerica Laboratories, Inc.
158123

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 25 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91035 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AE12s-0.5-1	25 Jan. 2019	0840	G	S	1	N		X	
2	DG-AE12s-3.5-4		0840							
3	DG-AE13s-0.5-1		0900							
4	DG-AE13s-3.5-4		0900							
5	DG-AG13s-0.5-1		0910							
6	DG-AG13s-3.5-4		0910							
7	DG-AG12s-0.5-1		0920					Y		
8	DG-AG12s-3.5-4		0920							
9	DG-AI12s-0.5-1		0950							
10	DG-AI12s-3.5-4		0950							
11	DG-AH12s-0.5-1		1010							
12	DUP-85	↓	—	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.5°C, 0.5°C, 3.9°C, 2.2°C, 0.3°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd. ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company: Geosyntec	Date/Time 14:10 25 Jan 2019	Received by	Company TA PLS	Date/Time 1-25-19 14:10
Relinquished by	Company JNPLS	Date/Time 16:00 1-25-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA PLS	Date/Time 1-25-19 1600

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

TestAmerica

P 158123

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 25 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AH12s-3.5-4	25 Jan 2019	1010	G	S	1	N		X	
14	DG-AJ12s-0.5-1		1030							
15	DG-AJ12s-3.5-4		1030							
16	DG-AK12s-0.5-1		1040							
17	DG-AK12s-3.5-4		1040							
18	DG-AK13s-0.5-1		1055							
19	DG-AK13s-3.5-4		1055							
20	DG-AL12s-0.5-1		1105							
21	DG-AL12s-3.5-4		1105							
22	DG-AM12s-0.5-1		1120							
23	DG-AM12s-3.5-4		1120							
24	DUP-86	↓	—	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____		
Relinquished by: Nikki Fraiduka	Company: Geosyntec	Date/Time: 17:10 25 Jan 2019	Received by:	Company: TA PLS	Date/Time: 1-25-19 14:10
Relinquished by:	Company: TA PLS	Date/Time: 16:00 1-25-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1-25-19 1640

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica

186123

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 25 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Casey Green
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchan@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25	DG-AN12s-0.5-1	25 Jan 2019	1205	G	S	1	N		X	
26	DG-AN12s-3.5-4		1205							
27	DG-AF12s-0.5-1		1225							
28	DG-AF12s-3.5-4		1225							
29	DG-AB12s-0.5-1		1240							
30	DG-AB12s-3.5-4		1240							
31	DG-AA12s-0.5-1		1250							
32	DG-AA12s-3.5-4		1250							
33	DG-Z12s-0.5-1		1305							
34	DG-Z12s-3.5-4		1305							
35	DUP-83		—							
36	DUP-87	↓	—	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No.: ____

	Company	Date/Time		Company	Date/Time
Relinquished by: Natalie Fabella	Geosyntec	25 Jan, 2019 14:10	Received by:	TA PLS	1-25-19 14:10
Relinquished by:	Company: TA PLS	Date/Time: 1-25-19 16:10	Received by:	Company	Date/Time
Relinquished by	Company	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/25/19/1600

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica

#18123

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 25 January 2019	COC No: 4 of 4 COCs
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	Sampler: Casey Green
1111 Broadway 6th Floor	**Analysis Turnaround Time**			**For Lab Use Only:**
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			Lab Sampling
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Job / SDG No.
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
37	DG-Y12s-0.5-1	25 Jan. 2019	1320	G	S	1	N		X	
38	DG-Y12s-3.5-4	↓	1320	↓	↓	↓			↓	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by: Kailey Fankhauser	Company: Geosyntec	Date/Time: 14:10 25 Jan. 2019	Received by:	Company: TA PLS	Date/Time: 1-25-19 14:10
Relinquished by:	Company: TA PLS	Date/Time: 16:00 1-25-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-25-19 1600

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91035-1

Login Number: 91035
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result (mg/kg) *
720-91035-A-10-A	DG-AI12S-3.5-4	7	ND
720-91035-A-11-A	DG-AH12S-0.5-1	14	ND
720-91035-A-12-A	DUP-85	11	ND
720-91035-A-13-A	DG-AH12S-3.5-4	14	ND
720-91035-A-14-A	DG-AJ12S-0.5-1	19	ND
720-91035-A-15-A	DG-AJ12S-3.5-4	19	ND
720-91035-A-16-A	DG-AK12S-0.5-1	14	ND
720-91035-A-17-A	DG-AK12S-3.5-4	20	ND
720-91035-A-18-A	DG-AK13S-0.5-1	34	ND
720-91035-A-1-A	DG-AE12S-0.5-1	28	ND
720-91035-A-20-A	DG-AL12S-0.5-1	9.1	ND
720-91035-A-21-B	DG-AL12S-3.5-4	21	ND
720-91035-A-26-B	DG-AN12S-3.5-4	35	1.7
720-91035-A-2-A	DG-AE12S-3.5-4	13	ND
720-91035-A-3-A	DG-AE13S-0.5-1	33	ND

* ND values are ND at the same RL originally reported.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result (mg/kg) *
720-91035-A-4-A	DG-AE13S-3.5-4	9	ND
720-91035-A-5-A	DG-AG13S-0.5-1	11	ND
720-91035-A-6-A	DG-AG13S-3.5-4	19	ND
720-91035-A-7-C	DG-AG12S-0.5-1	12	ND
720-91035-A-8-A	DG-AG12S-3.5-4	12	ND
720-91035-A-9-A	DG-AI12S-0.5-1	15	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa A Brewer

Melissa Brewer
Quality Assurance Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91036-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Jill Kellmann

Authorized for release by:
2/15/2019 2:32:53 PM
Jill Kellmann, Manager of Project Management
(916)374-4402
jill.kellmann@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91036-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91036-1

Comments
No additional comments.

Receipt
The samples were received on 1/25/2019 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.3º C, 0.5º C, 0.5º C, 2.2º C and 3.9º C.

GC/MS VOA
Method(s) 8260B, 8260B/CA_LUFTMS: The following volatile sample was received and analyzed with significant headspace in the sample container(s): DG-AA19W (720-91036-5). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B: The following volatile samples were analyzed with significant headspace in the sample containers due to multiple analyses: DG-AB13W (720-91036-9) and DUP-110 (720-91036-11). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B: Sample DG-R9W (720-91036-6) was re-analyzed in batch 440-526984 and used as the parent sample for MS/MSD in error. In order to be able to report the MS/MSD results for this batch, the reanalysis results for the unspiked sample are used for calculation of MS/MSD recoveries in the QC sample report. 1,2 -Dichloropropane was low in the CCV for batch 440-526984, and thus no results for 1,2-dichloropropane are reported from this batch. Only the MS/MSD from sample DG-R9W (720-91036-6) and samples DG-AB13W (720-91036-9) and DUP-110 (720-91036-11) were reported from batch 440-526984. All target analytes for DG-R9W (720-91036-6) were reported from batch 440-526751.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C SIM: Per client request, the following samples underwent the gravity separation procedure prior to extraction. DG-AB17W (720-91036-3) and DG-AA15W (720-91036-8)

Method(s) 8270C SIM: The continuing calibration verification (CCV) associated with batch 440-526356 recovered above the upper control limit for Benzo[a]anthracene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. Affected results are qualified with a ^ symbol.

Method 8270C SIM: Surrogate Nitrobenzene-d5 recovery for the following samples were outside control limits: DG-AI15W (720-91036-1) and DG-AA19W (720-91036-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batches 440-525721 and 440-526090 and analytical batches 440-525834 and 440-526358. A laboratory control sample (LCS) was performed in duplicate to provide precision data for these batches: (LCS 440-525721/2-A), (LCS 440-526090/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-259288 and analytical batch 720-259445 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB (ICSA 720-259497/7) and (ICSAB 720-259497/8), but target elements passed recoveries.

Job ID: 720-91036-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-525721. Method 8015B

Method 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume: DG-AD17W (720-91036-2). The reporting limits (RLs) are elevated proportionately. Method 8015B

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526090. A LCS was performed in duplicate to provide precision of data. Method 8015B

Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation/analysis: DG-AA15W (720-91036-8). Method 8015B

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526142. A LCS was performed in duplicate to provide precision of data. Method 8270C-SIM-PAH.

Method 3520C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation/analysis: DG-AB17W (720-91036-3). Method 8270C-SIM-PAH

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DG-AI15W — Lab Sample ID: 720-91036-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	260		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Methyl tert-butyl ether	11		0.50	0.25	ug/L	1		8260B	Total/NA
Acetone	24		20	10	ug/L	1		8260B	Total/NA
Benzene	14		0.50	0.25	ug/L	1		8260B	Total/NA
Ethylbenzene	7.3		0.50	0.25	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.58		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	8.3		1.0	0.40	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.6		0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	3.4		0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	1.7		0.50	0.25	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.44	J	0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	16		1.0	0.50	ug/L	1		8260B	Total/NA
Naphthalene	11		1.0	0.52	ug/L	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	4700		530	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	360	J	530	110	ug/L	1		8015B	Total/NA
Arsenic	16		10	2.9	ug/L	1		6010B	Dissolved
Barium	250	B	50	1.6	ug/L	1		6010B	Dissolved
Nickel	6.9	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	7.4	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AD17W — Lab Sample ID: 720-91036-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	20	10	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.34	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.88	J	1.0	0.40	ug/L	1		8260B	Total/NA
Naphthalene	1.2		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Acenaphthene	5.3		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Fluorene	1.3		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Phenanthrene	1.6		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Anthracene	0.56		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Chrysene	0.21		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.14	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Fluoranthene	1.6		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.79		0.21	0.11	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene - RA	0.16	J	0.21	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2200		1100	210	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2500		1100	210	ug/L	1		8015B	Total/NA
Arsenic	13		10	2.9	ug/L	1		6010B	Dissolved
Barium	310	B	50	1.6	ug/L	1		6010B	Dissolved
Cobalt	3.3		2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	12		10	2.9	ug/L	1		6010B	Dissolved
Nickel	7.2	J	10	1.0	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AB17W — Lab Sample ID: 720-91036-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	700		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	0.43	J	1.0	0.40	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample ID: DG-AB17W (Continued) — Lab Sample ID: 720-91036-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.25		0.23	0.11	ug/L	1		8270C SIM	Total/NA
Acenaphthene	4.4		0.23	0.11	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.18	J	0.23	0.11	ug/L	1		8270C SIM	Total/NA
Fluorene	0.14	J	0.23	0.11	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.32		0.23	0.11	ug/L	1		8270C SIM	Total/NA
Anthracene	0.22	J	0.23	0.11	ug/L	1		8270C SIM	Total/NA
Chrysene	0.12	J	0.23	0.11	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.50		0.23	0.11	ug/L	1		8270C SIM	Total/NA
Pyrene	0.53		0.23	0.11	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1100		540	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	630		540	110	ug/L	1		8015B	Total/NA
Barium	110	B	50	1.6	ug/L	1		6010B	Dissolved

Client Sample ID: FB-1.25.19 — Lab Sample ID: 720-91036-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	55		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: DG-AA19W — Lab Sample ID: 720-91036-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	1600		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	1.7		1.0	0.52	ug/L	5		8270C SIM	Total/NA
Acenaphthene	2.8		1.0	0.52	ug/L	5		8270C SIM	Total/NA
Phenanthrene	2.4		1.0	0.52	ug/L	5		8270C SIM	Total/NA
Motor Oil Range Organics [C24-C36]	990		530	110	ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28] - DL	12000		5300	1100	ug/L	10		8015B	Total/NA
Arsenic	17		10	2.9	ug/L	1		6010B	Dissolved
Barium	1700	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.3	J	10	0.70	ug/L	1		6010B	Dissolved

Client Sample ID: DG-R9W — Lab Sample ID: 720-91036-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	24		20	10	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	170	J	520	100	ug/L	1		8015B	Total/NA
Arsenic	65		10	2.9	ug/L	1		6010B	Dissolved
Barium	62	B	50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.25	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.7	J	10	0.70	ug/L	1		6010B	Dissolved
Molybdenum	43		10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.9	J	10	1.0	ug/L	1		6010B	Dissolved
Mercury	0.12	J	0.20	0.10	ug/L	1		7470A	Dissolved

Client Sample ID: DG-X13W — Lab Sample ID: 720-91036-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.61		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.19	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Fluorene	0.42		0.21	0.10	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DG-X13W (Continued) — Lab Sample ID: 720-91036-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.33		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.11	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.13	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1400		520	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	190	J	520	100	ug/L	1		8015B	Total/NA
Barium	110	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.1	J	10	0.70	ug/L	1		6010B	Dissolved
Molybdenum	3.6	J	10	2.9	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AA15W — Lab Sample ID: 720-91036-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	10		1.0	0.40	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	5.2		0.50	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.6		0.50	0.25	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	1.3		0.50	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	0.34	J	0.50	0.25	ug/L	1		8260B	Total/NA
Vinyl chloride	1.3		0.50	0.25	ug/L	1		8260B	Total/NA
Acenaphthene	0.16	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.13	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	870		630	130	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	450	J	630	130	ug/L	1		8015B	Total/NA
Barium	66	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.6	J	10	0.70	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AB13W — Lab Sample ID: 720-91036-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.23		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluorene	0.17	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.40		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.21		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.21		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	400	J	510	100	ug/L	1		8015B	Total/NA
Arsenic	4.2	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	280	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.91	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	0.83	J	2.0	0.68	ug/L	1		6010B	Dissolved
Nickel	3.1	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	0.89	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	9.8	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: TB-1.25.19 — Lab Sample ID: 720-91036-10

No Detections.

Client Sample ID: DUP-110 — Lab Sample ID: 720-91036-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.14	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.12	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DUP-110 (Continued)

Lab Sample ID: 720-91036-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.14	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.12	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	600		490	99	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	100	J	490	99	ug/L	1		8015B	Total/NA
Arsenic	5.3	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	290	B	50	1.6	ug/L	1		6010B	Dissolved
Zinc	8.6	J	20	7.4	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DG-AI15W
Date Collected: 01/25/19 08:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	260		50	35	ug/L			02/05/19 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/05/19 14:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/05/19 14:35*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/05/19 14:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	11		0.50	0.25	ug/L			02/05/19 14:35	1
Acetone	24		20	10	ug/L			02/05/19 14:35	1
Benzene	14		0.50	0.25	ug/L			02/05/19 14:35	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 14:35	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 14:35	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 14:35	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 14:35	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Chloroethane	ND		1.0	0.40	ug/L			02/05/19 14:35	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 14:35	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 14:35	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Ethylbenzene	7.3		0.50	0.25	ug/L			02/05/19 14:35	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 14:35	1

Client Sample ID: DG-AI15W
Date Collected: 01/25/19 08:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 14:35	1
Isopropylbenzene	**0.58**		0.50	0.25	ug/L			02/05/19 14:35	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 14:35	1
Naphthalene	**8.3**		1.0	0.40	ug/L			02/05/19 14:35	1
N-Propylbenzene	**1.6**		0.50	0.25	ug/L			02/05/19 14:35	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Toluene	**3.4**		0.50	0.25	ug/L			02/05/19 14:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 14:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 14:35	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Trichloroethene	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 14:35	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 14:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 14:35	1
1,2,4-Trimethylbenzene	**1.7**		0.50	0.25	ug/L			02/05/19 14:35	1
1,3,5-Trimethylbenzene	**0.44**	**J**	0.50	0.25	ug/L			02/05/19 14:35	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 14:35	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/05/19 14:35	1
Xylenes, Total	**16**		1.0	0.50	ug/L			02/05/19 14:35	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/05/19 14:35*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/05/19 14:35*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**11**		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Acenaphthene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Acenaphthylene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Fluorene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Phenanthrene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Anthracene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Benzo[a]anthracene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Chrysene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Benzo[a]pyrene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Benzo[b]fluoranthene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Benzo[k]fluoranthene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Benzo[g,h,i]perylene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Indeno[1,2,3-cd]pyrene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Fluoranthene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Pyrene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5
Dibenz(a,h)anthracene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 22:59	5

Client Sample ID: DG-AI15W

Date Collected: 01/25/19 08:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*38 - 120*	*01/30/19 10:58*	*02/05/19 22:59*	*5*
Nitrobenzene-d5	*846*	*X*	*10 - 120*	*01/30/19 10:58*	*02/05/19 22:59*	*5*
Terphenyl-d14	*91*		*21 - 120*	*01/30/19 10:58*	*02/05/19 22:59*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4700**		530	110	ug/L		01/30/19 05:59	01/30/19 12:56	1
Motor Oil Range Organics [C24-C36]	**360**	**J**	530	110	ug/L		01/30/19 05:59	01/30/19 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*63*		*45 - 120*	*01/30/19 05:59*	*01/30/19 12:56*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:18	1
Arsenic	**16**		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:18	1
Barium	**250**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 18:18	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:18	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:18	1
Chromium	ND		10	0.70	ug/L		01/26/19 10:40	01/29/19 18:18	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:18	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 18:18	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:18	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:18	1
Nickel	**6.9**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 18:18	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:18	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:18	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 18:18	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 18:18	1
Zinc	**7.4**	**J**	20	7.4	ug/L		01/26/19 10:40	01/29/19 18:18	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 17:00	1

Client Sample ID: DG-AD17W

Date Collected: 01/25/19 09:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-2

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/05/19 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/05/19 12:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/05/19 12:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/05/19 12:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Acetone	**13**	**J**	20	10	ug/L			02/05/19 12:03	1
Benzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 12:03	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 12:03	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 12:03	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 12:03	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Chloroethane	ND		1.0	0.40	ug/L			02/05/19 12:03	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 12:03	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 12:03	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
cis-1,2-Dichloroethene	**0.34**	**J**	0.50	0.25	ug/L			02/05/19 12:03	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 12:03	1

Client Sample ID: DG-AD17W
Date Collected: 01/25/19 09:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 12:03	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 12:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 12:03	1
Naphthalene	**0.88**	**J**	1.0	0.40	ug/L			02/05/19 12:03	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Toluene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 12:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 12:03	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Trichloroethene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 12:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 12:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 12:03	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/05/19 12:03	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/05/19 12:03	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/05/19 12:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/05/19 12:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.2**		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Acenaphthene	**5.3**		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Acenaphthylene	ND		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Fluorene	**1.3**		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Phenanthrene	**1.6**		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Anthracene	**0.56**		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Chrysene	**0.21**		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Benzo[b]fluoranthene	**0.14**	**J**	0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Fluoranthene	**1.6**		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Pyrene	**0.79**		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		01/30/19 10:58	02/01/19 16:41	1

Client Sample ID: DG-AD17W

Date Collected: 01/25/19 09:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*38 - 120*	*01/30/19 10:58*	*02/01/19 16:41*	*1*
Nitrobenzene-d5	*101*		*10 - 120*	*01/30/19 10:58*	*02/01/19 16:41*	*1*
Terphenyl-d14	*53*		*21 - 120*	*01/30/19 10:58*	*02/01/19 16:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.16**	**J**	0.21	0.11	ug/L		01/30/19 10:58	02/05/19 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*38 - 120*	*01/30/19 10:58*	*02/05/19 21:27*	*1*
Nitrobenzene-d5	*73*		*10 - 120*	*01/30/19 10:58*	*02/05/19 21:27*	*1*
Terphenyl-d14	*53*		*21 - 120*	*01/30/19 10:58*	*02/05/19 21:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2200**		1100	210	ug/L		01/30/19 05:59	01/30/19 13:39	1
Motor Oil Range Organics [C24-C36]	**2500**		1100	210	ug/L		01/30/19 05:59	01/30/19 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*45 - 120*	*01/30/19 05:59*	*01/30/19 13:39*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:23	1
Arsenic	**13**		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:23	1
Barium	**310**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 18:23	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:23	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:23	1
Chromium	ND		10	0.70	ug/L		01/26/19 10:40	01/29/19 18:23	1
Cobalt	**3.3**		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:23	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 18:23	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:23	1
Molybdenum	**12**		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:23	1
Nickel	**7.2**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 18:23	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:23	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:23	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/30/19 12:59	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 18:23	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 18:23	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 17:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DG-AB17W
Date Collected: 01/25/19 09:40
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	700		50	35	ug/L			02/05/19 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/05/19 15:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/05/19 15:26*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/05/19 15:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Acetone	ND		20	10	ug/L			02/05/19 15:26	1
Benzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 15:26	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 15:26	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 15:26	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 15:26	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Chloroethane	ND		1.0	0.40	ug/L			02/05/19 15:26	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 15:26	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 15:26	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 15:26	1

Client Sample ID: DG-AB17W

Date Collected: 01/25/19 09:40
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 15:26	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 15:26	1
Naphthalene	**0.43**	**J**	1.0	0.40	ug/L			02/05/19 15:26	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Toluene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 15:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 15:26	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Trichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 15:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 15:26	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/05/19 15:26	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/05/19 15:26	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*02/05/19 15:26*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/05/19 15:26*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.25**		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Acenaphthene	**4.4**		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Acenaphthylene	**0.18**	**J**	0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Fluorene	**0.14**	**J**	0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Phenanthrene	**0.32**		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Anthracene	**0.22**	**J**	0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Benzo[a]anthracene	ND		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Chrysene	**0.12**	**J**	0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Benzo[a]pyrene	ND		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Benzo[b]fluoranthene	ND		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Benzo[k]fluoranthene	ND		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Benzo[g,h,i]perylene	ND		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Indeno[1,2,3-cd]pyrene	ND		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Fluoranthene	**0.50**		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Pyrene	**0.53**		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1
Dibenz(a,h)anthracene	ND		0.23	0.11	ug/L		01/31/19 13:42	02/01/19 16:18	1

Client Sample ID: DG-AB17W

Date Collected: 01/25/19 09:40
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*38 - 120*	*01/31/19 13:42*	*02/01/19 16:18*	*1*
Nitrobenzene-d5	*107*		*10 - 120*	*01/31/19 13:42*	*02/01/19 16:18*	*1*
Terphenyl-d14	*89*		*21 - 120*	*01/31/19 13:42*	*02/01/19 16:18*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1100**		540	110	ug/L		01/31/19 14:03	02/02/19 01:24	1
Motor Oil Range Organics [C24-C36]	**630**		540	110	ug/L		01/31/19 14:03	02/02/19 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*45 - 120*	*01/31/19 14:03*	*02/02/19 01:24*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:28	1
Arsenic	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:28	1
Barium	**110**	**B**	50	1.6	ug/L		01/26/19 10:40	01/29/19 18:28	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:28	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:28	1
Chromium	ND		10	0.70	ug/L		01/26/19 10:40	01/29/19 18:28	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:28	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 18:28	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:28	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:28	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 18:28	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:28	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:28	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 18:28	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 18:28	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 18:28	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 17:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: FB-1.25.19
Date Collected: 01/25/19 09:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/06/19 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/06/19 12:17*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/06/19 12:17*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*02/06/19 12:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Acetone	**55**		20	10	ug/L			02/05/19 15:51	1
Benzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 15:51	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 15:51	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 15:51	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 15:51	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Chloroethane	ND		1.0	0.40	ug/L			02/05/19 15:51	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 15:51	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 15:51	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 15:51	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: FB-1.25.19
Date Collected: 01/25/19 09:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 15:51	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 15:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 15:51	1
Naphthalene	ND		1.0	0.40	ug/L			02/05/19 15:51	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Toluene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 15:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 15:51	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Trichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 15:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 15:51	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/05/19 15:51	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/05/19 15:51	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*02/05/19 15:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/05/19 15:51*	*1*

Client Sample ID: DG-AA19W
Date Collected: 01/25/19 10:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	1600		50	35	ug/L			02/05/19 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/05/19 16:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/05/19 16:17*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/05/19 16:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Acetone	ND		20	10	ug/L			02/05/19 16:17	1
Benzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 16:17	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 16:17	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 16:17	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 16:17	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Chloroethane	ND		1.0	0.40	ug/L			02/05/19 16:17	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 16:17	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 16:17	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 16:17	1

Client Sample ID: DG-AA19W
Date Collected: 01/25/19 10:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 16:17	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 16:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 16:17	1
Naphthalene	ND		1.0	0.40	ug/L			02/05/19 16:17	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Toluene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 16:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 16:17	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Trichloroethene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 16:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 16:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 16:17	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/05/19 16:17	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/05/19 16:17	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*02/05/19 16:17*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/05/19 16:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.7**		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Acenaphthene	**2.8**		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Acenaphthylene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Fluorene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Phenanthrene	**2.4**		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Anthracene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Benzo[a]anthracene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Chrysene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Benzo[a]pyrene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Benzo[b]fluoranthene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Benzo[k]fluoranthene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Benzo[g,h,i]perylene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Indeno[1,2,3-cd]pyrene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Fluoranthene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Pyrene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5
Dibenz(a,h)anthracene	ND		1.0	0.52	ug/L		01/30/19 10:58	02/05/19 23:22	5

Client Sample ID: DG-AA19W

Date Collected: 01/25/19 10:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*38 - 120*	*01/30/19 10:58*	*02/05/19 23:22*	*5*
Nitrobenzene-d5	*152*	*X*	*10 - 120*	*01/30/19 10:58*	*02/05/19 23:22*	*5*
Terphenyl-d14	*67*		*21 - 120*	*01/30/19 10:58*	*02/05/19 23:22*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**990**		530	110	ug/L		01/30/19 05:59	01/30/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*45 - 120*	*01/30/19 05:59*	*01/30/19 13:18*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12000**		5300	1100	ug/L		01/30/19 05:59	01/30/19 15:48	10

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:43	1
Arsenic	**17**		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:43	1
Barium	**1700**	**B**	50	1.6	ug/L		01/26/19 10:40	01/30/19 13:04	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:43	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:43	1
Chromium	**1.3**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 18:43	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:43	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 18:43	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:43	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:43	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 18:43	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:43	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:43	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/30/19 13:04	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 18:43	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 18:43	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 17:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DG-R9W
Date Collected: 01/25/19 11:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/06/19 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/06/19 10:58*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*02/06/19 10:58*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*02/06/19 10:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Acetone	**24**		20	10	ug/L			02/05/19 16:42	1
Benzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 16:42	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 16:42	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 16:42	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 16:42	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Chloroethane	ND		1.0	0.40	ug/L			02/05/19 16:42	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 16:42	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 16:42	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 16:42	1

Client Sample ID: DG-R9W
Date Collected: 01/25/19 11:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 16:42	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 16:42	1
Naphthalene	ND		1.0	0.40	ug/L			02/05/19 16:42	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Toluene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 16:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 16:42	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Trichloroethene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 16:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 16:42	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/05/19 16:42	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/05/19 16:42	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*02/05/19 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/06/19 10:58*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/05/19 16:42*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*02/06/19 10:58*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Acenaphthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Fluorene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Phenanthrene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Anthracene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Chrysene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Fluoranthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1
Pyrene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1

Client Sample ID: DG-R9W

Date Collected: 01/25/19 11:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-6

Matrix: Water

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*38 - 120*	*01/30/19 10:58*	*02/01/19 17:04*	*1*
Nitrobenzene-d5	*97*		*10 - 120*	*01/30/19 10:58*	*02/01/19 17:04*	*1*
Terphenyl-d14	*47*		*21 - 120*	*01/30/19 10:58*	*02/01/19 17:04*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**	**J**	520	100	ug/L		01/30/19 05:59	01/30/19 12:35	1
Motor Oil Range Organics [C24-C36]	ND		520	100	ug/L		01/30/19 05:59	01/30/19 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*61*		*45 - 120*	*01/30/19 05:59*	*01/30/19 12:35*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:48	1
Arsenic	**65**		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:48	1
Barium	**62**	**B**	50	1.6	ug/L		01/26/19 10:40	01/30/19 13:09	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:48	1
Cadmium	**0.25**	**J**	2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:48	1
Chromium	**1.7**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 18:48	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:48	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 18:48	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:48	1
Molybdenum	**43**		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:48	1
Nickel	**2.9**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 18:48	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:48	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:48	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/30/19 13:09	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 18:48	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 18:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**	**J**	0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 17:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DG-X13W
Date Collected: 01/25/19 11:40
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/05/19 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/05/19 17:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/05/19 17:08*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/05/19 17:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Acetone	ND		20	10	ug/L			02/05/19 17:08	1
Benzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 17:08	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 17:08	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 17:08	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 17:08	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Chloroethane	ND		1.0	0.40	ug/L			02/05/19 17:08	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 17:08	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 17:08	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 17:08	1

Client Sample ID: DG-X13W

Date Collected: 01/25/19 11:40
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 17:08	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 17:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 17:08	1
Naphthalene	ND		1.0	0.40	ug/L			02/05/19 17:08	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Toluene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 17:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 17:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Trichloroethene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 17:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 17:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 17:08	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/05/19 17:08	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/05/19 17:08	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/05/19 17:08*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/05/19 17:08*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Acenaphthene	**0.61**		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Acenaphthylene	**0.19**	**J**	0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Fluorene	**0.42**		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Phenanthrene	**0.33**		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Anthracene	**0.11**	**J**	0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Chrysene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Fluoranthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Pyrene	**0.13**	**J**	0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 17:27	1

Client Sample ID: DG-X13W

Date Collected: 01/25/19 11:40
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*38 - 120*	*01/30/19 10:58*	*02/01/19 17:27*	*1*
Nitrobenzene-d5	*83*		*10 - 120*	*01/30/19 10:58*	*02/01/19 17:27*	*1*
Terphenyl-d14	*72*		*21 - 120*	*01/30/19 10:58*	*02/01/19 17:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1400**		520	100	ug/L		01/30/19 05:59	01/30/19 14:43	1
Motor Oil Range Organics [C24-C36]	**190**	**J**	520	100	ug/L		01/30/19 05:59	01/30/19 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*01/30/19 05:59*	*01/30/19 14:43*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:53	1
Arsenic	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:53	1
Barium	**110**	**B**	50	1.6	ug/L		01/26/19 10:40	01/30/19 13:14	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:53	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:53	1
Chromium	**1.1**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 18:53	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:53	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 18:53	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:53	1
Molybdenum	**3.6**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 18:53	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 18:53	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:53	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:53	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/30/19 13:14	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 18:53	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 18:53	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 17:00	1

Client Sample ID: DG-AA15W

Date Collected: 01/25/19 12:20
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-8

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/05/19 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/05/19 17:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/05/19 17:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/05/19 17:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Acetone	ND		20	10	ug/L			02/05/19 17:33	1
Benzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 17:33	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 17:33	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 17:33	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 17:33	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Chloroethane	**10**		1.0	0.40	ug/L			02/05/19 17:33	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 17:33	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 17:33	1
1,1-Dichloroethane	**5.2**		0.50	0.25	ug/L			02/05/19 17:33	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
cis-1,2-Dichloroethene	**3.6**		0.50	0.25	ug/L			02/05/19 17:33	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 17:33	1

Client Sample ID: DG-AA15W

Date Collected: 01/25/19 12:20
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 17:33	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 17:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 17:33	1
Naphthalene	ND		1.0	0.40	ug/L			02/05/19 17:33	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Toluene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 17:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 17:33	1
1,1,1-Trichloroethane	**1.3**		0.50	0.25	ug/L			02/05/19 17:33	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Trichloroethene	**0.34**	**J**	0.50	0.25	ug/L			02/05/19 17:33	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 17:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 17:33	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 17:33	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 17:33	1
Vinyl chloride	**1.3**		0.50	0.25	ug/L			02/05/19 17:33	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/05/19 17:33	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/05/19 17:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/05/19 17:33*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Acenaphthene	**0.16**	**J**	0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Fluorene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Phenanthrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Chrysene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Pyrene	**0.13**	**J**	0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 15:55	1

Client Sample ID: DG-AA15W

Date Collected: 01/25/19 12:20
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*38 - 120*	*01/31/19 13:42*	*02/01/19 15:55*	*1*
Nitrobenzene-d5	*97*		*10 - 120*	*01/31/19 13:42*	*02/01/19 15:55*	*1*
Terphenyl-d14	*81*		*21 - 120*	*01/31/19 13:42*	*02/01/19 15:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**870**		630	130	ug/L		01/31/19 14:03	02/02/19 02:05	1
Motor Oil Range Organics [C24-C36]	**450**	**J**	630	130	ug/L		01/31/19 14:03	02/02/19 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*78*		*45 - 120*	*01/31/19 14:03*	*02/02/19 02:05*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 18:58	1
Arsenic	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:58	1
Barium	**66**	**B**	50	1.6	ug/L		01/26/19 10:40	01/30/19 13:18	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 18:58	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 18:58	1
Chromium	**1.6**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 18:58	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 18:58	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 18:58	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 18:58	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 18:58	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 18:58	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 18:58	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 18:58	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 18:58	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 18:58	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 18:58	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 17:00	1

Client Sample ID: DG-AB13W

Date Collected: 01/25/19 12:50
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-9

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/06/19 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*02/06/19 12:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/06/19 12:43*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*02/06/19 12:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Acetone	ND		20	10	ug/L			02/06/19 12:43	1
Benzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Bromobenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Bromoform	ND		1.0	0.40	ug/L			02/06/19 12:43	1
Bromomethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/06/19 12:43	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/06/19 12:43	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/06/19 12:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Chloroethane	ND		1.0	0.40	ug/L			02/06/19 12:43	1
Chloroform	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Chloromethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/06/19 12:43	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Dibromomethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/06/19 12:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
2-Hexanone	ND		5.0	2.5	ug/L			02/06/19 12:43	1

Client Sample ID: DG-AB13W

Date Collected: 01/25/19 12:50
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/06/19 12:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/06/19 12:43	1
Naphthalene	ND		1.0	0.40	ug/L			02/06/19 12:43	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Styrene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Toluene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/06/19 12:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/06/19 12:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Trichloroethene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/06/19 12:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/06/19 12:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/06/19 12:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/06/19 12:43	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/06/19 12:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/06/19 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*02/06/19 12:43*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*02/06/19 12:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*02/07/19 14:54*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*02/07/19 14:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Acenaphthene	**0.23**		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Fluorene	**0.17**	**J**	0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Phenanthrene	**0.40**		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Anthracene	**0.21**		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Chrysene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1

Client Sample ID: DG-AB13W

Date Collected: 01/25/19 12:50
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-9

Matrix: Water

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Fluoranthene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Pyrene	**0.21**		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/30/19 10:58	02/01/19 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*	*01/30/19 10:58*	*02/01/19 17:50*	*1*
Nitrobenzene-d5	*97*		*10 - 120*	*01/30/19 10:58*	*02/01/19 17:50*	*1*
Terphenyl-d14	*59*		*21 - 120*	*01/30/19 10:58*	*02/01/19 17:50*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**400**	**J**	510	100	ug/L		01/30/19 05:59	01/30/19 14:22	1
Motor Oil Range Organics [C24-C36]	ND		510	100	ug/L		01/30/19 05:59	01/30/19 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*59*		*45 - 120*	*01/30/19 05:59*	*01/30/19 14:22*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 19:03	1
Arsenic	**4.2**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 19:03	1
Barium	**280**	**B**	50	1.6	ug/L		01/26/19 10:40	01/30/19 13:23	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 19:03	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 19:03	1
Chromium	**0.91**	**J**	10	0.70	ug/L		01/26/19 10:40	01/29/19 19:03	1
Cobalt	**0.83**	**J**	2.0	0.68	ug/L		01/26/19 10:40	01/29/19 19:03	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 19:03	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 19:03	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 19:03	1
Nickel	**3.1**	**J**	10	1.0	ug/L		01/26/19 10:40	01/29/19 19:03	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 19:03	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 19:03	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/30/19 13:23	1
Vanadium	**0.89**	**J**	10	0.87	ug/L		01/26/19 10:40	01/29/19 19:03	1
Zinc	**9.8**	**J**	20	7.4	ug/L		01/26/19 10:40	01/29/19 19:03	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 17:00	1

Client Sample ID: TB-1.25.19

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-10

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/05/19 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/05/19 15:00*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/05/19 15:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/05/19 15:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Acetone	ND		20	10	ug/L			02/05/19 15:00	1
Benzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 15:00	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 15:00	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 15:00	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 15:00	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Chloroethane	ND		1.0	0.40	ug/L			02/05/19 15:00	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 15:00	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 15:00	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 15:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: TB-1.25.19
Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 15:00	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 15:00	1
Naphthalene	ND		1.0	0.40	ug/L			02/05/19 15:00	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Toluene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 15:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 15:00	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Trichloroethene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 15:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 15:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 15:00	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/05/19 15:00	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/05/19 15:00	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/05/19 15:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/05/19 15:00*	*1*

Client Sample ID: DUP-110

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-11

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/06/19 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/06/19 13:10*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/06/19 13:10*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*02/06/19 13:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Acetone	ND		20	10	ug/L			02/06/19 13:10	1
Benzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Bromobenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Bromoform	ND		1.0	0.40	ug/L			02/06/19 13:10	1
Bromomethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/06/19 13:10	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/06/19 13:10	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/06/19 13:10	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Chloroethane	ND		1.0	0.40	ug/L			02/06/19 13:10	1
Chloroform	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Chloromethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/06/19 13:10	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Dibromomethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/06/19 13:10	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
2-Hexanone	ND		5.0	2.5	ug/L			02/06/19 13:10	1

Client Sample ID: DUP-110

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/06/19 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/06/19 13:10	1
Naphthalene	ND		1.0	0.40	ug/L			02/06/19 13:10	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Styrene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Toluene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/06/19 13:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/06/19 13:10	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Trichloroethene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/06/19 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/06/19 13:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/06/19 13:10	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/06/19 13:10	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/06/19 13:10	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/06/19 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/06/19 13:10*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*02/06/19 13:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*02/07/19 15:21*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*02/07/19 15:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Acenaphthene	**0.14**	**J**	0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Fluorene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Phenanthrene	**0.12**	**J**	0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Anthracene	**0.14**	**J**	0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Chrysene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1

Client Sample ID: DUP-110

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-11

Matrix: Water

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Fluoranthene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Pyrene	**0.12**	**J**	0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/30/19 10:58	02/01/19 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*38 - 120*	*01/30/19 10:58*	*02/01/19 18:13*	*1*
Nitrobenzene-d5	*86*		*10 - 120*	*01/30/19 10:58*	*02/01/19 18:13*	*1*
Terphenyl-d14	*75*		*21 - 120*	*01/30/19 10:58*	*02/01/19 18:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**600**		490	99	ug/L		01/30/19 05:59	01/30/19 15:05	1
Motor Oil Range Organics [C24-C36]	**100**	**J**	490	99	ug/L		01/30/19 05:59	01/30/19 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*45 - 120*	*01/30/19 05:59*	*01/30/19 15:05*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 19:07	1
Arsenic	**5.3**	**J**	10	2.9	ug/L		01/26/19 10:40	01/29/19 19:07	1
Barium	**290**	**B**	50	1.6	ug/L		01/26/19 10:40	01/30/19 13:28	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 19:07	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 19:07	1
Chromium	ND		10	0.70	ug/L		01/26/19 10:40	01/29/19 19:07	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 19:07	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 19:07	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 19:07	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 19:07	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 19:07	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 19:07	1
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 19:07	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 19:07	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 19:07	1
Zinc	**8.6**	**J**	20	7.4	ug/L		01/26/19 10:40	01/29/19 19:07	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 17:00	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	
Lab Sample ID	Client Sample ID	(70-130)	(80-128)	
440-232553-F-1 MS	Matrix Spike	110	107	
440-232553-F-1 MSD	Matrix Spike Duplicate	109	103	
720-91036-1	DG-AI15W	100	101	
720-91036-1 MS	DG-AI15W	102	100	
720-91036-1 MSD	DG-AI15W	100	97	
720-91036-2	DG-AD17W	100	101	
720-91036-3	DG-AB17W	102	99	
720-91036-4	FB-1.25.19	104	99	
720-91036-5	DG-AA19W	102	101	
720-91036-6	DG-R9W	96	101	
720-91036-6	DG-R9W	98	111	
720-91036-6 MS	DG-R9W	103	102	
720-91036-6 MSD	DG-R9W	98	103	
720-91036-7	DG-X13W	98	101	
720-91036-8	DG-AA15W	98	100	
720-91036-9	DG-AB13W	103	110	
720-91036-9 - RA	DG-AB13W	111	109	
720-91036-10	TB-1.25.19	100	100	
720-91036-11	DUP-110	101	109	
720-91036-11 - RA	DUP-110	110	111	
LCS 440-526751/6	Lab Control Sample	101	97	
LCS 440-526984/5	Lab Control Sample	100	105	
LCS 440-527259/6	Lab Control Sample	117	104	
MB 440-526751/5	Method Blank	101	100	
MB 440-526984/9	Method Blank	101	111	
MB 440-527259/5	Method Blank	123	111	

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	BFB	TOL	
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)	
720-91036-1	DG-AI15W	101	97	101	
720-91036-1 MS	DG-AI15W	101	97	100	
720-91036-1 MSD	DG-AI15W	102	99	97	
720-91036-2	DG-AD17W	101	97	101	
720-91036-3	DG-AB17W	103	100	99	
720-91036-4	FB-1.25.19	110	92	108	
720-91036-5	DG-AA19W	102	99	101	
720-91036-6	DG-R9W	99	91	111	
720-91036-6 MS	DG-R9W	106	88	102	
720-91036-6 MSD	DG-R9W	105	90	103	
720-91036-7	DG-X13W	101	100	101	
720-91036-8	DG-AA15W	99	96	100	

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (76-132)	BFB (80-120)	TOL (80-128)
720-91036-9	DG-AB13W	106	93	110
720-91036-10	TB-1.25.19	100	95	100
720-91036-11	DUP-110	107	94	109
LCS 440-526752/7	Lab Control Sample	100	99	100
LCS 440-526985/6	Lab Control Sample	104	94	110
MB 440-526752/5	Method Blank	103	97	100
MB 440-526985/9	Method Blank	106	93	111

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (38-120)	NBZ (10-120)	TPHL (21-120)
440-231814-G-8-A MSD	Matrix Spike Duplicate	75	91	82
440-231814-J-8-A MS	Matrix Spike	62	78	77
720-91036-1	DG-AI15W	72	846 X	91
720-91036-2	DG-AD17W	66	101	53
720-91036-2 - RA	DG-AD17W	71	73	53
720-91036-3	DG-AB17W	91	107	89
720-91036-5	DG-AA19W	63	152 X	67
720-91036-6	DG-R9W	64	97	47
720-91036-7	DG-X13W	69	83	72
720-91036-8	DG-AA15W	85	97	81
720-91036-9	DG-AB13W	81	97	59
720-91036-11	DUP-110	73	86	75
LCS 440-525815/2-A	Lab Control Sample	73	79	85
LCS 440-526142/2-A	Lab Control Sample	93	103	89
LCSD 440-525815/3-A	Lab Control Sample Dup	74	80	86
LCSD 440-526142/3-A	Lab Control Sample Dup	78	86	87
MB 440-525815/1-A	Method Blank	81	88	96
MB 440-526142/1-A	Method Blank	87	92	98

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
720-91036-1	DG-AI15W	63

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	OTCN1 (45-120)						
720-91036-2	DG-AD17W	82						
720-91036-3	DG-AB17W	82						
720-91036-5	DG-AA19W	77						
720-91036-6	DG-R9W	61						
720-91036-7	DG-X13W	70						
720-91036-8	DG-AA15W	78						
720-91036-9	DG-AB13W	59						
720-91036-11	DUP-110	75						
LCS 440-525721/2-A	Lab Control Sample	71						
LCS 440-526090/2-A	Lab Control Sample	110						
LCSD 440-525721/3-A	Lab Control Sample Dup	73						
LCSD 440-526090/3-A	Lab Control Sample Dup	75						
MB 440-525721/1-A	Method Blank	67						
MB 440-526090/1-A	Method Blank	75						

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-526751/5
Matrix: Water
Analysis Batch: 526751

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Acetone	ND		20	10	ug/L			02/05/19 08:42	1
Benzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Bromobenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Bromoform	ND		1.0	0.40	ug/L			02/05/19 08:42	1
Bromomethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/05/19 08:42	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/05/19 08:42	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/05/19 08:42	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Chloroethane	ND		1.0	0.40	ug/L			02/05/19 08:42	1
Chloroform	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Chloromethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/05/19 08:42	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Dibromomethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/05/19 08:42	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
2-Hexanone	ND		5.0	2.5	ug/L			02/05/19 08:42	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/19 08:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/05/19 08:42	1
Naphthalene	ND		1.0	0.40	ug/L			02/05/19 08:42	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Styrene	ND		0.50	0.25	ug/L			02/05/19 08:42	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526751/5
Matrix: Water
Analysis Batch: 526751

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Toluene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 08:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/05/19 08:42	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Trichloroethene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/05/19 08:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/05/19 08:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/05/19 08:42	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/05/19 08:42	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/05/19 08:42	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/05/19 08:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/05/19 08:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/05/19 08:42*	*1*

Lab Sample ID: LCS 440-526751/6
Matrix: Water
Analysis Batch: 526751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	9.19		ug/L		92	63 - 131
Acetone	10.0	ND		ug/L		45	10 - 150
Benzene	10.0	9.94		ug/L		99	68 - 130
Dichlorobromomethane	10.0	9.33		ug/L		93	70 - 132
Bromobenzene	10.0	9.71		ug/L		97	70 - 130
Chlorobromomethane	10.0	10.0		ug/L		100	70 - 130
Bromoform	10.0	8.31		ug/L		83	60 - 148
Bromomethane	10.0	10.1		ug/L		101	64 - 139
2-Butanone (MEK)	10.0	8.29		ug/L		83	44 - 150
n-Butylbenzene	10.0	10.2		ug/L		102	65 - 150
sec-Butylbenzene	10.0	10.0		ug/L		100	70 - 138
tert-Butylbenzene	10.0	10.1		ug/L		101	70 - 130
Carbon disulfide	10.0	9.72		ug/L		97	52 - 136
Carbon tetrachloride	10.0	9.35		ug/L		94	60 - 150
Chlorobenzene	10.0	10.0		ug/L		100	70 - 130
Chloroethane	10.0	9.64		ug/L		96	64 - 135
Chloroform	10.0	9.81		ug/L		98	70 - 130
Chloromethane	10.0	9.64		ug/L		96	47 - 140
2-Chlorotoluene	10.0	9.79		ug/L		98	70 - 130
4-Chlorotoluene	10.0	9.96		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526751/6
Matrix: Water
Analysis Batch: 526751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	10.0	9.17		ug/L		92	69 - 145
1,2-Dichlorobenzene	10.0	10.0		ug/L		100	70 - 130
1,3-Dichlorobenzene	10.0	9.88		ug/L		99	70 - 130
1,4-Dichlorobenzene	10.0	9.95		ug/L		100	70 - 130
1,3-Dichloropropane	10.0	9.72		ug/L		97	70 - 130
1,1-Dichloropropene	10.0	10.3		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	8.65		ug/L		86	52 - 140
Ethylene Dibromide	10.0	9.81		ug/L		98	70 - 130
Dibromomethane	10.0	10.0		ug/L		100	70 - 130
Dichlorodifluoromethane	10.0	10.4		ug/L		104	29 - 150
1,1-Dichloroethane	10.0	9.86		ug/L		99	64 - 130
1,2-Dichloroethane	10.0	9.59		ug/L		96	57 - 138
1,1-Dichloroethene	10.0	9.82		ug/L		98	70 - 130
cis-1,2-Dichloroethene	10.0	9.96		ug/L		100	70 - 133
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	70 - 130
1,2-Dichloropropane	10.0	10.2		ug/L		102	67 - 130
cis-1,3-Dichloropropene	10.0	9.55		ug/L		95	70 - 133
trans-1,3-Dichloropropene	10.0	9.15		ug/L		92	70 - 132
Ethylbenzene	10.0	9.67		ug/L		97	70 - 130
Hexachlorobutadiene	10.0	9.58		ug/L		96	10 - 150
2-Hexanone	10.0	9.37		ug/L		94	10 - 150
Isopropylbenzene	10.0	9.59		ug/L		96	70 - 136
4-Isopropyltoluene	10.0	10.1		ug/L		101	70 - 132
Methylene Chloride	10.0	8.17		ug/L		82	52 - 130
4-Methyl-2-pentanone (MIBK)	10.0	8.34		ug/L		83	59 - 149
Naphthalene	10.0	8.90		ug/L		89	60 - 140
N-Propylbenzene	10.0	9.75		ug/L		98	67 - 139
Styrene	10.0	9.17		ug/L		92	70 - 134
1,1,1,2-Tetrachloroethane	10.0	9.32		ug/L		93	60 - 141
1,1,2,2-Tetrachloroethane	10.0	9.99		ug/L		100	63 - 130
Tetrachloroethene	10.0	9.93		ug/L		99	70 - 130
Toluene	10.0	9.39		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	10.0	9.45		ug/L		95	60 - 140
1,2,4-Trichlorobenzene	10.0	9.68		ug/L		97	60 - 140
1,1,1-Trichloroethane	10.0	10.1		ug/L		101	70 - 130
1,1,2-Trichloroethane	10.0	10.0		ug/L		100	70 - 130
Trichloroethene	10.0	10.4		ug/L		104	70 - 130
Trichlorofluoromethane	10.0	11.0		ug/L		110	60 - 150
1,2,3-Trichloropropane	10.0	10.5		ug/L		105	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.6		ug/L		106	60 - 140
1,2,4-Trimethylbenzene	10.0	9.76		ug/L		98	70 - 135
1,3,5-Trimethylbenzene	10.0	9.72		ug/L		97	70 - 136
Vinyl acetate	10.0	9.17		ug/L		92	48 - 140
Vinyl chloride	10.0	10.3		ug/L		103	59 - 133
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	70 - 130
o-Xylene	10.0	10.0		ug/L		100	70 - 130
2,2-Dichloropropane	10.0	10.0		ug/L		100	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526751/6
Matrix: Water
Analysis Batch: 526751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 720-91036-1 MS
Matrix: Water
Analysis Batch: 526751

Client Sample ID: DG-AI15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	11		10.0	19.6		ug/L		90	70 - 130
Acetone	24		10.0	33.5		ug/L		94	10 - 150
Benzene	14		10.0	23.3		ug/L		97	66 - 130
Dichlorobromomethane	ND		10.0	9.15		ug/L		91	70 - 138
Bromobenzene	ND		10.0	9.49		ug/L		95	70 - 130
Chlorobromomethane	ND		10.0	9.63		ug/L		96	70 - 130
Bromoform	ND		10.0	8.47		ug/L		85	59 - 150
Bromomethane	ND		10.0	9.84		ug/L		98	62 - 131
2-Butanone (MEK)	ND		10.0	13.3		ug/L		133	48 - 140
n-Butylbenzene	ND		10.0	10.9		ug/L		109	61 - 149
sec-Butylbenzene	ND		10.0	10.2		ug/L		102	67 - 134
tert-Butylbenzene	ND		10.0	10.3		ug/L		103	70 - 130
Carbon disulfide	ND		10.0	9.98		ug/L		100	49 - 140
Carbon tetrachloride	ND		10.0	9.59		ug/L		96	60 - 150
Chlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130
Chloroethane	ND		10.0	9.61		ug/L		96	68 - 130
Chloroform	ND		10.0	9.81		ug/L		98	70 - 130
Chloromethane	ND		10.0	9.88		ug/L		99	39 - 144
2-Chlorotoluene	ND		10.0	9.95		ug/L		100	70 - 130
4-Chlorotoluene	ND		10.0	9.88		ug/L		99	70 - 130
Chlorodibromomethane	ND		10.0	9.10		ug/L		91	70 - 148
1,2-Dichlorobenzene	ND		10.0	9.66		ug/L		97	70 - 130
1,3-Dichlorobenzene	ND		10.0	9.97		ug/L		100	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.77		ug/L		98	70 - 130
1,3-Dichloropropane	ND		10.0	9.75		ug/L		97	70 - 130
1,1-Dichloropropene	ND		10.0	10.3		ug/L		103	64 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	9.02		ug/L		90	48 - 140
Ethylene Dibromide	ND		10.0	9.58		ug/L		96	70 - 131
Dibromomethane	ND		10.0	10.0		ug/L		100	70 - 130
Dichlorodifluoromethane	ND		10.0	10.3		ug/L		103	25 - 142
1,1-Dichloroethane	ND		10.0	9.79		ug/L		98	65 - 130
1,2-Dichloroethane	ND		10.0	9.25		ug/L		93	56 - 146
1,1-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130
cis-1,2-Dichloroethene	ND		10.0	9.72		ug/L		97	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.2		ug/L		102	70 - 130
1,2-Dichloropropane	ND		10.0	9.84		ug/L		98	69 - 130
cis-1,3-Dichloropropene	ND		10.0	9.56		ug/L		96	70 - 133
trans-1,3-Dichloropropene	ND		10.0	9.14		ug/L		91	70 - 138
Ethylbenzene	7.3		10.0	17.1		ug/L		98	70 - 130
Hexachlorobutadiene	ND		10.0	10.5		ug/L		105	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91036-1 MS
Matrix: Water
Analysis Batch: 526751

Client Sample ID: DG-AI15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		10.0	8.66		ug/L		87	10 - 150
Isopropylbenzene	0.58		10.0	10.7		ug/L		101	70 - 132
4-Isopropyltoluene	ND		10.0	10.7		ug/L		107	70 - 130
Methylene Chloride	ND		10.0	8.65		ug/L		86	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.18		ug/L		92	52 - 150
Naphthalene	8.3		10.0	17.7		ug/L		94	60 - 140
N-Propylbenzene	1.6		10.0	11.5		ug/L		100	66 - 135
Styrene	ND		10.0	9.15		ug/L		92	29 - 150
1,1,1,2-Tetrachloroethane	ND		10.0	9.25		ug/L		92	60 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	9.32		ug/L		93	63 - 130
Tetrachloroethene	ND		10.0	10.4		ug/L		104	70 - 137
Toluene	3.4		10.0	13.1		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	ND		10.0	9.69		ug/L		97	60 - 140
1,2,4-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		10.0	10.1		ug/L		101	70 - 130
1,1,2-Trichloroethane	ND		10.0	10.1		ug/L		101	70 - 130
Trichloroethene	ND		10.0	10.5		ug/L		105	70 - 130
Trichlorofluoromethane	ND		10.0	11.2		ug/L		112	60 - 150
1,2,3-Trichloropropane	ND		10.0	9.64		ug/L		96	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.8		ug/L		108	60 - 140
1,2,4-Trimethylbenzene	1.7		10.0	11.4		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	0.44	J	10.0	10.3		ug/L		99	70 - 130
Vinyl acetate	ND		10.0	8.96		ug/L		90	23 - 150
Vinyl chloride	ND		10.0	10.2		ug/L		102	50 - 137
m-Xylene & p-Xylene	6.8		10.0	16.9		ug/L		101	70 - 133
o-Xylene	9.6		10.0	19.5		ug/L		99	70 - 133
2,2-Dichloropropane	ND		10.0	10.0		ug/L		100	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-91036-1 MSD
Matrix: Water
Analysis Batch: 526751

Client Sample ID: DG-AI15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	11		10.0	19.3		ug/L		86	70 - 130	2	25
Acetone	24		10.0	34.1		ug/L		101	10 - 150	2	35
Benzene	14		10.0	22.5		ug/L		88	66 - 130	4	20
Dichlorobromomethane	ND		10.0	9.03		ug/L		90	70 - 138	1	20
Bromobenzene	ND		10.0	9.49		ug/L		95	70 - 130	0	20
Chlorobromomethane	ND		10.0	9.59		ug/L		96	70 - 130	0	25
Bromoform	ND		10.0	8.46		ug/L		85	59 - 150	0	25
Bromomethane	ND		10.0	9.96		ug/L		100	62 - 131	1	25
2-Butanone (MEK)	ND		10.0	14.0		ug/L		140	48 - 140	5	40
n-Butylbenzene	ND		10.0	10.5		ug/L		105	61 - 149	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91036-1 MSD
Matrix: Water
Analysis Batch: 526751

Client Sample ID: DG-AI15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		10.0	9.75		ug/L		97	67 - 134	4	20
tert-Butylbenzene	ND		10.0	9.97		ug/L		100	70 - 130	3	20
Carbon disulfide	ND		10.0	9.34		ug/L		93	49 - 140	7	20
Carbon tetrachloride	ND		10.0	9.05		ug/L		90	60 - 150	6	25
Chlorobenzene	ND		10.0	9.64		ug/L		96	70 - 130	4	20
Chloroethane	ND		10.0	9.45		ug/L		94	68 - 130	2	25
Chloroform	ND		10.0	9.44		ug/L		94	70 - 130	4	20
Chloromethane	ND		10.0	9.68		ug/L		97	39 - 144	2	25
2-Chlorotoluene	ND		10.0	9.85		ug/L		99	70 - 130	1	20
4-Chlorotoluene	ND		10.0	9.69		ug/L		97	70 - 130	2	20
Chlorodibromomethane	ND		10.0	9.09		ug/L		91	70 - 148	0	25
1,2-Dichlorobenzene	ND		10.0	9.68		ug/L		97	70 - 130	0	20
1,3-Dichlorobenzene	ND		10.0	9.89		ug/L		99	70 - 130	1	20
1,4-Dichlorobenzene	ND		10.0	9.43		ug/L		94	70 - 130	4	20
1,3-Dichloropropane	ND		10.0	9.54		ug/L		95	70 - 130	2	25
1,1-Dichloropropene	ND		10.0	9.78		ug/L		98	64 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		10.0	9.71		ug/L		97	48 - 140	7	30
Ethylene Dibromide	ND		10.0	9.54		ug/L		95	70 - 131	0	25
Dibromomethane	ND		10.0	9.88		ug/L		99	70 - 130	1	25
Dichlorodifluoromethane	ND		10.0	10.1		ug/L		101	25 - 142	1	30
1,1-Dichloroethane	ND		10.0	9.44		ug/L		94	65 - 130	4	20
1,2-Dichloroethane	ND		10.0	9.28		ug/L		93	56 - 146	0	20
1,1-Dichloroethene	ND		10.0	9.55		ug/L		96	70 - 130	8	20
cis-1,2-Dichloroethene	ND		10.0	9.60		ug/L		96	70 - 130	1	20
trans-1,2-Dichloroethene	ND		10.0	9.70		ug/L		97	70 - 130	5	20
1,2-Dichloropropane	ND		10.0	9.75		ug/L		97	69 - 130	1	20
cis-1,3-Dichloropropene	ND		10.0	9.04		ug/L		90	70 - 133	6	20
trans-1,3-Dichloropropene	ND		10.0	9.03		ug/L		90	70 - 138	1	25
Ethylbenzene	7.3		10.0	16.1		ug/L		88	70 - 130	6	20
Hexachlorobutadiene	ND		10.0	10.2		ug/L		102	10 - 150	3	20
2-Hexanone	ND		10.0	8.29		ug/L		83	10 - 150	4	35
Isopropylbenzene	0.58		10.0	9.87		ug/L		93	70 - 132	8	20
4-Isopropyltoluene	ND		10.0	10.3		ug/L		103	70 - 130	4	20
Methylene Chloride	ND		10.0	8.54		ug/L		85	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.35		ug/L		93	52 - 150	2	35
Naphthalene	8.3		10.0	18.0		ug/L		97	60 - 140	1	30
N-Propylbenzene	1.6		10.0	11.3		ug/L		97	66 - 135	2	20
Styrene	ND		10.0	8.97		ug/L		90	29 - 150	2	35
1,1,1,2-Tetrachloroethane	ND		10.0	8.81		ug/L		88	60 - 149	5	20
1,1,2,2-Tetrachloroethane	ND		10.0	9.50		ug/L		95	63 - 130	2	30
Tetrachloroethene	ND		10.0	9.69		ug/L		97	70 - 137	7	20
Toluene	3.4		10.0	12.2		ug/L		88	70 - 130	7	20
1,2,3-Trichlorobenzene	ND		10.0	9.76		ug/L		98	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		10.0	10.0		ug/L		100	60 - 140	3	20
1,1,1-Trichloroethane	ND		10.0	9.41		ug/L		94	70 - 130	7	20
1,1,2-Trichloroethane	ND		10.0	9.89		ug/L		99	70 - 130	2	25
Trichloroethene	ND		10.0	10.2		ug/L		102	70 - 130	4	20
Trichlorofluoromethane	ND		10.0	10.6		ug/L		106	60 - 150	6	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91036-1 MSD
Matrix: Water
Analysis Batch: 526751

Client Sample ID: DG-AI15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		10.0	10.4		ug/L		104	60 - 130	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	9.59		ug/L		96	60 - 140	12	20
1,2,4-Trimethylbenzene	1.7		10.0	11.2		ug/L		95	70 - 130	2	25
1,3,5-Trimethylbenzene	0.44	J	10.0	10.1		ug/L		97	70 - 130	2	20
Vinyl acetate	ND		10.0	9.12		ug/L		91	23 - 150	2	30
Vinyl chloride	ND		10.0	10.2		ug/L		102	50 - 137	0	30
m-Xylene & p-Xylene	6.8		10.0	16.0		ug/L		92	70 - 133	6	25
o-Xylene	9.6		10.0	18.6		ug/L		90	70 - 133	5	20
2,2-Dichloropropane	ND		10.0	9.45		ug/L		95	69 - 138	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: MB 440-526984/9
Matrix: Water
Analysis Batch: 526984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Acetone	ND		20	10	ug/L			02/06/19 10:31	1
Benzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Bromobenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Bromoform	ND		1.0	0.40	ug/L			02/06/19 10:31	1
Bromomethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/06/19 10:31	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/06/19 10:31	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/06/19 10:31	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Chloroethane	ND		1.0	0.40	ug/L			02/06/19 10:31	1
Chloroform	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Chloromethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/06/19 10:31	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/06/19 10:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526984/9
Matrix: Water
Analysis Batch: 526984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/06/19 10:31	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
2-Hexanone	ND		5.0	2.5	ug/L			02/06/19 10:31	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/06/19 10:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/06/19 10:31	1
Naphthalene	ND		1.0	0.40	ug/L			02/06/19 10:31	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Styrene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Toluene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/06/19 10:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/06/19 10:31	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Trichloroethene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/06/19 10:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/06/19 10:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/06/19 10:31	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/06/19 10:31	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/06/19 10:31	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/06/19 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/06/19 10:31*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*02/06/19 10:31*	*1*

Lab Sample ID: LCS 440-526984/5
Matrix: Water
Analysis Batch: 526984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	29.5		ug/L		118	63 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526984/5
Matrix: Water
Analysis Batch: 526984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	23.8		ug/L		95	10 - 150
Benzene	25.0	25.9		ug/L		103	68 - 130
Dichlorobromomethane	25.0	27.5		ug/L		110	70 - 132
Bromobenzene	25.0	25.4		ug/L		102	70 - 130
Chlorobromomethane	25.0	26.5		ug/L		106	70 - 130
Bromoform	25.0	30.9		ug/L		124	60 - 148
Bromomethane	25.0	25.3		ug/L		101	64 - 139
2-Butanone (MEK)	25.0	23.5		ug/L		94	44 - 150
n-Butylbenzene	25.0	23.6		ug/L		94	65 - 150
sec-Butylbenzene	25.0	22.5		ug/L		90	70 - 138
tert-Butylbenzene	25.0	22.2		ug/L		89	70 - 130
Carbon disulfide	25.0	26.1		ug/L		104	52 - 136
Carbon tetrachloride	25.0	28.3		ug/L		113	60 - 150
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	19.9		ug/L		80	64 - 135
Chloroform	25.0	27.8		ug/L		111	70 - 130
Chloromethane	25.0	20.4		ug/L		82	47 - 140
2-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130
4-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130
Chlorodibromomethane	25.0	26.2		ug/L		105	69 - 145
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichloropropane	25.0	26.2		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	27.6		ug/L		111	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	52 - 140
Ethylene Dibromide	25.0	25.2		ug/L		101	70 - 130
Dibromomethane	25.0	26.0		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	25.9		ug/L		104	29 - 150
1,1-Dichloroethane	25.0	20.3		ug/L		81	64 - 130
1,2-Dichloroethane	25.0	24.8		ug/L		99	57 - 138
1,1-Dichloroethene	25.0	27.4		ug/L		110	70 - 130
cis-1,2-Dichloroethene	25.0	28.5		ug/L		114	70 - 133
trans-1,2-Dichloroethene	25.0	26.9		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	28.2		ug/L		113	70 - 133
trans-1,3-Dichloropropene	25.0	28.1		ug/L		113	70 - 132
Ethylbenzene	25.0	26.1		ug/L		104	70 - 130
Hexachlorobutadiene	25.0	30.7		ug/L		123	10 - 150
2-Hexanone	25.0	20.9		ug/L		84	10 - 150
Isopropylbenzene	25.0	26.0		ug/L		104	70 - 136
4-Isopropyltoluene	25.0	22.8		ug/L		91	70 - 132
Methylene Chloride	25.0	26.0		ug/L		104	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	21.4		ug/L		86	59 - 149
Naphthalene	25.0	21.9		ug/L		88	60 - 140
N-Propylbenzene	25.0	23.1		ug/L		92	67 - 139
Styrene	25.0	23.0		ug/L		92	70 - 134
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	60 - 141
1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		87	63 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526984/5
Matrix: Water
Analysis Batch: 526984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	31.1		ug/L		124	70 - 130
Toluene	25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	26.5		ug/L		106	60 - 140
1,2,4-Trichlorobenzene	25.0	28.3		ug/L		113	60 - 140
1,1,1-Trichloroethane	25.0	29.9		ug/L		120	70 - 130
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	70 - 130
Trichloroethene	25.0	26.0		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	27.2		ug/L		109	60 - 150
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.8		ug/L		107	60 - 140
1,2,4-Trimethylbenzene	25.0	22.5		ug/L		90	70 - 135
1,3,5-Trimethylbenzene	25.0	23.0		ug/L		92	70 - 136
Vinyl acetate	25.0	24.5		ug/L		98	48 - 140
Vinyl chloride	25.0	17.5		ug/L		70	59 - 133
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	70 - 130
o-Xylene	25.0	25.9		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	29.2		ug/L		117	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*105*		*80 - 128*

Lab Sample ID: 720-91036-6 MS
Matrix: Water
Analysis Batch: 526984

Client Sample ID: DG-R9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	29.9		ug/L		120	70 - 130
Acetone	19	J	25.0	41.5		ug/L		90	10 - 150
Benzene	ND		25.0	26.3		ug/L		105	66 - 130
Dichlorobromomethane	ND		25.0	28.4		ug/L		114	70 - 138
Bromobenzene	ND		25.0	25.3		ug/L		101	70 - 130
Chlorobromomethane	ND		25.0	26.5		ug/L		106	70 - 130
Bromoform	ND		25.0	31.1		ug/L		125	59 - 150
Bromomethane	ND		25.0	26.2		ug/L		105	62 - 131
2-Butanone (MEK)	ND		25.0	28.7		ug/L		115	48 - 140
n-Butylbenzene	ND		25.0	23.2		ug/L		93	61 - 149
sec-Butylbenzene	ND		25.0	22.1		ug/L		88	67 - 134
tert-Butylbenzene	ND		25.0	21.7		ug/L		87	70 - 130
Carbon disulfide	ND		25.0	26.6		ug/L		106	49 - 140
Carbon tetrachloride	ND		25.0	29.2		ug/L		117	60 - 150
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130
Chloroethane	ND		25.0	20.0		ug/L		80	68 - 130
Chloroform	ND		25.0	28.3		ug/L		113	70 - 130
Chloromethane	ND		25.0	20.3		ug/L		81	39 - 144
2-Chlorotoluene	ND		25.0	22.8		ug/L		91	70 - 130
4-Chlorotoluene	ND		25.0	23.2		ug/L		93	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91036-6 MS
Matrix: Water
Analysis Batch: 526984

Client Sample ID: DG-R9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	ND		25.0	26.2		ug/L		105	70 - 148
1,2-Dichlorobenzene	ND		25.0	23.5		ug/L		94	70 - 130
1,3-Dichlorobenzene	ND		25.0	23.4		ug/L		93	70 - 130
1,4-Dichlorobenzene	ND		25.0	23.8		ug/L		95	70 - 130
1,3-Dichloropropane	ND		25.0	25.3		ug/L		101	70 - 130
1,1-Dichloropropene	ND		25.0	29.0		ug/L		116	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	24.0		ug/L		96	48 - 140
Ethylene Dibromide	ND		25.0	25.3		ug/L		101	70 - 131
Dibromomethane	ND		25.0	28.0		ug/L		112	70 - 130
Dichlorodifluoromethane	ND		25.0	26.4		ug/L		105	25 - 142
1,1-Dichloroethane	ND		25.0	21.0		ug/L		84	65 - 130
1,2-Dichloroethane	ND		25.0	25.5		ug/L		102	56 - 146
1,1-Dichloroethene	ND		25.0	27.8		ug/L		111	70 - 130
cis-1,2-Dichloroethene	ND		25.0	28.3		ug/L		113	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.7		ug/L		111	70 - 130
cis-1,3-Dichloropropene	ND		25.0	28.7		ug/L		115	70 - 133
trans-1,3-Dichloropropene	ND		25.0	28.0		ug/L		112	70 - 138
Ethylbenzene	ND		25.0	26.4		ug/L		106	70 - 130
Hexachlorobutadiene	ND		25.0	30.1		ug/L		120	10 - 150
2-Hexanone	ND		25.0	22.4		ug/L		89	10 - 150
Isopropylbenzene	ND		25.0	26.1		ug/L		104	70 - 132
4-Isopropyltoluene	ND		25.0	22.6		ug/L		90	70 - 130
Methylene Chloride	ND		25.0	26.6		ug/L		106	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	22.6		ug/L		90	52 - 150
Naphthalene	ND		25.0	22.0		ug/L		88	60 - 140
N-Propylbenzene	ND		25.0	22.9		ug/L		91	66 - 135
Styrene	ND		25.0	22.6		ug/L		90	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	26.0		ug/L		104	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	21.5		ug/L		86	63 - 130
Tetrachloroethene	ND		25.0	29.8		ug/L		119	70 - 137
Toluene	ND		25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.5		ug/L		106	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	28.0		ug/L		112	60 - 140
1,1,1-Trichloroethane	ND		25.0	30.8		ug/L		123	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		104	70 - 130
Trichloroethene	ND		25.0	26.5		ug/L		106	70 - 130
Trichlorofluoromethane	ND		25.0	28.2		ug/L		113	60 - 150
1,2,3-Trichloropropane	ND		25.0	23.7		ug/L		95	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.0		ug/L		116	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	22.0		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	22.7		ug/L		91	70 - 130
Vinyl acetate	ND		25.0	25.1		ug/L		100	23 - 150
Vinyl chloride	ND		25.0	17.9		ug/L		72	50 - 137
m-Xylene & p-Xylene	ND		25.0	25.4		ug/L		102	70 - 133
o-Xylene	ND		25.0	25.7		ug/L		103	70 - 133
2,2-Dichloropropane	ND		25.0	30.2		ug/L		121	69 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91036-6 MS
Matrix: Water
Analysis Batch: 526984

Client Sample ID: DG-R9W
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 720-91036-6 MSD
Matrix: Water
Analysis Batch: 526984

Client Sample ID: DG-R9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	28.3		ug/L		113	70 - 130	6	25
Acetone	19	J	25.0	38.1		ug/L		76	10 - 150	9	35
Benzene	ND		25.0	25.8		ug/L		103	66 - 130	2	20
Dichlorobromomethane	ND		25.0	28.2		ug/L		113	70 - 138	1	20
Bromobenzene	ND		25.0	24.8		ug/L		99	70 - 130	2	20
Chlorobromomethane	ND		25.0	25.4		ug/L		102	70 - 130	4	25
Bromoform	ND		25.0	29.7		ug/L		119	59 - 150	5	25
Bromomethane	ND		25.0	24.7		ug/L		99	62 - 131	6	25
2-Butanone (MEK)	ND		25.0	27.9		ug/L		112	48 - 140	3	40
n-Butylbenzene	ND		25.0	23.0		ug/L		92	61 - 149	1	20
sec-Butylbenzene	ND		25.0	22.3		ug/L		89	67 - 134	1	20
tert-Butylbenzene	ND		25.0	22.0		ug/L		88	70 - 130	1	20
Carbon disulfide	ND		25.0	25.1		ug/L		100	49 - 140	6	20
Carbon tetrachloride	ND		25.0	28.7		ug/L		115	60 - 150	2	25
Chlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	1	20
Chloroethane	ND		25.0	19.4		ug/L		78	68 - 130	3	25
Chloroform	ND		25.0	28.4		ug/L		113	70 - 130	0	20
Chloromethane	ND		25.0	19.8		ug/L		79	39 - 144	3	25
2-Chlorotoluene	ND		25.0	23.0		ug/L		92	70 - 130	1	20
4-Chlorotoluene	ND		25.0	23.4		ug/L		94	70 - 130	1	20
Chlorodibromomethane	ND		25.0	26.0		ug/L		104	70 - 148	1	25
1,2-Dichlorobenzene	ND		25.0	23.0		ug/L		92	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	23.6		ug/L		95	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	23.7		ug/L		95	70 - 130	0	20
1,3-Dichloropropane	ND		25.0	25.7		ug/L		103	70 - 130	1	25
1,1-Dichloropropene	ND		25.0	28.1		ug/L		112	64 - 130	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	23.4		ug/L		94	48 - 140	2	30
Ethylene Dibromide	ND		25.0	24.9		ug/L		99	70 - 131	2	25
Dibromomethane	ND		25.0	26.5		ug/L		106	70 - 130	6	25
Dichlorodifluoromethane	ND		25.0	25.2		ug/L		101	25 - 142	4	30
1,1-Dichloroethane	ND		25.0	20.8		ug/L		83	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	25.4		ug/L		102	56 - 146	0	20
1,1-Dichloroethene	ND		25.0	27.5		ug/L		110	70 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	28.1		ug/L		112	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	26.8		ug/L		107	70 - 130	3	20
cis-1,3-Dichloropropene	ND		25.0	28.5		ug/L		114	70 - 133	1	20
trans-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	70 - 138	3	25
Ethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130	3	20
Hexachlorobutadiene	ND		25.0	29.8		ug/L		119	10 - 150	1	20
2-Hexanone	ND		25.0	21.7		ug/L		87	10 - 150	3	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91036-6 MSD
Matrix: Water
Analysis Batch: 526984

Client Sample ID: DG-R9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	ND		25.0	25.4		ug/L		102	70 - 132	3	20
4-Isopropyltoluene	ND		25.0	22.5		ug/L		90	70 - 130	0	20
Methylene Chloride	ND		25.0	26.3		ug/L		105	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.8		ug/L		87	52 - 150	4	35
Naphthalene	ND		25.0	21.4		ug/L		86	60 - 140	3	30
N-Propylbenzene	ND		25.0	22.8		ug/L		91	66 - 135	0	20
Styrene	ND		25.0	22.1		ug/L		89	29 - 150	2	35
1,1,1,2-Tetrachloroethane	ND		25.0	26.1		ug/L		104	60 - 149	0	20
1,1,2,2-Tetrachloroethane	ND		25.0	21.0		ug/L		84	63 - 130	2	30
Tetrachloroethene	ND		25.0	30.0		ug/L		120	70 - 137	1	20
Toluene	ND		25.0	25.4		ug/L		101	70 - 130	1	20
1,2,3-Trichlorobenzene	ND		25.0	26.4		ug/L		106	60 - 140	0	20
1,2,4-Trichlorobenzene	ND		25.0	27.4		ug/L		110	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	30.1		ug/L		121	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	25.5		ug/L		102	70 - 130	1	25
Trichloroethene	ND		25.0	25.8		ug/L		103	70 - 130	3	20
Trichlorofluoromethane	ND		25.0	28.2		ug/L		113	60 - 150	0	25
1,2,3-Trichloropropane	ND		25.0	22.1		ug/L		88	60 - 130	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.3		ug/L		109	60 - 140	6	20
1,2,4-Trimethylbenzene	ND		25.0	22.5		ug/L		90	70 - 130	2	25
1,3,5-Trimethylbenzene	ND		25.0	22.4		ug/L		90	70 - 130	1	20
Vinyl acetate	ND		25.0	24.2		ug/L		97	23 - 150	3	30
Vinyl chloride	ND		25.0	17.4		ug/L		69	50 - 137	3	30
m-Xylene & p-Xylene	ND		25.0	25.0		ug/L		100	70 - 133	2	25
o-Xylene	ND		25.0	25.6		ug/L		102	70 - 133	0	20
2,2-Dichloropropane	ND		25.0	29.4		ug/L		118	69 - 138	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*103*		*80 - 128*

Lab Sample ID: MB 440-527259/5
Matrix: Water
Analysis Batch: 527259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 08:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*		*02/07/19 08:56*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*02/07/19 08:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527259/6
Matrix: Water
Analysis Batch: 527259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dichloropropane			25.0	30.8		ug/L		123	67 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: 440-232553-F-1 MS
Matrix: Water
Analysis Batch: 527259

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dichloropropane	ND		25.0	29.8		ug/L		119	69 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-232553-F-1 MSD
Matrix: Water
Analysis Batch: 527259

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		25.0	29.2		ug/L		117	69 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*103*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-526752/5
Matrix: Water
Analysis Batch: 526752

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/05/19 08:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/05/19 08:42*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/05/19 08:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/05/19 08:42*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-526752/7
Matrix: Water
Analysis Batch: 526752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	459		ug/L		92	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-91036-1 MS
Matrix: Water
Analysis Batch: 526752

Client Sample ID: DG-AI15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	260		690	974		ug/L		103	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-91036-1 MSD
Matrix: Water
Analysis Batch: 526752

Client Sample ID: DG-AI15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	260		690	934		ug/L		97	50 - 145	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: MB 440-526985/9
Matrix: Water
Analysis Batch: 526985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/06/19 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*02/06/19 10:31*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/06/19 10:31*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*02/06/19 10:31*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-526985/6
Matrix: Water
Analysis Batch: 526985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	486		ug/L		97	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*110*		*80 - 128*

Lab Sample ID: 720-91036-6 MS
Matrix: Water
Analysis Batch: 526985

Client Sample ID: DG-R9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1680		ug/L		97	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 720-91036-6 MSD
Matrix: Water
Analysis Batch: 526985

Client Sample ID: DG-R9W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1640		ug/L		95	50 - 145	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-525815/1-A
Matrix: Water
Analysis Batch: 526137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Acenaphthene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Fluorene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Phenanthrene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Anthracene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-525815/1-A
Matrix: Water
Analysis Batch: 526137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Fluoranthene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Pyrene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/30/19 10:58	01/31/19 17:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*	*01/30/19 10:58*	*01/31/19 17:08*	*1*
Nitrobenzene-d5	*88*		*10 - 120*	*01/30/19 10:58*	*01/31/19 17:08*	*1*
Terphenyl-d14	*96*		*21 - 120*	*01/30/19 10:58*	*01/31/19 17:08*	*1*

Lab Sample ID: LCS 440-525815/2-A
Matrix: Water
Analysis Batch: 526137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.628		ug/L		63	50 - 120
Acenaphthene	1.00	0.704		ug/L		70	55 - 120
Acenaphthylene	1.00	0.777		ug/L		78	53 - 120
Fluorene	1.00	0.782		ug/L		78	56 - 120
Phenanthrene	1.00	0.694		ug/L		69	56 - 120
Anthracene	1.00	0.714		ug/L		71	54 - 120
Benzo[a]anthracene	1.00	0.976		ug/L		98	53 - 120
Chrysene	1.00	0.786		ug/L		79	56 - 120
Benzo[a]pyrene	1.00	0.716		ug/L		72	44 - 120
Benzo[b]fluoranthene	1.00	0.784		ug/L		78	48 - 120
Benzo[k]fluoranthene	1.00	0.673		ug/L		67	47 - 121
Benzo[g,h,i]perylene	1.00	0.739		ug/L		74	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.872		ug/L		87	38 - 120
Fluoranthene	1.00	0.805		ug/L		81	59 - 120
Pyrene	1.00	0.772		ug/L		77	59 - 120
Dibenz(a,h)anthracene	1.00	0.780		ug/L		78	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*38 - 120*
Nitrobenzene-d5	*79*		*10 - 120*
Terphenyl-d14	*85*		*21 - 120*

Lab Sample ID: LCSD 440-525815/3-A
Matrix: Water
Analysis Batch: 526137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525815

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.644		ug/L		64	50 - 120	2	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-525815/3-A
Matrix: Water
Analysis Batch: 526137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525815

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			1.00	0.752		ug/L		75	55 - 120	7	35
Acenaphthylene			1.00	0.838		ug/L		84	53 - 120	8	35
Fluorene			1.00	0.835		ug/L		83	56 - 120	6	35
Phenanthrene			1.00	0.745		ug/L		74	56 - 120	7	35
Anthracene			1.00	0.761		ug/L		76	54 - 120	6	35
Benzo[a]anthracene			1.00	1.00		ug/L		100	53 - 120	3	35
Chrysene			1.00	0.793		ug/L		79	56 - 120	1	35
Benzo[a]pyrene			1.00	0.716		ug/L		72	44 - 120	0	35
Benzo[b]fluoranthene			1.00	0.791		ug/L		79	48 - 120	1	35
Benzo[k]fluoranthene			1.00	0.674		ug/L		67	47 - 121	0	35
Benzo[g,h,i]perylene			1.00	0.719		ug/L		72	41 - 123	3	35
Indeno[1,2,3-cd]pyrene			1.00	0.863		ug/L		86	38 - 120	1	35
Fluoranthene			1.00	0.857		ug/L		86	59 - 120	6	35
Pyrene			1.00	0.828		ug/L		83	59 - 120	7	35
Dibenz(a,h)anthracene			1.00	0.768		ug/L		77	38 - 122	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*74*		*38 - 120*
Nitrobenzene-d5	*80*		*10 - 120*
Terphenyl-d14	*86*		*21 - 120*

Lab Sample ID: 440-231814-G-8-A MSD
Matrix: Water
Analysis Batch: 526137

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	0.33		1.01	0.917		ug/L		58	10 - 150	29	35
Acenaphthene	ND		1.01	0.729		ug/L		72	10 - 150	16	35
Acenaphthylene	ND		1.01	0.819		ug/L		81	23 - 132	16	35
Fluorene	ND		1.01	0.807		ug/L		80	10 - 150	14	35
Phenanthrene	ND		1.01	0.706		ug/L		70	10 - 150	11	35
Anthracene	ND		1.01	0.739		ug/L		73	13 - 136	11	35
Benzo[a]anthracene	ND		1.01	0.999		ug/L		99	10 - 123	5	35
Chrysene	ND		1.01	0.731		ug/L		72	10 - 131	6	35
Benzo[a]pyrene	ND		1.01	0.689		ug/L		68	10 - 122	2	35
Benzo[b]fluoranthene	ND		1.01	0.782		ug/L		77	10 - 129	6	35
Benzo[k]fluoranthene	ND		1.01	0.614		ug/L		61	10 - 132	8	35
Benzo[g,h,i]perylene	ND		1.01	0.677		ug/L		67	10 - 126	6	35
Indeno[1,2,3-cd]pyrene	ND		1.01	0.897		ug/L		89	10 - 121	6	35
Fluoranthene	ND		1.01	0.852		ug/L		84	11 - 148	11	35
Pyrene	0.10	J	1.01	0.873		ug/L		76	13 - 144	12	35
Dibenz(a,h)anthracene	ND		1.01	0.781		ug/L		77	10 - 119	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*38 - 120*
Nitrobenzene-d5	*91*		*10 - 120*
Terphenyl-d14	*82*		*21 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 440-231814-J-8-A MS
Matrix: Water
Analysis Batch: 526137

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	0.33		1.02	0.682		ug/L		35	10 - 150
Acenaphthene	ND		1.02	0.623		ug/L		61	10 - 150
Acenaphthylene	ND		1.02	0.698		ug/L		69	23 - 132
Fluorene	ND		1.02	0.702		ug/L		69	10 - 150
Phenanthrene	ND		1.02	0.633		ug/L		62	10 - 150
Anthracene	ND		1.02	0.662		ug/L		65	13 - 136
Benzo[a]anthracene	ND		1.02	0.946		ug/L		93	10 - 123
Chrysene	ND		1.02	0.687		ug/L		68	10 - 131
Benzo[a]pyrene	ND		1.02	0.675		ug/L		67	10 - 122
Benzo[b]fluoranthene	ND		1.02	0.740		ug/L		73	10 - 129
Benzo[k]fluoranthene	ND		1.02	0.569		ug/L		56	10 - 132
Benzo[g,h,i]perylene	ND		1.02	0.639		ug/L		63	10 - 126
Indeno[1,2,3-cd]pyrene	ND		1.02	0.847		ug/L		83	10 - 121
Fluoranthene	ND		1.02	0.767		ug/L		76	11 - 148
Pyrene	0.10	J	1.02	0.776		ug/L		66	13 - 144
Dibenz(a,h)anthracene	ND		1.02	0.743		ug/L		73	10 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*62*		*38 - 120*
Nitrobenzene-d5	*78*		*10 - 120*
Terphenyl-d14	*77*		*21 - 120*

Lab Sample ID: MB 440-526142/1-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Acenaphthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Fluorene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Phenanthrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Chrysene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*38 - 120*	*01/31/19 13:42*	*02/01/19 13:14*	*1*
Nitrobenzene-d5	*92*		*10 - 120*	*01/31/19 13:42*	*02/01/19 13:14*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-526142/1-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526142

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	98		21 - 120	01/31/19 13:42	02/01/19 13:14	1

Lab Sample ID: LCS 440-526142/2-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526142

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			1.00	0.814		ug/L		81	50 - 120		
Acenaphthene			1.00	0.827		ug/L		83	55 - 120		
Acenaphthylene			1.00	0.941		ug/L		94	53 - 120		
Fluorene			1.00	0.903		ug/L		90	56 - 120		
Phenanthrene			1.00	0.796		ug/L		80	56 - 120		
Anthracene			1.00	0.819		ug/L		82	54 - 120		
Benzo[a]anthracene			1.00	1.05		ug/L		105	53 - 120		
Chrysene			1.00	0.798		ug/L		80	56 - 120		
Benzo[a]pyrene			1.00	0.771		ug/L		77	44 - 120		
Benzo[b]fluoranthene			1.00	0.852		ug/L		85	48 - 120		
Benzo[k]fluoranthene			1.00	0.685		ug/L		68	47 - 121		
Benzo[g,h,i]perylene			1.00	0.728		ug/L		73	41 - 123		
Indeno[1,2,3-cd]pyrene			1.00	0.913		ug/L		91	38 - 120		
Fluoranthene			1.00	0.907		ug/L		91	59 - 120		
Pyrene			1.00	0.854		ug/L		85	59 - 120		
Dibenz(a,h)anthracene			1.00	0.816		ug/L		82	38 - 122		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	93		38 - 120
Nitrobenzene-d5	103		10 - 120
Terphenyl-d14	89		21 - 120

Lab Sample ID: LCSD 440-526142/3-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526142

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.00	0.645		ug/L		65	50 - 120	23	35
Acenaphthene			1.00	0.740		ug/L		74	55 - 120	11	35
Acenaphthylene			1.00	0.832		ug/L		83	53 - 120	12	35
Fluorene			1.00	0.843		ug/L		84	56 - 120	7	35
Phenanthrene			1.00	0.771		ug/L		77	56 - 120	3	35
Anthracene			1.00	0.792		ug/L		79	54 - 120	3	35
Benzo[a]anthracene			1.00	1.03		ug/L		103	53 - 120	2	35
Chrysene			1.00	0.782		ug/L		78	56 - 120	2	35
Benzo[a]pyrene			1.00	0.740		ug/L		74	44 - 120	4	35
Benzo[b]fluoranthene			1.00	0.819		ug/L		82	48 - 120	4	35
Benzo[k]fluoranthene			1.00	0.661		ug/L		66	47 - 121	4	35
Benzo[g,h,i]perylene			1.00	0.714		ug/L		71	41 - 123	2	35
Indeno[1,2,3-cd]pyrene			1.00	0.892		ug/L		89	38 - 120	2	35
Fluoranthene			1.00	0.876		ug/L		88	59 - 120	3	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-526142/3-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526142

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene			1.00	0.830		ug/L		83	59 - 120	3	35
Dibenz(a,h)anthracene			1.00	0.789		ug/L		79	38 - 122	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*38 - 120*
Nitrobenzene-d5	*86*		*10 - 120*
Terphenyl-d14	*87*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-525721/1-A
Matrix: Water
Analysis Batch: 525834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/30/19 05:59	01/30/19 12:13	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/30/19 05:59	01/30/19 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*67*		*45 - 120*	*01/30/19 05:59*	*01/30/19 12:13*	*1*

Lab Sample ID: LCS 440-525721/2-A
Matrix: Water
Analysis Batch: 525834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525721

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			1000	620		ug/L		62	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*71*		*45 - 120*

Lab Sample ID: LCSD 440-525721/3-A
Matrix: Water
Analysis Batch: 525834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525721

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	639		ug/L		64	40 - 115	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*73*		*45 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-526090/1-A
Matrix: Water
Analysis Batch: 526358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/31/19 10:41	02/01/19 22:19	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/31/19 10:41	02/01/19 22:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*45 - 120*	*01/31/19 10:41*	*02/01/19 22:19*	*1*

Lab Sample ID: LCS 440-526090/2-A
Matrix: Water
Analysis Batch: 526358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526090

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	637		ug/L		64	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*110*		*45 - 120*

Lab Sample ID: LCSD 440-526090/3-A
Matrix: Water
Analysis Batch: 526358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526090

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	584		ug/L		58	40 - 115	9	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*75*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259288/1-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		01/26/19 10:40	01/29/19 16:46	1
Arsenic	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 16:46	1
Barium	2.23	J	50	1.6	ug/L		01/26/19 10:40	01/29/19 16:46	1
Beryllium	ND		2.0	0.59	ug/L		01/26/19 10:40	01/29/19 16:46	1
Cadmium	ND		2.0	0.21	ug/L		01/26/19 10:40	01/29/19 16:46	1
Chromium	ND		10	0.70	ug/L		01/26/19 10:40	01/29/19 16:46	1
Cobalt	ND		2.0	0.68	ug/L		01/26/19 10:40	01/29/19 16:46	1
Copper	ND		20	3.7	ug/L		01/26/19 10:40	01/29/19 16:46	1
Lead	ND		5.0	2.2	ug/L		01/26/19 10:40	01/29/19 16:46	1
Molybdenum	ND		10	2.9	ug/L		01/26/19 10:40	01/29/19 16:46	1
Nickel	ND		10	1.0	ug/L		01/26/19 10:40	01/29/19 16:46	1
Selenium	ND		20	4.6	ug/L		01/26/19 10:40	01/29/19 16:46	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259288/1-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		5.0	2.0	ug/L		01/26/19 10:40	01/29/19 16:46	1
Thallium	ND		10	3.5	ug/L		01/26/19 10:40	01/29/19 16:46	1
Vanadium	ND		10	0.87	ug/L		01/26/19 10:40	01/29/19 16:46	1
Zinc	ND		20	7.4	ug/L		01/26/19 10:40	01/29/19 16:46	1

Lab Sample ID: LCS 720-259288/2-A
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	936		ug/L		94	80 - 120
Arsenic	1000	933		ug/L		93	80 - 120
Barium	1000	937		ug/L		94	80 - 120
Beryllium	1000	943		ug/L		94	80 - 120
Cadmium	1000	947		ug/L		95	80 - 120
Chromium	1000	933		ug/L		93	80 - 120
Cobalt	1000	950		ug/L		95	80 - 120
Copper	1000	946		ug/L		95	80 - 120
Lead	1000	957		ug/L		96	80 - 120
Molybdenum	1000	941		ug/L		94	80 - 120
Nickel	1000	943		ug/L		94	80 - 120
Selenium	1000	942		ug/L		94	80 - 120
Silver	500	470		ug/L		94	80 - 120
Thallium	1000	818		ug/L		82	80 - 120
Vanadium	1000	941		ug/L		94	80 - 120
Zinc	1000	942		ug/L		94	80 - 120

Lab Sample ID: 720-90947-I-1-A MS
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	917		ug/L		92	75 - 125
Arsenic	ND		1000	931		ug/L		93	75 - 125
Barium	140	B	1000	1070		ug/L		94	75 - 125
Beryllium	ND		1000	968		ug/L		97	75 - 125
Cadmium	0.74	J	1000	896		ug/L		90	75 - 125
Chromium	1.5	J	1000	887		ug/L		89	75 - 125
Cobalt	3.8		1000	889		ug/L		89	75 - 125
Copper	17	J	1000	906		ug/L		89	75 - 125
Lead	ND		1000	876		ug/L		88	75 - 125
Molybdenum	3.8	J	1000	925		ug/L		92	75 - 125
Nickel	4.0	J	1000	874		ug/L		87	75 - 125
Selenium	ND		1000	908		ug/L		91	75 - 125
Silver	ND		500	450		ug/L		90	75 - 125
Thallium	14		1000	820		ug/L		81	75 - 125
Vanadium	ND		1000	923		ug/L		92	75 - 125
Zinc	78		1000	967		ug/L		89	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90947-I-1-B MSD
Matrix: Water
Analysis Batch: 259445

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	944		ug/L		94	75 - 125	3	20
Arsenic	ND		1000	960		ug/L		96	75 - 125	3	20
Barium	140	B	1000	1100		ug/L		96	75 - 125	2	20
Beryllium	ND		1000	990		ug/L		99	75 - 125	2	20
Cadmium	0.74	J	1000	924		ug/L		92	75 - 125	3	20
Chromium	1.5	J	1000	909		ug/L		91	75 - 125	2	20
Cobalt	3.8		1000	916		ug/L		91	75 - 125	3	20
Copper	17	J	1000	929		ug/L		91	75 - 125	3	20
Lead	ND		1000	904		ug/L		90	75 - 125	3	20
Molybdenum	3.8	J	1000	954		ug/L		95	75 - 125	3	20
Nickel	4.0	J	1000	900		ug/L		90	75 - 125	3	20
Selenium	ND		1000	950		ug/L		95	75 - 125	4	20
Silver	ND		500	462		ug/L		92	75 - 125	3	20
Thallium	14		1000	894		ug/L		88	75 - 125	9	20
Vanadium	ND		1000	945		ug/L		95	75 - 125	2	20
Zinc	78		1000	997		ug/L		92	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259338/1-A
Matrix: Water
Analysis Batch: 259401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/28/19 14:54	01/29/19 11:34	1

Lab Sample ID: LCS 720-259338/2-A
Matrix: Water
Analysis Batch: 259401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.38		ug/L		94	85 - 115

Lab Sample ID: 720-90978-I-1-B MS
Matrix: Water
Analysis Batch: 259401

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259338

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	10.7		ug/L		107	75 - 125

Lab Sample ID: 720-90978-I-1-C MSD
Matrix: Water
Analysis Batch: 259401

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259338

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	10.8		ug/L		108	75 - 125	0	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-259263/9
Matrix: Water
Analysis Batch: 259263

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/25/19 15:05	1

Lab Sample ID: LCS 720-259263/10
Matrix: Water
Analysis Batch: 259263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	253		ug/L		101	90 - 110		

Lab Sample ID: LCSD 720-259263/11
Matrix: Water
Analysis Batch: 259263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	254		ug/L		102	90 - 110	1	20

Lab Sample ID: 720-91036-7 MS
Matrix: Water
Analysis Batch: 259263

Client Sample ID: DG-X13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	262		ug/L		105	85 - 115		

Lab Sample ID: 720-91036-7 MSD
Matrix: Water
Analysis Batch: 259263

Client Sample ID: DG-X13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	263		ug/L		105	85 - 115	0	20

GC/MS VOA

Analysis Batch: 526751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Total/NA	Water	8260B	
720-91036-2	DG-AD17W	Total/NA	Water	8260B	
720-91036-3	DG-AB17W	Total/NA	Water	8260B	
720-91036-4	FB-1.25.19	Total/NA	Water	8260B	
720-91036-5	DG-AA19W	Total/NA	Water	8260B	
720-91036-6	DG-R9W	Total/NA	Water	8260B	
720-91036-7	DG-X13W	Total/NA	Water	8260B	
720-91036-8	DG-AA15W	Total/NA	Water	8260B	
720-91036-10	TB-1.25.19	Total/NA	Water	8260B	
MB 440-526751/5	Method Blank	Total/NA	Water	8260B	
LCS 440-526751/6	Lab Control Sample	Total/NA	Water	8260B	
720-91036-1 MS	DG-AI15W	Total/NA	Water	8260B	
720-91036-1 MSD	DG-AI15W	Total/NA	Water	8260B	

Analysis Batch: 526752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-2	DG-AD17W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-3	DG-AB17W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-5	DG-AA19W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-7	DG-X13W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-8	DG-AA15W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-10	TB-1.25.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-526752/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-526752/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-1 MS	DG-AI15W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-1 MSD	DG-AI15W	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 526984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-6	DG-R9W	Total/NA	Water	8260B	
720-91036-9	DG-AB13W	Total/NA	Water	8260B	
720-91036-11	DUP-110	Total/NA	Water	8260B	
MB 440-526984/9	Method Blank	Total/NA	Water	8260B	
LCS 440-526984/5	Lab Control Sample	Total/NA	Water	8260B	
720-91036-6 MS	DG-R9W	Total/NA	Water	8260B	
720-91036-6 MSD	DG-R9W	Total/NA	Water	8260B	

Analysis Batch: 526985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-4	FB-1.25.19	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 526985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-6	DG-R9W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-9	DG-AB13W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-11	DUP-110	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-526985/9	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-526985/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-6 MS	DG-R9W	Total/NA	Water	8260B/CA_LUFT MS	
720-91036-6 MSD	DG-R9W	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 527259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-9 - RA	DG-AB13W	Total/NA	Water	8260B	
720-91036-11 - RA	DUP-110	Total/NA	Water	8260B	
MB 440-527259/5	Method Blank	Total/NA	Water	8260B	
LCS 440-527259/6	Lab Control Sample	Total/NA	Water	8260B	
440-232553-F-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-232553-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 525815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Total/NA	Water	3520C	
720-91036-2	DG-AD17W	Total/NA	Water	3520C	
720-91036-2 - RA	DG-AD17W	Total/NA	Water	3520C	
720-91036-5	DG-AA19W	Total/NA	Water	3520C	
720-91036-6	DG-R9W	Total/NA	Water	3520C	
720-91036-7	DG-X13W	Total/NA	Water	3520C	
720-91036-9	DG-AB13W	Total/NA	Water	3520C	
720-91036-11	DUP-110	Total/NA	Water	3520C	
MB 440-525815/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-525815/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-525815/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
440-231814-G-8-A MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	
440-231814-J-8-A MS	Matrix Spike	Total/NA	Water	3520C	

Analysis Batch: 526137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-525815/1-A	Method Blank	Total/NA	Water	8270C SIM	525815
LCS 440-525815/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	525815
LCSD 440-525815/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	525815
440-231814-G-8-A MSD	Matrix Spike Duplicate	Total/NA	Water	8270C SIM	525815
440-231814-J-8-A MS	Matrix Spike	Total/NA	Water	8270C SIM	525815

GC/MS Semi VOA (Continued)

Prep Batch: 526142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-3	DG-AB17W	Total/NA	Water	3520C	
720-91036-8	DG-AA15W	Total/NA	Water	3520C	
MB 440-526142/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-526142/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-526142/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 526356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-2	DG-AD17W	Total/NA	Water	8270C SIM	525815
720-91036-3	DG-AB17W	Total/NA	Water	8270C SIM	526142
720-91036-6	DG-R9W	Total/NA	Water	8270C SIM	525815
720-91036-7	DG-X13W	Total/NA	Water	8270C SIM	525815
720-91036-8	DG-AA15W	Total/NA	Water	8270C SIM	526142
720-91036-9	DG-AB13W	Total/NA	Water	8270C SIM	525815
720-91036-11	DUP-110	Total/NA	Water	8270C SIM	525815
MB 440-526142/1-A	Method Blank	Total/NA	Water	8270C SIM	526142
LCS 440-526142/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	526142
LCSD 440-526142/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	526142

Analysis Batch: 526850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Total/NA	Water	8270C SIM	525815
720-91036-2 - RA	DG-AD17W	Total/NA	Water	8270C SIM	525815
720-91036-5	DG-AA19W	Total/NA	Water	8270C SIM	525815

GC Semi VOA

Prep Batch: 525721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Total/NA	Water	3510C	
720-91036-2	DG-AD17W	Total/NA	Water	3510C	
720-91036-5	DG-AA19W	Total/NA	Water	3510C	
720-91036-5 - DL	DG-AA19W	Total/NA	Water	3510C	
720-91036-6	DG-R9W	Total/NA	Water	3510C	
720-91036-7	DG-X13W	Total/NA	Water	3510C	
720-91036-9	DG-AB13W	Total/NA	Water	3510C	
720-91036-11	DUP-110	Total/NA	Water	3510C	
MB 440-525721/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-525721/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-525721/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 525834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Total/NA	Water	8015B	525721
720-91036-2	DG-AD17W	Total/NA	Water	8015B	525721
720-91036-5	DG-AA19W	Total/NA	Water	8015B	525721
720-91036-5 - DL	DG-AA19W	Total/NA	Water	8015B	525721
720-91036-6	DG-R9W	Total/NA	Water	8015B	525721
720-91036-7	DG-X13W	Total/NA	Water	8015B	525721
720-91036-9	DG-AB13W	Total/NA	Water	8015B	525721

GC Semi VOA (Continued)

Analysis Batch: 525834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-11	DUP-110	Total/NA	Water	8015B	525721
MB 440-525721/1-A	Method Blank	Total/NA	Water	8015B	525721
LCS 440-525721/2-A	Lab Control Sample	Total/NA	Water	8015B	525721
LCSD 440-525721/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	525721

Prep Batch: 526090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-3	DG-AB17W	Total/NA	Water	3510C	
720-91036-8	DG-AA15W	Total/NA	Water	3510C	
MB 440-526090/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-526090/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-526090/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 526358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-3	DG-AB17W	Total/NA	Water	8015B	526090
720-91036-8	DG-AA15W	Total/NA	Water	8015B	526090
MB 440-526090/1-A	Method Blank	Total/NA	Water	8015B	526090
LCS 440-526090/2-A	Lab Control Sample	Total/NA	Water	8015B	526090
LCSD 440-526090/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	526090

Metals

Prep Batch: 259288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Dissolved	Water	3005A	
720-91036-2	DG-AD17W	Dissolved	Water	3005A	
720-91036-3	DG-AB17W	Dissolved	Water	3005A	
720-91036-5	DG-AA19W	Dissolved	Water	3005A	
720-91036-6	DG-R9W	Dissolved	Water	3005A	
720-91036-7	DG-X13W	Dissolved	Water	3005A	
720-91036-8	DG-AA15W	Dissolved	Water	3005A	
720-91036-9	DG-AB13W	Dissolved	Water	3005A	
720-91036-11	DUP-110	Dissolved	Water	3005A	
MB 720-259288/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-259288/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-90947-I-1-A MS	Matrix Spike	Dissolved	Water	3005A	
720-90947-I-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 259338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Dissolved	Water	7470A	
720-91036-2	DG-AD17W	Dissolved	Water	7470A	
720-91036-3	DG-AB17W	Dissolved	Water	7470A	
720-91036-5	DG-AA19W	Dissolved	Water	7470A	
720-91036-6	DG-R9W	Dissolved	Water	7470A	
720-91036-7	DG-X13W	Dissolved	Water	7470A	
720-91036-8	DG-AA15W	Dissolved	Water	7470A	
720-91036-9	DG-AB13W	Dissolved	Water	7470A	
720-91036-11	DUP-110	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 259338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259338/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259338/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-90978-I-1-B MS	Matrix Spike	Total/NA	Water	7470A	
720-90978-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 259401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Dissolved	Water	7470A	259338
720-91036-2	DG-AD17W	Dissolved	Water	7470A	259338
720-91036-3	DG-AB17W	Dissolved	Water	7470A	259338
720-91036-5	DG-AA19W	Dissolved	Water	7470A	259338
720-91036-6	DG-R9W	Dissolved	Water	7470A	259338
720-91036-7	DG-X13W	Dissolved	Water	7470A	259338
720-91036-8	DG-AA15W	Dissolved	Water	7470A	259338
720-91036-9	DG-AB13W	Dissolved	Water	7470A	259338
720-91036-11	DUP-110	Dissolved	Water	7470A	259338
MB 720-259338/1-A	Method Blank	Total/NA	Water	7470A	259338
LCS 720-259338/2-A	Lab Control Sample	Total/NA	Water	7470A	259338
720-90978-I-1-B MS	Matrix Spike	Total/NA	Water	7470A	259338
720-90978-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	259338

Analysis Batch: 259445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Dissolved	Water	6010B	259288
720-91036-2	DG-AD17W	Dissolved	Water	6010B	259288
720-91036-3	DG-AB17W	Dissolved	Water	6010B	259288
720-91036-5	DG-AA19W	Dissolved	Water	6010B	259288
720-91036-6	DG-R9W	Dissolved	Water	6010B	259288
720-91036-7	DG-X13W	Dissolved	Water	6010B	259288
720-91036-8	DG-AA15W	Dissolved	Water	6010B	259288
720-91036-9	DG-AB13W	Dissolved	Water	6010B	259288
720-91036-11	DUP-110	Dissolved	Water	6010B	259288
MB 720-259288/1-A	Method Blank	Total Recoverable	Water	6010B	259288
LCS 720-259288/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259288
720-90947-I-1-A MS	Matrix Spike	Dissolved	Water	6010B	259288
720-90947-I-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	259288

Analysis Batch: 259497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-2	DG-AD17W	Dissolved	Water	6010B	259288
720-91036-5	DG-AA19W	Dissolved	Water	6010B	259288
720-91036-6	DG-R9W	Dissolved	Water	6010B	259288
720-91036-7	DG-X13W	Dissolved	Water	6010B	259288
720-91036-8	DG-AA15W	Dissolved	Water	6010B	259288
720-91036-9	DG-AB13W	Dissolved	Water	6010B	259288
720-91036-11	DUP-110	Dissolved	Water	6010B	259288

General Chemistry

Analysis Batch: 259263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91036-1	DG-AI15W	Total/NA	Water	7196A	
720-91036-2	DG-AD17W	Total/NA	Water	7196A	
720-91036-3	DG-AB17W	Total/NA	Water	7196A	
720-91036-5	DG-AA19W	Total/NA	Water	7196A	
720-91036-6	DG-R9W	Total/NA	Water	7196A	
720-91036-7	DG-X13W	Total/NA	Water	7196A	
720-91036-8	DG-AA15W	Total/NA	Water	7196A	
720-91036-9	DG-AB13W	Total/NA	Water	7196A	
720-91036-11	DUP-110	Total/NA	Water	7196A	
MB 720-259263/9	Method Blank	Total/NA	Water	7196A	
LCS 720-259263/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-259263/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-91036-7 MS	DG-X13W	Total/NA	Water	7196A	
720-91036-7 MSD	DG-X13W	Total/NA	Water	7196A	

Client Sample ID: DG-AI15W

Lab Sample ID: 720-91036-1

Date Collected: 01/25/19 08:00

Matrix: Water

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526751	02/05/19 14:35	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526752	02/05/19 14:35	GMA	TAL IRV
Total/NA	Prep	3520C			525815	01/30/19 10:58	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		5	526850	02/05/19 22:59	L1B	TAL IRV
Total/NA	Prep	3510C			525721	01/30/19 05:59	L1H	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 12:56	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:18	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:09	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259263	01/25/19 17:00	TNL	TAL PLS

Client Sample ID: DG-AD17W

Lab Sample ID: 720-91036-2

Date Collected: 01/25/19 09:00

Matrix: Water

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526751	02/05/19 12:03	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526752	02/05/19 12:03	GMA	TAL IRV
Total/NA	Prep	3520C			525815	01/30/19 10:58	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526356	02/01/19 16:41	L1B	TAL IRV
Total/NA	Prep	3520C	RA		525815	01/30/19 10:58	AJP	TAL IRV
Total/NA	Analysis	8270C SIM	RA	1	526850	02/05/19 21:27	L1B	TAL IRV
Total/NA	Prep	3510C			525721	01/30/19 05:59	L1H	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 13:39	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:23	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 12:59	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:11	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259263	01/25/19 17:00	TNL	TAL PLS

Client Sample ID: DG-AB17W

Lab Sample ID: 720-91036-3

Date Collected: 01/25/19 09:40

Matrix: Water

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526751	02/05/19 15:26	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526752	02/05/19 15:26	GMA	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526356	02/01/19 16:18	L1B	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DG-AB17W

Date Collected: 01/25/19 09:40
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			526090	01/31/19 14:03	HCK	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 01:24	LMB	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:28	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:14	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259263	01/25/19 17:00	TNL	TAL PLS

Client Sample ID: FB-1.25.19

Date Collected: 01/25/19 09:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526751	02/05/19 15:51	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526985	02/06/19 12:17	DCI	TAL IRV

Client Sample ID: DG-AA19W

Date Collected: 01/25/19 10:10
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526751	02/05/19 16:17	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526752	02/05/19 16:17	GMA	TAL IRV
Total/NA	Prep	3520C			525815	01/30/19 10:58	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		5	526850	02/05/19 23:22	L1B	TAL IRV
Total/NA	Prep	3510C			525721	01/30/19 05:59	L1H	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 13:18	MPD	TAL IRV
Total/NA	Prep	3510C	DL		525721	01/30/19 05:59	L1H	TAL IRV
Total/NA	Analysis	8015B	DL	10	525834	01/30/19 15:48	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:43	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 13:04	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:16	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259263	01/25/19 17:00	TNL	TAL PLS

Client Sample ID: DG-R9W

Lab Sample ID: 720-91036-6

Date Collected: 01/25/19 11:10

Matrix: Water

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526984	02/06/19 10:58	DCI	TAL IRV
Total/NA	Analysis	8260B		1	526751	02/05/19 16:42	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526985	02/06/19 10:58	DCI	TAL IRV
Total/NA	Prep	3520C			525815	01/30/19 10:58	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526356	02/01/19 17:04	L1B	TAL IRV
Total/NA	Prep	3510C			525721	01/30/19 05:59	L1H	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 12:35	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:48	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 13:09	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:20	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259263	01/25/19 17:00	TNL	TAL PLS

Client Sample ID: DG-X13W

Lab Sample ID: 720-91036-7

Date Collected: 01/25/19 11:40

Matrix: Water

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526751	02/05/19 17:08	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526752	02/05/19 17:08	GMA	TAL IRV
Total/NA	Prep	3520C			525815	01/30/19 10:58	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526356	02/01/19 17:27	L1B	TAL IRV
Total/NA	Prep	3510C			525721	01/30/19 05:59	L1H	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 14:43	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:53	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 13:14	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:23	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259263	01/25/19 17:00	TNL	TAL PLS

Client Sample ID: DG-AA15W

Lab Sample ID: 720-91036-8

Date Collected: 01/25/19 12:20

Matrix: Water

Date Received: 01/25/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526751	02/05/19 17:33	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526752	02/05/19 17:33	GMA	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DG-AA15W

Date Collected: 01/25/19 12:20
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C SIM		1	526356	02/01/19 15:55	L1B	TAL IRV
Total/NA	Prep	3510C			526090	01/31/19 14:03	HCK	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 02:05	LMB	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 18:58	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 13:18	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:30	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259263	01/25/19 17:00	TNL	TAL PLS

Client Sample ID: DG-AB13W

Date Collected: 01/25/19 12:50
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526984	02/06/19 12:43	DCI	TAL IRV
Total/NA	Analysis	8260B	RA	1	527259	02/07/19 14:54	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526985	02/06/19 12:43	DCI	TAL IRV
Total/NA	Prep	3520C			525815	01/30/19 10:58	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526356	02/01/19 17:50	L1B	TAL IRV
Total/NA	Prep	3510C			525721	01/30/19 05:59	L1H	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 14:22	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 19:03	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 13:23	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:32	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259263	01/25/19 17:00	TNL	TAL PLS

Client Sample ID: TB-1.25.19

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526751	02/05/19 15:00	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526752	02/05/19 15:00	GMA	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Client Sample ID: DUP-110

Date Collected: 01/25/19 00:00
Date Received: 01/25/19 16:00

Lab Sample ID: 720-91036-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	526984	02/06/19 13:10	DCI	TAL IRV
Total/NA	Analysis	8260B	RA	1	527259	02/07/19 15:21	TCN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526985	02/06/19 13:10	DCI	TAL IRV
Total/NA	Prep	3520C			525815	01/30/19 10:58	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526356	02/01/19 18:13	L1B	TAL IRV
Total/NA	Prep	3510C			525721	01/30/19 05:59	L1H	TAL IRV
Total/NA	Analysis	8015B		1	525834	01/30/19 15:05	MPD	TAL IRV
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259445	01/29/19 19:07	OBI	TAL PLS
Dissolved	Prep	3005A			259288	01/26/19 10:40	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259497	01/30/19 13:28	OBI	TAL PLS
Dissolved	Prep	7470A			259338	01/28/19 14:54	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259401	01/29/19 12:34	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259263	01/25/19 17:00	TNL	TAL PLS

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91036-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91036-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91036-1	DG-AI15W	Water	01/25/19 08:00	01/25/19 16:00
720-91036-2	DG-AD17W	Water	01/25/19 09:00	01/25/19 16:00
720-91036-3	DG-AB17W	Water	01/25/19 09:40	01/25/19 16:00
720-91036-4	FB-1.25.19	Water	01/25/19 09:00	01/25/19 16:00
720-91036-5	DG-AA19W	Water	01/25/19 10:10	01/25/19 16:00
720-91036-6	DG-R9W	Water	01/25/19 11:10	01/25/19 16:00
720-91036-7	DG-X13W	Water	01/25/19 11:40	01/25/19 16:00
720-91036-8	DG-AA15W	Water	01/25/19 12:20	01/25/19 16:00
720-91036-9	DG-AB13W	Water	01/25/19 12:50	01/25/19 16:00
720-91036-10	TB-1.25.19	Water	01/25/19 00:00	01/25/19 16:00
720-91036-11	DUP-110	Water	01/25/19 00:00	01/25/19 16:00

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91036

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, lsmith@geosyntec.com	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Project Name: Brisbane OU2 Investigation				
Site: Brisbane OU2				
P O # WG2619/ TA project # 72013947				

720-91036 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes:
1.	DG-AI15W	1/25/2019	0800	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2.	DG-AD17W	1/25/2019	0900	G	GW	9	Y		X	X	X	X	X	
3	DG-AB17W	1/25/2019	0940	G	GW	9	Y		X	X	X	X	X	
4.	FB-1.25.2019	1/25/2019	0900	G	GW	3	N		X					
5	DG-AA19W	1/25/2019	1010	G	GW	9	Y	MS	X	X	X	X	X	
6.	DG-R9W	1/25/2019	1110	G	GW	9	Y	MS	X	X	X	X	X	
7	DG-X13W	1/25/2019	1140	G	GW	9	N		X	X	X	X	X	
8	DG-AA15W	1/25/2019	1220	G	GW	9	N		X	X	X	X	X	
9	DG-AB13W	1/25/2019	1250	G	GW	9	N		X	X	X	X	X	
10	TB-1.25.2019	1/25/2019	—	G	GW	1	N		X					
11	DUP-110	1/25/2019	—	G	GW	9	Y		X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.5°C, 0.5°C, 3.7°C, 2.2°C, 0.3°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C): Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by: Nathan Schechtman	Company: Geosyntec	Date/Time: 1/25/2019 17:52	Received by:	Company: TA PLS	Date/Time: 1-25-19 13:52
Relinquished by:	Company: TA PLS	Date/Time: 1-25-19 16:15	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-25-19 1600

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40973.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91036-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/6/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AI15W (720-91036-1)	1/25/19	08:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AD17W (720-91036-2)	1/25/19	09:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AB17W (720-91036-3)	1/25/19	09:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-1.25.2019 (720-91036-4)	1/25/19	09:00 Pacific		Water			X	X			3	check for 2 phases
DG-AA19W (720-91036-5)	1/25/19	10:10 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-R9W (720-91036-6)	1/25/19	11:10 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-X13W (720-91036-7)	1/25/19	11:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AA15W (720-91036-8)	1/25/19	12:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AB13W (720-91036-9)	1/25/19	12:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1/28/19 1017	TAPLS			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				1/28/19 1810	TAL SF
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
	4786 4574 2996	3.0, 3.0, 2.0, 3.5, 2.5, 1.0, 1.0, 1.2

Ver: 09/20/2016

2/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No. 720-40973.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91036-1
Address: 17461 Derian Ave, Suite 100.	Due Date Requested: 2/6/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
TB-1.25.2019 (720-91036-10)	1/25/19	Pacific		Water			X	X			1	check for 2 phases
DUP-110 (720-91036-11)	1/25/19	Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment	
Relinquished by:	Date/Time: 1/28/19 1017	Company TAPLS	Received by:		Date/Time		Company
Relinquished by:	Date/Time	Company	Received by:		Date/Time 1/28/19 1030		Company TAPLS
Relinquished by:	Date/Time	Company	Received by:		Date/Time		Company
Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.0+0.3=3.3 °C i; 3.5-0.5=3.0 °C i				

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91036-1

Login Number: 91036
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91036-1

Login Number: 91036
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/29/19 11:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91036-1

Login Number: 91036
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/29/19 01:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Friday, January 25, 2019 2:51 PM
To: Patel, Urvashi; Bondoc, Christian M.
Cc: Anthony Smith; Krzysztof Jesionek
Subject: Groundwater samples with free product

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

-External Email-

Hi Urvashi,

While groundwater sampling today, the following samples were found to have free product and will need to utilized the discussed separation process:

- AB17W
- AA15W

Thank you!

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91047-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 8:14:29 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91047-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91047-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 1/28/2019 6:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.2º C, 6.7º C, 13.5º C, 15.2º C and 16.4º C.

Samples DG-P15S-0.5-1 (720-91047-18) and DG-P15S-3.5-4 (720-91047-19) were canceled at the request of the client via email on January 29, 2019.

Metals
Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target element recoveries passed criteria: (ICSA 720-259508/7) and (ICSAB 720-259508/8).

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-X12S-0.5-1 (720-91047-1), DG-X12S-3.5-4 (720-91047-2), DG-W12S-0.5-1 (720-91047-3), DG-W12S-3.5-4 (720-91047-4), DG-V12S-0.5-1 (720-91047-5), DG-V12S-3.5-4 (720-91047-6), DG-U12S-0.5-1 (720-91047-7), DG-R12S-0.5-1 (720-91047-9), DG-R12S-3.5-4 (720-91047-10), DUP-82 (720-91047-12), DG-R14S-0.5-1 (720-91047-13), DG-R14S-3.5-4 (720-91047-14), DG-R16S-0.5-1 (720-91047-15), DG-R16S-3.5-4 (720-91047-16), DG-R16S-19.5-20 (720-91047-17), DG-X11S-0.5-1 (720-91047-20), DG-X11S-3.5-4 (720-91047-21), DG-Z11S-0.5-1 (720-91047-22), DG-Z11S-3.5-4 (720-91047-23), DG-AB11S-0.5-1 (720-91047-24), DG-AB11S-3.5-4 (720-91047-25), DG-AF11S-0.5-1 (720-91047-26), DG-AF11S-3.5-4 (720-91047-27), DG-AH11S-0.5-1 (720-91047-28), DG-AH11S-3.5-4 (720-91047-29), DG-AJ11S-0.5-1 (720-91047-30), DG-AJ11S-3.5-4 (720-91047-31), DG-AL11S-0.5-1 (720-91047-32), DG-AL11S-3.5-4 (720-91047-33), DG-AN11S-0.5-1 (720-91047-34), DG-AN11S-3.5-4 (720-91047-35), DG-AP10S-0.5-1 (720-91047-36), DG-AP10S-3.5-4 (720-91047-37) and (720-91048-E-16-F). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DG-U12S-3.5-4 (720-91047-8), DUP-98 (720-91047-11) and DUP-82 (720-91047-12. Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259417 and analytical batch 720-259508 contained Arsenic and Antimony above the method detection limit. The target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259508 was outside control limits for Barium-12% and Copper-12%: (720-91047-A-20-D SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259417 and analytical batch 720-259508 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The method blank for preparation batch 720-259404 and analytical batch 720-259532 contained Cadmium and Antimony above the method detection limit. The target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259532 was outside control limits for Cobalt-11% and Vanadium-14%: (720-91047-A-14-F SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259404 and analytical batch 720-259532 were outside control limits for some elements. The sample was diluted due to the high concentration of the non-target analyte Calcium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259532 contained Lead above the reporting limit (RL). All

Job ID: 720-91047-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for this compound have been qualified with a "^" symbol.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target element recoveries passed criteria: (ICSA 720-259500/7) and (ICSAB 720-259500/8).

Method 6010B: The method blank for preparation batch 720-259393 and analytical batch 720-259703 contained Arsenic, Barium, and Selenium above the method detection limit. The target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259393 and analytical batch 720-259703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259703 was outside control limits for Arsenic-24%, Barium-25%, Cobalt-20%, Chromium-25%, Copper-19%, Nickel-21%, Lead-23%, Antimony-19%, Vanadium-25%, and Zinc-22%: (720-91035-A-30-D SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259703 contained Thallium above the reporting limit (RL). All reported samples associated with this CCB were ND for this analyte; therefore, re-analysis of samples was not performed.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target element recoveries passed criteria: (ICSA 720-259703/7) and (ICSAB 720-259703/11).

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259757 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-259430 and analytical batch 720-260050 contained Silver and Lead above the method detection limit. The target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259430 and analytical batch 720-260050 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260050 was outside control limits for Arsenic-29%, Barium-29%, Cobalt-33%, Chromium-42%, Nickel-36%, Lead-31%, Thallium-37%, and Vanadium-35%: (720-91048-E-16-F SD)

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259386 and analytical batch 720-260158 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 7471A: The following samples were diluted to bring the concentration of target analytes within the calibration range: DG-U12S-3.5-4 (720-91047-8), DUP-82 (720-91047-12), DG-R16S-0.5-1 (720-91047-15) and DG-R16S-3.5-4 (720-91047-16). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-X12S-0.5-1 — Lab Sample ID: 720-91047-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.99	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	6.6	B	4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	80	B	2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.67		0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	55		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	160		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	270		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	2.6		2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	32		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J B	4.0	0.59	mg/Kg	4		6010B	Total/NA
Vanadium	67		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	170		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X12S-3.5-4 — Lab Sample ID: 720-91047-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	15		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	15	B	3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	1900	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	3.4		0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	65		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	6.8		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	800		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	4700		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.52	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	44		1.9	0.20	mg/Kg	4		6010B	Total/NA
Silver	6.6		0.96	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	2600		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.79		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W12S-0.5-1 — Lab Sample ID: 720-91047-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	2.3	J B	4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	33	B	2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	23		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	6.3		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	94		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	87		2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	12		2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	58		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	38		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.044		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-W12S-3.5-4 — Lab Sample ID: 720-91047-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	600	B	1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.71		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	17		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	20		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	19		1.7	0.37	mg/Kg	4		6010B	Total/NA
Nickel	38		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J B	3.5	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	63		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.062		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V12S-0.5-1 — Lab Sample ID: 720-91047-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	1.5	J B	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	30	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	10		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	110		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	63		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	10		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.2	J B	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	55		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.076		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V12S-3.5-4 — Lab Sample ID: 720-91047-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2	B	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	70	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.33	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	54		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	30		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	7.4		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	33		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J B	3.6	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	47		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.031		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U12S-0.5-1 — Lab Sample ID: 720-91047-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.6	0.26	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U12S-0.5-1 (Continued)

Lab Sample ID: 720-91047-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3	B	3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	31	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	10		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	110		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	110		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	10		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.72	J B	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	80		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.093		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U12S-3.5-4

Lab Sample ID: 720-91047-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.4		4.0	0.66	mg/Kg	10		6010B	Total/NA
Arsenic	59	B	7.9	0.67	mg/Kg	10		6010B	Total/NA
Barium	44	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	1.3		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	3.4		0.99	0.098	mg/Kg	10		6010B	Total/NA
Chromium	73		4.0	0.42	mg/Kg	10		6010B	Total/NA
Cobalt	19		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	110		12	5.7	mg/Kg	10		6010B	Total/NA
Lead	1700	^	4.0	0.83	mg/Kg	10		6010B	Total/NA
Molybdenum	1.2	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	58		4.0	0.40	mg/Kg	10		6010B	Total/NA
Selenium	3.7	J B	7.9	1.2	mg/Kg	10		6010B	Total/NA
Vanadium	31		4.0	0.54	mg/Kg	10		6010B	Total/NA
Zinc	790		12	5.0	mg/Kg	10		6010B	Total/NA
Mercury	6.3		0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-R12S-0.5-1

Lab Sample ID: 720-91047-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.5		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	6.7	B	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	78	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	37		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	630		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	1200		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.86	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	30		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J B	3.3	0.49	mg/Kg	4		6010B	Total/NA
Silver	0.21	J	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	450		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.41		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R12S-3.5-4 — Lab Sample ID: 720-91047-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.52	J	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	2.2	J B	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	200	B	1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	60		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	32		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	9.7		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	36		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.91	J B	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	70		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-98 — Lab Sample ID: 720-91047-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9	B	3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.31	J	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	59		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	54		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	56		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	68		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	65		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	60		12	5.0	mg/Kg	10		6010B	Total/NA
Mercury	0.077		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-82 — Lab Sample ID: 720-91047-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	74		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	1.0		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	3.7	B	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	210		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	68		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	20000		9.2	1.9	mg/Kg	20		6010B	Total/NA
Molybdenum	1.1	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	48		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.8	J	3.7	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	990		28	12	mg/Kg	20		6010B	Total/NA
Mercury	8.9		0.14	0.021	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R14S-0.5-1 — Lab Sample ID: 720-91047-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.0	J	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	80		1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J B	0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	53		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	89		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	59		1.9	0.41	mg/Kg	4		6010B	Total/NA
Nickel	69		1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	50		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R14S-3.5-4 — Lab Sample ID: 720-91047-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.4	J	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	74		1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J B	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	50		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	8.3		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	38		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	44	^	1.7	0.37	mg/Kg	4		6010B	Total/NA
Nickel	62		1.7	0.18	mg/Kg	4		6010B	Total/NA
Thallium	1.2	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	53		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.12	F1 F2	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R16S-0.5-1 — Lab Sample ID: 720-91047-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.6	B	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	17		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	73		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.78	B	0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	26		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	450		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	520	^	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.31	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	38		1.9	0.19	mg/Kg	4		6010B	Total/NA
Thallium	1.7	J	1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	85		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	190		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	2.1		0.062	0.0091	mg/Kg	4		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R16S-3.5-4 — Lab Sample ID: 720-91047-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6	J B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	56		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	86		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.47		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J B	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	140		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	42		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	40	^	1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	170		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.67	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	55		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	9.3		0.16	0.024	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-R16S-19.5-20 — Lab Sample ID: 720-91047-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.97	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	0.98	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	74		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J B	0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	52		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	9.9		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	3.5		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	32		1.6	0.17	mg/Kg	4		6010B	Total/NA
Thallium	0.78	J	1.6	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	46		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	23		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.022		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X11S-0.5-1 — Lab Sample ID: 720-91047-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.0	B F1	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	11	B	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	26	F2	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	12		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	130	F1	4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	130	F1 F2	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	20		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	52	F1	1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	37	F2	4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.051		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-X11S-3.5-4 — Lab Sample ID: 720-91047-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.68	J B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	11	B	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	39		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	53		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	6.4		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	6.7		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	2.6		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	39		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	42		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	21		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.011	J	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z11S-0.5-1 — Lab Sample ID: 720-91047-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.3	B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	18	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	41		1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.56		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	23		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	100		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	170		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.9		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	16		1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	88		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z11S-3.5-4 — Lab Sample ID: 720-91047-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.5	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	76	B	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	120		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	18		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	140		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	360		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	28		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	65		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	210		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.070		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB11S-0.5-1 — Lab Sample ID: 720-91047-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.92	J B	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	2.8	J B	3.0	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB11S-0.5-1 (Continued)

Lab Sample ID: 720-91047-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	24		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.37		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	16		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	89		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	65		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	2.0		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	11		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	73		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.097		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB11S-3.5-4

Lab Sample ID: 720-91047-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.1	B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	9.1	B	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	74		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.83		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	21		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	160		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	590		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.47	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	18		1.6	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	200		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.53		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF11S-0.5-1

Lab Sample ID: 720-91047-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.66	J B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	5.1	B	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	31		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	31		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	5.7		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	15		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	26		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	25		1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	36		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.065		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF11S-3.5-4

Lab Sample ID: 720-91047-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.4	B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	8.2	B	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	42		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.39	J	0.42	0.042	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AF11S-3.5-4 (Continued) — Lab Sample ID: 720-91047-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	17		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	130		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	190		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.62	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	23		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	77		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.51		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH11S-0.5-1 — Lab Sample ID: 720-91047-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6	J B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	6.9	B	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	46		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.40	J	0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	27		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	5.8		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	48		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	130		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.36	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	20		1.7	0.17	mg/Kg	4		6010B	Total/NA
Silver	0.36	J	0.84	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	81		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.081		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH11S-3.5-4 — Lab Sample ID: 720-91047-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.87	J B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	8.2	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	30		1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.44		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	16		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	6.6		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	100		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	140		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.49	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	14		1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	86		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ11S-0.5-1 — Lab Sample ID: 720-91047-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J B	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	4.3	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	36		1.8	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ11S-0.5-1 (Continued) — Lab Sample ID: 720-91047-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.21	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	31		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	14		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	27		1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	27		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.94	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	52		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ11S-3.5-4 — Lab Sample ID: 720-91047-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	140	B	3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	390		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	1.9		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	76		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	350		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	1700		1.8	0.39	mg/Kg	4		6010B	Total/NA
Nickel	34		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	3.7	0.55	mg/Kg	4		6010B	Total/NA
Silver	1.4		0.92	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	810		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.57		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL11S-0.5-1 — Lab Sample ID: 720-91047-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	4.4	B	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	49		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	33		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	6.1		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	17		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	36		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	27		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	61		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.046		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL11S-3.5-4 — Lab Sample ID: 720-91047-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9	J B	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	1.3	J B	4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	18		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.50	0.049	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL11S-3.5-4 (Continued) — Lab Sample ID: 720-91047-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	7.8		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	83		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	3.1		2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	5.0		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.85	J	4.0	0.59	mg/Kg	4		6010B	Total/NA
Vanadium	93		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	54		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.059		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN11S-0.5-1 — Lab Sample ID: 720-91047-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J B	2.0	0.33	mg/Kg	4		6010B	Total/NA
Barium	8.9		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	8.7		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	99		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	2.5		2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.32	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	5.2		2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	97		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	49		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.060		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN11S-3.5-4 — Lab Sample ID: 720-91047-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.6	J B	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	0.58	J B	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	42		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.069	J	0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	8.1		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	93		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	7.9		2.0	0.41	mg/Kg	4		6010B	Total/NA
Nickel	4.0		2.0	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	97		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	43		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP10S-0.5-1 — Lab Sample ID: 720-91047-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.81	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	0.26	J	2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	22		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	10		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	78		4.3	2.0	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP10S-0.5-1 (Continued) Lab Sample ID: 720-91047-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	4.8		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Thallium	0.81	J	1.4	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	90		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	71		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.067		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP10S-3.5-4 Lab Sample ID: 720-91047-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.1		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	17		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	410		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	52		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	580		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	1200	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	95		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	3.1		3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	2.0	B	0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	720		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X12S-0.5-1 Lab Sample ID: 720-91047-1

Date Collected: 01/28/19 08:10 **Matrix: Solid**
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.99	J	2.0	0.33	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Arsenic	6.6	B	4.0	0.34	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Barium	80	B	2.0	0.28	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Beryllium	ND		0.40	0.13	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Cadmium	0.67		0.50	0.049	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Chromium	55		2.0	0.21	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Cobalt	9.0		0.79	0.079	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Copper	160		5.9	2.8	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Lead	270		2.0	0.42	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Molybdenum	2.6		2.0	0.25	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Nickel	32		2.0	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Selenium	1.7	J B	4.0	0.59	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Silver	ND		0.99	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Thallium	ND		2.0	0.57	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Vanadium	67		2.0	0.27	mg/Kg		01/31/19 08:42	02/01/19 22:07	4
Zinc	170		5.9	2.5	mg/Kg		01/31/19 08:42	02/01/19 22:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.015	0.0022	mg/Kg		02/06/19 10:50	02/06/19 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-X12S-3.5-4
Lab Sample ID: 720-91047-2
Date Collected: 01/28/19 08:10
Matrix: Solid
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	15		1.9	0.32	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Arsenic	15	B	3.8	0.33	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Barium	1900	B	1.9	0.27	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Beryllium	0.49		0.38	0.13	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Cadmium	3.4		0.48	0.048	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Chromium	65		1.9	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Cobalt	6.8		0.77	0.077	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Copper	800		5.8	2.7	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Lead	4700		1.9	0.40	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Molybdenum	0.52	J	1.9	0.25	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Nickel	44		1.9	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Selenium	ND		3.8	0.58	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Silver	6.6		0.96	0.19	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Thallium	ND		1.9	0.56	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Vanadium	36		1.9	0.26	mg/Kg		01/31/19 08:42	02/01/19 22:12	4
Zinc	2600		5.8	2.4	mg/Kg		01/31/19 08:42	02/01/19 22:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.79		0.016	0.0023	mg/Kg		02/06/19 10:50	02/06/19 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33.4		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-W12S-0.5-1
Lab Sample ID: 720-91047-3
Date Collected: 01/28/19 08:20
Matrix: Solid
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9	J	2.0	0.33	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Arsenic	2.3	J B	4.0	0.34	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Barium	33	B	2.0	0.28	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Beryllium	ND		0.40	0.13	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Cadmium	0.12	J	0.50	0.050	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Chromium	23		2.0	0.21	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Cobalt	6.3		0.80	0.080	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Copper	94		6.0	2.8	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Lead	87		2.0	0.42	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Molybdenum	ND		2.0	0.26	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Nickel	12		2.0	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Selenium	ND		4.0	0.60	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Silver	ND		1.0	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Thallium	ND		2.0	0.58	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Vanadium	58		2.0	0.27	mg/Kg		01/31/19 08:42	02/01/19 22:17	4
Zinc	38		6.0	2.5	mg/Kg		01/31/19 08:42	02/01/19 22:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.014	0.0021	mg/Kg		02/11/19 10:15	02/11/19 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.05	%			01/30/19 11:28	1

Client Sample ID: DG-W12S-3.5-4 Lab Sample ID: 720-91047-4

Date Collected: 01/28/19 08:20 **Matrix: Solid**
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.29	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Arsenic	**7.5**	**B**	3.5	0.30	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Barium	**600**	**B**	1.7	0.25	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Beryllium	**0.71**		0.35	0.11	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Cadmium	**0.14**	**J**	0.43	0.043	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Chromium	**17**		1.7	0.18	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Cobalt	**19**		0.70	0.070	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Copper	**20**		5.2	2.5	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Lead	**19**		1.7	0.37	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Nickel	**38**		1.7	0.18	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Selenium	**1.2**	**J B**	3.5	0.52	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Silver	ND		0.87	0.18	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Thallium	ND		1.7	0.50	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Vanadium	**27**		1.7	0.24	mg/Kg		01/31/19 08:42	02/01/19 22:21	4
Zinc	**63**		5.2	2.2	mg/Kg		01/31/19 08:42	02/01/19 22:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.015	0.0022	mg/Kg		02/11/19 10:15	02/11/19 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.8**		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-V12S-0.5-1

Date Collected: 01/28/19 08:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.8	0.30	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Arsenic	1.5	J B	3.6	0.30	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Barium	30	B	1.8	0.25	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Beryllium	ND		0.36	0.12	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Cadmium	0.15	J	0.45	0.044	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Chromium	10		1.8	0.19	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Cobalt	11		0.71	0.071	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Copper	110		5.4	2.5	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Lead	63		1.8	0.38	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Nickel	10		1.8	0.18	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Selenium	2.2	J B	3.6	0.54	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Silver	ND		0.89	0.18	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Thallium	ND		1.8	0.52	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Vanadium	72		1.8	0.24	mg/Kg		01/31/19 08:42	02/01/19 22:26	4
Zinc	55		5.4	2.3	mg/Kg		01/31/19 08:42	02/01/19 22:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		0.016	0.0023	mg/Kg		02/11/19 10:15	02/11/19 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.6		0.1	0.05	%			01/30/19 11:28	1

Client Sample ID: DG-V12S-3.5-4 Lab Sample ID: 720-91047-6

Date Collected: 01/28/19 08:50 **Matrix: Solid**
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.30	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Arsenic	**5.2**	**B**	3.6	0.31	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Barium	**70**	**B**	1.8	0.26	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Beryllium	**0.33**	**J**	0.36	0.12	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Cadmium	**0.12**	**J**	0.45	0.045	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Chromium	**54**		1.8	0.19	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Cobalt	**15**		0.73	0.073	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Copper	**30**		5.5	2.6	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Lead	**7.4**		1.8	0.38	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Nickel	**33**		1.8	0.19	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Selenium	**1.1**	**J B**	3.6	0.55	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Silver	ND		0.91	0.18	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Thallium	ND		1.8	0.53	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Vanadium	**52**		1.8	0.25	mg/Kg		01/31/19 08:42	02/01/19 22:31	4
Zinc	**47**		5.5	2.3	mg/Kg		01/31/19 08:42	02/01/19 22:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.015	0.0022	mg/Kg		02/11/19 10:15	02/11/19 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.3**		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-U12S-0.5-1

Date Collected: 01/28/19 09:05
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.6	0.26	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Arsenic	3.3	B	3.1	0.27	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Barium	31	B	1.6	0.22	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Beryllium	ND		0.31	0.10	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Cadmium	0.26	J	0.39	0.039	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Chromium	10		1.6	0.17	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Cobalt	8.2		0.63	0.063	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Copper	110		4.7	2.2	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Lead	110		1.6	0.33	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Nickel	10		1.6	0.16	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Selenium	0.72	J B	3.1	0.47	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Silver	ND		0.79	0.16	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Thallium	ND		1.6	0.46	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Vanadium	76		1.6	0.21	mg/Kg		01/31/19 08:42	02/01/19 22:36	4
Zinc	80		4.7	2.0	mg/Kg		01/31/19 08:42	02/01/19 22:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.093		0.015	0.0022	mg/Kg		02/11/19 10:15	02/11/19 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.9		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-U12S-3.5-4

Date Collected: 01/28/19 09:05
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.4		4.0	0.66	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Arsenic	59	B	7.9	0.67	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Barium	44	B	1.6	0.23	mg/Kg		01/31/19 08:42	02/01/19 22:40	4
Beryllium	1.3		0.32	0.10	mg/Kg		01/31/19 08:42	02/01/19 22:40	4
Cadmium	3.4		0.99	0.098	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Chromium	73		4.0	0.42	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Cobalt	19		1.6	0.16	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Copper	110		12	5.7	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Lead	1700	^	4.0	0.83	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Molybdenum	1.2	J	1.6	0.20	mg/Kg		01/31/19 08:42	02/01/19 22:40	4
Nickel	58		4.0	0.40	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Selenium	3.7	J B	7.9	1.2	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Silver	ND		2.0	0.40	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Thallium	ND		4.0	1.2	mg/Kg		01/31/19 08:42	03/13/19 02:44	10
Vanadium	31		4.0	0.54	mg/Kg		01/31/19 08:42	02/04/19 13:28	10
Zinc	790		12	5.0	mg/Kg		01/31/19 08:42	02/04/19 13:28	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.3		0.15	0.022	mg/Kg		02/11/19 10:15	02/11/19 15:01	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.6		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R12S-0.5-1

Date Collected: 01/28/19 09:25
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.5		1.6	0.27	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Arsenic	6.7	B	3.3	0.28	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Barium	78	B	1.6	0.23	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Beryllium	0.11	J	0.33	0.11	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Cadmium	1.2		0.41	0.040	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Chromium	37		1.6	0.17	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Cobalt	11		0.65	0.065	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Copper	630		4.9	2.3	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Lead	1200		1.6	0.34	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Molybdenum	0.86	J	1.6	0.21	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Nickel	30		1.6	0.17	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Selenium	1.6	J B	3.3	0.49	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Silver	0.21	J	0.81	0.16	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Thallium	ND		1.6	0.47	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Vanadium	62		1.6	0.22	mg/Kg		01/31/19 08:42	02/01/19 22:45	4
Zinc	450		4.9	2.1	mg/Kg		01/31/19 08:42	02/01/19 22:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.016	0.0023	mg/Kg		02/11/19 10:15	02/11/19 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R12S-3.5-4

Date Collected: 01/28/19 09:25
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.7	0.27	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Arsenic	2.2	J B	3.3	0.28	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Barium	200	B	1.7	0.23	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Beryllium	0.26	J	0.33	0.11	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Cadmium	0.29	J	0.41	0.041	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Chromium	60		1.7	0.18	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Cobalt	21		0.66	0.066	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Copper	32		5.0	2.4	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Lead	9.7		1.7	0.35	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Molybdenum	ND		1.7	0.21	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Nickel	36		1.7	0.17	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Selenium	0.91	J B	3.3	0.50	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Silver	ND		0.83	0.17	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Thallium	ND		1.7	0.48	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Vanadium	120		1.7	0.22	mg/Kg		01/31/19 08:42	02/01/19 23:00	4
Zinc	70		5.0	2.1	mg/Kg		01/31/19 08:42	02/01/19 23:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.015	0.0021	mg/Kg		02/11/19 10:15	02/11/19 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.05	%			01/30/19 11:28	1

Client Sample ID: DUP-98
Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-11
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Arsenic	**3.9**	**B**	3.1	0.27	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Barium	**120**	**B**	1.6	0.22	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Beryllium	**0.16**	**J**	0.31	0.10	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Cadmium	**0.31**	**J**	0.39	0.039	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Chromium	**59**		1.6	0.17	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Cobalt	**18**		0.63	0.063	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Copper	**54**		4.7	2.2	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Lead	**56**		1.6	0.33	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Nickel	**68**		1.6	0.16	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Selenium	ND		3.1	0.47	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Silver	ND		0.79	0.16	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Thallium	ND		1.6	0.46	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Vanadium	**65**		1.6	0.21	mg/Kg		01/31/19 08:42	02/01/19 23:04	4
Zinc	**60**		12	5.0	mg/Kg		01/31/19 08:42	02/04/19 13:33	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.077**		0.016	0.0024	mg/Kg		02/11/19 10:15	02/11/19 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DUP-82

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12	B	1.8	0.30	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Arsenic	13		3.7	0.31	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Barium	74		1.8	0.26	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Beryllium	1.0		0.37	0.12	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Cadmium	3.7	B	0.46	0.046	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Chromium	210		1.8	0.19	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Cobalt	15		0.73	0.073	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Copper	68		5.5	2.6	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Lead	20000		9.2	1.9	mg/Kg		01/30/19 08:29	01/31/19 13:41	20
Molybdenum	1.1	J	1.8	0.23	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Nickel	48		1.8	0.19	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Selenium	2.8	J	3.7	0.55	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Silver	ND		0.92	0.19	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Thallium	ND		1.8	0.53	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Vanadium	39		1.8	0.25	mg/Kg		01/30/19 08:29	01/30/19 18:40	4
Zinc	990		28	12	mg/Kg		01/30/19 08:29	01/31/19 13:41	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.9		0.14	0.021	mg/Kg		02/11/19 10:15	02/11/19 15:06	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.7		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R14S-0.5-1

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.32	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Arsenic	**2.0**	**J**	3.9	0.33	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Barium	**80**		1.9	0.28	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Beryllium	**0.19**	**J**	0.39	0.13	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Cadmium	**0.24**	**J B**	0.49	0.048	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Chromium	**53**		1.9	0.21	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Cobalt	**10**		0.78	0.078	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Copper	**89**		5.8	2.8	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Lead	**59**		1.9	0.41	mg/Kg		01/30/19 08:29	01/31/19 13:46	4
Molybdenum	ND		1.9	0.25	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Nickel	**69**		1.9	0.20	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Selenium	ND		3.9	0.58	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Silver	ND		0.97	0.20	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Thallium	ND		1.9	0.56	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Vanadium	**30**		1.9	0.26	mg/Kg		01/30/19 08:29	01/30/19 18:44	4
Zinc	**50**		5.8	2.5	mg/Kg		01/30/19 08:29	01/30/19 18:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.014	0.0021	mg/Kg		02/11/19 10:15	02/11/19 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.0**		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R14S-3.5-4
Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-14
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	1.7	0.29	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Arsenic	**1.4**	**J**	3.5	0.30	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Barium	**74**		1.7	0.25	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Beryllium	**0.15**	**J**	0.35	0.11	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Cadmium	**0.29**	**J B**	0.43	0.043	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Chromium	**50**		1.7	0.18	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Cobalt	**8.3**		0.70	0.070	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Copper	**38**		5.2	2.5	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Lead	**44**	**^**	1.7	0.37	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Nickel	**62**		1.7	0.18	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Selenium	ND		3.5	0.52	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Silver	ND		0.87	0.18	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Thallium	**1.2**	**J**	1.7	0.50	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Vanadium	**22**		1.7	0.24	mg/Kg		01/30/19 08:29	01/30/19 18:35	4
Zinc	**53**		5.2	2.2	mg/Kg		01/30/19 08:29	01/30/19 18:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**	**F1 F2**	0.014	0.0021	mg/Kg		02/11/19 10:15	02/11/19 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.0**		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R16S-0.5-1

Date Collected: 01/28/19 10:15
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.6	B	1.9	0.32	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Arsenic	17		3.8	0.32	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Barium	73		1.9	0.27	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Beryllium	0.19	J	0.38	0.12	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Cadmium	0.78	B	0.48	0.047	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Chromium	26		1.9	0.20	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Cobalt	13		0.76	0.076	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Copper	450		5.7	2.7	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Lead	520	^	1.9	0.40	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Molybdenum	0.31	J	1.9	0.24	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Nickel	38		1.9	0.19	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Selenium	ND		3.8	0.57	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Silver	ND		0.95	0.19	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Thallium	1.7	J	1.9	0.55	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Vanadium	85		1.9	0.26	mg/Kg		01/30/19 08:29	01/30/19 18:49	4
Zinc	190		5.7	2.4	mg/Kg		01/30/19 08:29	01/30/19 18:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.1		0.062	0.0091	mg/Kg		02/11/19 10:15	02/11/19 15:11	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.1		0.1	0.05	%			01/30/19 11:28	1

Client Sample ID: DG-R16S-3.5-4 Lab Sample ID: 720-91047-16

Date Collected: 01/28/19 10:15 **Matrix: Solid**
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J B	1.9	0.31	mg/Kg		01/30/19 08:29	01/31/19 13:50	4
Arsenic	56		3.7	0.31	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Barium	86		1.9	0.26	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Beryllium	0.47		0.37	0.12	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Cadmium	0.21	J B	0.46	0.046	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Chromium	140		1.9	0.20	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Cobalt	16		0.74	0.074	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Copper	42		5.6	2.6	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Lead	40	^	1.9	0.39	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Nickel	170		1.9	0.19	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Selenium	0.67	J	3.7	0.56	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Silver	ND		0.93	0.19	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Thallium	ND		1.9	0.54	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Vanadium	54		1.9	0.25	mg/Kg		01/30/19 08:29	01/30/19 18:54	4
Zinc	55		5.6	2.4	mg/Kg		01/30/19 08:29	01/30/19 18:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.3		0.16	0.024	mg/Kg		02/11/19 10:15	02/11/19 15:13	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.9		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R16S-19.5-20

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.97	J B	1.6	0.27	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Arsenic	0.98	J	3.3	0.28	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Barium	74		1.6	0.23	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Beryllium	0.15	J	0.33	0.11	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Cadmium	0.13	J B	0.41	0.040	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Chromium	52		1.6	0.17	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Cobalt	8.6		0.65	0.065	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Copper	9.9		4.9	2.3	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Lead	3.5		1.6	0.34	mg/Kg		01/30/19 08:29	01/31/19 13:55	4
Molybdenum	ND		1.6	0.21	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Nickel	32		1.6	0.17	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Selenium	ND		3.3	0.49	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Silver	ND		0.81	0.16	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Thallium	0.78	J	1.6	0.47	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Vanadium	46		1.6	0.22	mg/Kg		01/30/19 08:29	01/30/19 19:08	4
Zinc	23		4.9	2.1	mg/Kg		01/30/19 08:29	01/30/19 19:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.015	0.0022	mg/Kg		02/11/19 10:15	02/11/19 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.0		0.1	0.05	%			01/30/19 11:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-X11S-0.5-1

Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.0	B F1	1.6	0.26	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Arsenic	11	B	3.2	0.27	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Barium	26	F2	1.6	0.23	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Beryllium	ND		0.32	0.10	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Cadmium	0.11	J	0.40	0.039	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Chromium	12		1.6	0.17	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Cobalt	7.7		0.63	0.063	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Copper	130	F1	4.8	2.3	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Lead	130	F1 F2	1.6	0.33	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Nickel	20		1.6	0.16	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Selenium	ND		3.2	0.48	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Silver	ND		0.79	0.16	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Thallium	ND		1.6	0.46	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Vanadium	52	F1	1.6	0.22	mg/Kg		01/29/19 15:38	01/30/19 15:51	4
Zinc	37	F2	4.8	2.0	mg/Kg		01/29/19 15:38	01/30/19 15:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.015	0.0022	mg/Kg		02/11/19 10:15	02/11/19 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-X11S-3.5-4
Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-21
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J B	1.8	0.30	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Arsenic	11	B	3.6	0.30	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Barium	39		1.8	0.25	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Beryllium	0.16	J	0.36	0.12	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Cadmium	0.12	J	0.45	0.044	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Chromium	53		1.8	0.19	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Cobalt	6.4		0.71	0.071	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Copper	6.7		5.4	2.5	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Lead	2.6		1.8	0.38	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Nickel	39		1.8	0.18	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Selenium	ND		3.6	0.54	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Silver	ND		0.89	0.18	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Thallium	ND		1.8	0.52	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Vanadium	42		1.8	0.24	mg/Kg		01/29/19 15:38	01/30/19 13:45	4
Zinc	21		5.4	2.3	mg/Kg		01/29/19 15:38	01/30/19 13:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.015	0.0021	mg/Kg		02/11/19 10:15	02/11/19 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.7		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Z11S-0.5-1
Lab Sample ID: 720-91047-22
Date Collected: 01/28/19 11:40
Matrix: Solid
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3	B	1.7	0.29	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Arsenic	18	B	3.5	0.30	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Barium	41		1.7	0.25	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Beryllium	ND		0.35	0.11	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Cadmium	0.56		0.43	0.043	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Chromium	23		1.7	0.18	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Cobalt	6.2		0.70	0.070	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Copper	100		5.2	2.5	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Lead	170		1.7	0.37	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Molybdenum	1.9		1.7	0.22	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Nickel	16		1.7	0.18	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Selenium	ND		3.5	0.52	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Silver	ND		0.87	0.18	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Thallium	ND		1.7	0.50	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Vanadium	44		1.7	0.24	mg/Kg		01/29/19 15:38	01/30/19 13:50	4
Zinc	88		5.2	2.2	mg/Kg		01/29/19 15:38	01/30/19 13:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		02/11/19 10:15	02/11/19 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-Z11S-3.5-4

Date Collected: 01/28/19 11:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.5	B	1.8	0.30	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Arsenic	76	B	3.6	0.31	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Barium	120		1.8	0.26	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Beryllium	ND		0.36	0.12	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Cadmium	0.36	J	0.45	0.045	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Chromium	18		1.8	0.19	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Cobalt	9.0		0.72	0.072	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Copper	140		5.4	2.6	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Lead	360		1.8	0.38	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Nickel	28		1.8	0.18	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Selenium	ND		3.6	0.54	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Silver	ND		0.90	0.18	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Thallium	ND		1.8	0.52	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Vanadium	65		1.8	0.25	mg/Kg		01/29/19 15:38	01/30/19 13:54	4
Zinc	210		5.4	2.3	mg/Kg		01/29/19 15:38	01/30/19 13:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.015	0.0022	mg/Kg		01/29/19 11:04	02/11/19 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.2		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AB11S-0.5-1

Date Collected: 01/28/19 11:55
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.92	J B	1.5	0.25	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Arsenic	2.8	J B	3.0	0.25	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Barium	24		1.5	0.21	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Beryllium	ND		0.30	0.096	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Cadmium	0.37		0.37	0.037	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Chromium	16		1.5	0.16	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Cobalt	13		0.59	0.059	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Copper	89		4.4	2.1	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Lead	65		1.5	0.31	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Molybdenum	2.0		1.5	0.19	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Nickel	11		1.5	0.15	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Selenium	ND		3.0	0.44	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Silver	ND		0.74	0.15	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Thallium	ND		1.5	0.43	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Vanadium	87		1.5	0.20	mg/Kg		01/29/19 15:38	01/30/19 13:59	4
Zinc	73		4.4	1.9	mg/Kg		01/29/19 15:38	01/30/19 13:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.097		0.016	0.0024	mg/Kg		01/29/19 11:04	02/11/19 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AB11S-3.5-4

Date Collected: 01/28/19 11:55
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-25

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.1	B	1.6	0.27	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Arsenic	9.1	B	3.3	0.28	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Barium	74		1.6	0.23	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Beryllium	ND		0.33	0.11	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Cadmium	0.83		0.41	0.040	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Chromium	21		1.6	0.17	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Cobalt	11		0.65	0.065	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Copper	160		4.9	2.3	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Lead	590		1.6	0.34	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Molybdenum	0.47	J	1.6	0.21	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Nickel	18		1.6	0.17	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Selenium	ND		3.3	0.49	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Silver	ND		0.81	0.16	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Thallium	ND		1.6	0.47	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Vanadium	84		1.6	0.22	mg/Kg		01/29/19 15:38	01/30/19 14:04	4
Zinc	200		4.9	2.1	mg/Kg		01/29/19 15:38	01/30/19 14:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.53		0.016	0.0024	mg/Kg		01/29/19 11:04	02/11/19 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.1		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AF11S-0.5-1

Date Collected: 01/28/19 13:15
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J B	1.7	0.29	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Arsenic	5.1	B	3.4	0.29	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Barium	31		1.7	0.24	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Beryllium	ND		0.34	0.11	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Cadmium	0.15	J	0.43	0.043	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Chromium	31		1.7	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Cobalt	5.7		0.69	0.069	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Copper	15		5.2	2.5	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Lead	26		1.7	0.36	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Nickel	25		1.7	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Selenium	ND		3.4	0.52	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Silver	ND		0.86	0.17	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Thallium	ND		1.7	0.50	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Vanadium	31		1.7	0.23	mg/Kg		01/29/19 15:38	01/30/19 14:08	4
Zinc	36		5.2	2.2	mg/Kg		01/29/19 15:38	01/30/19 14:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.014	0.0021	mg/Kg		01/29/19 11:04	02/11/19 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.1		0.1	0.05	%			01/30/19 12:02	1

Client Sample ID: DG-AF11S-3.5-4 Lab Sample ID: 720-91047-27

Date Collected: 01/28/19 13:15 **Matrix: Solid**
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.4	B	1.7	0.28	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Arsenic	8.2	B	3.4	0.29	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Barium	42		1.7	0.24	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Beryllium	ND		0.34	0.11	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Cadmium	0.39	J	0.42	0.042	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Chromium	17		1.7	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Cobalt	8.7		0.68	0.068	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Copper	130		5.1	2.4	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Lead	190		1.7	0.36	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Molybdenum	0.62	J	1.7	0.22	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Nickel	23		1.7	0.17	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Selenium	1.3	J	3.4	0.51	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Silver	ND		0.85	0.17	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Thallium	ND		1.7	0.49	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Vanadium	57		1.7	0.23	mg/Kg		01/29/19 15:38	01/30/19 14:13	4
Zinc	77		5.1	2.2	mg/Kg		01/29/19 15:38	01/30/19 14:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.51		0.016	0.0023	mg/Kg		01/29/19 11:04	02/11/19 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AH11S-0.5-1

Lab Sample ID: 720-91047-28

Date Collected: 01/28/19 13:40

Matrix: Solid

Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J B	1.7	0.28	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Arsenic	6.9	B	3.4	0.29	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Barium	46		1.7	0.24	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Beryllium	ND		0.34	0.11	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Cadmium	0.40	J	0.42	0.042	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Chromium	27		1.7	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Cobalt	5.8		0.67	0.067	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Copper	48		5.0	2.4	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Lead	130		1.7	0.35	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Molybdenum	0.36	J	1.7	0.22	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Nickel	20		1.7	0.17	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Selenium	ND		3.4	0.50	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Silver	0.36	J	0.84	0.17	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Thallium	ND		1.7	0.49	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Vanadium	34		1.7	0.23	mg/Kg		01/29/19 15:38	01/30/19 14:18	4
Zinc	81		5.0	2.1	mg/Kg		01/29/19 15:38	01/30/19 14:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.017	0.0025	mg/Kg		01/29/19 11:04	02/11/19 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.2		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AH11S-3.5-4

Date Collected: 01/28/19 13:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.87	J B	1.7	0.29	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Arsenic	8.2	B	3.5	0.30	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Barium	30		1.7	0.25	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Beryllium	ND		0.35	0.11	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Cadmium	0.44		0.43	0.043	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Chromium	16		1.7	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Cobalt	6.6		0.70	0.070	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Copper	100		5.2	2.5	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Lead	140		1.7	0.37	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Molybdenum	0.49	J	1.7	0.22	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Nickel	14		1.7	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Selenium	ND		3.5	0.52	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Silver	ND		0.87	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Thallium	ND		1.7	0.50	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Vanadium	44		1.7	0.24	mg/Kg		01/29/19 15:38	01/30/19 14:23	4
Zinc	86		5.2	2.2	mg/Kg		01/29/19 15:38	01/30/19 14:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.016	0.0024	mg/Kg		01/29/19 11:04	02/11/19 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.5		0.1	0.05	%			01/30/19 12:02	1

Client Sample ID: DG-AJ11S-0.5-1 Lab Sample ID: 720-91047-30

Date Collected: 01/28/19 14:00 **Matrix: Solid**
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	1.8	0.29	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Arsenic	4.3	B	3.5	0.30	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Barium	36		1.8	0.25	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Beryllium	ND		0.35	0.12	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Cadmium	0.21	J	0.44	0.044	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Chromium	31		1.8	0.19	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Cobalt	6.2		0.71	0.071	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Copper	14		5.3	2.5	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Lead	27		1.8	0.37	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Nickel	27		1.8	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Selenium	0.94	J	3.5	0.53	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Silver	ND		0.88	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Thallium	ND		1.8	0.51	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Vanadium	33		1.8	0.24	mg/Kg		01/29/19 15:38	01/30/19 14:27	4
Zinc	52		5.3	2.2	mg/Kg		01/29/19 15:38	01/30/19 14:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.015	0.0022	mg/Kg		01/29/19 11:04	02/11/19 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AJ11S-3.5-4

Date Collected: 01/28/19 14:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19	B	1.8	0.30	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Arsenic	140	B	3.7	0.31	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Barium	390		1.8	0.26	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Beryllium	ND		0.37	0.12	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Cadmium	1.9		0.46	0.046	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Chromium	76		1.8	0.19	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Cobalt	12		0.73	0.073	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Copper	350		5.5	2.6	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Lead	1700		1.8	0.39	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Nickel	34		1.8	0.19	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Selenium	1.0	J	3.7	0.55	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Silver	1.4		0.92	0.19	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Thallium	ND		1.8	0.53	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Vanadium	54		1.8	0.25	mg/Kg		01/29/19 15:38	01/30/19 14:42	4
Zinc	810		5.5	2.3	mg/Kg		01/29/19 15:38	01/30/19 14:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.57		0.017	0.0025	mg/Kg		01/29/19 11:04	02/11/19 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.3		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AL11S-0.5-1
Lab Sample ID: 720-91047-32
Date Collected: 01/28/19 14:30
Matrix: Solid
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J B	1.8	0.30	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Arsenic	4.4	B	3.6	0.31	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Barium	49		1.8	0.26	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Beryllium	ND		0.36	0.12	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Cadmium	0.23	J	0.45	0.045	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Chromium	33		1.8	0.19	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Cobalt	6.1		0.72	0.072	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Copper	17		5.4	2.6	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Lead	36		1.8	0.38	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Nickel	27		1.8	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Selenium	ND		3.6	0.54	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Silver	ND		0.90	0.18	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Thallium	ND		1.8	0.52	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Vanadium	31		1.8	0.25	mg/Kg		01/29/19 15:38	01/30/19 14:46	4
Zinc	61		5.4	2.3	mg/Kg		01/29/19 15:38	01/30/19 14:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.016	0.0024	mg/Kg		01/29/19 11:04	02/11/19 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		0.1	0.05	%			01/30/19 12:02	1

Client Sample ID: DG-AL11S-3.5-4 Lab Sample ID: 720-91047-33

Date Collected: 01/28/19 14:30 **Matrix: Solid**
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9	J B	2.0	0.33	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Arsenic	1.3	J B	4.0	0.34	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Barium	18		2.0	0.28	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Beryllium	ND		0.40	0.13	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Cadmium	0.18	J	0.50	0.049	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Chromium	7.8		2.0	0.21	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Cobalt	14		0.79	0.079	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Copper	83		5.9	2.8	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Lead	3.1		2.0	0.42	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Molybdenum	ND		2.0	0.25	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Nickel	5.0		2.0	0.20	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Selenium	0.85	J	4.0	0.59	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Silver	ND		0.99	0.20	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Thallium	ND		2.0	0.57	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Vanadium	93		2.0	0.27	mg/Kg		01/29/19 15:38	01/30/19 14:51	4
Zinc	54		5.9	2.5	mg/Kg		01/29/19 15:38	01/30/19 14:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.015	0.0022	mg/Kg		01/29/19 11:04	02/11/19 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AN11S-0.5-1
Lab Sample ID: 720-91047-34
Date Collected: 01/28/19 14:50
Matrix: Solid
Date Received: 01/28/19 18:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	2.0	0.33	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Arsenic	ND		4.0	0.34	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Barium	8.9		2.0	0.28	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Beryllium	ND		0.40	0.13	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Cadmium	0.15	J	0.50	0.049	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Chromium	8.7		2.0	0.21	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Cobalt	15		0.79	0.079	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Copper	99		5.9	2.8	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Lead	2.5		2.0	0.42	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Molybdenum	0.32	J	2.0	0.25	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Nickel	5.2		2.0	0.20	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Selenium	ND		4.0	0.59	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Silver	ND		0.99	0.20	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Thallium	ND		2.0	0.57	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Vanadium	97		2.0	0.27	mg/Kg		01/29/19 15:38	01/30/19 14:56	4
Zinc	49		5.9	2.5	mg/Kg		01/29/19 15:38	01/30/19 14:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.015	0.0022	mg/Kg		01/29/19 11:04	02/11/19 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AN11S-3.5-4
Date Collected: 01/28/19 14:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-35
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J B	2.0	0.33	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Arsenic	0.58	J B	3.9	0.33	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Barium	42		2.0	0.28	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Beryllium	ND		0.39	0.13	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Cadmium	0.069	J	0.49	0.049	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Chromium	8.1		2.0	0.21	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Cobalt	11		0.78	0.078	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Copper	93		5.9	2.8	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Lead	7.9		2.0	0.41	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Molybdenum	ND		2.0	0.25	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Nickel	4.0		2.0	0.20	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Selenium	ND		3.9	0.59	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Silver	ND		0.98	0.20	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Thallium	ND		2.0	0.57	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Vanadium	97		2.0	0.27	mg/Kg		01/29/19 15:38	01/30/19 15:01	4
Zinc	43		5.9	2.5	mg/Kg		01/29/19 15:38	01/30/19 15:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0023	mg/Kg		01/29/19 11:04	02/11/19 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AP10S-0.5-1

Date Collected: 01/28/19 15:15
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.81	J	1.4	0.24	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Arsenic	0.26	J	2.9	0.24	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Barium	22		1.4	0.20	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Beryllium	ND		0.29	0.093	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Cadmium	0.20	J	0.36	0.035	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Chromium	10		1.4	0.15	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Cobalt	13		0.57	0.057	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Copper	78		4.3	2.0	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Lead	13	B	1.4	0.30	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Molybdenum	1.1	J	1.4	0.18	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Nickel	4.8		1.4	0.15	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Selenium	1.1	J	2.9	0.43	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Silver	ND		0.71	0.14	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Thallium	0.81	J	1.4	0.41	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Vanadium	90		1.4	0.19	mg/Kg		01/29/19 17:33	02/07/19 21:56	4
Zinc	71		4.3	1.8	mg/Kg		01/29/19 17:33	02/07/19 21:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.016	0.0024	mg/Kg		01/29/19 11:04	02/11/19 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.1	0.05	%			01/30/19 12:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AP10S-3.5-4

Date Collected: 01/28/19 15:15
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91047-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.1		1.5	0.25	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Arsenic	17		3.0	0.26	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Barium	410		1.5	0.21	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Beryllium	0.17	J	0.30	0.098	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Cadmium	1.5		0.38	0.037	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Chromium	52		1.5	0.16	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Cobalt	9.0		0.60	0.060	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Copper	580		4.5	2.1	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Lead	1200	B	1.5	0.32	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Molybdenum	ND		1.5	0.19	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Nickel	95		1.5	0.15	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Selenium	3.1		3.0	0.45	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Silver	2.0	B	0.75	0.15	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Thallium	ND		1.5	0.44	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Vanadium	34		1.5	0.20	mg/Kg		01/29/19 17:33	02/07/19 22:00	4
Zinc	720		4.5	1.9	mg/Kg		01/29/19 17:33	02/07/19 22:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.015	0.0022	mg/Kg		01/29/19 11:04	02/11/19 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.3		0.1	0.05	%			01/30/19 12:02	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259393/1-A
Matrix: Solid
Analysis Batch: 259703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Arsenic	0.0963	J	1.0	0.085	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Barium	0.0882	J	0.50	0.071	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Beryllium	ND		0.10	0.033	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Cadmium	ND		0.13	0.012	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Chromium	ND		0.50	0.053	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Cobalt	ND		0.20	0.020	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Copper	ND		1.5	0.71	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Lead	ND		0.50	0.11	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Nickel	ND		0.50	0.051	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Selenium	0.307	J	1.0	0.15	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Silver	ND		0.25	0.051	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Thallium	ND		0.50	0.15	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Vanadium	ND		0.50	0.068	mg/Kg		01/31/19 08:42	02/01/19 20:37	1
Zinc	ND		1.5	0.64	mg/Kg		01/31/19 08:42	02/01/19 20:37	1

Lab Sample ID: LCS 720-259393/2-A
Matrix: Solid
Analysis Batch: 259703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	53.7		mg/Kg		107	80 - 120
Arsenic	50.0	54.6		mg/Kg		109	80 - 120
Barium	50.0	55.1		mg/Kg		110	80 - 120
Beryllium	50.0	54.9		mg/Kg		110	80 - 120
Cadmium	50.0	54.8		mg/Kg		110	80 - 120
Chromium	50.0	55.5		mg/Kg		111	80 - 120
Cobalt	50.0	56.1		mg/Kg		112	80 - 120
Copper	50.0	55.4		mg/Kg		111	80 - 120
Lead	50.0	55.7		mg/Kg		111	80 - 120
Molybdenum	50.0	56.1		mg/Kg		112	80 - 120
Nickel	50.0	55.6		mg/Kg		111	80 - 120
Selenium	50.0	53.1		mg/Kg		106	80 - 120
Silver	25.0	25.9		mg/Kg		103	80 - 120
Thallium	50.0	55.7		mg/Kg		111	80 - 120
Vanadium	50.0	54.5		mg/Kg		109	80 - 120
Zinc	50.0	54.8		mg/Kg		110	80 - 120

Lab Sample ID: 720-91035-A-30-B MS
Matrix: Solid
Analysis Batch: 259703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	250	F2	30.5	106	4	mg/Kg		-477	75 - 125
Arsenic	38	B F1	30.5	58.1	F1	mg/Kg		65	75 - 125
Barium	170	B	30.5	213	4	mg/Kg		152	75 - 125
Beryllium	ND		30.5	32.5		mg/Kg		107	75 - 125
Cadmium	2.2		30.5	33.9		mg/Kg		104	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91035-A-30-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259703 **Prep Batch: 259393**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	55		30.5	82.2		mg/Kg		88	75 - 125
Cobalt	16		30.5	46.6		mg/Kg		99	75 - 125
Copper	4400	F2	30.5	4940	4	mg/Kg		1689	75 - 125
Lead	4200		30.5	2590	4	mg/Kg		-5364	75 - 125
Molybdenum	1.6	J	30.5	34.6		mg/Kg		108	75 - 125
Nickel	81	F1	30.5	120	F1	mg/Kg		129	75 - 125
Selenium	1.2	J B	30.5	31.1		mg/Kg		98	75 - 125
Silver	1.6		15.2	17.1		mg/Kg		102	75 - 125
Thallium	ND	L	30.5	32.0		mg/Kg		105	75 - 125
Vanadium	67		30.5	95.8		mg/Kg		96	75 - 125
Zinc	930		30.5	766	4	mg/Kg		-525	75 - 125

Lab Sample ID: 720-91035-A-30-C MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259703 **Prep Batch: 259393**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	250	F2	29.8	82.2	4 F2	mg/Kg		-569	75 - 125	25	20
Arsenic	38	B F1	29.8	59.3	F1	mg/Kg		70	75 - 125	2	20
Barium	170	B	29.8	211	4	mg/Kg		149	75 - 125	1	20
Beryllium	ND		29.8	32.4		mg/Kg		109	75 - 125	0	20
Cadmium	2.2		29.8	34.5		mg/Kg		108	75 - 125	2	20
Chromium	55		29.8	87.6		mg/Kg		109	75 - 125	6	20
Cobalt	16		29.8	48.6		mg/Kg		109	75 - 125	4	20
Copper	4400	F2	29.8	3550	4 F2	mg/Kg		-2938	75 - 125	33	20
Lead	4200		29.8	2370	4	mg/Kg		-6237	75 - 125	9	20
Molybdenum	1.6	J	29.8	34.3		mg/Kg		110	75 - 125	1	20
Nickel	81	F1	29.8	111		mg/Kg		103	75 - 125	8	20
Selenium	1.2	J B	29.8	33.4		mg/Kg		108	75 - 125	7	20
Silver	1.6		14.9	16.8		mg/Kg		102	75 - 125	2	20
Thallium	ND	L	29.8	30.6		mg/Kg		103	75 - 125	4	20
Vanadium	67		29.8	102		mg/Kg		119	75 - 125	6	20
Zinc	930		29.8	771	4	mg/Kg		-524	75 - 125	1	20

Lab Sample ID: MB 720-259404/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259532 **Prep Batch: 259404**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.104	J	0.50	0.083	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Arsenic	ND		1.0	0.085	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Barium	ND		0.50	0.071	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Beryllium	ND		0.10	0.033	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Cadmium	0.0322	J	0.13	0.012	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Chromium	ND		0.50	0.053	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Cobalt	ND		0.20	0.020	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Copper	ND		1.5	0.71	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Lead	ND		0.50	0.11	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/30/19 08:29	01/30/19 17:57	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259404/1-A
Matrix: Solid
Analysis Batch: 259532

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259404

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.50	0.051	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Selenium	ND		1.0	0.15	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Silver	ND		0.25	0.051	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Thallium	ND		0.50	0.15	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Vanadium	ND		0.50	0.068	mg/Kg		01/30/19 08:29	01/30/19 17:57	1
Zinc	ND		1.5	0.64	mg/Kg		01/30/19 08:29	01/30/19 17:57	1

Lab Sample ID: LCS 720-259404/2-A
Matrix: Solid
Analysis Batch: 259532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.7		mg/Kg		99	80 - 120
Arsenic	50.0	51.3		mg/Kg		103	80 - 120
Barium	50.0	52.2		mg/Kg		104	80 - 120
Beryllium	50.0	51.6		mg/Kg		103	80 - 120
Cadmium	50.0	54.3		mg/Kg		109	80 - 120
Chromium	50.0	52.8		mg/Kg		106	80 - 120
Cobalt	50.0	55.1		mg/Kg		110	80 - 120
Copper	50.0	52.5		mg/Kg		105	80 - 120
Lead	50.0	55.6		mg/Kg		111	80 - 120
Molybdenum	50.0	52.4		mg/Kg		105	80 - 120
Nickel	50.0	55.5		mg/Kg		111	80 - 120
Selenium	50.0	52.9		mg/Kg		106	80 - 120
Silver	25.0	25.8		mg/Kg		103	80 - 120
Thallium	50.0	53.8		mg/Kg		108	80 - 120
Vanadium	50.0	52.7		mg/Kg		105	80 - 120
Zinc	50.0	54.4		mg/Kg		109	80 - 120

Lab Sample ID: 720-91047-14 MS
Matrix: Solid
Analysis Batch: 259532

Client Sample ID: DG-R14S-3.5-4
Prep Type: Total/NA
Prep Batch: 259404

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	42.7	12.9	F1	mg/Kg		30	75 - 125
Arsenic	1.4	J	42.7	44.9		mg/Kg		102	75 - 125
Barium	74		42.7	113		mg/Kg		91	75 - 125
Beryllium	0.15	J	42.7	42.9		mg/Kg		100	75 - 125
Cadmium	0.29	J B	42.7	44.1		mg/Kg		102	75 - 125
Chromium	50		42.7	92.7		mg/Kg		99	75 - 125
Cobalt	8.3		42.7	51.4		mg/Kg		101	75 - 125
Copper	38		42.7	77.7		mg/Kg		92	75 - 125
Lead	44	^	42.7	85.8		mg/Kg		98	75 - 125
Molybdenum	ND		42.7	39.7		mg/Kg		93	75 - 125
Nickel	62		42.7	105		mg/Kg		99	75 - 125
Selenium	ND		42.7	44.2		mg/Kg		104	75 - 125
Silver	ND		21.4	21.0		mg/Kg		98	75 - 125
Thallium	1.2	J	42.7	39.5		mg/Kg		90	75 - 125
Vanadium	22		42.7	63.5		mg/Kg		97	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91047-14 MS **Client Sample ID: DG-R14S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259532 **Prep Batch: 259404**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	53		42.7	97.0		mg/Kg		102	75 - 125

Lab Sample ID: 720-91047-14 MSD **Client Sample ID: DG-R14S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259532 **Prep Batch: 259404**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	43.5	11.6	F1	mg/Kg		27	75 - 125	11	20
Arsenic	1.4	J	43.5	42.8		mg/Kg		95	75 - 125	5	20
Barium	74		43.5	110		mg/Kg		82	75 - 125	3	20
Beryllium	0.15	J	43.5	40.8		mg/Kg		93	75 - 125	5	20
Cadmium	0.29	J B	43.5	43.9		mg/Kg		100	75 - 125	0	20
Chromium	50		43.5	89.7		mg/Kg		91	75 - 125	3	20
Cobalt	8.3		43.5	51.6		mg/Kg		100	75 - 125	0	20
Copper	38		43.5	75.1		mg/Kg		84	75 - 125	3	20
Lead	44	^	43.5	87.1		mg/Kg		100	75 - 125	2	20
Molybdenum	ND		43.5	38.7		mg/Kg		89	75 - 125	3	20
Nickel	62		43.5	109		mg/Kg		108	75 - 125	4	20
Selenium	ND		43.5	44.6		mg/Kg		102	75 - 125	1	20
Silver	ND		21.7	21.1		mg/Kg		97	75 - 125	0	20
Thallium	1.2	J	43.5	39.2		mg/Kg		88	75 - 125	1	20
Vanadium	22		43.5	64.7		mg/Kg		98	75 - 125	2	20
Zinc	53		43.5	96.8		mg/Kg		100	75 - 125	0	20

Lab Sample ID: MB 720-259417/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259508 **Prep Batch: 259417**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.221	J	0.50	0.083	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Arsenic	0.0953	J	1.0	0.085	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Barium	ND		0.50	0.071	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Beryllium	ND		0.10	0.033	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Cadmium	ND		0.13	0.012	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Chromium	ND		0.50	0.053	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Cobalt	ND		0.20	0.020	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Copper	ND		1.5	0.71	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Lead	ND		0.50	0.11	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Nickel	ND		0.50	0.051	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Selenium	ND		1.0	0.15	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Silver	ND		0.25	0.051	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Thallium	ND		0.50	0.15	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Vanadium	ND		0.50	0.068	mg/Kg		01/29/19 15:38	01/30/19 15:22	1
Zinc	ND		1.5	0.64	mg/Kg		01/29/19 15:38	01/30/19 15:22	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259417/2-A
Matrix: Solid
Analysis Batch: 259509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	55.0		mg/Kg		110	80 - 120
Arsenic	50.0	55.8		mg/Kg		112	80 - 120
Barium	50.0	54.2		mg/Kg		108	80 - 120
Beryllium	50.0	55.0		mg/Kg		110	80 - 120
Cadmium	50.0	55.8		mg/Kg		112	80 - 120
Chromium	50.0	56.8		mg/Kg		114	80 - 120
Cobalt	50.0	58.0		mg/Kg		116	80 - 120
Copper	50.0	58.7		mg/Kg		117	80 - 120
Lead	50.0	56.6		mg/Kg		113	80 - 120
Molybdenum	50.0	58.1		mg/Kg		116	80 - 120
Nickel	50.0	56.5		mg/Kg		113	80 - 120
Selenium	50.0	54.0		mg/Kg		108	80 - 120
Silver	25.0	26.6		mg/Kg		106	80 - 120
Thallium	50.0	55.7		mg/Kg		111	80 - 120
Vanadium	50.0	55.7		mg/Kg		111	80 - 120
Zinc	50.0	55.5		mg/Kg		111	80 - 120

Lab Sample ID: 720-91047-20 MS
Matrix: Solid
Analysis Batch: 259508

Client Sample ID: DG-X11S-0.5-1
Prep Type: Total/NA
Prep Batch: 259417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	7.0	B F1	39.7	15.8	F1	mg/Kg		22	75 - 125
Arsenic	11	B	39.7	49.2		mg/Kg		97	75 - 125
Barium	26	F2	39.7	58.7		mg/Kg		83	75 - 125
Beryllium	ND		39.7	40.0		mg/Kg		101	75 - 125
Cadmium	0.11	J	39.7	39.7		mg/Kg		100	75 - 125
Chromium	12		39.7	48.5		mg/Kg		93	75 - 125
Cobalt	7.7		39.7	46.3		mg/Kg		97	75 - 125
Copper	130	F1	39.7	159	F1	mg/Kg		61	75 - 125
Lead	130	F1 F2	39.7	148	F1	mg/Kg		43	75 - 125
Molybdenum	ND		39.7	39.8		mg/Kg		100	75 - 125
Nickel	20		39.7	52.9		mg/Kg		84	75 - 125
Selenium	ND		39.7	38.9		mg/Kg		98	75 - 125
Silver	ND		19.8	17.9		mg/Kg		90	75 - 125
Thallium	ND		39.7	42.6		mg/Kg		107	75 - 125
Vanadium	52	F1	39.7	78.7	F1	mg/Kg		66	75 - 125
Zinc	37	F2	39.7	67.7		mg/Kg		77	75 - 125

Lab Sample ID: 720-91047-20 MSD
Matrix: Solid
Analysis Batch: 259508

Client Sample ID: DG-X11S-0.5-1
Prep Type: Total/NA
Prep Batch: 259417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	7.0	B F1	40.3	17.6	F1	mg/Kg		26	75 - 125	11	20
Arsenic	11	B	40.3	56.4		mg/Kg		113	75 - 125	14	20
Barium	26	F2	40.3	72.6	F2	mg/Kg		116	75 - 125	21	20
Beryllium	ND		40.3	45.0		mg/Kg		112	75 - 125	12	20
Cadmium	0.11	J	40.3	45.7		mg/Kg		113	75 - 125	14	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91047-20 MSD
Matrix: Solid
Analysis Batch: 259508

Client Sample ID: DG-X11S-0.5-1
Prep Type: Total/NA
Prep Batch: 259417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	12		40.3	55.7		mg/Kg		109	75 - 125	14	20
Cobalt	7.7		40.3	53.8		mg/Kg		114	75 - 125	15	20
Copper	130	F1	40.3	191	F1	mg/Kg		140	75 - 125	19	20
Lead	130	F1 F2	40.3	182	F1 F2	mg/Kg		128	75 - 125	21	20
Molybdenum	ND		40.3	45.5		mg/Kg		113	75 - 125	13	20
Nickel	20		40.3	61.7		mg/Kg		105	75 - 125	15	20
Selenium	ND		40.3	44.8		mg/Kg		111	75 - 125	14	20
Silver	ND		20.2	21.1		mg/Kg		105	75 - 125	16	20
Thallium	ND		40.3	46.0		mg/Kg		114	75 - 125	8	20
Vanadium	52	F1	40.3	94.5		mg/Kg		104	75 - 125	18	20
Zinc	37	F2	40.3	84.8	F2	mg/Kg		118	75 - 125	22	20

Lab Sample ID: MB 720-259430/1-A
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Arsenic	ND		1.0	0.085	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Barium	ND		0.50	0.071	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Beryllium	ND		0.10	0.033	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Cadmium	ND		0.13	0.012	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Chromium	ND		0.50	0.053	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Cobalt	ND		0.20	0.020	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Copper	ND		1.5	0.71	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Lead	0.115	J	0.50	0.11	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Nickel	ND		0.50	0.051	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Selenium	ND		1.0	0.15	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Silver	0.0783	J	0.25	0.051	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Thallium	ND		0.50	0.15	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Vanadium	ND		0.50	0.068	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Zinc	ND		1.5	0.64	mg/Kg		01/29/19 17:33	02/07/19 19:42	1

Lab Sample ID: LCS 720-259430/2-A
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.1		mg/Kg		98	80 - 120
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	50.0	51.1		mg/Kg		102	80 - 120
Beryllium	50.0	52.2		mg/Kg		104	80 - 120
Cadmium	50.0	50.6		mg/Kg		101	80 - 120
Chromium	50.0	50.8		mg/Kg		102	80 - 120
Cobalt	50.0	51.9		mg/Kg		104	80 - 120
Copper	50.0	50.9		mg/Kg		102	80 - 120
Lead	50.0	51.3		mg/Kg		103	80 - 120
Molybdenum	50.0	49.9		mg/Kg		100	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259430/2-A
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	50.0	50.2		mg/Kg		100	80 - 120
Selenium	50.0	48.2		mg/Kg		96	80 - 120
Silver	25.0	24.8		mg/Kg		99	80 - 120
Thallium	50.0	50.2		mg/Kg		100	80 - 120
Vanadium	50.0	50.6		mg/Kg		101	80 - 120
Zinc	50.0	49.9		mg/Kg		100	80 - 120

Lab Sample ID: 720-91048-E-16-D MS
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.81	J F1	48.1	10.5	F1	mg/Kg		20	75 - 125
Arsenic	23		48.1	62.4		mg/Kg		81	75 - 125
Barium	68		48.1	112		mg/Kg		92	75 - 125
Beryllium	ND		48.1	51.2		mg/Kg		106	75 - 125
Cadmium	0.39	J	48.1	49.2		mg/Kg		102	75 - 125
Chromium	13		48.1	62.0		mg/Kg		102	75 - 125
Cobalt	9.0		48.1	58.5		mg/Kg		103	75 - 125
Copper	120		48.1	182		mg/Kg		125	75 - 125
Lead	95	B F1	48.1	112	F1	mg/Kg		35	75 - 125
Molybdenum	0.37	J	48.1	45.3		mg/Kg		93	75 - 125
Nickel	11		48.1	56.8		mg/Kg		96	75 - 125
Selenium	1.2	J	48.1	48.7		mg/Kg		99	75 - 125
Silver	ND		24.0	24.7		mg/Kg		103	75 - 125
Thallium	ND		48.1	46.6		mg/Kg		97	75 - 125
Vanadium	99	F1	48.1	160	F1	mg/Kg		127	75 - 125
Zinc	71		48.1	116		mg/Kg		93	75 - 125

Lab Sample ID: 720-91048-E-16-E MSD
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259430

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.81	J F1	47.6	11.6	F1	mg/Kg		23	75 - 125	10	20
Arsenic	23		47.6	67.1		mg/Kg		92	75 - 125	7	20
Barium	68		47.6	109		mg/Kg		88	75 - 125	2	20
Beryllium	ND		47.6	50.4		mg/Kg		106	75 - 125	1	20
Cadmium	0.39	J	47.6	48.9		mg/Kg		102	75 - 125	1	20
Chromium	13		47.6	59.7		mg/Kg		98	75 - 125	4	20
Cobalt	9.0		47.6	57.9		mg/Kg		103	75 - 125	1	20
Copper	120		47.6	166		mg/Kg		94	75 - 125	9	20
Lead	95	B F1	47.6	116	F1	mg/Kg		44	75 - 125	4	20
Molybdenum	0.37	J	47.6	45.0		mg/Kg		94	75 - 125	1	20
Nickel	11		47.6	56.1		mg/Kg		96	75 - 125	1	20
Selenium	1.2	J	47.6	48.3		mg/Kg		99	75 - 125	1	20
Silver	ND		23.8	23.2		mg/Kg		97	75 - 125	6	20
Thallium	ND		47.6	45.3		mg/Kg		95	75 - 125	3	20
Vanadium	99	F1	47.6	152		mg/Kg		111	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91048-E-16-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260050 — **Prep Batch: 259430**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	71		47.6	113		mg/Kg		89	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259380/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260062 — **Prep Batch: 259380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/06/19 10:50	02/06/19 12:05	1

Lab Sample ID: LCS 720-259380/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260062 — **Prep Batch: 259380**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.822		mg/Kg		99	80 - 120

Lab Sample ID: 720-91035-A-22-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260062 — **Prep Batch: 259380**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.033		0.820	0.871		mg/Kg		102	75 - 125

Lab Sample ID: 720-91035-A-22-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260062 — **Prep Batch: 259380**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.033		0.833	0.868		mg/Kg		100	75 - 125	0	20

Lab Sample ID: MB 720-259386/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260158 — **Prep Batch: 259386**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/11/19 10:15	02/11/19 13:45	1

Lab Sample ID: LCS 720-259386/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260158 — **Prep Batch: 259386**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.801		mg/Kg		96	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91047-14 MS — **Client Sample ID: DG-R14S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260158 — **Prep Batch: 259386**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.12	F1 F2	0.704	1.39	F1	mg/Kg		181	75 - 125

Lab Sample ID: 720-91047-14 MSD — **Client Sample ID: DG-R14S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260158 — **Prep Batch: 259386**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.12	F1 F2	0.714	0.814	F2	mg/Kg		98	75 - 125	53	20

Lab Sample ID: MB 720-259389/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260155 — **Prep Batch: 259389**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/29/19 11:04	02/11/19 12:23	1

Lab Sample ID: LCS 720-259389/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260155 — **Prep Batch: 259389**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.837		mg/Kg		100	80 - 120

Lab Sample ID: 720-91048-E-16-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260155 — **Prep Batch: 259389**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091		0.714	0.848		mg/Kg		106	75 - 125

Lab Sample ID: 720-91048-E-16-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260155 — **Prep Batch: 259389**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.091		0.704	0.809		mg/Kg		102	75 - 125	5	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91047-1 DU — **Client Sample ID: DG-X12S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259481

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.6		10.8		%		12	20

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 720-91047-20 DU
Client Sample ID: DG-X11S-0.5-1
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 259482

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.3			8.5		%				15	20

Metals

Prep Batch: 259380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-1	DG-X12S-0.5-1	Total/NA	Solid	7471A	
720-91047-2	DG-X12S-3.5-4	Total/NA	Solid	7471A	
MB 720-259380/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259380/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91035-A-22-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-91035-A-22-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-3	DG-W12S-0.5-1	Total/NA	Solid	7471A	
720-91047-4	DG-W12S-3.5-4	Total/NA	Solid	7471A	
720-91047-5	DG-V12S-0.5-1	Total/NA	Solid	7471A	
720-91047-6	DG-V12S-3.5-4	Total/NA	Solid	7471A	
720-91047-7	DG-U12S-0.5-1	Total/NA	Solid	7471A	
720-91047-8	DG-U12S-3.5-4	Total/NA	Solid	7471A	
720-91047-9	DG-R12S-0.5-1	Total/NA	Solid	7471A	
720-91047-10	DG-R12S-3.5-4	Total/NA	Solid	7471A	
720-91047-11	DUP-98	Total/NA	Solid	7471A	
720-91047-12	DUP-82	Total/NA	Solid	7471A	
720-91047-13	DG-R14S-0.5-1	Total/NA	Solid	7471A	
720-91047-14	DG-R14S-3.5-4	Total/NA	Solid	7471A	
720-91047-15	DG-R16S-0.5-1	Total/NA	Solid	7471A	
720-91047-16	DG-R16S-3.5-4	Total/NA	Solid	7471A	
720-91047-17	DG-R16S-19.5-20	Total/NA	Solid	7471A	
720-91047-20	DG-X11S-0.5-1	Total/NA	Solid	7471A	
720-91047-21	DG-X11S-3.5-4	Total/NA	Solid	7471A	
720-91047-22	DG-Z11S-0.5-1	Total/NA	Solid	7471A	
MB 720-259386/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259386/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91047-14 MS	DG-R14S-3.5-4	Total/NA	Solid	7471A	
720-91047-14 MSD	DG-R14S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 259389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-23	DG-Z11S-3.5-4	Total/NA	Solid	7471A	
720-91047-24	DG-AB11S-0.5-1	Total/NA	Solid	7471A	
720-91047-25	DG-AB11S-3.5-4	Total/NA	Solid	7471A	
720-91047-26	DG-AF11S-0.5-1	Total/NA	Solid	7471A	
720-91047-27	DG-AF11S-3.5-4	Total/NA	Solid	7471A	
720-91047-28	DG-AH11S-0.5-1	Total/NA	Solid	7471A	
720-91047-29	DG-AH11S-3.5-4	Total/NA	Solid	7471A	
720-91047-30	DG-AJ11S-0.5-1	Total/NA	Solid	7471A	
720-91047-31	DG-AJ11S-3.5-4	Total/NA	Solid	7471A	
720-91047-32	DG-AL11S-0.5-1	Total/NA	Solid	7471A	
720-91047-33	DG-AL11S-3.5-4	Total/NA	Solid	7471A	
720-91047-34	DG-AN11S-0.5-1	Total/NA	Solid	7471A	
720-91047-35	DG-AN11S-3.5-4	Total/NA	Solid	7471A	
720-91047-36	DG-AP10S-0.5-1	Total/NA	Solid	7471A	
720-91047-37	DG-AP10S-3.5-4	Total/NA	Solid	7471A	
MB 720-259389/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259389/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-E-16-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-91048-E-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-1	DG-X12S-0.5-1	Total/NA	Solid	3050B	
720-91047-2	DG-X12S-3.5-4	Total/NA	Solid	3050B	
720-91047-3	DG-W12S-0.5-1	Total/NA	Solid	3050B	
720-91047-4	DG-W12S-3.5-4	Total/NA	Solid	3050B	
720-91047-5	DG-V12S-0.5-1	Total/NA	Solid	3050B	
720-91047-6	DG-V12S-3.5-4	Total/NA	Solid	3050B	
720-91047-7	DG-U12S-0.5-1	Total/NA	Solid	3050B	
720-91047-8	DG-U12S-3.5-4	Total/NA	Solid	3050B	
720-91047-9	DG-R12S-0.5-1	Total/NA	Solid	3050B	
720-91047-10	DG-R12S-3.5-4	Total/NA	Solid	3050B	
720-91047-11	DUP-98	Total/NA	Solid	3050B	
MB 720-259393/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259393/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91035-A-30-B MS	Matrix Spike	Total/NA	Solid	3050B	
720-91035-A-30-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-12	DUP-82	Total/NA	Solid	3050B	
720-91047-13	DG-R14S-0.5-1	Total/NA	Solid	3050B	
720-91047-14	DG-R14S-3.5-4	Total/NA	Solid	3050B	
720-91047-15	DG-R16S-0.5-1	Total/NA	Solid	3050B	
720-91047-16	DG-R16S-3.5-4	Total/NA	Solid	3050B	
720-91047-17	DG-R16S-19.5-20	Total/NA	Solid	3050B	
MB 720-259404/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259404/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91047-14 MS	DG-R14S-3.5-4	Total/NA	Solid	3050B	
720-91047-14 MSD	DG-R14S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 259417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-20	DG-X11S-0.5-1	Total/NA	Solid	3050B	
720-91047-21	DG-X11S-3.5-4	Total/NA	Solid	3050B	
720-91047-22	DG-Z11S-0.5-1	Total/NA	Solid	3050B	
720-91047-23	DG-Z11S-3.5-4	Total/NA	Solid	3050B	
720-91047-24	DG-AB11S-0.5-1	Total/NA	Solid	3050B	
720-91047-25	DG-AB11S-3.5-4	Total/NA	Solid	3050B	
720-91047-26	DG-AF11S-0.5-1	Total/NA	Solid	3050B	
720-91047-27	DG-AF11S-3.5-4	Total/NA	Solid	3050B	
720-91047-28	DG-AH11S-0.5-1	Total/NA	Solid	3050B	
720-91047-29	DG-AH11S-3.5-4	Total/NA	Solid	3050B	
720-91047-30	DG-AJ11S-0.5-1	Total/NA	Solid	3050B	
720-91047-31	DG-AJ11S-3.5-4	Total/NA	Solid	3050B	
720-91047-32	DG-AL11S-0.5-1	Total/NA	Solid	3050B	
720-91047-33	DG-AL11S-3.5-4	Total/NA	Solid	3050B	
720-91047-34	DG-AN11S-0.5-1	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 259417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-35	DG-AN11S-3.5-4	Total/NA	Solid	3050B	
MB 720-259417/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259417/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91047-20 MS	DG-X11S-0.5-1	Total/NA	Solid	3050B	
720-91047-20 MSD	DG-X11S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-36	DG-AP10S-0.5-1	Total/NA	Solid	3050B	
720-91047-37	DG-AP10S-3.5-4	Total/NA	Solid	3050B	
MB 720-259430/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259430/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91048-E-16-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-91048-E-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 259500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-21	DG-X11S-3.5-4	Total/NA	Solid	6010B	259417
720-91047-22	DG-Z11S-0.5-1	Total/NA	Solid	6010B	259417
720-91047-23	DG-Z11S-3.5-4	Total/NA	Solid	6010B	259417
720-91047-24	DG-AB11S-0.5-1	Total/NA	Solid	6010B	259417
720-91047-25	DG-AB11S-3.5-4	Total/NA	Solid	6010B	259417
720-91047-26	DG-AF11S-0.5-1	Total/NA	Solid	6010B	259417
720-91047-27	DG-AF11S-3.5-4	Total/NA	Solid	6010B	259417
720-91047-28	DG-AH11S-0.5-1	Total/NA	Solid	6010B	259417
720-91047-29	DG-AH11S-3.5-4	Total/NA	Solid	6010B	259417
720-91047-30	DG-AJ11S-0.5-1	Total/NA	Solid	6010B	259417
720-91047-31	DG-AJ11S-3.5-4	Total/NA	Solid	6010B	259417
720-91047-32	DG-AL11S-0.5-1	Total/NA	Solid	6010B	259417
720-91047-33	DG-AL11S-3.5-4	Total/NA	Solid	6010B	259417
720-91047-34	DG-AN11S-0.5-1	Total/NA	Solid	6010B	259417
720-91047-35	DG-AN11S-3.5-4	Total/NA	Solid	6010B	259417

Analysis Batch: 259508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-20	DG-X11S-0.5-1	Total/NA	Solid	6010B	259417
MB 720-259417/1-A	Method Blank	Total/NA	Solid	6010B	259417
720-91047-20 MS	DG-X11S-0.5-1	Total/NA	Solid	6010B	259417
720-91047-20 MSD	DG-X11S-0.5-1	Total/NA	Solid	6010B	259417

Analysis Batch: 259509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-259417/2-A	Lab Control Sample	Total/NA	Solid	6010B	259417

Analysis Batch: 259532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-12	DUP-82	Total/NA	Solid	6010B	259404
720-91047-13	DG-R14S-0.5-1	Total/NA	Solid	6010B	259404
720-91047-14	DG-R14S-3.5-4	Total/NA	Solid	6010B	259404
720-91047-15	DG-R16S-0.5-1	Total/NA	Solid	6010B	259404
720-91047-16	DG-R16S-3.5-4	Total/NA	Solid	6010B	259404

Metals (Continued)

Analysis Batch: 259532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-17	DG-R16S-19.5-20	Total/NA	Solid	6010B	259404
MB 720-259404/1-A	Method Blank	Total/NA	Solid	6010B	259404
LCS 720-259404/2-A	Lab Control Sample	Total/NA	Solid	6010B	259404
720-91047-14 MS	DG-R14S-3.5-4	Total/NA	Solid	6010B	259404
720-91047-14 MSD	DG-R14S-3.5-4	Total/NA	Solid	6010B	259404

Analysis Batch: 259587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-12	DUP-82	Total/NA	Solid	6010B	259404
720-91047-13	DG-R14S-0.5-1	Total/NA	Solid	6010B	259404
720-91047-16	DG-R16S-3.5-4	Total/NA	Solid	6010B	259404
720-91047-17	DG-R16S-19.5-20	Total/NA	Solid	6010B	259404

Analysis Batch: 259703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-1	DG-X12S-0.5-1	Total/NA	Solid	6010B	259393
720-91047-2	DG-X12S-3.5-4	Total/NA	Solid	6010B	259393
720-91047-3	DG-W12S-0.5-1	Total/NA	Solid	6010B	259393
720-91047-4	DG-W12S-3.5-4	Total/NA	Solid	6010B	259393
720-91047-5	DG-V12S-0.5-1	Total/NA	Solid	6010B	259393
720-91047-6	DG-V12S-3.5-4	Total/NA	Solid	6010B	259393
720-91047-7	DG-U12S-0.5-1	Total/NA	Solid	6010B	259393
720-91047-8	DG-U12S-3.5-4	Total/NA	Solid	6010B	259393
720-91047-9	DG-R12S-0.5-1	Total/NA	Solid	6010B	259393
720-91047-10	DG-R12S-3.5-4	Total/NA	Solid	6010B	259393
720-91047-11	DUP-98	Total/NA	Solid	6010B	259393
MB 720-259393/1-A	Method Blank	Total/NA	Solid	6010B	259393
LCS 720-259393/2-A	Lab Control Sample	Total/NA	Solid	6010B	259393
720-91035-A-30-B MS	Matrix Spike	Total/NA	Solid	6010B	259393
720-91035-A-30-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259393

Analysis Batch: 259757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-8	DG-U12S-3.5-4	Total/NA	Solid	6010B	259393
720-91047-11	DUP-98	Total/NA	Solid	6010B	259393

Analysis Batch: 260050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-36	DG-AP10S-0.5-1	Total/NA	Solid	6010B	259430
720-91047-37	DG-AP10S-3.5-4	Total/NA	Solid	6010B	259430
MB 720-259430/1-A	Method Blank	Total/NA	Solid	6010B	259430
LCS 720-259430/2-A	Lab Control Sample	Total/NA	Solid	6010B	259430
720-91048-E-16-D MS	Matrix Spike	Total/NA	Solid	6010B	259430
720-91048-E-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259430

Analysis Batch: 260062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-1	DG-X12S-0.5-1	Total/NA	Solid	7471A	259380
720-91047-2	DG-X12S-3.5-4	Total/NA	Solid	7471A	259380
MB 720-259380/1-A	Method Blank	Total/NA	Solid	7471A	259380
LCS 720-259380/2-A	Lab Control Sample	Total/NA	Solid	7471A	259380

Metals (Continued)

Analysis Batch: 260062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91035-A-22-A MS	Matrix Spike	Total/NA	Solid	7471A	259380
720-91035-A-22-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259380

Analysis Batch: 260155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-23	DG-Z11S-3.5-4	Total/NA	Solid	7471A	259389
720-91047-24	DG-AB11S-0.5-1	Total/NA	Solid	7471A	259389
720-91047-25	DG-AB11S-3.5-4	Total/NA	Solid	7471A	259389
720-91047-26	DG-AF11S-0.5-1	Total/NA	Solid	7471A	259389
720-91047-27	DG-AF11S-3.5-4	Total/NA	Solid	7471A	259389
720-91047-28	DG-AH11S-0.5-1	Total/NA	Solid	7471A	259389
720-91047-29	DG-AH11S-3.5-4	Total/NA	Solid	7471A	259389
720-91047-30	DG-AJ11S-0.5-1	Total/NA	Solid	7471A	259389
720-91047-31	DG-AJ11S-3.5-4	Total/NA	Solid	7471A	259389
720-91047-32	DG-AL11S-0.5-1	Total/NA	Solid	7471A	259389
720-91047-33	DG-AL11S-3.5-4	Total/NA	Solid	7471A	259389
720-91047-34	DG-AN11S-0.5-1	Total/NA	Solid	7471A	259389
720-91047-35	DG-AN11S-3.5-4	Total/NA	Solid	7471A	259389
720-91047-36	DG-AP10S-0.5-1	Total/NA	Solid	7471A	259389
720-91047-37	DG-AP10S-3.5-4	Total/NA	Solid	7471A	259389
MB 720-259389/1-A	Method Blank	Total/NA	Solid	7471A	259389
LCS 720-259389/2-A	Lab Control Sample	Total/NA	Solid	7471A	259389
720-91048-E-16-A MS	Matrix Spike	Total/NA	Solid	7471A	259389
720-91048-E-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259389

Analysis Batch: 260158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-3	DG-W12S-0.5-1	Total/NA	Solid	7471A	259386
720-91047-4	DG-W12S-3.5-4	Total/NA	Solid	7471A	259386
720-91047-5	DG-V12S-0.5-1	Total/NA	Solid	7471A	259386
720-91047-6	DG-V12S-3.5-4	Total/NA	Solid	7471A	259386
720-91047-7	DG-U12S-0.5-1	Total/NA	Solid	7471A	259386
720-91047-8	DG-U12S-3.5-4	Total/NA	Solid	7471A	259386
720-91047-9	DG-R12S-0.5-1	Total/NA	Solid	7471A	259386
720-91047-10	DG-R12S-3.5-4	Total/NA	Solid	7471A	259386
720-91047-11	DUP-98	Total/NA	Solid	7471A	259386
720-91047-12	DUP-82	Total/NA	Solid	7471A	259386
720-91047-13	DG-R14S-0.5-1	Total/NA	Solid	7471A	259386
720-91047-14	DG-R14S-3.5-4	Total/NA	Solid	7471A	259386
720-91047-15	DG-R16S-0.5-1	Total/NA	Solid	7471A	259386
720-91047-16	DG-R16S-3.5-4	Total/NA	Solid	7471A	259386
720-91047-17	DG-R16S-19.5-20	Total/NA	Solid	7471A	259386
720-91047-20	DG-X11S-0.5-1	Total/NA	Solid	7471A	259386
720-91047-21	DG-X11S-3.5-4	Total/NA	Solid	7471A	259386
720-91047-22	DG-Z11S-0.5-1	Total/NA	Solid	7471A	259386
MB 720-259386/1-A	Method Blank	Total/NA	Solid	7471A	259386
LCS 720-259386/2-A	Lab Control Sample	Total/NA	Solid	7471A	259386
720-91047-14 MS	DG-R14S-3.5-4	Total/NA	Solid	7471A	259386
720-91047-14 MSD	DG-R14S-3.5-4	Total/NA	Solid	7471A	259386

Metals

Analysis Batch: 261879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-8	DG-U12S-3.5-4	Total/NA	Solid	6010B	259393

Analysis Batch: 261959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-36	DG-AP10S-0.5-1	Total/NA	Solid	6010B	259430
720-91047-37	DG-AP10S-3.5-4	Total/NA	Solid	6010B	259430
MB 720-259430/1-A	Method Blank	Total/NA	Solid	6010B	259430
LCS 720-259430/2-A	Lab Control Sample	Total/NA	Solid	6010B	259430
720-91048-E-16-D MS	Matrix Spike	Total/NA	Solid	6010B	259430
720-91048-E-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259430

General Chemistry

Analysis Batch: 259481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-1	DG-X12S-0.5-1	Total/NA	Solid	Moisture	
720-91047-2	DG-X12S-3.5-4	Total/NA	Solid	Moisture	
720-91047-3	DG-W12S-0.5-1	Total/NA	Solid	Moisture	
720-91047-4	DG-W12S-3.5-4	Total/NA	Solid	Moisture	
720-91047-5	DG-V12S-0.5-1	Total/NA	Solid	Moisture	
720-91047-6	DG-V12S-3.5-4	Total/NA	Solid	Moisture	
720-91047-7	DG-U12S-0.5-1	Total/NA	Solid	Moisture	
720-91047-8	DG-U12S-3.5-4	Total/NA	Solid	Moisture	
720-91047-9	DG-R12S-0.5-1	Total/NA	Solid	Moisture	
720-91047-10	DG-R12S-3.5-4	Total/NA	Solid	Moisture	
720-91047-11	DUP-98	Total/NA	Solid	Moisture	
720-91047-12	DUP-82	Total/NA	Solid	Moisture	
720-91047-13	DG-R14S-0.5-1	Total/NA	Solid	Moisture	
720-91047-14	DG-R14S-3.5-4	Total/NA	Solid	Moisture	
720-91047-15	DG-R16S-0.5-1	Total/NA	Solid	Moisture	
720-91047-16	DG-R16S-3.5-4	Total/NA	Solid	Moisture	
720-91047-17	DG-R16S-19.5-20	Total/NA	Solid	Moisture	
720-91047-1 DU	DG-X12S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 259482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-20	DG-X11S-0.5-1	Total/NA	Solid	Moisture	
720-91047-21	DG-X11S-3.5-4	Total/NA	Solid	Moisture	
720-91047-22	DG-Z11S-0.5-1	Total/NA	Solid	Moisture	
720-91047-23	DG-Z11S-3.5-4	Total/NA	Solid	Moisture	
720-91047-24	DG-AB11S-0.5-1	Total/NA	Solid	Moisture	
720-91047-25	DG-AB11S-3.5-4	Total/NA	Solid	Moisture	
720-91047-26	DG-AF11S-0.5-1	Total/NA	Solid	Moisture	
720-91047-27	DG-AF11S-3.5-4	Total/NA	Solid	Moisture	
720-91047-28	DG-AH11S-0.5-1	Total/NA	Solid	Moisture	
720-91047-29	DG-AH11S-3.5-4	Total/NA	Solid	Moisture	
720-91047-30	DG-AJ11S-0.5-1	Total/NA	Solid	Moisture	
720-91047-31	DG-AJ11S-3.5-4	Total/NA	Solid	Moisture	
720-91047-32	DG-AL11S-0.5-1	Total/NA	Solid	Moisture	
720-91047-33	DG-AL11S-3.5-4	Total/NA	Solid	Moisture	
720-91047-34	DG-AN11S-0.5-1	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259482 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91047-35	DG-AN11S-3.5-4	Total/NA	Solid	Moisture	
720-91047-36	DG-AP10S-0.5-1	Total/NA	Solid	Moisture	
720-91047-37	DG-AP10S-3.5-4	Total/NA	Solid	Moisture	
720-91047-20 DU	DG-X11S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-X12S-0.5-1

Lab Sample ID: 720-91047-1

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:07	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 13:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-X12S-3.5-4

Lab Sample ID: 720-91047-2

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:12	OBI	TAL PLS
Total/NA	Prep	7471A			259380	02/06/19 10:50	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260062	02/06/19 14:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-W12S-0.5-1

Lab Sample ID: 720-91047-3

Date Collected: 01/28/19 08:20
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:17	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 13:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-W12S-3.5-4

Lab Sample ID: 720-91047-4

Date Collected: 01/28/19 08:20
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:21	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 13:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-V12S-0.5-1

Lab Sample ID: 720-91047-5

Date Collected: 01/28/19 08:50
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:26	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 14:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-V12S-3.5-4

Lab Sample ID: 720-91047-6

Date Collected: 01/28/19 08:50
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:31	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 14:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-U12S-0.5-1

Lab Sample ID: 720-91047-7

Date Collected: 01/28/19 09:05
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:36	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 14:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-U12S-3.5-4

Lab Sample ID: 720-91047-8

Date Collected: 01/28/19 09:05
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:40	OBI	TAL PLS
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261879	03/13/19 02:44	BKR	TAL PLS
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259757	02/04/19 13:28	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		10	260158	02/11/19 15:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-R12S-0.5-1

Lab Sample ID: 720-91047-9

Date Collected: 01/28/19 09:25

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 22:45	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 15:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-R12S-3.5-4

Lab Sample ID: 720-91047-10

Date Collected: 01/28/19 09:25

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 23:00	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 14:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DUP-98

Lab Sample ID: 720-91047-11

Date Collected: 01/28/19 00:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259703	02/01/19 23:04	OBI	TAL PLS
Total/NA	Prep	3050B			259393	01/31/19 08:42	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259757	02/04/19 13:33	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 14:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DUP-82

Lab Sample ID: 720-91047-12

Date Collected: 01/28/19 00:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		20	259587	01/31/19 13:41	OBI	TAL PLS
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259532	01/30/19 18:40	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		10	260158	02/11/19 15:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-R14S-0.5-1

Lab Sample ID: 720-91047-13

Date Collected: 01/28/19 09:50

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259587	01/31/19 13:46	OBI	TAL PLS
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259532	01/30/19 18:44	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 15:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-R14S-3.5-4

Lab Sample ID: 720-91047-14

Date Collected: 01/28/19 09:50

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259532	01/30/19 18:35	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 13:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-R16S-0.5-1

Lab Sample ID: 720-91047-15

Date Collected: 01/28/19 10:15

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259532	01/30/19 18:49	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		4	260158	02/11/19 15:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-R16S-3.5-4

Lab Sample ID: 720-91047-16

Date Collected: 01/28/19 10:15

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259587	01/31/19 13:50	OBI	TAL PLS
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259532	01/30/19 18:54	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		10	260158	02/11/19 15:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-R16S-19.5-20

Lab Sample ID: 720-91047-17
Date Collected: 01/28/19 10:30
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259587	01/31/19 13:55	OBI	TAL PLS
Total/NA	Prep	3050B			259404	01/30/19 08:29	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259532	01/30/19 19:08	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 15:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259481	01/30/19 11:28	TNL	TAL PLS

Client Sample ID: DG-X11S-0.5-1

Lab Sample ID: 720-91047-20
Date Collected: 01/28/19 11:30
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259508	01/30/19 15:51	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 14:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-X11S-3.5-4

Lab Sample ID: 720-91047-21
Date Collected: 01/28/19 11:30
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 13:45	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 14:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-Z11S-0.5-1

Lab Sample ID: 720-91047-22
Date Collected: 01/28/19 11:40
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 13:50	OBI	TAL PLS
Total/NA	Prep	7471A			259386	02/11/19 10:15	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260158	02/11/19 14:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-Z11S-3.5-4

Lab Sample ID: 720-91047-23

Date Collected: 01/28/19 11:40
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 13:54	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 12:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AB11S-0.5-1

Lab Sample ID: 720-91047-24

Date Collected: 01/28/19 11:55
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 13:59	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 12:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AB11S-3.5-4

Lab Sample ID: 720-91047-25

Date Collected: 01/28/19 11:55
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:04	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 12:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AF11S-0.5-1

Lab Sample ID: 720-91047-26

Date Collected: 01/28/19 13:15
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:08	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 12:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AF11S-3.5-4
Lab Sample ID: 720-91047-27
Date Collected: 01/28/19 13:15
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:13	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 12:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AH11S-0.5-1
Lab Sample ID: 720-91047-28
Date Collected: 01/28/19 13:40
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:18	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 12:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AH11S-3.5-4
Lab Sample ID: 720-91047-29
Date Collected: 01/28/19 13:40
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:23	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 12:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AJ11S-0.5-1
Lab Sample ID: 720-91047-30
Date Collected: 01/28/19 14:00
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:27	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 12:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AJ11S-3.5-4
Lab Sample ID: 720-91047-31
Date Collected: 01/28/19 14:00
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:42	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AL11S-0.5-1
Lab Sample ID: 720-91047-32
Date Collected: 01/28/19 14:30
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:46	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AL11S-3.5-4
Lab Sample ID: 720-91047-33
Date Collected: 01/28/19 14:30
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:51	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AN11S-0.5-1
Lab Sample ID: 720-91047-34
Date Collected: 01/28/19 14:50
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 14:56	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91047-1

Client Sample ID: DG-AN11S-3.5-4

Lab Sample ID: 720-91047-35

Date Collected: 01/28/19 14:50
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259417	01/29/19 15:38	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259500	01/30/19 15:01	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AP10S-0.5-1

Lab Sample ID: 720-91047-36

Date Collected: 01/28/19 15:15
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 21:56	OBI	TAL PLS
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261959	02/07/19 21:56	BKR	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Client Sample ID: DG-AP10S-3.5-4

Lab Sample ID: 720-91047-37

Date Collected: 01/28/19 15:15
Date Received: 01/28/19 18:20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 22:00	OBI	TAL PLS
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261959	02/07/19 22:00	BKR	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259482	01/30/19 12:02	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91047-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91047-1	DG-X12S-0.5-1	Solid	01/28/19 08:10	01/28/19 18:20
720-91047-2	DG-X12S-3.5-4	Solid	01/28/19 08:10	01/28/19 18:20
720-91047-3	DG-W12S-0.5-1	Solid	01/28/19 08:20	01/28/19 18:20
720-91047-4	DG-W12S-3.5-4	Solid	01/28/19 08:20	01/28/19 18:20
720-91047-5	DG-V12S-0.5-1	Solid	01/28/19 08:50	01/28/19 18:20
720-91047-6	DG-V12S-3.5-4	Solid	01/28/19 08:50	01/28/19 18:20
720-91047-7	DG-U12S-0.5-1	Solid	01/28/19 09:05	01/28/19 18:20
720-91047-8	DG-U12S-3.5-4	Solid	01/28/19 09:05	01/28/19 18:20
720-91047-9	DG-R12S-0.5-1	Solid	01/28/19 09:25	01/28/19 18:20
720-91047-10	DG-R12S-3.5-4	Solid	01/28/19 09:25	01/28/19 18:20
720-91047-11	DUP-98	Solid	01/28/19 00:00	01/28/19 18:20
720-91047-12	DUP-82	Solid	01/28/19 00:00	01/28/19 18:20
720-91047-13	DG-R14S-0.5-1	Solid	01/28/19 09:50	01/28/19 18:20
720-91047-14	DG-R14S-3.5-4	Solid	01/28/19 09:50	01/28/19 18:20
720-91047-15	DG-R16S-0.5-1	Solid	01/28/19 10:15	01/28/19 18:20
720-91047-16	DG-R16S-3.5-4	Solid	01/28/19 10:15	01/28/19 18:20
720-91047-17	DG-R16S-19.5-20	Solid	01/28/19 10:30	01/28/19 18:20
720-91047-20	DG-X11S-0.5-1	Solid	01/28/19 11:30	01/28/19 18:20
720-91047-21	DG-X11S-3.5-4	Solid	01/28/19 11:30	01/28/19 18:20
720-91047-22	DG-Z11S-0.5-1	Solid	01/28/19 11:40	01/28/19 18:20
720-91047-23	DG-Z11S-3.5-4	Solid	01/28/19 11:40	01/28/19 18:20
720-91047-24	DG-AB11S-0.5-1	Solid	01/28/19 11:55	01/28/19 18:20
720-91047-25	DG-AB11S-3.5-4	Solid	01/28/19 11:55	01/28/19 18:20
720-91047-26	DG-AF11S-0.5-1	Solid	01/28/19 13:15	01/28/19 18:20
720-91047-27	DG-AF11S-3.5-4	Solid	01/28/19 13:15	01/28/19 18:20
720-91047-28	DG-AH11S-0.5-1	Solid	01/28/19 13:40	01/28/19 18:20
720-91047-29	DG-AH11S-3.5-4	Solid	01/28/19 13:40	01/28/19 18:20
720-91047-30	DG-AJ11S-0.5-1	Solid	01/28/19 14:00	01/28/19 18:20
720-91047-31	DG-AJ11S-3.5-4	Solid	01/28/19 14:00	01/28/19 18:20
720-91047-32	DG-AL11S-0.5-1	Solid	01/28/19 14:30	01/28/19 18:20
720-91047-33	DG-AL11S-3.5-4	Solid	01/28/19 14:30	01/28/19 18:20
720-91047-34	DG-AN11S-0.5-1	Solid	01/28/19 14:50	01/28/19 18:20
720-91047-35	DG-AN11S-3.5-4	Solid	01/28/19 14:50	01/28/19 18:20
720-91047-36	DG-AP10S-0.5-1	Solid	01/28/19 15:15	01/28/19 18:20
720-91047-37	DG-AP10S-3.5-4	Solid	01/28/19 15:15	01/28/19 18:20

188136

720-91047

Chain of Custody Record

TestAmerica

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/23/19	COC No 2801 2019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91047 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-X12S-0.5-1	1/23/19	810	G	S	1	N		X	
2	DG-X12S-3.5-4		810							
3	DG-W12S-0.5-1		820							
4	DG-W12S-3.5-4		820							
5	DG-V12S-0.5-1		850							
6	DG-V12S-3.5-4		850							
7	DG-U12S-0.5-1		905							
8	DG-U12S-3.5-4		905							
9	DG-R12S-0.5-1		925							
10	DG-R12S-3.5-4		925							
11	DUP-98		—							
12	DUP-82		—							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

13.5°C / 15.2°C / 6.7°C / 16.4°C / 2.2°C

Custody Seals Intact. ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____

	Company	Date/Time		Company	Date/Time
Relinquished by: Nicholas L Pandle	Geosyntec	1/28/19 15:45	Received by:	J.C.S	1-28-19 4:20
Relinquished by:	J.C.S	1-28-19 6:20	Received by:	TAPLS	1/29/19 1020
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/23/19	COC No 2801 2019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13 DG-R14S-0.5-1	1/23/19	950	G	S	1	N		X	
14 DG-R14S-3.5-4		950					Y		
15 DG-R16S-0.5-1		1015							
16 DG-R16S-3.5-4		1015							
17 DG-R16S-19.5-20		1030							
18 DG-P15S-0.5-1		1100							
19 DG-P15S-3.5-4		1100							
20 DG-X11S-0.5-1		1130							
21 DG-X11S-3.5-4		1130							
22 DG-Z11S-0.5-1		1140							
23 DG-Z11S-3.5-4		1140							
24 DG-AB11S-0.5-1		1155							

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by: Nichola L Randle	Company: Geosyntec	Date/Time: 1/23/19 15:45	Received by: Payat G	Company: J.C.S	Date/Time: 1-23-19 4:00
Relinquished by: Payat G	Company: J.C.S	Date/Time: 1-23-19 6:30	Received by:	Company: TAPLS	Date/Time: 1/24/19 1820
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-91047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/28/19	COC No. 2801 2019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25	DG-AB11S-3.5-4	1/28/19	1155	G	S	1	N		X	
26	DG-AF11S-0.5-1		1315							
27	DG-AF11S-3.5-4		1315							
28	DG-AH11S-0.5-1		1340							
29	DG-AH11S-3.5-4		1340							
30	DG-AJ11S-0.5-1		1400							
31	DG-AJ11S-3.5-4		1400							
32	DG-AL11S-0.5-1		1430							
33	DG-AL11S-3.5-4.0		1430							
34	DG-AN11S-0.5-1		1450							
35	DG-A11S-3.5-4		1450							
36	DG-AP10S-0.5-1		1515							

Page 64 of 90

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C): Obs'd: ____ Corr'd ____ Therm ID No ____		
Relinquished by: Nedda Z Kandle	Company: Geosyntec	Date/Time: 1/28/19 1545	Received by: Payal G	Company: S.C.S	Date/Time: 1-28-19 4:00
Relinquished by: Payal G	Company: S.C.S	Date/Time: 1-28-19 6:27	Received by:	Company: TRADLS	Date/Time: 1/28/19 1820
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 *fax* 925.600 3002

720-91047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No 2801 2019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
35 DG-AP10S-3.5-4	1/28/19	1515	G	S	1	N	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by: Natalie Pinelle	Company: Geosyntec	Date/Time: 1/28/19 1545	Received by: Payal G	Company: E.C.S	Date/Time: 1-28-19 4:30
Relinquished by: Payal G	Company: E.C.S	Date/Time: 1-28-1960	Received by:	Company:	Date/Time: 1/28/19 1620
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.16, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91047-1

Login Number: 91047
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Tuesday, January 29, 2019 2:37 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: TestAmerica sample confirmation files from 720-91047-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Christian,

Please cancel samples #18 (DG-P15S-0.5-1) and #19 (DG-P15S-3.5-4).

Thank you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Tuesday, January 29, 2019 11:46 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: TestAmerica sample confirmation files from 720-91047-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-91047-1; Brisbane OU-2 Data Gap Investigation

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [498502]
Attachments: 3

eurofins | Environment Testing TestAmerica

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91047-A-36-B	DG-AP10S-0.5-1	36	0.81 J
720-91047-A-37-B	DG-AP10S-3.5-4	13	ND
720-91047-A-8-B	DG-U12S-3.5-4	12	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa Brewer
Quality Assurance Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91048-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/25/2019 10:26:20 AM
Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91048-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91048-1

Comments
No additional comments.

Receipt
The samples were received on 1/28/2019 6:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.2º C, 6.7º C, 13.5º C, 15.2º C and 16.4º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#26) DG-Z13S-0.5-1. The Terra core vial labels list DG-X13S-0.5-1 time 13:30, while the COC lists DG-Z13S-0.5-1.
(#27) DG-Z13S-3.5-4. The Terra core vial labels list DG-X13S-3.5-4 time 13:30, while the COC lists DG-Z13S-3.5-4.
The samples were logged using the COC ID.

Two samples (FB-1.28.2019 and TB-01.28.19) were recieved but no analysis was indicated on the COC. The client was contacted and no analysis was performed.

GC/MS VOA
Method 8260B/CA_LUFTMS: The matrix spike duplicate (MSD) recoveries for preparation batch 440-526116 and analytical batch 440-526210 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B/CA_LUFTMS: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526116 and analytical batch 440-526210 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-526116 and analytical batch 440-526002 and 440-526209 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The MS/MSD results are flagged with a "*" as the parent sample required re-analysis.

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526116 and analytical batches 440-526002 and 440-526209 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-526536 recovered above the upper control limit for Vinyl chloride and 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AF13S-0.5-1 (720-91048-28), and (CCVIS 440-526536/2).

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-526745 recovered outside control limits for the following analytes: Tetrachloroethene and Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 440-526745 recovered outside control limits for the following analyte: Bromoform. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: DG-W15S-3.5-4 (720-91048-19[MS]) and DG-W15S-3.5-4 (720-91048-19[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was

Job ID: 720-91048-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

reduced to a level where the recovery calculation may not provide useful information.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-Z17S-0.5-1 (720-91048-1), DG-Z17S-3.5-4 (720-91048-2), DG-Z17S-7.5-8 (720-91048-3), DG-Y19S-0.5-1 (720-91048-4), DG-Y19S-3.5-4 (720-91048-5), DG-V17S-0.5-1 (720-91048-7), DG-U15S-0.5-1 (720-91048-10), DUP-124 (720-91048-12), DG-U15S-3.5-4 (720-91048-13), DG-U15S-8.5-9 (720-91048-14), DG-T17S-0.5-1 (720-91048-15), DG-T17S-3.5-4 (720-91048-16), DG-T17S-7-7.5 (720-91048-17), DG-W15S-0.5-1 (720-91048-18), DG-W15S-3.5-4 (720-91048-19), DG-X17S-0.5-1 (720-91048-20), DG-X17S-3.5-4 (720-91048-21) DG-R13S-0.5-1 (720-91048-22), DUP-108 (720-91048-23), DUP-121 (720-91048-24), DG-Z13S-0.5-1 (720-91048-26), DG-Z13S-3.5-4 (720-91048-27), DG-AF13S-0.5-1 (720-91048-28), and DG-AF13S-3.5-4 (720-91048-29). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batches 720-259639 and 720-259581 and analytical batches 720-259941 and 720-260053 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The method blank for preparation batch 720-259581 and analytical batch 720-259976 contained Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Indeno[1,2,3-cd]pyrene, Fluoranthene, Pyrene and Dibenz(a,h)anthracene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: Surrogate recovery for the following samples were outside control limits: DG-U15S-8.5-9 (720-91048-14), DG-W15S-0.5-1 (720-91048-18), DG-X17S-3.5-4 (720-91048-21), and DG-AF13S-0.5-1 (720-91048-28). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The method blank for preparation batch 720-259639 and analytical batch 720-259858 contained Benzo[a]pyrene and Benzo[k]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: Surrogate recovery for the following sample was outside acceptance limits: (LCS 720-259589/2-A). The associated laboratory control sample (LCS) spike recovery was within acceptance limits. The surrogate recoveries for the batch's method blank and matrix spike / matrix spike duplicate were within acceptance limits.

Method 8015B: Due to the high concentration of Diesel Range Organics [C10-C28], the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-259569 and analytical batch 720-259873 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-Z17S-0.5-1 (720-91048-1), DG-Z17S-3.5-4 (720-91048-2), DG-Z17S-7.5-8 (720-91048-3), DG-Y19S-0.5-1 (720-91048-4), DG-Y19S-3.5-4 (720-91048-5), DG-U15S-0.5-1 (720-91048-10), DUP-124 (720-91048-12), DG-U15S-8.5-9 (720-91048-14), DG-T17S-0.5-1 (720-91048-15), DG-T17S-7-7.5 (720-91048-17), DG-W15S-0.5-1 (720-91048-18), DG-W15S-3.5-4 (720-91048-19), DG-W15S-3.5-4 (720-91048-19[MS]), DG-W15S-3.5-4 (720-91048-19[MSD]), DG-X17S-0.5-1 (720-91048-20), DG-X17S-3.5-4 (720-91048-21), DG-R13S-0.5-1 (720-91048-22), DUP-108 (720-91048-23), DUP-121 (720-91048-24), DG-Z13S-0.5-1 (720-91048-26), DG-Z13S-3.5-4 (720-91048-27), DG-AF13S-0.5-1 (720-91048-28), (720-91048-E-5-E MS), and (720-91048-E-5-F MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation may not provide useful information. Elevated reporting limits (RL) are provided.

Method 8081A: The following samples required a dilution due to the nature of the sample matrix: DG-Y19S-0.5-1 (720-91048-4), DG-V17S-9.5-10 (720-91048-9), DG-U15S-8.5-9 (720-91048-14), DG-W15S-0.5-1 (720-91048-18), DG-X17S-0.5-1 (720-91048-20), DUP-108 (720-91048-23), and DUP-121 (720-91048-24). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information. Elevated reporting limits (RL) are provided.

Method 8081A: The following samples were diluted due to color: DG-Z17S-0.5-1 (720-91048-1), DG-Z17S-3.5-4 (720-91048-2), DG-Y19S-0.5-1 (720-91048-4), DG-U15S-0.5-1 (720-91048-10), DG-U15S-8.5-9 (720-91048-14), DG-T17S-0.5-1 (720-91048-15),

Job ID: 720-91048-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

DG-W15S-0.5-1 (720-91048-18), DG-W15S-3.5-4 (720-91048-19), DG-X17S-0.5-1 (720-91048-20), DG-X17S-3.5-4 (720-91048-21), DUP-108 (720-91048-23), DUP-121 (720-91048-24), and DG-AF13S-0.5-1 (720-91048-28). Elevated reporting limits (RL) are provided.

Method 8081A: The following samples were diluted due to the abundance of non-target analytes: DG-V17S-9.5-10 (720-91048-9) and DUP-124 (720-91048-12). Elevated reporting limits (RLs) are provided.

Method 8081A: The matrix spike duplicate (MSD) recovery for preparation batch 720-259496 and analytical batch 720-259779 was outside control limits on the confirmation column only. The MSD recovery for Gamma-Chlordane was 124%.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 720-259541 and analytical batch 720-259779 was outside control limits. Sample matrix interference is suspected.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Endrin ketone, 4,4'-DDE, and 4,4'-DDT for the following sample: DUP-124 (720-91048-12). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following sample: DG-AF13S-0.5-1 (720-91048-28). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8082: The continuing calibration verification (CCV) associated with batch 440-526355 recovered above the upper control limit for Aroclor 1016 and Aroclor 1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-W15S-3.5-4 (720-91048-19), DG-R13S-0.5-1 (720-91048-22), DUP-108 (720-91048-23), DUP-121 (720-91048-24), DG-R13S-3.5-4 (720-91048-25), DG-Z13S-0.5-1 (720-91048-26), DG-Z13S-3.5-4 (720-91048-27), DG-AF13S-0.5-1 (720-91048-28), and DG-AF13S-3.5-4 (720-91048-29).

Method 8082: The matrix spike duplicate (MSD) recoveries for the following sample associated with preparation batch 440-526136 and analytical batch 440-526369 were outside control limits for Aroclor 1016 due to matrix: DG-T17S-3.5-4 (720-91048-16[MSD]). The associated laboratory control sample (LCS) and the matrix spike (MS) recovery met acceptance criteria.

Method 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-V17S-9.5-10 (720-91048-9), DG-T17S-7-7.5 (720-91048-17), and DUP-121 (720-91048-24).

Method 8082: Surrogate recovery for the following sample was outside the upper control limit: DG-Z17S-0.5-1 (720-91048-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: Surrogate recovery for the following sample was outside control limits: DG-W15S-0.5-1 (720-91048-18). Re-analysis was performed with concurring results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The following sample was diluted to bring the concentration of target analyte Lead within the calibration range: DG-X17S-3.5-4 (720-91048-21). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Z17S-0.5-1 (720-91048-1), DG-Z17S-3.5-4 (720-91048-2), DG-Z17S-7.5-8 (720-91048-3), DG-Y19S-0.5-1 (720-91048-4), DG-Y19S-3.5-4 (720-91048-5), DG-Y19S-7.5-8 (720-91048-6), DG-V17S-0.5-1 (720-91048-7), DG-V17S-3.5-4 (720-91048-8), DG-V15S-9.5-10 (720-91048-9), DG-U17S-0.5-1 (720-91048-10), DUP-122 (720-91048-11), DUP-124 (720-91048-12), DG-U15S-3.5-4 (720-91048-13), DG-U15S-8.5-9 (720-91048-14), DG-T17S-0.5-1 (720-91048-15), DG-T17S-3.5-4 (720-91048-16), DG-T17S-7-7.5 (720-91048-17), DG-W15S-0.5-1 (720-91048-18), DG-W15S-3.5-4 (720-91048-19), DG-X17S-0.5-1 (720-91048-20), DG-R13S-0.5-1 (720-91048-22), DUP-108 (720-91048-23), DUP-121 (720-91048-24), DG-R13S-3.5-4 (720-91048-25), DG-Z13S-0.5-1 (720-91048-26), DG-Z13S-3.5-4 (720-91048-27), DG-AF13S-0.5-1 (720-91048-28), and DG-AF13S-3.5-4 (720-91048-29). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 720-259559 contained Thallium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds

Job ID: 720-91048-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

have been qualified with a "^" symbol.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259433 and analytical batch 720-259559 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected. The associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for Barium-136%, Beryllium-126%, Copper-131%, Lead-127%, and Vanadium-128% associated with batch 720-259559 were outside of control limits.

Method 6010B: The method blank for preparation batch 720-259433 and analytical batch 720-259559 contained Beryllium, Cobalt, Chromium, Lead, Antimony, and Thallium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target analyte recoveries passed criteria:(ICSA 720-259656/7) and (ICSAB 720-259656/8).

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259657 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 720-259657/4). Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The method blank for preparation batch 720-259430 and analytical batch 720-260050 contained Silver and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259430 and analytical batch 720-260050 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260050 was outside control limits for Arsenic-29%, Barium-29%, Cobalt-33%, Chromium-42%, Nickel-36%, Lead-31%, Thallium-37%, and Vanadium-35%: (720-91048-E-16-F SD)

Method 7471A: The matrix spike duplicate (MSD) recovery and precision for preparation batch 720-259407 and analytical batch 720-259552 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The following sample was diluted to bring the concentration of target analytes within the calibration range: DG-Y19S-3.5-4 (720-91048-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: Due to the matrix, the following sample could not be concentrated to the final method required volume and was volumed to 5 mL for method 8015B. DG-Y19S-0.5-1 (720-91048-4). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-Z17S-0.5-1 — Lab Sample ID: 720-91048-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	350	B	250	94	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	200	J B	250	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	120	J B	250	100	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	87	J B	250	69	ug/Kg	50		8270C SIM	Total/NA
Pyrene	210	J B	250	84	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	400		20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1200		490	98	mg/Kg	10		8015B	Total/NA
Antimony	2.6		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	6.7		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	84		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.59		0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	20		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	130		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	260	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.62	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	40		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.83	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Thallium	17		1.4	0.41	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	140		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z17S-3.5-4 — Lab Sample ID: 720-91048-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.2		0.85	0.43	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	220	J B	500	190	ug/Kg	100		8270C SIM	Total/NA
Benzo[b]fluoranthene	230	J B	500	210	ug/Kg	100		8270C SIM	Total/NA
Benzo[k]fluoranthene	210	J B	500	210	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1300		39	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4800		990	200	mg/Kg	20		8015B	Total/NA
Antimony	6.1		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	93		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	11		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	3.5		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	250		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	630	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.85	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	34		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.6	0.55	mg/Kg	4		6010B	Total/NA
Thallium	15		1.8	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	73		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.019		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z17S-7.5-8 — Lab Sample ID: 720-91048-3

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z17S-7.5-8 (Continued)

Lab Sample ID: 720-91048-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	39000		8600	6000	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
2-Methylnaphthalene	390	J	480	240	ug/Kg	50		8270C SIM	Total/NA
Acenaphthene	350		240	130	ug/Kg	50		8270C SIM	Total/NA
Acenaphthylene	130	J	240	110	ug/Kg	50		8270C SIM	Total/NA
Anthracene	190	J	240	95	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	130	J B	240	91	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	140	J B	240	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	110	J B	240	100	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	100	J B	240	67	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	550		240	86	ug/Kg	50		8270C SIM	Total/NA
Pyrene	290	B	240	81	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1800		19	7.2	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	990		480	96	mg/Kg	10		8015B	Total/NA
Antimony	1.8		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	5.1		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	45		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.35		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	33		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	35		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	15	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	28		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Thallium	16		1.4	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	42		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	62		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.041		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y19S-0.5-1

Lab Sample ID: 720-91048-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	240	J B	500	190	ug/Kg	100		8270C SIM	Total/NA
Benzo[b]fluoranthene	250	J B	500	210	ug/Kg	100		8270C SIM	Total/NA
Pyrene	170	J B	500	170	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1000		99	37	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	6400		2500	490	mg/Kg	20		8015B	Total/NA
Antimony	1.0	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	3.3	J	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	65		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J	0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	48		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	23		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	18	B	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	73		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.91	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Thallium	19		1.9	0.55	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y19S-0.5-1 (Continued) — Lab Sample ID: 720-91048-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	48		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	50		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.031		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y19S-3.5-4 — Lab Sample ID: 720-91048-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	53	J	96	48	ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	25	J	48	23	ug/Kg	10		8270C SIM	Total/NA
Anthracene	42	J	48	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	50		48	14	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	69	B	48	18	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	140	B	48	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	51		48	41	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	52	B	48	20	ug/Kg	10		8270C SIM	Total/NA
Chrysene	56		48	13	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	74	B	48	13	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	49	B	48	40	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	36	J	48	33	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	68		48	17	ug/Kg	10		8270C SIM	Total/NA
Pyrene	97	B	48	16	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	82		9.9	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	320		250	50	mg/Kg	5		8015B	Total/NA
Antimony	2.7		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	32		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	99		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.31	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.42	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	92		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	77		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	140	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	91		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Thallium	25		1.9	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	120		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	2.4		0.064	0.0094	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-Y19S-7.5-8 — Lab Sample ID: 720-91048-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	3.4	J B	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	3.6	J B	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.4	J B	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	2.0	J B	4.8	1.3	ug/Kg	1		8270C SIM	Total/NA
Pyrene	5.0	B	4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.5		2.0	0.73	mg/Kg	1		8015B	Total/NA
Antimony	2.0		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	2.0	J	4.0	0.34	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y19S-7.5-8 (Continued)

Lab Sample ID: 720-91048-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	90		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	57		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	10		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	2.7	B	2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	59		2.0	0.20	mg/Kg	4		6010B	Total/NA
Thallium	17		2.0	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	43		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	32		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.042		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V17S-0.5-1

Lab Sample ID: 720-91048-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	14	J	25	9.8	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	33		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	54	B	25	9.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	93	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	41		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	29	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	40		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	19	J B	25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	41	B	25	6.9	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	34	B	25	21	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	25		25	8.8	ug/Kg	5		8270C SIM	Total/NA
Pyrene	69	B	25	8.3	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	70		4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	210		99	20	mg/Kg	2		8015B	Total/NA
Antimony	4.6		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	89		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	2.9		0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	24		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	140		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	640	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.23	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	26		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	3.2	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Thallium	30		1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	2300		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V17S-3.5-4

Lab Sample ID: 720-91048-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.35	J	0.68	0.34	ug/Kg	1		8260B	Total/NA
Toluene	0.58	J	0.68	0.34	ug/Kg	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-V17S-3.5-4 (Continued) — Lab Sample ID: 720-91048-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	4.5	J B	4.8	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	5.1	B	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.2	J	4.8	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.1	J B	4.8	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	2.1	J	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.1	J B	4.8	1.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	1.9	J	4.8	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	5.1	B	4.8	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.1		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	16	J	50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	1.9	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	3.3	J	4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	64		2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.50	0.050	mg/Kg	4		6010B	Total/NA
Chromium	33		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	47		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	14	B	2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	21		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	4.0	0.60	mg/Kg	4		6010B	Total/NA
Thallium	32		2.0	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	81		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	62		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.028		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V17S-9.5-10 — Lab Sample ID: 720-91048-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	25		11	5.3	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	340		49	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthene	65		25	14	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	34		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	130		25	9.8	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	180		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	240	B	25	9.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	290	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	140		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	81	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	190		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	26	B	25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	540	B	25	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluorene	68		25	11	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	90	B	25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	290		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	380		25	8.8	ug/Kg	5		8270C SIM	Total/NA
Pyrene	770	B	25	8.3	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	170		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	210		49	9.7	mg/Kg	1		8015B	Total/NA
Antimony	6.7		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.9	0.33	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-V17S-9.5-10 (Continued) — Lab Sample ID: 720-91048-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	460		1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	2.0		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	37		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	440		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	4900	B	1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	39		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	2.4	J	3.9	0.58	mg/Kg	4		6010B	Total/NA
Silver	2.9	B	0.97	0.20	mg/Kg	4		6010B	Total/NA
Thallium	19		1.9	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	2100		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	1.0		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U15S-0.5-1 — Lab Sample ID: 720-91048-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	320		200	98	ug/Kg	20		8270C SIM	Total/NA
Anthracene	67	J	98	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	66	J B	98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	110	B	98	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	87	J	98	84	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	54	J B	98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	62	J	98	27	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	100	B	98	27	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	300		98	69	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	170		98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	130	B	98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	500		20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1800		490	98	mg/Kg	10		8015B	Total/NA
Aroclor 1260	78		50	17	ug/Kg	1		8082	Total/NA
Antimony	1.1	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	3.5		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	63		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.30	0.097	mg/Kg	4		6010B	Total/NA
Cadmium	0.42		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	14		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	72		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	160	B	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.83	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	16		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	280		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-122 — Lab Sample ID: 720-91048-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-122 (Continued)

Lab Sample ID: 720-91048-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	2.2	J	4.7	1.4	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.1	B	4.7	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	9.1	B	4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	6.3		4.7	4.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.9	J B	4.7	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	3.8	J	4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	8.4	B	4.7	1.3	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	5.7	B	4.7	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	4.1	J	4.7	1.7	ug/Kg	1		8270C SIM	Total/NA
Pyrene	11	B	4.7	1.6	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.4		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	19	J	49	9.9	mg/Kg	1		8015B	Total/NA
Antimony	1.5	J	1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	4.8		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	70		1.7	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.29	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	37		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	49		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	34	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	24		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Thallium	27		1.7	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	120		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.048		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-124

Lab Sample ID: 720-91048-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.80	J	0.89	0.45	ug/Kg	1		8260B	Total/NA
Anthracene	52	J	98	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	99	B	98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	110	B	98	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110		98	85	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	65	J B	98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	40	J	98	28	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	64	J B	98	28	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	43	J	98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	110	B	98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	590		9.9	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1300		250	50	mg/Kg	5		8015B	Total/NA
4,4'-DDE	3.3	J p	3.8	0.79	ug/Kg	2		8081A	Total/NA
4,4'-DDT	0.88	J p	3.8	0.77	ug/Kg	2		8081A	Total/NA
Endrin ketone	0.70	J p	3.8	0.62	ug/Kg	2		8081A	Total/NA
Antimony	3.6		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	10		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	66		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.63		0.43	0.043	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-124 (Continued)

Lab Sample ID: 720-91048-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	25		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	230		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	270	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	2.1		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	37		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	3.4	0.52	mg/Kg	4		6010B	Total/NA
Silver	0.29	J B	0.86	0.17	mg/Kg	4		6010B	Total/NA
Thallium	26		1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	160		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U15S-3.5-4

Lab Sample ID: 720-91048-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.45	J	0.79	0.40	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	12	J	19	9.6	ug/Kg	2		8270C SIM	Total/NA
Anthracene	4.6	J	9.6	3.8	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	8.0	J B	9.6	3.6	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	9.9	B	9.6	4.0	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.6	J	9.6	8.2	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.2	J B	9.6	4.0	ug/Kg	2		8270C SIM	Total/NA
Chrysene	3.9	J	9.6	2.7	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	6.5	J B	9.6	2.7	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	9.0	J	9.6	6.7	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	5.6	J	9.6	3.4	ug/Kg	2		8270C SIM	Total/NA
Pyrene	9.0	J B	9.6	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	20		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	66		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	1.1	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	2.6	J	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	27		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.17	J	0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	14		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	100		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	24	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	8.4		1.8	0.18	mg/Kg	4		6010B	Total/NA
Thallium	34		1.8	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	54		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.058		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U15S-8.5-9

Lab Sample ID: 720-91048-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	1000		88	62	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Carbon disulfide	1.2	J	1.8	0.88	ug/Kg	1		8260B	Total/NA
Anthracene	120	J	240	97	ug/Kg	50		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-U15S-8.5-9 (Continued)

Lab Sample ID: 720-91048-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	150	J B	240	92	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	180	J B	240	100	ug/Kg	50		8270C SIM	Total/NA
Pyrene	280	B	240	82	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2400		20	7.3	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	3100		490	98	mg/Kg	10		8015B	Total/NA
Antimony	1.6	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	7.1		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	55		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.43		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	28		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	26		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	8.1	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	28		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	3.6	0.55	mg/Kg	4		6010B	Total/NA
Thallium	14		1.8	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	47		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T17S-0.5-1

Lab Sample ID: 720-91048-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	28000		9800	6900	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	450		98	49	ug/Kg	100		8260B	Total/NA
1,3,5-Trimethylbenzene	99		98	49	ug/Kg	100		8260B	Total/NA
4-Isopropyltoluene	720		98	49	ug/Kg	100		8260B	Total/NA
Benzene	450		98	49	ug/Kg	100		8260B	Total/NA
Ethylbenzene	280		98	49	ug/Kg	100		8260B	Total/NA
Isopropylbenzene	62	J	98	49	ug/Kg	100		8260B	Total/NA
Naphthalene	260		250	98	ug/Kg	100		8260B	Total/NA
N-Propylbenzene	56	J	98	49	ug/Kg	100		8260B	Total/NA
Toluene	1600		98	49	ug/Kg	100		8260B	Total/NA
Xylenes, Total	1700		200	98	ug/Kg	100		8260B	Total/NA
2-Methylnaphthalene	2100		500	250	ug/Kg	50		8270C SIM	Total/NA
Acenaphthylene	140	J	250	120	ug/Kg	50		8270C SIM	Total/NA
Anthracene	330		250	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]anthracene	350		250	75	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	210	J B	250	95	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	410	B	250	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	170	J B	250	100	ug/Kg	50		8270C SIM	Total/NA
Chrysene	340		250	70	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	740	B	250	70	ug/Kg	50		8270C SIM	Total/NA
Naphthalene	1300		250	170	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	740		250	90	ug/Kg	50		8270C SIM	Total/NA
Pyrene	630	B	250	85	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1200		99	37	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	3400		2500	490	mg/Kg	50		8015B	Total/NA
4,4'-DDE	2.6	J	3.9	0.83	ug/Kg	2		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T17S-0.5-1 (Continued) — Lab Sample ID: 720-91048-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1260	33	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	1.2	J	7.5	1.2	mg/Kg	20		6010B	Total/NA
Arsenic	4.2	J	15	1.3	mg/Kg	20		6010B	Total/NA
Barium	140		7.5	1.1	mg/Kg	20		6010B	Total/NA
Cadmium	0.57	J	1.9	0.19	mg/Kg	20		6010B	Total/NA
Chromium	27		7.5	0.79	mg/Kg	20		6010B	Total/NA
Cobalt	5.9		3.0	0.30	mg/Kg	20		6010B	Total/NA
Copper	55		22	11	mg/Kg	20		6010B	Total/NA
Lead	110	B	7.5	1.6	mg/Kg	20		6010B	Total/NA
Nickel	26		7.5	0.76	mg/Kg	20		6010B	Total/NA
Selenium	2.6	J	15	2.2	mg/Kg	20		6010B	Total/NA
Thallium	13		7.5	2.2	mg/Kg	20		6010B	Total/NA
Vanadium	34		7.5	1.0	mg/Kg	20		6010B	Total/NA
Zinc	110		22	9.5	mg/Kg	20		6010B	Total/NA
Mercury	0.073		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T17S-3.5-4 — Lab Sample ID: 720-91048-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	34	J F1	49	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	18	J	49	15	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	41	J F1 B	49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	78	B	49	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	36	J F1 B	49	20	ug/Kg	10		8270C SIM	Total/NA
Chrysene	28	J F1	49	14	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	46	J F1 B	49	14	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	24	J F1	49	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	54	B	49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	59		5.9	2.2	mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	200		150	30	mg/Kg	3		8015B	Total/NA
Dieldrin	0.94	J	1.9	0.57	ug/Kg	1		8081A	Total/NA
Antimony	0.81	J F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	23		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	68		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.39	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	13		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	120		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	95	B F1	1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.37	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	11		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Thallium	39		1.9	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	99	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	71		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.091		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-T17S-7-7.5 — Lab Sample ID: 720-91048-17

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-T17S-7-7.5 (Continued)

Lab Sample ID: 720-91048-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	19		10	5.0	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	200		97	48	ug/Kg	10		8270C SIM	Total/NA
Anthracene	87		48	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	140		48	14	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	230	B	48	18	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	400	B	48	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	130		48	42	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	98	B	48	20	ug/Kg	10		8270C SIM	Total/NA
Chrysene	170		48	14	ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	69	B	48	34	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	270	B	48	14	ug/Kg	10		8270C SIM	Total/NA
Fluorene	61		48	21	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	100	B	48	41	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	480		48	34	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	260		48	17	ug/Kg	10		8270C SIM	Total/NA
Pyrene	240	B	48	16	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	940		19	7.3	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	900		490	97	mg/Kg	10		8015B	Total/NA
Antimony	2.3		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	400		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.90		0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	2.1		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	34		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	2300		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	3300	B	1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	26		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	2.4	B	0.88	0.18	mg/Kg	4		6010B	Total/NA
Thallium	20		1.8	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	1000		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	1.2		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W15S-0.5-1

Lab Sample ID: 720-91048-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.53	J	0.93	0.46	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	540	J B	990	380	ug/Kg	200		8270C SIM	Total/NA
Benzo[b]fluoranthene	610	J B	990	420	ug/Kg	200		8270C SIM	Total/NA
Benzo[k]fluoranthene	480	J B	990	420	ug/Kg	200		8270C SIM	Total/NA
Fluoranthene	350	J B	990	280	ug/Kg	200		8270C SIM	Total/NA
Pyrene	490	J B	990	340	ug/Kg	200		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	700		39	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2900		980	200	mg/Kg	20		8015B	Total/NA
Antimony	1.7	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	1.9	J	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	83		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.48	0.047	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W15S-0.5-1 (Continued) — Lab Sample ID: 720-91048-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	26		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	37		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	23	B	1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	28		1.9	0.19	mg/Kg	4		6010B	Total/NA
Thallium	22		1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	58		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W15S-3.5-4 — Lab Sample ID: 720-91048-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.68	J	1.2	0.58	ug/Kg	1		8260B	Total/NA
Benzo[a]pyrene	260	J F1	490	190	ug/Kg	100		8270C SIM	Total/NA
Benzo[b]fluoranthene	260	J F1	490	210	ug/Kg	100		8270C SIM	Total/NA
Benzo[k]fluoranthene	210	J	490	210	ug/Kg	100		8270C SIM	Total/NA
Pyrene	580		490	170	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2200		39	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4400		990	200	mg/Kg	20		8015B	Total/NA
Antimony	1.2	J B F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	3.9	F1	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	57	F1	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J B F1	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J F1	0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	13	B F1	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	4.3	B F1	0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	80	F1 F2	5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	110	B F1	1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	19	F1	1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.20	J F1	0.95	0.19	mg/Kg	4		6010B	Total/NA
Thallium	0.93	J B ^ F1	1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	30	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	45	F1	5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.047		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X17S-0.5-1 — Lab Sample ID: 720-91048-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	230	J B	500	190	ug/Kg	100		8270C SIM	Total/NA
Benzo[b]fluoranthene	250	J B	500	210	ug/Kg	100		8270C SIM	Total/NA
Benzo[k]fluoranthene	210	J B	500	210	ug/Kg	100		8270C SIM	Total/NA
Pyrene	200	J B	500	170	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	420		20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1600		490	98	mg/Kg	10		8015B	Total/NA
Antimony	0.73	J B	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	4.3		2.6	0.23	mg/Kg	4		6010B	Total/NA
Barium	95		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J B	0.26	0.086	mg/Kg	4		6010B	Total/NA
Cadmium	0.16	J	0.33	0.033	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X17S-0.5-1 (Continued)

Lab Sample ID: 720-91048-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	26	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	6.1	B	0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	62		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	55	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.36	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	32		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.90	J	2.6	0.40	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	56		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.061		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X17S-3.5-4

Lab Sample ID: 720-91048-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	550	J B	980	370	ug/Kg	200		8270C SIM	Total/NA
Benzo[b]fluoranthene	550	J	980	410	ug/Kg	200		8270C SIM	Total/NA
Benzo[k]fluoranthene	450	J B	980	410	ug/Kg	200		8270C SIM	Total/NA
Fluoranthene	270	J	980	270	ug/Kg	200		8270C SIM	Total/NA
Pyrene	560	J	980	330	ug/Kg	200		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1500		97	36	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4600		2400	490	mg/Kg	50		8015B	Total/NA
Antimony	33	B	4.7	0.78	mg/Kg	10		6010B	Total/NA
Arsenic	40		9.4	0.80	mg/Kg	10		6010B	Total/NA
Barium	63		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	13		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	53	B	4.7	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	12	B	1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	730		14	6.7	mg/Kg	10		6010B	Total/NA
Lead	17000	B	4.7	0.99	mg/Kg	10		6010B	Total/NA
Molybdenum	1.7	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	59		4.7	0.48	mg/Kg	10		6010B	Total/NA
Selenium	4.0	J	9.4	1.4	mg/Kg	10		6010B	Total/NA
Silver	5.3		2.4	0.48	mg/Kg	10		6010B	Total/NA
Vanadium	36		4.7	0.64	mg/Kg	10		6010B	Total/NA
Zinc	5700		14	6.0	mg/Kg	10		6010B	Total/NA
Mercury	0.073		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R13S-0.5-1

Lab Sample ID: 720-91048-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	30000		18000	12000	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	310		180	88	ug/Kg	100		8260B	Total/NA
1,3,5-Trimethylbenzene	350		180	88	ug/Kg	100		8260B	Total/NA
Benzene	2300		180	88	ug/Kg	100		8260B	Total/NA
Ethylbenzene	210		180	88	ug/Kg	100		8260B	Total/NA
Naphthalene	830		440	180	ug/Kg	100		8260B	Total/NA
Toluene	4200		180	88	ug/Kg	100		8260B	Total/NA
Xylenes, Total	4300		350	180	ug/Kg	100		8260B	Total/NA
2-Methylnaphthalene	3300		200	98	ug/Kg	20		8270C SIM	Total/NA
Acenaphthylene	49	J	98	47	ug/Kg	20		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R13S-0.5-1 (Continued)

Lab Sample ID: 720-91048-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	150		98	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	300		98	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	200	B	98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	470		98	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	160		98	84	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	110	B	98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	620		98	27	ug/Kg	20		8270C SIM	Total/NA
Dibenz(a,h)anthracene	140		98	68	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	240		98	27	ug/Kg	20		8270C SIM	Total/NA
Fluorene	130		98	43	ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	120		98	82	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	1500		98	68	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	1400		98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	330		98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	350		20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	870		490	98	mg/Kg	10		8015B	Total/NA
Antimony	54	B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	7.9		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	110		1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.47	B	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	28	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13	B	0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	490		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	1100	B	1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	37		1.7	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.23	J	0.87	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	130		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.066		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-108

Lab Sample ID: 720-91048-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	130	J B	240	93	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	140	J	240	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	120	J B	240	100	ug/Kg	50		8270C SIM	Total/NA
Pyrene	100	J	240	83	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	510		39	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2600		990	200	mg/Kg	20		8015B	Total/NA
Antimony	1.2	J B	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	5.6		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	85		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J B	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.061	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	30	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11	B	0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	36		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	13	B	1.8	0.37	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-108 (Continued)

Lab Sample ID: 720-91048-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	40		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	53		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.0083	J	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-121

Lab Sample ID: 720-91048-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	190		100	72	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
2-Butanone (MEK)	18		10	5.2	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	260		99	49	ug/Kg	10		8270C SIM	Total/NA
Anthracene	85		49	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	220		49	15	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	180	B	49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	480		49	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110		49	42	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	120	B	49	21	ug/Kg	10		8270C SIM	Total/NA
Chrysene	290		49	14	ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	53		49	35	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	350		49	14	ug/Kg	10		8270C SIM	Total/NA
Fluorene	68		49	22	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	110		49	42	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	470		49	35	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	320		49	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	370		49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	420		9.7	3.6	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	450		240	49	mg/Kg	5		8015B	Total/NA
Antimony	1.1	J B	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	14		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	540		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	1.6	B	0.26	0.085	mg/Kg	4		6010B	Total/NA
Cadmium	2.3		0.33	0.032	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	8.8	B	0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	89		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	1600	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	23		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	0.51	J	0.65	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	450		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.86		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R13S-3.5-4

Lab Sample ID: 720-91048-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		0.86	0.43	ug/Kg	1		8260B	Total/NA
Toluene	0.67	J	0.86	0.43	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	72		9.7	4.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	3.3	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R13S-3.5-4 (Continued)

Lab Sample ID: 720-91048-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	6.8		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	7.9	B	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	16		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.8	J	4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.2	J B	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	13		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.0	J	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	7.1		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.1	J	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	32		4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	32		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	9.5		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	24		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	59		50	9.9	mg/Kg	1		8015B	Total/NA
Antimony	0.93	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	1.1	J	3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	170		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J B	0.33	0.11	mg/Kg	4		6010B	Total/NA
Chromium	64	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	17	B	0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	27		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	13	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	28		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.71	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Thallium	0.85	J B	1.6	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	44		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z13S-0.5-1

Lab Sample ID: 720-91048-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	100		100	72	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Benzene	0.60	J	1.0	0.51	ug/Kg	1		8260B	Total/NA
Ethylbenzene	0.91	J	1.0	0.51	ug/Kg	1		8260B	Total/NA
Naphthalene	5.1		2.1	1.0	ug/Kg	1		8260B	Total/NA
Toluene	2.7		1.0	0.51	ug/Kg	1		8260B	Total/NA
Xylenes, Total	12		2.1	1.3	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	16		10	5.1	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	110		99	49	ug/Kg	10		8270C SIM	Total/NA
Anthracene	29	J	49	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	24	J B	49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	32	J	49	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	24	J B	49	21	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	21	J	49	14	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	37	J	49	35	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	86		49	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	40	J	49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1000		20	7.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	200	J	490	98	mg/Kg	10		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z13S-0.5-1 (Continued)

Lab Sample ID: 720-91048-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	4.5		2.0	0.41	ug/Kg	1		8081A	Total/NA
Arsenic	7.0		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	330		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J B	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	28	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	4.2	B	0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	39		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	32	B	1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.66	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	18		1.8	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	65		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.022	F1 F2	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z13S-3.5-4

Lab Sample ID: 720-91048-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	150		49	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	12	J	24	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	25		24	9.8	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	18	J B	24	9.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	40		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	21	J	24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	15	J B	24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	21	J	24	6.8	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	20	J	24	6.8	ug/Kg	5		8270C SIM	Total/NA
Fluorene	37		24	11	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	35		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	54		24	8.8	ug/Kg	5		8270C SIM	Total/NA
Pyrene	36		24	8.3	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	290		9.7	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	280		240	49	mg/Kg	5		8015B	Total/NA
4,4'-DDE	0.69	J p	2.0	0.42	ug/Kg	1		8081A	Total/NA
Antimony	5.9	B	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	350		1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.88	B	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.33	J	0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	55	B	1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	16	B	0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	160		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	550	B	1.9	0.41	mg/Kg	4		6010B	Total/NA
Nickel	55		1.9	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.41	J	0.97	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	630		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.22		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF13S-0.5-1

Lab Sample ID: 720-91048-28

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AF13S-0.5-1 (Continued)

Lab Sample ID: 720-91048-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	860	J B	980	370	ug/Kg	200		8270C SIM	Total/NA
Benzo[b]fluoranthene	670	J	980	410	ug/Kg	200		8270C SIM	Total/NA
Benzo[k]fluoranthene	440	J B	980	410	ug/Kg	200		8270C SIM	Total/NA
Pyrene	1000		980	330	ug/Kg	200		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1500		98	37	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	3700		2500	490	mg/Kg	50		8015B	Total/NA
4,4'-DDE	2.2	J p	4.0	0.83	ug/Kg	2		8081A	Total/NA
4,4'-DDT	14		4.0	0.81	ug/Kg	2		8081A	Total/NA
alpha-Chlordane	4.5		4.0	0.79	ug/Kg	2		8081A	Total/NA
Chlordane (technical)	64	J	79	6.3	ug/Kg	2		8081A	Total/NA
gamma-Chlordane	4.5		4.0	0.91	ug/Kg	2		8081A	Total/NA
Aroclor 1260	41	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	0.97	J B	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	5.6		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	120		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J B	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.26	J	0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	40	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	7.9	B	0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	40		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	120	B	2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	40		2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.60	J	3.9	0.59	mg/Kg	4		6010B	Total/NA
Thallium	0.86	J B	2.0	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	39		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	110		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.058		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF13S-3.5-4

Lab Sample ID: 720-91048-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	6.2	J	9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	24		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	39	B	9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	52		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	15		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	21	B	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	24		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	8.2	J	9.8	6.9	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	31		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	13		9.8	8.2	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	16		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	52		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	22		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	52		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	3.3	B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	46		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	85		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.54		0.43	0.043	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AF13S-3.5-4 (Continued)

Lab Sample ID: 720-91048-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	29	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	4.8	B	0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	110		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	360	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	22		1.7	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.57	J	0.86	0.17	mg/Kg	4		6010B	Total/NA
Thallium	0.53	J B	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	21		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	370		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.19		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z17S-0.5-1

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		94	66	ug/Kg		01/28/19 19:00	01/31/19 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/28/19 19:00*	*01/31/19 14:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/28/19 19:00*	*01/31/19 14:12*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*01/31/19 14:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.4	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,1,1-Trichloroethane	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,1,2-Trichloroethane	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,1-Dichloroethane	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,1-Dichloropropene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,2,3-Trichlorobenzene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,2,4-Trichlorobenzene	ND		4.7	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,2,4-Trimethylbenzene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,2-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,2-Dichloroethane	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,2-Dichloropropane	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,3,5-Trimethylbenzene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,3-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,3-Dichloropropane	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,4-Dichlorobenzene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
2-Chlorotoluene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
2-Hexanone	ND		9.4	4.7	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
4-Chlorotoluene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
4-Isopropyltoluene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Benzene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Bromobenzene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Bromoform	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Bromomethane	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Carbon disulfide	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Chlorobenzene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Chlorobromomethane	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Chloroethane	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Chloroform	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Chloromethane	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
cis-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
cis-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Chlorodibromomethane	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Dibromomethane	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Dichlorobromomethane	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1

Client Sample ID: DG-Z17S-0.5-1

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Ethylbenzene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Hexachlorobutadiene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Isopropylbenzene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Methylene Chloride	ND		9.4	4.7	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Methyl tert-butyl ether	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
n-Butylbenzene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
N-Propylbenzene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
sec-Butylbenzene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Styrene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
tert-Butylbenzene	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Tetrachloroethene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Toluene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
trans-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
trans-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Trichloroethene	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Trichlorofluoromethane	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.4	4.7	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Vinyl acetate	ND		7.5	3.7	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Vinyl chloride	ND		1.9	0.94	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
Ethylene Dibromide	ND		0.94	0.47	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		01/28/19 19:00	01/31/19 14:12	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.3	ug/Kg		01/28/19 19:00	01/31/19 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*01/31/19 14:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*01/28/19 19:00*	*01/31/19 14:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/28/19 19:00*	*02/01/19 13:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/28/19 19:00*	*02/01/19 13:38*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		490	250	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Acenaphthene	ND		250	140	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Acenaphthylene	ND		250	120	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Anthracene	ND		250	99	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Benzo[a]anthracene	ND		250	74	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Benzo[a]pyrene	**350**	**B**	250	94	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Benzo[b]fluoranthene	**200**	**J B**	250	100	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Benzo[g,h,i]perylene	ND		250	210	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Benzo[k]fluoranthene	**120**	**J B**	250	100	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Chrysene	ND		250	69	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Dibenz(a,h)anthracene	ND		250	170	ug/Kg		01/31/19 15:15	02/08/19 10:43	50

Client Sample ID: DG-Z17S-0.5-1

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-1

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**87**	**J B**	250	69	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Fluorene	ND		250	110	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Indeno[1,2,3-cd]pyrene	ND		250	210	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Naphthalene	ND		250	170	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Phenanthrene	ND		250	89	ug/Kg		01/31/19 15:15	02/08/19 10:43	50
Pyrene	**210**	**J B**	250	84	ug/Kg		01/31/19 15:15	02/08/19 10:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*01/31/19 15:15*	*02/08/19 10:43*	*50*
Terphenyl-d14	*115*		*35 - 146*	*01/31/19 15:15*	*02/08/19 10:43*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**400**		20	7.4	mg/Kg		01/31/19 13:40	02/09/19 15:23	10
Motor Oil Range Organics [C24-C36]	**1200**		490	98	mg/Kg		01/31/19 13:40	02/09/19 15:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/31/19 13:40*	*02/09/19 15:23*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	1.2	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
4,4'-DDE	ND		3.8	0.80	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
4,4'-DDT	ND		3.8	0.78	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Aldrin	ND		3.8	0.95	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
alpha-BHC	ND		3.8	1.0	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
alpha-Chlordane	ND		3.8	0.76	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
beta-BHC	ND		3.8	0.68	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Chlordane (technical)	ND		76	6.1	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
delta-BHC	ND		3.8	0.84	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Dieldrin	ND		3.8	1.1	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Endosulfan I	ND		3.8	0.61	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Endosulfan II	ND		3.8	0.93	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Endosulfan sulfate	ND		3.8	0.72	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Endrin	ND		3.8	0.87	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Endrin aldehyde	ND		3.8	1.2	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Endrin ketone	ND		3.8	0.63	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
gamma-BHC (Lindane)	ND		3.8	1.2	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
gamma-Chlordane	ND		3.8	0.87	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Heptachlor	ND		3.8	0.87	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Heptachlor epoxide	ND		3.8	0.66	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Methoxychlor	ND		3.8	1.3	ug/Kg		01/30/19 14:45	02/05/19 13:12	2
Toxaphene	ND		76	13	ug/Kg		01/30/19 14:45	02/05/19 13:12	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*21 - 136*	*01/30/19 14:45*	*02/05/19 13:12*	*2*
Tetrachloro-m-xylene	*90*		*21 - 145*	*01/30/19 14:45*	*02/05/19 13:12*	*2*

Client Sample ID: DG-Z17S-0.5-1

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-1

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 17:36	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 17:36	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 17:36	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 17:36	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 17:36	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 17:36	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*173*	*X*	*45 - 120*	*01/31/19 13:24*	*02/01/19 17:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.6**		1.4	0.24	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Arsenic	**6.7**		2.9	0.24	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Barium	**84**		1.4	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Beryllium	ND		0.29	0.093	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Cadmium	**0.59**		0.36	0.035	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Chromium	**20**		1.4	0.15	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Cobalt	**7.1**		0.57	0.057	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Copper	**130**		4.3	2.0	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Lead	**260**	**B**	1.4	0.30	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Molybdenum	**0.62**	**J**	1.4	0.18	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Nickel	**40**		1.4	0.15	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Selenium	**0.83**	**J**	2.9	0.43	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Silver	ND		0.71	0.14	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Thallium	**17**		1.4	0.41	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Vanadium	**43**		1.4	0.19	mg/Kg		01/29/19 17:33	02/07/19 20:15	4
Zinc	**140**		4.3	1.8	mg/Kg		01/29/19 17:33	02/07/19 20:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.016	0.0023	mg/Kg		01/29/19 11:04	02/11/19 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.6**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-Z17S-3.5-4

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	60	ug/Kg		01/28/19 19:00	01/31/19 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/28/19 19:00*	*01/31/19 14:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/28/19 19:00*	*01/31/19 14:37*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/28/19 19:00*	*01/31/19 14:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,1,1-Trichloroethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,1,2-Trichloroethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,1-Dichloroethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,1-Dichloropropene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,2,4-Trichlorobenzene	ND		4.3	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,2-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,2-Dichloroethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,2-Dichloropropane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,3-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,3-Dichloropropane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,4-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
2-Hexanone	ND		8.5	4.3	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
4-Isopropyltoluene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Benzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Bromobenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Bromoform	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Bromomethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Chlorobenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Chloroethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Chloroform	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Chloromethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
cis-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
cis-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Chlorodibromomethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Dibromomethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Dichlorobromomethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1

Client Sample ID: DG-Z17S-3.5-4
Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Ethylbenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Isopropylbenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Methylene Chloride	ND		8.5	4.3	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Naphthalene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
N-Propylbenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Styrene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Tetrachloroethene	**2.2**		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Toluene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
trans-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
trans-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Trichloroethene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.3	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
Ethylene Dibromide	ND		0.85	0.43	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
2-Butanone (MEK)	ND		8.5	4.3	ug/Kg		01/28/19 19:00	01/31/19 14:37	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		01/28/19 19:00	01/31/19 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/28/19 19:00*	*01/31/19 14:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/28/19 19:00*	*01/31/19 14:37*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		990	500	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Acenaphthene	ND		500	280	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Acenaphthylene	ND		500	240	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Anthracene	ND		500	200	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Benzo[a]anthracene	ND		500	150	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Benzo[a]pyrene	**220**	**J B**	500	190	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Benzo[b]fluoranthene	**230**	**J B**	500	210	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Benzo[g,h,i]perylene	ND		500	430	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Benzo[k]fluoranthene	**210**	**J B**	500	210	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Chrysene	ND		500	140	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Dibenz(a,h)anthracene	ND		500	350	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Fluoranthene	ND		500	140	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Fluorene	ND		500	220	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Indeno[1,2,3-cd]pyrene	ND		500	420	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Naphthalene	ND		500	350	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Phenanthrene	ND		500	180	ug/Kg		01/31/19 15:15	02/08/19 11:06	100
Pyrene	ND		500	170	ug/Kg		01/31/19 15:15	02/08/19 11:06	100

Client Sample ID: DG-Z17S-3.5-4

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*01/31/19 15:15*	*02/08/19 11:06*	*100*
Terphenyl-d14	*131*		*35 - 146*	*01/31/19 15:15*	*02/08/19 11:06*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1300**		39	15	mg/Kg		01/31/19 13:40	02/09/19 15:53	20
Motor Oil Range Organics [C24-C36]	**4800**		990	200	mg/Kg		01/31/19 13:40	02/09/19 15:53	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/31/19 13:40*	*02/09/19 15:53*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.8	3.0	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
4,4'-DDE	ND		9.8	2.0	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
4,4'-DDT	ND		9.8	2.0	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Aldrin	ND		9.8	2.4	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
alpha-BHC	ND		9.8	2.7	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
alpha-Chlordane	ND		9.8	2.0	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
beta-BHC	ND		9.8	1.8	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Chlordane (technical)	ND		200	16	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
delta-BHC	ND		9.8	2.1	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Dieldrin	ND		9.8	2.9	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Endosulfan I	ND		9.8	1.6	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Endosulfan II	ND		9.8	2.4	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Endosulfan sulfate	ND		9.8	1.9	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Endrin	ND		9.8	2.2	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Endrin aldehyde	ND		9.8	3.1	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Endrin ketone	ND		9.8	1.6	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
gamma-BHC (Lindane)	ND		9.8	3.1	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
gamma-Chlordane	ND		9.8	2.2	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Heptachlor	ND		9.8	2.2	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Heptachlor epoxide	ND		9.8	1.7	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Methoxychlor	ND		9.8	3.3	ug/Kg		01/30/19 14:45	02/05/19 12:16	5
Toxaphene	ND		200	33	ug/Kg		01/30/19 14:45	02/05/19 12:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*21 - 136*	*01/30/19 14:45*	*02/05/19 12:16*	*5*
Tetrachloro-m-xylene	*63*		*21 - 145*	*01/30/19 14:45*	*02/05/19 12:16*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:49	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:49	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:49	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:49	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:49	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:49	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-Z17S-3.5-4

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*01/31/19 13:24*	*02/01/19 17:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**6.1**		1.8	0.30	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Arsenic	**12**		3.6	0.31	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Barium	**93**		1.8	0.26	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Beryllium	ND		0.36	0.12	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Cadmium	**0.46**		0.45	0.045	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Chromium	**11**		1.8	0.19	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Cobalt	**3.5**		0.73	0.073	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Copper	**250**		5.5	2.6	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Lead	**630**	**B**	1.8	0.38	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Molybdenum	**0.85**	**J**	1.8	0.23	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Nickel	**34**		1.8	0.19	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Selenium	**1.6**	**J**	3.6	0.55	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Silver	ND		0.91	0.18	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Thallium	**15**		1.8	0.53	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Vanadium	**38**		1.8	0.25	mg/Kg		01/29/19 17:33	02/07/19 20:20	4
Zinc	**73**		5.5	2.3	mg/Kg		01/29/19 17:33	02/07/19 20:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.016	0.0024	mg/Kg		01/29/19 11:04	02/11/19 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.9**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-Z17S-7.5-8

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	39000		8600	6000	ug/Kg		01/30/19 15:42	02/05/19 14:30	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*	*01/30/19 15:42*	*02/05/19 14:30*	*100*
4-Bromofluorobenzene (Surr)	*91*		*65 - 140*	*01/30/19 15:42*	*02/05/19 14:30*	*100*
Toluene-d8 (Surr)	*108*		*60 - 140*	*01/30/19 15:42*	*02/05/19 14:30*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		430	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,1,1,2-Tetrachloroethane	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,1,1-Trichloroethane	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,1,2,2-Tetrachloroethane	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,1,2-Trichloroethane	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,1-Dichloroethane	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,1-Dichloroethene	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,1-Dichloropropene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,2,3-Trichlorobenzene	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,2,4-Trichlorobenzene	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,2,4-Trimethylbenzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,2-Dibromo-3-Chloropropane	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,2-Dichlorobenzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,2-Dichloroethane	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,3,5-Trimethylbenzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,3-Dichlorobenzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,3-Dichloropropane	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,4-Dichlorobenzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
2,2-Dichloropropane	ND		170	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
2-Chlorotoluene	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
2-Hexanone	ND		1100	430	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
4-Chlorotoluene	ND		220	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
4-Isopropyltoluene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Benzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Bromobenzene	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Bromoform	ND	*	220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Bromomethane	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Carbon disulfide	ND		220	110	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Carbon tetrachloride	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Chlorobenzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Chlorobromomethane	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Chloroethane	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Chloroform	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Chloromethane	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
cis-1,2-Dichloroethene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
cis-1,3-Dichloropropene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Chlorodibromomethane	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Dibromomethane	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Dichlorobromomethane	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Dichlorodifluoromethane	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100

Client Sample ID: DG-Z17S-7.5-8

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Hexachlorobutadiene	ND	*	220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Isopropylbenzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Methylene Chloride	ND		860	430	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Methyl tert-butyl ether	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Naphthalene	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
n-Butylbenzene	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
N-Propylbenzene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
sec-Butylbenzene	ND		220	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Styrene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
tert-Butylbenzene	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Tetrachloroethene	ND	*	86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Toluene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
trans-1,2-Dichloroethene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
trans-1,3-Dichloropropene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Trichloroethene	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Trichlorofluoromethane	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		430	170	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Vinyl acetate	ND		430	220	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Vinyl chloride	ND		220	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Xylenes, Total	ND		170	86	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
Ethylene Dibromide	ND		86	43	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
2-Butanone (MEK)	ND		860	430	ug/Kg		01/30/19 15:42	02/05/19 14:30	100
4-Methyl-2-pentanone (MIBK)	ND		430	170	ug/Kg		01/30/19 15:42	02/05/19 14:30	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*60 - 140*	*01/30/19 15:42*	*02/05/19 14:30*	*100*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*01/30/19 15:42*	*02/05/19 14:30*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		86	43	ug/Kg		01/30/19 15:42	01/31/19 17:11	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*60 - 140*	*01/30/19 15:42*	*01/31/19 17:11*	*100*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*	*01/30/19 15:42*	*01/31/19 17:11*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**390**	**J**	480	240	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Acenaphthene	**350**		240	130	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Acenaphthylene	**130**	**J**	240	110	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Anthracene	**190**	**J**	240	95	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Benzo[a]anthracene	ND		240	71	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Benzo[a]pyrene	**130**	**J B**	240	91	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Benzo[b]fluoranthene	**140**	**J B**	240	100	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Benzo[g,h,i]perylene	ND		240	200	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Benzo[k]fluoranthene	**110**	**J B**	240	100	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Chrysene	ND		240	67	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Dibenz(a,h)anthracene	ND		240	170	ug/Kg		01/31/19 15:15	02/08/19 11:30	50

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Lab Sample ID: 720-91048-3

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**100**	**J B**	240	67	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Fluorene	ND		240	100	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Indeno[1,2,3-cd]pyrene	ND		240	200	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Naphthalene	ND		240	170	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Phenanthrene	**550**		240	86	ug/Kg		01/31/19 15:15	02/08/19 11:30	50
Pyrene	**290**	**B**	240	81	ug/Kg		01/31/19 15:15	02/08/19 11:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*01/31/19 15:15*	*02/08/19 11:30*	*50*
Terphenyl-d14	*102*		*35 - 146*	*01/31/19 15:15*	*02/08/19 11:30*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1800**		19	7.2	mg/Kg		01/31/19 13:40	02/09/19 16:22	10
Motor Oil Range Organics [C24-C36]	**990**		480	96	mg/Kg		01/31/19 13:40	02/09/19 16:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/31/19 13:40*	*02/09/19 16:22*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Aldrin	ND		2.0	0.50	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Endrin	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/30/19 14:45	02/05/19 12:33	1
Toxaphene	ND		40	6.8	ug/Kg		01/30/19 14:45	02/05/19 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*01/30/19 14:45*	*02/05/19 12:33*	*1*
Tetrachloro-m-xylene	*76*		*21 - 145*	*01/30/19 14:45*	*02/05/19 12:33*	*1*

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Lab Sample ID: 720-91048-3

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:02	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:02	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:02	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:02	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:02	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:02	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/31/19 13:24*	*02/01/19 18:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.8**		1.4	0.24	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Arsenic	**5.1**		2.9	0.24	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Barium	**45**		1.4	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Beryllium	**0.35**		0.29	0.094	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Cadmium	**0.24**	**J**	0.36	0.036	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Chromium	**33**		1.4	0.15	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Cobalt	**12**		0.58	0.058	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Copper	**35**		4.3	2.0	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Lead	**15**	**B**	1.4	0.30	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Nickel	**28**		1.4	0.15	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Selenium	**1.7**	**J**	2.9	0.43	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Silver	ND		0.72	0.15	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Thallium	**16**		1.4	0.42	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Vanadium	**42**		1.4	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:25	4
Zinc	**62**		4.3	1.8	mg/Kg		01/29/19 17:33	02/07/19 20:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.016	0.0023	mg/Kg		01/29/19 11:04	02/11/19 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		0.1	0.05	%			01/30/19 13:54	1

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Lab Sample ID: 720-91048-4
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	60	ug/Kg		01/28/19 19:00	02/01/19 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/28/19 19:00*	*02/01/19 05:27*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/28/19 19:00*	*02/01/19 05:27*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/28/19 19:00*	*02/01/19 05:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.0	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,1,1-Trichloroethane	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,1,2-Trichloroethane	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,1-Dichloroethane	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,1-Dichloroethene	ND		1.8	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,1-Dichloropropene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,2,3-Trichlorobenzene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,2,4-Trichlorobenzene	ND		4.5	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,2,4-Trimethylbenzene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,2-Dibromo-3-Chloropropane	ND		4.5	1.8	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,2-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,2-Dichloroethane	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,2-Dichloropropane	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,3,5-Trimethylbenzene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,3-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,3-Dichloropropane	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,4-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
2,2-Dichloropropane	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
2-Chlorotoluene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
2-Hexanone	ND		9.0	4.5	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
4-Chlorotoluene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
4-Isopropyltoluene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Benzene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Bromobenzene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Bromoform	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Bromomethane	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Carbon disulfide	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Carbon tetrachloride	ND		1.8	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Chlorobenzene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Chlorobromomethane	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Chloroethane	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Chloroform	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Chloromethane	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
cis-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
cis-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Chlorodibromomethane	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Dibromomethane	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Dichlorobromomethane	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1

Client Sample ID: DG-Y19S-0.5-1
Date Collected: 01/28/19 08:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Ethylbenzene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Hexachlorobutadiene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Isopropylbenzene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Methylene Chloride	ND		9.0	4.5	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Methyl tert-butyl ether	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Naphthalene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
n-Butylbenzene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
N-Propylbenzene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
sec-Butylbenzene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Styrene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
tert-Butylbenzene	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Tetrachloroethene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Toluene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
trans-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
trans-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Trichloroethene	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Trichlorofluoromethane	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.0	4.5	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Vinyl acetate	ND		7.2	3.6	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Vinyl chloride	ND		1.8	0.90	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
Ethylene Dibromide	ND		0.90	0.45	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
2-Butanone (MEK)	ND		9.0	4.5	ug/Kg		01/28/19 19:00	01/31/19 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		4.5	2.3	ug/Kg		01/28/19 19:00	01/31/19 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/28/19 19:00*	*01/31/19 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*01/28/19 19:00*	*01/31/19 15:26*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		990	500	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Acenaphthene	ND		500	280	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Acenaphthylene	ND		500	240	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Anthracene	ND		500	200	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Benzo[a]anthracene	ND		500	150	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Benzo[a]pyrene	**240**	**J B**	500	190	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Benzo[b]fluoranthene	**250**	**J B**	500	210	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Benzo[g,h,i]perylene	ND		500	430	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Benzo[k]fluoranthene	ND		500	210	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Chrysene	ND		500	140	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Dibenz(a,h)anthracene	ND		500	350	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Fluoranthene	ND		500	140	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Fluorene	ND		500	220	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Indeno[1,2,3-cd]pyrene	ND		500	420	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Naphthalene	ND		500	350	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Phenanthrene	ND		500	180	ug/Kg		01/31/19 15:15	02/09/19 01:28	100
Pyrene	**170**	**J B**	500	170	ug/Kg		01/31/19 15:15	02/09/19 01:28	100

Client Sample ID: DG-Y19S-0.5-1

Date Collected: 01/28/19 08:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*33 - 120*	*01/31/19 15:15*	*02/09/19 01:28*	*100*
Terphenyl-d14	*82*		*35 - 146*	*01/31/19 15:15*	*02/09/19 01:28*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1000**		99	37	mg/Kg		01/31/19 13:40	02/09/19 16:52	20
Motor Oil Range Organics [C24-C36]	**6400**		2500	490	mg/Kg		01/31/19 13:40	02/09/19 16:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/31/19 13:40*	*02/09/19 16:52*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
4,4'-DDE	ND		20	4.1	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
4,4'-DDT	ND		20	4.0	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Aldrin	ND		20	4.9	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
alpha-BHC	ND		20	5.4	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
alpha-Chlordane	ND		20	3.9	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
beta-BHC	ND		20	3.5	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Chlordane (technical)	ND		390	31	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
delta-BHC	ND		20	4.3	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Dieldrin	ND		20	5.8	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Endosulfan I	ND		20	3.1	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Endosulfan II	ND		20	4.8	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Endosulfan sulfate	ND		20	3.7	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Endrin	ND		20	4.5	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Endrin aldehyde	ND		20	6.2	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Endrin ketone	ND		20	3.2	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
gamma-Chlordane	ND		20	4.5	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Heptachlor	ND		20	4.5	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Heptachlor epoxide	ND		20	3.4	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Methoxychlor	ND		20	6.7	ug/Kg		01/30/19 14:45	02/05/19 12:51	10
Toxaphene	ND		390	67	ug/Kg		01/30/19 14:45	02/05/19 12:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*01/30/19 14:45*	*02/05/19 12:51*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*01/30/19 14:45*	*02/05/19 12:51*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 18:16	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 18:16	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 18:16	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 18:16	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 18:16	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 18:16	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 18:16	1

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Date Collected: 01/28/19 08:40
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Lab Sample ID: 720-91048-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*01/31/19 13:24*	*02/01/19 18:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.9	0.31	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Arsenic	3.3	J	3.8	0.32	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Barium	65		1.9	0.27	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Beryllium	0.22	J	0.38	0.12	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Cadmium	0.22	J	0.47	0.047	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Chromium	48		1.9	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Cobalt	8.8		0.75	0.075	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Copper	23		5.7	2.7	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Lead	18	B	1.9	0.40	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Molybdenum	0.27	J	1.9	0.24	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Nickel	73		1.9	0.19	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Selenium	0.91	J	3.8	0.57	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Silver	ND		0.94	0.19	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Thallium	19		1.9	0.55	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Vanadium	48		1.9	0.26	mg/Kg		01/29/19 17:33	02/07/19 20:39	4
Zinc	50		5.7	2.4	mg/Kg		01/29/19 17:33	02/07/19 20:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.016	0.0023	mg/Kg		01/29/19 11:04	02/11/19 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.9		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-Y19S-3.5-4

Date Collected: 01/28/19 08:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		68	47	ug/Kg		01/28/19 19:00	02/01/19 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/28/19 19:00*	*02/01/19 05:52*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/28/19 19:00*	*02/01/19 05:52*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*02/01/19 05:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
2-Hexanone	ND		7.3	3.6	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
4-Isopropyltoluene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Benzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Bromoform	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Chloroform	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Dibromomethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1

Client Sample ID: DG-Y19S-3.5-4
Date Collected: 01/28/19 08:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Styrene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Tetrachloroethene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Toluene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Trichloroethene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Xylenes, Total	ND		1.5	0.95	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		01/28/19 19:00	01/31/19 15:51	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/28/19 19:00	01/31/19 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*01/31/19 15:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/28/19 19:00*	*01/31/19 15:51*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**53**	**J**	96	48	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Acenaphthene	ND		48	27	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Acenaphthylene	**25**	**J**	48	23	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Anthracene	**42**	**J**	48	19	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Benzo[a]anthracene	**50**		48	14	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Benzo[a]pyrene	**69**	**B**	48	18	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Benzo[b]fluoranthene	**140**	**B**	48	20	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Benzo[g,h,i]perylene	**51**		48	41	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Benzo[k]fluoranthene	**52**	**B**	48	20	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Chrysene	**56**		48	13	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Dibenz(a,h)anthracene	ND		48	33	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Fluoranthene	**74**	**B**	48	13	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Fluorene	ND		48	21	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Indeno[1,2,3-cd]pyrene	**49**	**B**	48	40	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Naphthalene	**36**	**J**	48	33	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Phenanthrene	**68**		48	17	ug/Kg		01/31/19 15:15	02/08/19 12:17	10
Pyrene	**97**	**B**	48	16	ug/Kg		01/31/19 15:15	02/08/19 12:17	10

Client Sample ID: DG-Y19S-3.5-4

Date Collected: 01/28/19 08:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*01/31/19 15:15*	*02/08/19 12:17*	*10*
Terphenyl-d14	*120*		*35 - 146*	*01/31/19 15:15*	*02/08/19 12:17*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**82**		9.9	3.7	mg/Kg		02/01/19 09:17	02/06/19 15:56	5
Motor Oil Range Organics [C24-C36]	**320**		250	50	mg/Kg		02/01/19 09:17	02/06/19 15:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/06/19 15:56*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Aldrin	ND		2.0	0.49	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Endrin	ND		2.0	0.45	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/30/19 14:45	02/05/19 13:09	1
Toxaphene	ND		39	6.7	ug/Kg		01/30/19 14:45	02/05/19 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*21 - 136*	*01/30/19 14:45*	*02/05/19 13:09*	*1*
Tetrachloro-m-xylene	*79*		*21 - 145*	*01/30/19 14:45*	*02/05/19 13:09*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 19:16	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 19:16	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 19:16	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 19:16	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 19:16	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 19:16	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 19:16	1

Client Sample ID: DG-Y19S-3.5-4

Date Collected: 01/28/19 08:40
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Lab Sample ID: 720-91048-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*01/31/19 13:24*	*02/04/19 19:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.7**		1.9	0.31	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Arsenic	**32**		3.7	0.32	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Barium	**99**		1.9	0.27	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Beryllium	**0.31**	**J**	0.37	0.12	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Cadmium	**0.42**	**J**	0.47	0.046	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Chromium	**92**		1.9	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Cobalt	**15**		0.75	0.075	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Copper	**77**		5.6	2.7	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Lead	**140**	**B**	1.9	0.39	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Nickel	**91**		1.9	0.19	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Selenium	**1.0**	**J**	3.7	0.56	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Silver	ND		0.93	0.19	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Thallium	**25**		1.9	0.54	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Vanadium	**63**		1.9	0.25	mg/Kg		01/29/19 17:33	02/07/19 20:44	4
Zinc	**120**		5.6	2.4	mg/Kg		01/29/19 17:33	02/07/19 20:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.4**		0.064	0.0094	mg/Kg		02/08/19 09:30	02/09/19 10:05	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.8**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-Y19S-7.5-8

Date Collected: 01/28/19 08:40
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Lab Sample ID: 720-91048-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		73	51	ug/Kg		01/28/19 19:00	01/31/19 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/28/19 19:00*	*01/31/19 16:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*01/28/19 19:00*	*01/31/19 16:16*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/28/19 19:00*	*01/31/19 16:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
2-Hexanone	ND		7.3	3.6	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
4-Isopropyltoluene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Benzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Bromoform	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Chloroform	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Dibromomethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1

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Date Collected: 01/28/19 08:40
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Lab Sample ID: 720-91048-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Styrene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Tetrachloroethene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Toluene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Trichloroethene	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Xylenes, Total	ND		1.5	0.95	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		01/28/19 19:00	01/31/19 16:16	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/28/19 19:00	01/31/19 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/28/19 19:00*	*01/31/19 16:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*01/28/19 19:00*	*01/31/19 16:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.6	4.8	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Anthracene	ND		4.8	1.9	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Benzo[a]anthracene	ND		4.8	1.4	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Benzo[a]pyrene	**3.4**	**J B**	4.8	1.8	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Benzo[b]fluoranthene	**3.6**	**J B**	4.8	2.0	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Benzo[g,h,i]perylene	ND		4.8	4.1	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Benzo[k]fluoranthene	**2.4**	**J B**	4.8	2.0	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Chrysene	ND		4.8	1.3	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Fluoranthene	**2.0**	**J B**	4.8	1.3	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Fluorene	ND		4.8	2.1	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.0	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Naphthalene	ND		4.8	3.4	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Phenanthrene	ND		4.8	1.7	ug/Kg		01/31/19 15:15	02/08/19 06:01	1
Pyrene	**5.0**	**B**	4.8	1.6	ug/Kg		01/31/19 15:15	02/08/19 06:01	1

Client Sample ID: DG-Y19S-7.5-8

Date Collected: 01/28/19 08:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*33 - 120*	*01/31/19 15:15*	*02/08/19 06:01*	*1*
Terphenyl-d14	*95*		*35 - 146*	*01/31/19 15:15*	*02/08/19 06:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.5**		2.0	0.73	mg/Kg		02/01/19 09:17	02/08/19 03:58	1
Motor Oil Range Organics [C24-C36]	ND		49	9.8	mg/Kg		02/01/19 09:17	02/08/19 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*108*		*40 - 130*	*02/01/19 09:17*	*02/08/19 03:58*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Aldrin	ND		2.0	0.49	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Endrin	ND		2.0	0.45	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/30/19 14:45	02/05/19 13:26	1
Toxaphene	ND		39	6.7	ug/Kg		01/30/19 14:45	02/05/19 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*21 - 136*	*01/30/19 14:45*	*02/05/19 13:26*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*01/30/19 14:45*	*02/05/19 13:26*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 15:51	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 15:51	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 15:51	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 15:51	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 15:51	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 15:51	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 15:51	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-Y19S-7.5-8

Date Collected: 01/28/19 08:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*01/31/19 13:24*	*02/05/19 15:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.0**		2.0	0.33	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Arsenic	**2.0**	**J**	4.0	0.34	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Barium	**90**		2.0	0.28	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Beryllium	ND		0.40	0.13	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Cadmium	**0.12**	**J**	0.50	0.050	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Chromium	**57**		2.0	0.21	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Cobalt	**10**		0.80	0.080	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Copper	**10**		6.0	2.8	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Lead	**2.7**	**B**	2.0	0.42	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Molybdenum	ND		2.0	0.26	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Nickel	**59**		2.0	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Selenium	ND		4.0	0.60	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Silver	ND		1.0	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Thallium	**17**		2.0	0.58	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Vanadium	**43**		2.0	0.27	mg/Kg		01/29/19 17:33	02/07/19 20:49	4
Zinc	**32**		6.0	2.5	mg/Kg		01/29/19 17:33	02/07/19 20:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.015	0.0021	mg/Kg		02/08/19 09:30	02/09/19 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.6**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-V17S-0.5-1

Date Collected: 01/28/19 09:20
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Lab Sample ID: 720-91048-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		81	57	ug/Kg		01/28/19 19:00	01/31/19 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/28/19 19:00*	*01/31/19 16:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*01/28/19 19:00*	*01/31/19 16:40*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/28/19 19:00*	*01/31/19 16:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.1	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,1,1-Trichloroethane	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,1,2-Trichloroethane	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,1-Dichloroethane	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,1-Dichloropropene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,2,3-Trichlorobenzene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,2,4-Trichlorobenzene	ND		4.0	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,2,4-Trimethylbenzene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,2-Dichlorobenzene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,2-Dichloroethane	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,2-Dichloropropane	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,3,5-Trimethylbenzene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,3-Dichlorobenzene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,3-Dichloropropane	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,4-Dichlorobenzene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
2,2-Dichloropropane	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
2-Chlorotoluene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
2-Hexanone	ND		8.1	4.0	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
4-Chlorotoluene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
4-Isopropyltoluene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Benzene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Bromobenzene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Bromoform	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Bromomethane	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Carbon disulfide	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Chlorobenzene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Chlorobromomethane	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Chloroethane	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Chloroform	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Chloromethane	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
cis-1,2-Dichloroethene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
cis-1,3-Dichloropropene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Chlorodibromomethane	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Dibromomethane	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Dichlorobromomethane	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1

Client Sample ID: DG-V17S-0.5-1
Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Ethylbenzene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Hexachlorobutadiene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Isopropylbenzene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Methylene Chloride	ND		8.1	4.0	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Methyl tert-butyl ether	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Naphthalene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
n-Butylbenzene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
N-Propylbenzene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
sec-Butylbenzene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Styrene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
tert-Butylbenzene	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Tetrachloroethene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Toluene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
trans-1,2-Dichloroethene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
trans-1,3-Dichloropropene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Trichloroethene	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Trichlorofluoromethane	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.1	4.0	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Vinyl acetate	ND		6.5	3.2	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Vinyl chloride	ND		1.6	0.81	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Xylenes, Total	ND		1.6	1.1	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
Ethylene Dibromide	ND		0.81	0.40	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
2-Butanone (MEK)	ND		8.1	4.0	ug/Kg		01/28/19 19:00	01/31/19 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/28/19 19:00	01/31/19 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/28/19 19:00*	*01/31/19 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/28/19 19:00*	*01/31/19 16:40*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		49	25	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Acenaphthene	ND		25	14	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Acenaphthylene	ND		25	12	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Anthracene	**14**	**J**	25	9.8	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Benzo[a]anthracene	**33**		25	7.4	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Benzo[a]pyrene	**54**	**B**	25	9.3	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Benzo[b]fluoranthene	**93**	**B**	25	10	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Benzo[g,h,i]perylene	**41**		25	21	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Benzo[k]fluoranthene	**29**	**B**	25	10	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Chrysene	**40**		25	6.9	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Dibenz(a,h)anthracene	**19**	**J B**	25	17	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Fluoranthene	**41**	**B**	25	6.9	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Fluorene	ND		25	11	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Indeno[1,2,3-cd]pyrene	**34**	**B**	25	21	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Naphthalene	ND		25	17	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Phenanthrene	**25**		25	8.8	ug/Kg		01/31/19 15:15	02/08/19 12:40	5
Pyrene	**69**	**B**	25	8.3	ug/Kg		01/31/19 15:15	02/08/19 12:40	5

Client Sample ID: DG-V17S-0.5-1

Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*01/31/19 15:15*	*02/08/19 12:40*	*5*
Terphenyl-d14	*126*		*35 - 146*	*01/31/19 15:15*	*02/08/19 12:40*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**70**		4.0	1.5	mg/Kg		02/01/19 09:17	02/08/19 11:00	2
Motor Oil Range Organics [C24-C36]	**210**		99	20	mg/Kg		02/01/19 09:17	02/08/19 11:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*91*		*40 - 130*	*02/01/19 09:17*	*02/08/19 11:00*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Aldrin	ND		2.0	0.50	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Endrin	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/30/19 14:45	02/05/19 13:44	1
Toxaphene	ND		40	6.8	ug/Kg		01/30/19 14:45	02/05/19 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*21 - 136*	*01/30/19 14:45*	*02/05/19 13:44*	*1*
Tetrachloro-m-xylene	*96*		*21 - 145*	*01/30/19 14:45*	*02/05/19 13:44*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:56	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:56	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:56	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:56	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:56	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:56	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 18:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-V17S-0.5-1

Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/31/19 13:24*	*02/01/19 18:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.6		1.7	0.28	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Arsenic	11		3.4	0.29	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Barium	89		1.7	0.24	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Beryllium	ND		0.34	0.11	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Cadmium	2.9		0.43	0.042	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Chromium	24		1.7	0.18	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Cobalt	12		0.68	0.068	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Copper	140		5.1	2.4	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Lead	640	B	1.7	0.36	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Molybdenum	0.23	J	1.7	0.22	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Nickel	26		1.7	0.17	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Selenium	3.2	J	3.4	0.51	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Silver	ND		0.85	0.17	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Thallium	30		1.7	0.50	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Vanadium	77		1.7	0.23	mg/Kg		01/29/19 17:33	02/07/19 20:53	4
Zinc	2300		5.1	2.2	mg/Kg		01/29/19 17:33	02/07/19 20:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0021	mg/Kg		02/08/19 09:30	02/09/19 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-V17S-3.5-4

Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		68	47	ug/Kg		01/28/19 19:00	01/31/19 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*60 - 120*	*01/28/19 19:00*	*01/31/19 17:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*	*01/28/19 19:00*	*01/31/19 17:05*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/28/19 19:00*	*01/31/19 17:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.8	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,1,1-Trichloroethane	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,1,2-Trichloroethane	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,1-Dichloroethane	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,1-Dichloropropene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,2,3-Trichlorobenzene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,2,4-Trichlorobenzene	ND		3.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,2,4-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,2-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,2-Dichloroethane	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,2-Dichloropropane	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,3,5-Trimethylbenzene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,3-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,3-Dichloropropane	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,4-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
2,2-Dichloropropane	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
2-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
2-Hexanone	ND		6.8	3.4	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
4-Chlorotoluene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
4-Isopropyltoluene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Benzene	**0.35**	**J**	0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Bromobenzene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Bromoform	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Bromomethane	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Carbon disulfide	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Chlorobenzene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Chlorobromomethane	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Chloroethane	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Chloroform	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Chloromethane	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
cis-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
cis-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Chlorodibromomethane	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Dibromomethane	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Dichlorobromomethane	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1

Client Sample ID: DG-V17S-3.5-4
Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Ethylbenzene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Hexachlorobutadiene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Isopropylbenzene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Methylene Chloride	ND		6.8	3.4	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Methyl tert-butyl ether	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Naphthalene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
n-Butylbenzene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
N-Propylbenzene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
sec-Butylbenzene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Styrene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
tert-Butylbenzene	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Tetrachloroethene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Toluene	**0.58**	**J**	0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
trans-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
trans-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Trichloroethene	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Trichlorofluoromethane	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	3.4	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Vinyl chloride	ND		1.4	0.68	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Xylenes, Total	ND		1.4	0.88	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
Ethylene Dibromide	ND		0.68	0.34	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
2-Butanone (MEK)	ND		6.8	3.4	ug/Kg		01/28/19 19:00	01/31/19 17:05	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/28/19 19:00	01/31/19 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*79 - 123*	*01/28/19 19:00*	*01/31/19 17:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*	*01/28/19 19:00*	*01/31/19 17:05*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.7	4.8	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Acenaphthene	ND		4.8	2.7	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Acenaphthylene	ND		4.8	2.3	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Anthracene	ND		4.8	1.9	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Benzo[a]anthracene	ND		4.8	1.5	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Benzo[a]pyrene	**4.5**	**J B**	4.8	1.8	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Benzo[b]fluoranthene	**5.1**	**B**	4.8	2.0	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Benzo[g,h,i]perylene	**4.2**	**J**	4.8	4.2	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Benzo[k]fluoranthene	**3.1**	**J B**	4.8	2.0	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Chrysene	**2.1**	**J**	4.8	1.4	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Dibenz(a,h)anthracene	ND		4.8	3.4	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Fluoranthene	**4.1**	**J B**	4.8	1.4	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Fluorene	ND		4.8	2.1	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Indeno[1,2,3-cd]pyrene	ND		4.8	4.1	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Naphthalene	ND		4.8	3.4	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Phenanthrene	**1.9**	**J**	4.8	1.7	ug/Kg		01/31/19 15:15	02/08/19 06:24	1
Pyrene	**5.1**	**B**	4.8	1.6	ug/Kg		01/31/19 15:15	02/08/19 06:24	1

Client Sample ID: DG-V17S-3.5-4

Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*01/31/19 15:15*	*02/08/19 06:24*	*1*
Terphenyl-d14	*104*		*35 - 146*	*01/31/19 15:15*	*02/08/19 06:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.1**		2.0	0.74	mg/Kg		02/01/19 09:17	02/08/19 04:27	1
Motor Oil Range Organics [C24-C36]	**16**	**J**	50	9.9	mg/Kg		02/01/19 09:17	02/08/19 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*02/01/19 09:17*	*02/08/19 04:27*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Aldrin	ND		2.0	0.50	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Endrin	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/30/19 14:45	02/05/19 14:01	1
Toxaphene	ND		40	6.8	ug/Kg		01/30/19 14:45	02/05/19 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*21 - 136*	*01/30/19 14:45*	*02/05/19 14:01*	*1*
Tetrachloro-m-xylene	*90*		*21 - 145*	*01/30/19 14:45*	*02/05/19 14:01*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 19:09	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 19:09	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 19:09	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 19:09	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 19:09	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 19:09	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 19:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-V17S-3.5-4

Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/31/19 13:24*	*02/01/19 19:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9	J	2.0	0.33	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Arsenic	3.3	J	4.0	0.34	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Barium	64		2.0	0.28	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Beryllium	ND		0.40	0.13	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Cadmium	0.27	J	0.50	0.050	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Chromium	33		2.0	0.21	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Cobalt	18		0.80	0.080	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Copper	47		6.0	2.8	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Lead	14	B	2.0	0.42	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Molybdenum	ND		2.0	0.26	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Nickel	21		2.0	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Selenium	1.2	J	4.0	0.60	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Silver	ND		1.0	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Thallium	32		2.0	0.58	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Vanadium	81		2.0	0.27	mg/Kg		01/29/19 17:33	02/07/19 20:58	4
Zinc	62		6.0	2.5	mg/Kg		01/29/19 17:33	02/07/19 20:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.0025	mg/Kg		02/08/19 09:30	02/09/19 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-V17S-9.5-10

Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		110	74	ug/Kg		01/28/19 19:00	01/31/19 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/28/19 19:00*	*01/31/19 17:30*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/28/19 19:00*	*01/31/19 17:30*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*01/31/19 17:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,1,1,2-Tetrachloroethane	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,1,1-Trichloroethane	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,1,2-Trichloroethane	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,1-Dichloroethane	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,1-Dichloroethene	ND		2.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,1-Dichloropropene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,2,3-Trichlorobenzene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,2,4-Trichlorobenzene	ND		5.3	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,2,4-Trimethylbenzene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,2-Dichlorobenzene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,2-Dichloroethane	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,2-Dichloropropane	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,3,5-Trimethylbenzene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,3-Dichlorobenzene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,3-Dichloropropane	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,4-Dichlorobenzene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
2,2-Dichloropropane	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
2-Chlorotoluene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
2-Hexanone	ND		11	5.3	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
4-Chlorotoluene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
4-Isopropyltoluene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Benzene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Bromobenzene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Bromoform	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Bromomethane	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Carbon disulfide	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Carbon tetrachloride	ND		2.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Chlorobenzene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Chlorobromomethane	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Chloroethane	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Chloroform	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Chloromethane	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
cis-1,2-Dichloroethene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
cis-1,3-Dichloropropene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Chlorodibromomethane	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Dibromomethane	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Dichlorobromomethane	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1

Client Sample ID: DG-V17S-9.5-10
Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Ethylbenzene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Hexachlorobutadiene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Isopropylbenzene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Methylene Chloride	ND		11	5.3	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Methyl tert-butyl ether	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Naphthalene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
n-Butylbenzene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
N-Propylbenzene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
sec-Butylbenzene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Styrene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
tert-Butylbenzene	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Tetrachloroethene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Toluene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
trans-1,2-Dichloroethene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
trans-1,3-Dichloropropene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Trichloroethene	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Trichlorofluoromethane	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11	5.3	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Vinyl acetate	ND		8.4	4.2	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Vinyl chloride	ND		2.1	1.1	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Xylenes, Total	ND		2.1	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
Ethylene Dibromide	ND		1.1	0.53	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
2-Butanone (MEK)	**25**		11	5.3	ug/Kg		01/28/19 19:00	01/31/19 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.3	2.6	ug/Kg		01/28/19 19:00	01/31/19 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*01/31/19 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/28/19 19:00*	*01/31/19 17:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**340**		49	25	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Acenaphthene	**65**		25	14	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Acenaphthylene	**34**		25	12	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Anthracene	**130**		25	9.8	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Benzo[a]anthracene	**180**		25	7.4	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Benzo[a]pyrene	**240**	**B**	25	9.3	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Benzo[b]fluoranthene	**290**	**B**	25	10	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Benzo[g,h,i]perylene	**140**		25	21	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Benzo[k]fluoranthene	**81**	**B**	25	10	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Chrysene	**190**		25	6.9	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Dibenz(a,h)anthracene	**26**	**B**	25	17	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Fluoranthene	**540**	**B**	25	6.9	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Fluorene	**68**		25	11	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Indeno[1,2,3-cd]pyrene	**90**	**B**	25	21	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Naphthalene	**290**		25	17	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Phenanthrene	**380**		25	8.8	ug/Kg		01/31/19 15:15	02/08/19 13:04	5
Pyrene	**770**	**B**	25	8.3	ug/Kg		01/31/19 15:15	02/08/19 13:04	5

Client Sample ID: DG-V17S-9.5-10

Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*33 - 120*	*01/31/19 15:15*	*02/08/19 13:04*	*5*
Terphenyl-d14	*74*		*35 - 146*	*01/31/19 15:15*	*02/08/19 13:04*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**		1.9	0.73	mg/Kg		02/01/19 09:17	02/08/19 11:59	1
Motor Oil Range Organics [C24-C36]	**210**		49	9.7	mg/Kg		02/01/19 09:17	02/08/19 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*67*		*40 - 130*	*02/01/19 09:17*	*02/08/19 11:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
4,4'-DDE	ND		20	4.1	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
4,4'-DDT	ND		20	4.0	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Aldrin	ND		20	4.9	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
alpha-BHC	ND		20	5.4	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
alpha-Chlordane	ND		20	3.9	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
beta-BHC	ND		20	3.5	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Chlordane (technical)	ND		390	31	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
delta-BHC	ND		20	4.3	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Dieldrin	ND		20	5.8	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Endosulfan I	ND		20	3.1	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Endosulfan II	ND		20	4.8	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Endosulfan sulfate	ND		20	3.7	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Endrin	ND		20	4.5	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Endrin aldehyde	ND		20	6.2	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Endrin ketone	ND		20	3.2	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
gamma-Chlordane	ND		20	4.5	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Heptachlor	ND		20	4.5	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Heptachlor epoxide	ND		20	3.4	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Methoxychlor	ND		20	6.7	ug/Kg		01/30/19 14:45	02/06/19 09:02	10
Toxaphene	ND		390	67	ug/Kg		01/30/19 14:45	02/06/19 09:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X*	*21 - 136*	*01/30/19 14:45*	*02/06/19 09:02*	*10*
Tetrachloro-m-xylene	*0*	*X*	*21 - 145*	*01/30/19 14:45*	*02/06/19 09:02*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:19	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:19	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:19	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:19	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:19	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:19	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:19	1

Client Sample ID: DG-V17S-9.5-10

Date Collected: 01/28/19 09:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*01/31/19 13:24*	*02/05/19 12:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.7		1.9	0.32	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Arsenic	13		3.9	0.33	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Barium	460		1.9	0.28	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Beryllium	0.49		0.39	0.13	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Cadmium	2.0		0.49	0.048	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Chromium	37		1.9	0.21	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Cobalt	11		0.78	0.078	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Copper	440		5.8	2.8	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Lead	4900	B	1.9	0.41	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Molybdenum	1.5	J	1.9	0.25	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Nickel	39		1.9	0.20	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Selenium	2.4	J	3.9	0.58	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Silver	2.9	B	0.97	0.20	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Thallium	19		1.9	0.56	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Vanadium	50		1.9	0.26	mg/Kg		01/29/19 17:33	02/07/19 21:03	4
Zinc	2100		5.8	2.5	mg/Kg		01/29/19 17:33	02/07/19 21:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.015	0.0022	mg/Kg		02/08/19 09:30	02/09/19 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	36.4		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-U15S-0.5-1

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		140	99	ug/Kg		01/28/19 19:00	01/31/19 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*01/28/19 19:00*	*01/31/19 17:54*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*01/28/19 19:00*	*01/31/19 17:54*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*	*01/28/19 19:00*	*01/31/19 17:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		14	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,1,1,2-Tetrachloroethane	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,1,1-Trichloroethane	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,1,2,2-Tetrachloroethane	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,1,2-Trichloroethane	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,1-Dichloroethane	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,1-Dichloroethene	ND		2.8	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,1-Dichloropropene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,2,3-Trichlorobenzene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,2,4-Trichlorobenzene	ND		7.1	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,2,4-Trimethylbenzene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,2-Dibromo-3-Chloropropane	ND		7.1	2.8	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,2-Dichlorobenzene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,2-Dichloroethane	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,2-Dichloropropane	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,3,5-Trimethylbenzene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,3-Dichlorobenzene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,3-Dichloropropane	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,4-Dichlorobenzene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
2,2-Dichloropropane	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
2-Chlorotoluene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
2-Hexanone	ND		14	7.1	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
4-Chlorotoluene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
4-Isopropyltoluene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Benzene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Bromobenzene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Bromoform	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Bromomethane	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Carbon disulfide	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Carbon tetrachloride	ND		2.8	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Chlorobenzene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Chlorobromomethane	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Chloroethane	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Chloroform	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Chloromethane	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
cis-1,2-Dichloroethene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
cis-1,3-Dichloropropene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Chlorodibromomethane	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Dibromomethane	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Dichlorobromomethane	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1

Client Sample ID: DG-U15S-0.5-1
Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Ethylbenzene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Hexachlorobutadiene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Isopropylbenzene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Methylene Chloride	ND		14	7.1	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Methyl tert-butyl ether	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Naphthalene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
n-Butylbenzene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
N-Propylbenzene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
sec-Butylbenzene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Styrene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
tert-Butylbenzene	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Tetrachloroethene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Toluene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
trans-1,2-Dichloroethene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
trans-1,3-Dichloropropene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Trichloroethene	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Trichlorofluoromethane	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14	7.1	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Vinyl acetate	ND		11	5.6	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Vinyl chloride	ND		2.8	1.4	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Xylenes, Total	ND		2.8	1.8	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
Ethylene Dibromide	ND		1.4	0.71	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
2-Butanone (MEK)	ND		14	7.1	ug/Kg		01/28/19 19:00	01/31/19 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		7.1	3.5	ug/Kg		01/28/19 19:00	01/31/19 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*79 - 123*	*01/28/19 19:00*	*01/31/19 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/28/19 19:00*	*01/31/19 17:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**320**		200	98	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Acenaphthene	ND		98	55	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Acenaphthylene	ND		98	47	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Anthracene	**67**	**J**	98	39	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Benzo[a]anthracene	ND		98	29	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Benzo[a]pyrene	**66**	**J B**	98	37	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Benzo[b]fluoranthene	**110**	**B**	98	41	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Benzo[g,h,i]perylene	**87**	**J**	98	84	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Benzo[k]fluoranthene	**54**	**J B**	98	41	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Chrysene	**62**	**J**	98	27	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Dibenz(a,h)anthracene	ND		98	69	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Fluoranthene	**100**	**B**	98	27	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Fluorene	ND		98	43	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Indeno[1,2,3-cd]pyrene	ND		98	82	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Naphthalene	**300**		98	69	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Phenanthrene	**170**		98	35	ug/Kg		01/31/19 15:15	02/11/19 11:30	20
Pyrene	**130**	**B**	98	33	ug/Kg		01/31/19 15:15	02/11/19 11:30	20

Client Sample ID: DG-U15S-0.5-1

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*01/31/19 15:15*	*02/11/19 11:30*	*20*
Terphenyl-d14	*113*		*35 - 146*	*01/31/19 15:15*	*02/11/19 11:30*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**500**		20	7.4	mg/Kg		02/01/19 09:17	02/09/19 17:21	10
Motor Oil Range Organics [C24-C36]	**1800**		490	98	mg/Kg		02/01/19 09:17	02/09/19 17:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/09/19 17:21*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	1.2	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
4,4'-DDE	ND		3.9	0.83	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
4,4'-DDT	ND		3.9	0.81	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Aldrin	ND		3.9	0.98	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
alpha-BHC	ND		3.9	1.1	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
alpha-Chlordane	ND		3.9	0.79	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
beta-BHC	ND		3.9	0.71	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Chlordane (technical)	ND		79	6.3	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
delta-BHC	ND		3.9	0.87	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Dieldrin	ND		3.9	1.2	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Endosulfan I	ND		3.9	0.63	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Endosulfan II	ND		3.9	0.96	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Endosulfan sulfate	ND		3.9	0.75	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Endrin	ND		3.9	0.90	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Endrin ketone	ND		3.9	0.65	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
gamma-Chlordane	ND		3.9	0.90	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Heptachlor	ND		3.9	0.90	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Heptachlor epoxide	ND		3.9	0.69	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Methoxychlor	ND		3.9	1.3	ug/Kg		01/30/19 14:45	02/05/19 14:37	2
Toxaphene	ND		79	13	ug/Kg		01/30/19 14:45	02/05/19 14:37	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*21 - 136*	*01/30/19 14:45*	*02/05/19 14:37*	*2*
Tetrachloro-m-xylene	*77*		*21 - 145*	*01/30/19 14:45*	*02/05/19 14:37*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:30	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:30	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:30	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:30	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:30	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:30	1
Aroclor 1260	**78**		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:30	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-U15S-0.5-1

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*01/31/19 13:24*	*02/04/19 19:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.5	0.25	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Arsenic	3.5		3.0	0.25	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Barium	63		1.5	0.21	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Beryllium	0.20	J	0.30	0.097	mg/Kg		01/29/19 17:33	02/11/19 14:37	4
Cadmium	0.42		0.37	0.037	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Chromium	14		1.5	0.16	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Cobalt	5.2		0.60	0.060	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Copper	72		4.5	2.1	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Lead	160	B	1.5	0.31	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Molybdenum	0.83	J	1.5	0.19	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Nickel	16		1.5	0.15	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Selenium	ND		3.0	0.45	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Silver	ND		0.75	0.15	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Thallium	ND		1.5	0.43	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Vanadium	35		1.5	0.20	mg/Kg		01/29/19 17:33	02/11/19 12:31	4
Zinc	280		4.5	1.9	mg/Kg		01/29/19 17:33	02/11/19 12:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.015	0.0023	mg/Kg		02/08/19 09:30	02/09/19 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.4		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DUP-122

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		01/28/19 19:00	01/31/19 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/28/19 19:00*	*01/31/19 18:19*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*	*01/28/19 19:00*	*01/31/19 18:19*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/28/19 19:00*	*01/31/19 18:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Benzene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Bromoform	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Chloroform	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1

Client Sample ID: DUP-122

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Styrene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Toluene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Vinyl acetate	ND		5.9	2.9	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		01/28/19 19:00	01/31/19 18:19	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.8	ug/Kg		01/28/19 19:00	01/31/19 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/28/19 19:00*	*01/31/19 18:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*01/28/19 19:00*	*01/31/19 18:19*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.5	4.7	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Acenaphthene	ND		4.7	2.7	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Acenaphthylene	ND		4.7	2.3	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Anthracene	ND		4.7	1.9	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Benzo[a]anthracene	**2.2**	**J**	4.7	1.4	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Benzo[a]pyrene	**7.1**	**B**	4.7	1.8	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Benzo[b]fluoranthene	**9.1**	**B**	4.7	2.0	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Benzo[g,h,i]perylene	**6.3**		4.7	4.1	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Benzo[k]fluoranthene	**3.9**	**J B**	4.7	2.0	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Chrysene	**3.8**	**J**	4.7	1.3	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Dibenz(a,h)anthracene	ND		4.7	3.3	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Fluoranthene	**8.4**	**B**	4.7	1.3	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Fluorene	ND		4.7	2.1	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Indeno[1,2,3-cd]pyrene	**5.7**	**B**	4.7	4.0	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Naphthalene	ND		4.7	3.3	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Phenanthrene	**4.1**	**J**	4.7	1.7	ug/Kg		01/31/19 15:15	02/08/19 06:48	1
Pyrene	**11**	**B**	4.7	1.6	ug/Kg		01/31/19 15:15	02/08/19 06:48	1

Client Sample ID: DUP-122

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*33 - 120*	*01/31/19 15:15*	*02/08/19 06:48*	*1*
Terphenyl-d14	*110*		*35 - 146*	*01/31/19 15:15*	*02/08/19 06:48*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.4**		2.0	0.74	mg/Kg		02/01/19 09:17	02/08/19 12:28	1
Motor Oil Range Organics [C24-C36]	**19**	**J**	49	9.9	mg/Kg		02/01/19 09:17	02/08/19 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*102*		*40 - 130*	*02/01/19 09:17*	*02/08/19 12:28*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Aldrin	ND		1.9	0.48	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
alpha-BHC	ND		1.9	0.52	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
beta-BHC	ND		1.9	0.34	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Chlordane (technical)	ND		38	3.0	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Dieldrin	ND		1.9	0.56	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Endosulfan I	ND		1.9	0.30	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Endrin	ND		1.9	0.44	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Endrin ketone	ND		1.9	0.31	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/30/19 14:45	02/05/19 14:55	1
Toxaphene	ND		38	6.5	ug/Kg		01/30/19 14:45	02/05/19 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*21 - 136*	*01/30/19 14:45*	*02/05/19 14:55*	*1*
Tetrachloro-m-xylene	*90*		*21 - 145*	*01/30/19 14:45*	*02/05/19 14:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 19:49	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 19:49	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 19:49	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 19:49	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 19:49	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 19:49	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 19:49	1

Client Sample ID: DUP-122

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*46*		*45 - 120*	*01/31/19 13:24*	*02/01/19 19:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.5**	**J**	1.7	0.27	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Arsenic	**4.8**		3.3	0.28	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Barium	**70**		1.7	0.23	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Beryllium	**0.16**	**J**	0.33	0.11	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Cadmium	**0.29**	**J**	0.41	0.041	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Chromium	**37**		1.7	0.18	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Cobalt	**17**		0.66	0.066	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Copper	**49**		5.0	2.4	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Lead	**34**	**B**	1.7	0.35	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Molybdenum	ND		1.7	0.21	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Nickel	**24**		1.7	0.17	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Selenium	**1.2**	**J**	3.3	0.50	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Silver	ND		0.83	0.17	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Thallium	**27**		1.7	0.48	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Vanadium	**69**		1.7	0.22	mg/Kg		01/29/19 17:33	02/07/19 21:12	4
Zinc	**120**		5.0	2.1	mg/Kg		01/29/19 17:33	02/07/19 21:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.048**		0.016	0.0023	mg/Kg		02/08/19 09:30	02/09/19 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DUP-124

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-12

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		89	63	ug/Kg		01/28/19 19:00	01/31/19 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/28/19 19:00*	*01/31/19 23:42*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/28/19 19:00*	*01/31/19 23:42*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*01/31/19 23:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.9	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,1,1-Trichloroethane	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,1,2-Trichloroethane	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,1-Dichloroethane	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,1-Dichloroethene	ND		1.8	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,1-Dichloropropene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,2,3-Trichlorobenzene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,2,4-Trichlorobenzene	ND		4.5	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,2,4-Trimethylbenzene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,2-Dibromo-3-Chloropropane	ND		4.5	1.8	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,2-Dichlorobenzene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,2-Dichloroethane	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,2-Dichloropropane	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,3,5-Trimethylbenzene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,3-Dichlorobenzene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,3-Dichloropropane	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,4-Dichlorobenzene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
2,2-Dichloropropane	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
2-Chlorotoluene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
2-Hexanone	ND		8.9	4.5	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
4-Chlorotoluene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
4-Isopropyltoluene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Benzene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Bromobenzene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Bromoform	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Bromomethane	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Carbon disulfide	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Carbon tetrachloride	ND		1.8	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Chlorobenzene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Chlorobromomethane	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Chloroethane	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Chloroform	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Chloromethane	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
cis-1,2-Dichloroethene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
cis-1,3-Dichloropropene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Chlorodibromomethane	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Dibromomethane	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Dichlorobromomethane	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1

Client Sample ID: DUP-124
Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Ethylbenzene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Hexachlorobutadiene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Isopropylbenzene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Methylene Chloride	ND		8.9	4.5	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Methyl tert-butyl ether	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Naphthalene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
n-Butylbenzene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
N-Propylbenzene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
sec-Butylbenzene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Styrene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
tert-Butylbenzene	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Tetrachloroethene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Toluene	**0.80**	**J**	0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
trans-1,2-Dichloroethene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
trans-1,3-Dichloropropene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Trichloroethene	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Trichlorofluoromethane	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.9	4.5	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Vinyl acetate	ND		7.1	3.6	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Vinyl chloride	ND		1.8	0.89	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
Ethylene Dibromide	ND		0.89	0.45	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
2-Butanone (MEK)	ND		8.9	4.5	ug/Kg		01/28/19 19:00	01/31/19 23:42	1
4-Methyl-2-pentanone (MIBK)	ND		4.5	2.2	ug/Kg		01/28/19 19:00	01/31/19 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*01/31/19 23:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/28/19 19:00*	*01/31/19 23:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	98	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Acenaphthene	ND		98	55	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Acenaphthylene	ND		98	47	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Anthracene	**52**	**J**	98	39	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Benzo[a]anthracene	ND		98	30	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Benzo[a]pyrene	**99**	**B**	98	37	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Benzo[b]fluoranthene	**110**	**B**	98	41	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Benzo[g,h,i]perylene	**110**		98	85	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Benzo[k]fluoranthene	**65**	**J B**	98	41	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Chrysene	**40**	**J**	98	28	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Dibenz(a,h)anthracene	ND		98	69	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Fluoranthene	**64**	**J B**	98	28	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Fluorene	ND		98	43	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Indeno[1,2,3-cd]pyrene	ND		98	83	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Naphthalene	ND		98	69	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Phenanthrene	**43**	**J**	98	35	ug/Kg		01/31/19 15:15	02/11/19 11:53	20
Pyrene	**110**	**B**	98	33	ug/Kg		01/31/19 15:15	02/11/19 11:53	20

Client Sample ID: DUP-124

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*33 - 120*	*01/31/19 15:15*	*02/11/19 11:53*	*20*
Terphenyl-d14	*131*		*35 - 146*	*01/31/19 15:15*	*02/11/19 11:53*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**590**		9.9	3.7	mg/Kg		02/01/19 09:17	02/09/19 17:51	5
Motor Oil Range Organics [C24-C36]	**1300**		250	50	mg/Kg		02/01/19 09:17	02/09/19 17:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/09/19 17:51*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	1.2	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
4,4'-DDE	**3.3**	**J p**	3.8	0.79	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
4,4'-DDT	**0.88**	**J p**	3.8	0.77	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Aldrin	ND		3.8	0.94	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
alpha-BHC	ND		3.8	1.0	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
alpha-Chlordane	ND		3.8	0.76	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
beta-BHC	ND		3.8	0.68	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Chlordane (technical)	ND		76	6.0	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
delta-BHC	ND		3.8	0.83	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Dieldrin	ND		3.8	1.1	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Endosulfan I	ND		3.8	0.60	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Endosulfan II	ND		3.8	0.93	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Endosulfan sulfate	ND		3.8	0.72	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Endrin	ND		3.8	0.87	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Endrin aldehyde	ND		3.8	1.2	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Endrin ketone	**0.70**	**J p**	3.8	0.62	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
gamma-BHC (Lindane)	ND		3.8	1.2	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
gamma-Chlordane	ND		3.8	0.87	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Heptachlor	ND		3.8	0.87	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Heptachlor epoxide	ND		3.8	0.66	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Methoxychlor	ND		3.8	1.3	ug/Kg		01/30/19 14:45	02/06/19 09:18	2
Toxaphene	ND		76	13	ug/Kg		01/30/19 14:45	02/06/19 09:18	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*21 - 136*	*01/30/19 14:45*	*02/06/19 09:18*	*2*
Tetrachloro-m-xylene	*55*		*21 - 145*	*01/30/19 14:45*	*02/06/19 09:18*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:02	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:02	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:02	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:02	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:02	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:02	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:02	1

Client Sample ID: DUP-124

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*57*		*45 - 120*	*01/31/19 13:24*	*02/01/19 20:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.6**		1.7	0.29	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Arsenic	**10**		3.4	0.29	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Barium	**66**		1.7	0.24	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Beryllium	ND		0.34	0.11	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Cadmium	**0.63**		0.43	0.043	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Chromium	**25**		1.7	0.18	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Cobalt	**9.9**		0.69	0.069	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Copper	**230**		5.2	2.5	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Lead	**270**	**B**	1.7	0.36	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Molybdenum	**2.1**		1.7	0.22	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Nickel	**37**		1.7	0.18	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Selenium	**1.8**	**J**	3.4	0.52	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Silver	**0.29**	**J B**	0.86	0.17	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Thallium	**26**		1.7	0.50	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Vanadium	**67**		1.7	0.23	mg/Kg		01/29/19 17:33	02/07/19 21:17	4
Zinc	**160**		5.2	2.2	mg/Kg		01/29/19 17:33	02/07/19 21:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.016	0.0023	mg/Kg		02/08/19 09:30	02/09/19 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.0**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-U15S-3.5-4

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/28/19 19:00	02/01/19 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/28/19 19:00*	*02/01/19 00:06*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/28/19 19:00*	*02/01/19 00:06*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/28/19 19:00*	*02/01/19 00:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,1,1-Trichloroethane	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,1,2-Trichloroethane	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,1-Dichloroethane	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,1-Dichloropropene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,2,4-Trichlorobenzene	ND		4.0	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,2-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,2-Dichloroethane	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,2-Dichloropropane	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,3-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,3-Dichloropropane	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,4-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
2-Hexanone	ND		7.9	4.0	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
4-Isopropyltoluene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Benzene	**0.45**	**J**	0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Bromoform	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Chlorobenzene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Chloroform	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
cis-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
cis-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Chlorodibromomethane	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Dibromomethane	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Dichlorobromomethane	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1

Client Sample ID: DG-U15S-3.5-4
Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Ethylbenzene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Isopropylbenzene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Methylene Chloride	ND		7.9	4.0	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
N-Propylbenzene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Styrene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Tetrachloroethene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Toluene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
trans-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
trans-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Trichloroethene	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	4.0	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
Ethylene Dibromide	ND		0.79	0.40	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
2-Butanone (MEK)	ND		7.9	4.0	ug/Kg		01/28/19 19:00	02/01/19 00:06	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/28/19 19:00	02/01/19 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/28/19 19:00*	*02/01/19 00:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/28/19 19:00*	*02/01/19 00:06*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**12**	**J**	19	9.6	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Acenaphthene	ND		9.6	5.4	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Acenaphthylene	ND		9.6	4.6	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Anthracene	**4.6**	**J**	9.6	3.8	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Benzo[a]anthracene	ND		9.6	2.9	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Benzo[a]pyrene	**8.0**	**J B**	9.6	3.6	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Benzo[b]fluoranthene	**9.9**	**B**	9.6	4.0	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Benzo[g,h,i]perylene	**8.6**	**J**	9.6	8.2	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Benzo[k]fluoranthene	**5.2**	**J B**	9.6	4.0	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Chrysene	**3.9**	**J**	9.6	2.7	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Dibenz(a,h)anthracene	ND		9.6	6.7	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Fluoranthene	**6.5**	**J B**	9.6	2.7	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Fluorene	ND		9.6	4.2	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Indeno[1,2,3-cd]pyrene	ND		9.6	8.0	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Naphthalene	**9.0**	**J**	9.6	6.7	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Phenanthrene	**5.6**	**J**	9.6	3.4	ug/Kg		01/31/19 15:15	02/11/19 12:16	2
Pyrene	**9.0**	**J B**	9.6	3.3	ug/Kg		01/31/19 15:15	02/11/19 12:16	2

Client Sample ID: DG-U15S-3.5-4

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*33 - 120*	*01/31/19 15:15*	*02/11/19 12:16*	*2*
Terphenyl-d14	*136*		*35 - 146*	*01/31/19 15:15*	*02/11/19 12:16*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**20**		2.0	0.74	mg/Kg		02/01/19 09:17	02/08/19 11:30	1
Motor Oil Range Organics [C24-C36]	**66**		49	9.8	mg/Kg		02/01/19 09:17	02/08/19 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*02/01/19 09:17*	*02/08/19 11:30*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Aldrin	ND		2.0	0.50	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Endrin	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/30/19 14:45	02/06/19 09:34	1
Toxaphene	ND		40	6.8	ug/Kg		01/30/19 14:45	02/06/19 09:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*120*	*p*	*21 - 136*	*01/30/19 14:45*	*02/06/19 09:34*	*1*
Tetrachloro-m-xylene	*105*		*21 - 145*	*01/30/19 14:45*	*02/06/19 09:34*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:15	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:15	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:15	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:15	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:15	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:15	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/01/19 20:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-U15S-3.5-4

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*01/31/19 13:24*	*02/01/19 20:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**J**	1.8	0.30	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Arsenic	**2.6**	**J**	3.6	0.30	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Barium	**27**		1.8	0.25	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Beryllium	ND		0.36	0.12	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Cadmium	**0.17**	**J**	0.45	0.044	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Chromium	**14**		1.8	0.19	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Cobalt	**12**		0.71	0.071	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Copper	**100**		5.4	2.5	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Lead	**24**	**B**	1.8	0.38	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Nickel	**8.4**		1.8	0.18	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Selenium	ND		3.6	0.54	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Silver	ND		0.89	0.18	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Thallium	**34**		1.8	0.52	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Vanadium	**84**		1.8	0.24	mg/Kg		01/29/19 17:33	02/07/19 21:22	4
Zinc	**54**		5.4	2.3	mg/Kg		01/29/19 17:33	02/07/19 21:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.016	0.0023	mg/Kg		02/08/19 09:30	02/09/19 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.2**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-U15S-8.5-9

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-14

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**1000**		88	62	ug/Kg		01/28/19 19:00	02/01/19 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/28/19 19:00*	*02/01/19 00:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*01/28/19 19:00*	*02/01/19 00:31*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/28/19 19:00*	*02/01/19 00:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
2-Hexanone	ND		8.8	4.4	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Benzene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Bromobenzene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Bromoform	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Bromomethane	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Carbon disulfide	**1.2**	**J**	1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Chloroethane	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Chloroform	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Chloromethane	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Dibromomethane	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1

Client Sample ID: DG-U15S-8.5-9

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-14

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Naphthalene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Styrene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Tetrachloroethene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Toluene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Trichloroethene	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Xylenes, Total	ND		1.8	1.1	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		01/28/19 19:00	02/01/19 00:31	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/28/19 19:00	02/01/19 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/28/19 19:00*	*02/01/19 00:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*01/28/19 19:00*	*02/01/19 00:31*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		480	240	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Acenaphthene	ND		240	140	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Acenaphthylene	ND		240	120	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Anthracene	**120**	**J**	240	97	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Benzo[a]anthracene	ND		240	73	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Benzo[a]pyrene	**150**	**J B**	240	92	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Benzo[b]fluoranthene	**180**	**J B**	240	100	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Benzo[g,h,i]perylene	ND		240	210	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Benzo[k]fluoranthene	ND		240	100	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Chrysene	ND		240	68	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Dibenz(a,h)anthracene	ND		240	170	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Fluoranthene	ND		240	68	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Fluorene	ND		240	110	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Indeno[1,2,3-cd]pyrene	ND		240	200	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Naphthalene	ND		240	170	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Phenanthrene	ND		240	87	ug/Kg		01/31/19 15:15	02/08/19 19:36	50
Pyrene	**280**	**B**	240	82	ug/Kg		01/31/19 15:15	02/08/19 19:36	50

Client Sample ID: DG-U15S-8.5-9

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*33 - 120*	*01/31/19 15:15*	*02/08/19 19:36*	*50*
Terphenyl-d14	*150*	*X*	*35 - 146*	*01/31/19 15:15*	*02/08/19 19:36*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2400**		20	7.3	mg/Kg		02/01/19 09:17	02/09/19 18:20	10
Motor Oil Range Organics [C24-C36]	**3100**		490	98	mg/Kg		02/01/19 09:17	02/09/19 18:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/09/19 18:20*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
4,4'-DDE	ND		20	4.1	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
4,4'-DDT	ND		20	4.0	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Aldrin	ND		20	4.9	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
alpha-BHC	ND		20	5.4	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
alpha-Chlordane	ND		20	3.9	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
beta-BHC	ND		20	3.5	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Chlordane (technical)	ND		390	31	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
delta-BHC	ND		20	4.3	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Dieldrin	ND		20	5.8	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Endosulfan I	ND		20	3.1	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Endosulfan II	ND		20	4.8	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Endosulfan sulfate	ND		20	3.7	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Endrin	ND		20	4.5	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Endrin aldehyde	ND		20	6.2	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Endrin ketone	ND		20	3.2	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
gamma-Chlordane	ND		20	4.5	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Heptachlor	ND		20	4.5	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Heptachlor epoxide	ND		20	3.4	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Methoxychlor	ND		20	6.6	ug/Kg		01/31/19 09:29	02/09/19 21:43	10
Toxaphene	ND		390	67	ug/Kg		01/31/19 09:29	02/09/19 21:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*01/31/19 09:29*	*02/09/19 21:43*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*01/31/19 09:29*	*02/09/19 21:43*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 20:29	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 20:29	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 20:29	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 20:29	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 20:29	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 20:29	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 20:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-U15S-8.5-9

Date Collected: 01/28/19 09:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*01/31/19 13:24*	*02/01/19 20:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	1.8	0.30	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Arsenic	7.1		3.6	0.31	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Barium	55		1.8	0.26	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Beryllium	0.43		0.36	0.12	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Cadmium	0.18	J	0.45	0.045	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Chromium	28		1.8	0.19	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Cobalt	13		0.73	0.073	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Copper	26		5.5	2.6	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Lead	8.1	B	1.8	0.38	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Nickel	28		1.8	0.19	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Selenium	2.1	J	3.6	0.55	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Silver	ND		0.91	0.18	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Thallium	14		1.8	0.53	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Vanadium	37		1.8	0.25	mg/Kg		01/29/19 17:33	02/07/19 21:36	4
Zinc	47		5.5	2.3	mg/Kg		01/29/19 17:33	02/07/19 21:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		02/08/19 09:30	02/09/19 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.2		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-T17S-0.5-1
Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-15
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**28000**		9800	6900	ug/Kg		01/30/19 15:42	02/05/19 14:57	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*55 - 140*	*01/30/19 15:42*	*02/05/19 14:57*	*100*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*	*01/30/19 15:42*	*02/05/19 14:57*	*100*
Toluene-d8 (Surr)	*110*		*60 - 140*	*01/30/19 15:42*	*02/05/19 14:57*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		490	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,1,1,2-Tetrachloroethane	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,1,1-Trichloroethane	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,1,2,2-Tetrachloroethane	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,1,2-Trichloroethane	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,1-Dichloroethane	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,1-Dichloroethene	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,1-Dichloropropene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,2,3-Trichlorobenzene	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,2,4-Trichlorobenzene	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,2,4-Trimethylbenzene	**450**		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,2-Dibromo-3-Chloropropane	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,2-Dichlorobenzene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,2-Dichloroethane	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,3,5-Trimethylbenzene	**99**		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,3-Dichlorobenzene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,3-Dichloropropane	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,4-Dichlorobenzene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
2,2-Dichloropropane	ND		200	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
2-Chlorotoluene	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
2-Hexanone	ND		1200	490	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
4-Chlorotoluene	ND		250	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
4-Isopropyltoluene	**720**		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Benzene	**450**		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Bromobenzene	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Bromoform	ND	*	250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Bromomethane	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Carbon disulfide	ND		250	120	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Carbon tetrachloride	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Chlorobenzene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Chlorobromomethane	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Chloroethane	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Chloroform	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Chloromethane	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
cis-1,2-Dichloroethene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
cis-1,3-Dichloropropene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Chlorodibromomethane	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Dibromomethane	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Dichlorobromomethane	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Dichlorodifluoromethane	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100

Client Sample ID: DG-T17S-0.5-1

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**280**		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Hexachlorobutadiene	ND	*	250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Isopropylbenzene	**62**	**J**	98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Methylene Chloride	ND		980	490	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Methyl tert-butyl ether	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Naphthalene	**260**		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
n-Butylbenzene	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
N-Propylbenzene	**56**	**J**	98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
sec-Butylbenzene	ND		250	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Styrene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
tert-Butylbenzene	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Tetrachloroethene	ND	*	98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Toluene	**1600**		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
trans-1,2-Dichloroethene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
trans-1,3-Dichloropropene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Trichloroethene	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Trichlorofluoromethane	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		490	200	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Vinyl acetate	ND		490	250	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Vinyl chloride	ND		250	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Xylenes, Total	**1700**		200	98	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
Ethylene Dibromide	ND		98	49	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
2-Butanone (MEK)	ND		980	490	ug/Kg		01/30/19 15:42	02/05/19 14:57	100
4-Methyl-2-pentanone (MIBK)	ND		490	200	ug/Kg		01/30/19 15:42	02/05/19 14:57	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*60 - 140*	*01/30/19 15:42*	*02/05/19 14:57*	*100*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*01/30/19 15:42*	*02/05/19 14:57*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		98	49	ug/Kg		01/30/19 15:42	01/31/19 17:36	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*60 - 140*	*01/30/19 15:42*	*01/31/19 17:36*	*100*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*	*01/30/19 15:42*	*01/31/19 17:36*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**2100**		500	250	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Acenaphthene	ND		250	140	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Acenaphthylene	**140**	**J**	250	120	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Anthracene	**330**		250	100	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Benzo[a]anthracene	**350**		250	75	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Benzo[a]pyrene	**210**	**J B**	250	95	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Benzo[b]fluoranthene	**410**	**B**	250	100	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Benzo[g,h,i]perylene	ND		250	210	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Benzo[k]fluoranthene	**170**	**J B**	250	100	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Chrysene	**340**		250	70	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Dibenz(a,h)anthracene	ND		250	170	ug/Kg		01/31/19 15:15	02/08/19 19:59	50

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Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**740**	**B**	250	70	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Fluorene	ND		250	110	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Indeno[1,2,3-cd]pyrene	ND		250	210	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Naphthalene	**1300**		250	170	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Phenanthrene	**740**		250	90	ug/Kg		01/31/19 15:15	02/08/19 19:59	50
Pyrene	**630**	**B**	250	85	ug/Kg		01/31/19 15:15	02/08/19 19:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*33 - 120*	*01/31/19 15:15*	*02/08/19 19:59*	*50*
Terphenyl-d14	*96*		*35 - 146*	*01/31/19 15:15*	*02/08/19 19:59*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1200**		99	37	mg/Kg		02/01/19 09:17	02/08/19 03:58	50
Motor Oil Range Organics [C24-C36]	**3400**		2500	490	mg/Kg		02/01/19 09:17	02/08/19 03:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/08/19 03:58*	*50*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	1.2	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
4,4'-DDE	**2.6**	**J**	3.9	0.83	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
4,4'-DDT	ND		3.9	0.81	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Aldrin	ND		3.9	0.98	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
alpha-BHC	ND		3.9	1.1	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
alpha-Chlordane	ND		3.9	0.79	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
beta-BHC	ND		3.9	0.71	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Chlordane (technical)	ND		79	6.3	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
delta-BHC	ND		3.9	0.87	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Dieldrin	ND		3.9	1.2	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Endosulfan I	ND		3.9	0.63	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Endosulfan II	ND		3.9	0.96	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Endosulfan sulfate	ND		3.9	0.75	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Endrin	ND		3.9	0.90	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Endrin ketone	ND		3.9	0.65	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
gamma-Chlordane	ND		3.9	0.90	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Heptachlor	ND		3.9	0.90	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Heptachlor epoxide	ND		3.9	0.69	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Methoxychlor	ND		3.9	1.3	ug/Kg		01/31/19 09:29	02/09/19 21:59	2
Toxaphene	ND		79	13	ug/Kg		01/31/19 09:29	02/09/19 21:59	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*21 - 136*	*01/31/19 09:29*	*02/09/19 21:59*	*2*
Tetrachloro-m-xylene	*85*		*21 - 145*	*01/31/19 09:29*	*02/09/19 21:59*	*2*

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Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:43	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:43	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:43	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:43	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:43	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:43	1
Aroclor 1260	**33**	**J**	50	17	ug/Kg		01/31/19 13:24	02/04/19 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*45*		*45 - 120*	*01/31/19 13:24*	*02/04/19 19:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**	**J**	7.5	1.2	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Arsenic	**4.2**	**J**	15	1.3	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Barium	**140**		7.5	1.1	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Beryllium	ND		1.5	0.49	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Cadmium	**0.57**	**J**	1.9	0.19	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Chromium	**27**		7.5	0.79	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Cobalt	**5.9**		3.0	0.30	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Copper	**55**		22	11	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Lead	**110**	**B**	7.5	1.6	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Molybdenum	ND		7.5	0.96	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Nickel	**26**		7.5	0.76	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Selenium	**2.6**	**J**	15	2.2	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Silver	ND		3.7	0.75	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Thallium	**13**		7.5	2.2	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Vanadium	**34**		7.5	1.0	mg/Kg		01/29/19 17:33	02/07/19 21:41	20
Zinc	**110**		22	9.5	mg/Kg		01/29/19 17:33	02/07/19 21:41	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.073**		0.015	0.0022	mg/Kg		02/08/19 09:30	02/09/19 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.9**		0.1	0.05	%			01/30/19 13:54	1

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Lab Sample ID: 720-91048-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		84	59	ug/Kg		01/28/19 19:00	01/31/19 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/28/19 19:00*	*01/31/19 12:19*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/28/19 19:00*	*01/31/19 12:19*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/28/19 19:00*	*01/31/19 12:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.4	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,1,1-Trichloroethane	ND	F2	0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,1,2-Trichloroethane	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,1-Dichloroethane	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,1-Dichloropropene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,2,3-Trichlorobenzene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,2,4-Trichlorobenzene	ND		4.2	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,2,4-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,2-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,2-Dichloroethane	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,2-Dichloropropane	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,3,5-Trimethylbenzene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,3-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,3-Dichloropropane	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,4-Dichlorobenzene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
2,2-Dichloropropane	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
2-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
2-Hexanone	ND		8.4	4.2	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
4-Chlorotoluene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
4-Isopropyltoluene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Benzene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Bromobenzene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Bromoform	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Bromomethane	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Carbon disulfide	ND	F2	1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Chlorobenzene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Chlorobromomethane	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Chloroethane	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Chloroform	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Chloromethane	ND	F2	1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
cis-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
cis-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Chlorodibromomethane	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Dibromomethane	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Dichlorobromomethane	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1

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Date Collected: 01/28/19 10:30
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Lab Sample ID: 720-91048-16

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Ethylbenzene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Hexachlorobutadiene	ND	F1	1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Isopropylbenzene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Methylene Chloride	ND		8.4	4.2	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Methyl tert-butyl ether	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Naphthalene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
n-Butylbenzene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
N-Propylbenzene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
sec-Butylbenzene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Styrene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
tert-Butylbenzene	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Tetrachloroethene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Toluene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
trans-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
trans-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Trichloroethene	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Trichlorofluoromethane	ND	F2	1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.4	4.2	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Vinyl acetate	ND		6.7	3.4	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Vinyl chloride	ND		1.7	0.84	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
Ethylene Dibromide	ND		0.84	0.42	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
2-Butanone (MEK)	ND		8.4	4.2	ug/Kg		01/28/19 19:00	01/31/19 12:19	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		01/28/19 19:00	01/31/19 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/28/19 19:00*	*01/31/19 12:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/28/19 19:00*	*01/31/19 12:19*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		98	49	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Acenaphthene	ND	F1	49	27	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Acenaphthylene	ND		49	23	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Anthracene	**34**	**J F1**	49	20	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Benzo[a]anthracene	**18**	**J**	49	15	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Benzo[a]pyrene	**41**	**J F1 B**	49	19	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Benzo[b]fluoranthene	**78**	**B**	49	20	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Benzo[g,h,i]perylene	ND	F1	49	42	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Benzo[k]fluoranthene	**36**	**J F1 B**	49	20	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Chrysene	**28**	**J F1**	49	14	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Dibenz(a,h)anthracene	ND	F1	49	34	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Fluoranthene	**46**	**J F1 B**	49	14	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Fluorene	ND	F1	49	21	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Indeno[1,2,3-cd]pyrene	ND	F1	49	41	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Naphthalene	ND		49	34	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Phenanthrene	**24**	**J F1**	49	18	ug/Kg		01/31/19 15:15	02/08/19 18:02	10
Pyrene	**54**	**B**	49	17	ug/Kg		01/31/19 15:15	02/08/19 18:02	10

Client Sample ID: DG-T17S-3.5-4

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*33 - 120*	*01/31/19 15:15*	*02/08/19 18:02*	*10*
Terphenyl-d14	*76*		*35 - 146*	*01/31/19 15:15*	*02/08/19 18:02*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**59**		5.9	2.2	mg/Kg		01/31/19 10:52	02/05/19 20:06	3
Motor Oil Range Organics [C24-C36]	**200**		150	30	mg/Kg		01/31/19 10:52	02/05/19 20:06	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*91*		*40 - 130*	*01/31/19 10:52*	*02/05/19 20:06*	*3*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Aldrin	ND		1.9	0.48	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
alpha-BHC	ND		1.9	0.53	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
beta-BHC	ND		1.9	0.35	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Chlordane (technical)	ND		38	3.1	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
delta-BHC	ND		1.9	0.42	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Dieldrin	**0.94**	**J**	1.9	0.57	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Endosulfan I	ND		1.9	0.31	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Endosulfan II	ND		1.9	0.47	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Endrin	ND		1.9	0.44	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Endrin ketone	ND		1.9	0.32	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
gamma-Chlordane	ND	F1	1.9	0.44	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Heptachlor	ND		1.9	0.44	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Methoxychlor	ND		1.9	0.65	ug/Kg		01/30/19 14:33	02/05/19 09:55	1
Toxaphene	ND		38	6.5	ug/Kg		01/30/19 14:33	02/05/19 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*21 - 136*	*01/30/19 14:33*	*02/05/19 09:55*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*01/30/19 14:33*	*02/05/19 09:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	F1	50	17	ug/Kg		01/31/19 13:24	02/01/19 17:22	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:22	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:22	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:22	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:22	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:22	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 17:22	1

Client Sample ID: DG-T17S-3.5-4

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*47*		*45 - 120*	*01/31/19 13:24*	*02/01/19 17:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.81**	**J F1**	1.9	0.32	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Arsenic	**23**		3.8	0.33	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Barium	**68**		1.9	0.27	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Beryllium	ND		0.38	0.13	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Cadmium	**0.39**	**J**	0.48	0.048	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Chromium	**13**		1.9	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Cobalt	**9.0**		0.77	0.077	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Copper	**120**		5.8	2.7	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Lead	**95**	**B F1**	1.9	0.40	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Molybdenum	**0.37**	**J**	1.9	0.25	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Nickel	**11**		1.9	0.20	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Selenium	**1.2**	**J**	3.8	0.58	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Silver	ND		0.96	0.19	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Thallium	**39**		1.9	0.56	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Vanadium	**99**	**F1**	1.9	0.26	mg/Kg		01/29/19 17:33	02/07/19 20:10	4
Zinc	**71**		5.8	2.4	mg/Kg		01/29/19 17:33	02/07/19 20:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.091**		0.014	0.0021	mg/Kg		01/29/19 11:04	02/11/19 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-T17S-7-7.5

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-17

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		95	67	ug/Kg		01/28/19 19:00	02/01/19 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/28/19 19:00*	*02/01/19 14:02*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/28/19 19:00*	*02/01/19 14:02*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/28/19 19:00*	*02/01/19 14:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
2-Hexanone	ND		10	5.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Benzene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Bromobenzene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Bromoform	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Bromomethane	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Carbon disulfide	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Chlorobenzene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Chloroethane	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Chloroform	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Chloromethane	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Dibromomethane	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1

Client Sample ID: DG-T17S-7-7.5

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-17

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Ethylbenzene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Methylene Chloride	ND		10	5.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Naphthalene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Styrene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Toluene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Trichloroethene	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Vinyl acetate	ND		8.0	4.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Vinyl chloride	ND		2.0	1.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
2-Butanone (MEK)	**19**		10	5.0	ug/Kg		01/28/19 19:00	02/01/19 00:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg		01/28/19 19:00	02/01/19 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/28/19 19:00*	*02/01/19 00:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/28/19 19:00*	*02/01/19 00:56*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**200**		97	48	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Acenaphthene	ND		48	27	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Acenaphthylene	ND		48	23	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Anthracene	**87**		48	19	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Benzo[a]anthracene	**140**		48	14	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Benzo[a]pyrene	**230**	**B**	48	18	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Benzo[b]fluoranthene	**400**	**B**	48	20	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Benzo[g,h,i]perylene	**130**		48	42	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Benzo[k]fluoranthene	**98**	**B**	48	20	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Chrysene	**170**		48	14	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Dibenz(a,h)anthracene	**69**	**B**	48	34	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Fluoranthene	**270**	**B**	48	14	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Fluorene	**61**		48	21	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Indeno[1,2,3-cd]pyrene	**100**	**B**	48	41	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Naphthalene	**480**		48	34	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Phenanthrene	**260**		48	17	ug/Kg		01/31/19 15:15	02/08/19 20:23	10
Pyrene	**240**	**B**	48	16	ug/Kg		01/31/19 15:15	02/08/19 20:23	10

Client Sample ID: DG-T17S-7-7.5

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*33 - 120*	*01/31/19 15:15*	*02/08/19 20:23*	*10*
Terphenyl-d14	*95*		*35 - 146*	*01/31/19 15:15*	*02/08/19 20:23*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**940**		19	7.3	mg/Kg		02/01/19 09:17	02/09/19 19:19	10
Motor Oil Range Organics [C24-C36]	**900**		490	97	mg/Kg		02/01/19 09:17	02/09/19 19:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/09/19 19:19*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Aldrin	ND		2.0	0.49	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Endrin	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/31/19 09:29	02/09/19 22:15	1
Toxaphene	ND		39	6.7	ug/Kg		01/31/19 09:29	02/09/19 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*21 - 136*	*01/31/19 09:29*	*02/09/19 22:15*	*1*
Tetrachloro-m-xylene	*82*		*21 - 145*	*01/31/19 09:29*	*02/09/19 22:15*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:33	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:33	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:33	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:33	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:33	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:33	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/05/19 12:33	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-T17S-7-7.5

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*01/31/19 13:24*	*02/05/19 12:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.3		1.8	0.29	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Arsenic	12		3.5	0.30	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Barium	400		1.8	0.25	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Beryllium	0.90		0.35	0.12	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Cadmium	2.1		0.44	0.044	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Chromium	34		1.8	0.19	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Cobalt	8.2		0.71	0.071	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Copper	2300		5.3	2.5	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Lead	3300	B	1.8	0.37	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Molybdenum	1.3	J	1.8	0.23	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Nickel	26		1.8	0.18	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Selenium	ND		3.5	0.53	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Silver	2.4	B	0.88	0.18	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Thallium	20		1.8	0.51	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Vanadium	52		1.8	0.24	mg/Kg		01/29/19 17:33	02/07/19 21:46	4
Zinc	1000		5.3	2.2	mg/Kg		01/29/19 17:33	02/07/19 21:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.015	0.0022	mg/Kg		02/08/19 09:30	02/09/19 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	46.3		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-W15S-0.5-1

Date Collected: 01/28/19 11:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-18

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		93	65	ug/Kg		01/28/19 19:00	02/01/19 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/28/19 19:00*	*02/01/19 01:20*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/28/19 19:00*	*02/01/19 01:20*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/28/19 19:00*	*02/01/19 01:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.3	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,1,1-Trichloroethane	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,1,2-Trichloroethane	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,1-Dichloroethane	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,1-Dichloroethene	ND		1.9	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,1-Dichloropropene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,2,3-Trichlorobenzene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,2,4-Trichlorobenzene	ND		4.6	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,2,4-Trimethylbenzene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,2-Dibromo-3-Chloropropane	ND		4.6	1.9	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,2-Dichlorobenzene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,2-Dichloroethane	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,2-Dichloropropane	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,3,5-Trimethylbenzene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,3-Dichlorobenzene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,3-Dichloropropane	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,4-Dichlorobenzene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
2,2-Dichloropropane	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
2-Chlorotoluene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
2-Hexanone	ND		9.3	4.6	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
4-Chlorotoluene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
4-Isopropyltoluene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Benzene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Bromobenzene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Bromoform	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Bromomethane	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Carbon disulfide	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Carbon tetrachloride	ND		1.9	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Chlorobenzene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Chlorobromomethane	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Chloroethane	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Chloroform	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Chloromethane	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
cis-1,2-Dichloroethene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
cis-1,3-Dichloropropene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Chlorodibromomethane	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Dibromomethane	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Dichlorobromomethane	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1

Client Sample ID: DG-W15S-0.5-1

Date Collected: 01/28/19 11:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-18

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Ethylbenzene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Hexachlorobutadiene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Isopropylbenzene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Methylene Chloride	ND		9.3	4.6	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Methyl tert-butyl ether	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Naphthalene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
n-Butylbenzene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
N-Propylbenzene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
sec-Butylbenzene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Styrene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
tert-Butylbenzene	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Tetrachloroethene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Toluene	**0.53**	**J**	0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
trans-1,2-Dichloroethene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
trans-1,3-Dichloropropene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Trichloroethene	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Trichlorofluoromethane	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.3	4.6	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Vinyl acetate	ND		7.4	3.7	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Vinyl chloride	ND		1.9	0.93	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
Ethylene Dibromide	ND		0.93	0.46	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
2-Butanone (MEK)	ND		9.3	4.6	ug/Kg		01/28/19 19:00	02/01/19 01:20	1
4-Methyl-2-pentanone (MIBK)	ND		4.6	2.3	ug/Kg		01/28/19 19:00	02/01/19 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/28/19 19:00*	*02/01/19 01:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/28/19 19:00*	*02/01/19 01:20*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		2000	990	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Acenaphthene	ND		990	560	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Acenaphthylene	ND		990	480	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Anthracene	ND		990	400	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Benzo[a]anthracene	ND		990	300	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Benzo[a]pyrene	**540**	**J B**	990	380	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Benzo[b]fluoranthene	**610**	**J B**	990	420	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Benzo[g,h,i]perylene	ND		990	850	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Benzo[k]fluoranthene	**480**	**J B**	990	420	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Chrysene	ND		990	280	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Dibenz(a,h)anthracene	ND		990	690	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Fluoranthene	**350**	**J B**	990	280	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Fluorene	ND		990	440	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Indeno[1,2,3-cd]pyrene	ND		990	830	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Naphthalene	ND		990	690	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Phenanthrene	ND		990	360	ug/Kg		01/31/19 15:15	02/08/19 20:46	200
Pyrene	**490**	**J B**	990	340	ug/Kg		01/31/19 15:15	02/08/19 20:46	200

Client Sample ID: DG-W15S-0.5-1

Date Collected: 01/28/19 11:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*33 - 120*	*01/31/19 15:15*	*02/08/19 20:46*	*200*
Terphenyl-d14	*151*	*X*	*35 - 146*	*01/31/19 15:15*	*02/08/19 20:46*	*200*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**700**		39	15	mg/Kg		02/01/19 09:17	02/09/19 19:49	20
Motor Oil Range Organics [C24-C36]	**2900**		980	200	mg/Kg		02/01/19 09:17	02/09/19 19:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/09/19 19:49*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
4,4'-DDE	ND		20	4.1	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
4,4'-DDT	ND		20	4.0	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Aldrin	ND		20	4.9	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
alpha-BHC	ND		20	5.4	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
alpha-Chlordane	ND		20	3.9	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
beta-BHC	ND		20	3.5	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Chlordane (technical)	ND		390	31	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
delta-BHC	ND		20	4.3	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Dieldrin	ND		20	5.8	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Endosulfan I	ND		20	3.1	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Endosulfan II	ND		20	4.8	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Endosulfan sulfate	ND		20	3.7	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Endrin	ND		20	4.5	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Endrin aldehyde	ND		20	6.2	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Endrin ketone	ND		20	3.2	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
gamma-Chlordane	ND		20	4.5	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Heptachlor	ND		20	4.5	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Heptachlor epoxide	ND		20	3.4	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Methoxychlor	ND		20	6.6	ug/Kg		01/31/19 09:29	02/08/19 09:50	10
Toxaphene	ND		390	66	ug/Kg		01/31/19 09:29	02/08/19 09:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*01/31/19 09:29*	*02/08/19 09:50*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*01/31/19 09:29*	*02/08/19 09:50*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:57	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:57	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:57	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:57	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:57	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:57	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:24	02/04/19 19:57	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-W15S-0.5-1

Date Collected: 01/28/19 11:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-18

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*43*	*X*	*45 - 120*	*01/31/19 13:24*	*02/04/19 19:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.7**	**J**	1.9	0.32	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Arsenic	**1.9**	**J**	3.8	0.32	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Barium	**83**		1.9	0.27	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Beryllium	ND		0.38	0.12	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Cadmium	**0.21**	**J**	0.48	0.047	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Chromium	**26**		1.9	0.20	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Cobalt	**10**		0.76	0.076	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Copper	**37**		5.7	2.7	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Lead	**23**	**B**	1.9	0.40	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Nickel	**28**		1.9	0.19	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Selenium	ND		3.8	0.57	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Silver	ND		0.95	0.19	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Thallium	**22**		1.9	0.55	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Vanadium	**57**		1.9	0.26	mg/Kg		01/29/19 17:33	02/07/19 21:51	4
Zinc	**58**		5.7	2.4	mg/Kg		01/29/19 17:33	02/07/19 21:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.015	0.0021	mg/Kg		02/08/19 09:30	02/09/19 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.3**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-W15S-3.5-4

Date Collected: 01/28/19 11:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-19

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		120	81	ug/Kg		01/30/19 13:19	02/04/19 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*01/30/19 13:19*	*02/04/19 21:19*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/30/19 13:19*	*02/04/19 21:19*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/30/19 13:19*	*02/04/19 21:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		12	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,1,1,2-Tetrachloroethane	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,1,1-Trichloroethane	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,1,2,2-Tetrachloroethane	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,1,2-Trichloroethane	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,1-Dichloroethane	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,1-Dichloroethene	ND		2.3	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,1-Dichloropropene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,2,3-Trichlorobenzene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,2,4-Trichlorobenzene	ND		5.8	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,2,4-Trimethylbenzene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,2-Dibromo-3-Chloropropane	ND		5.8	2.3	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,2-Dichlorobenzene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,2-Dichloroethane	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,2-Dichloropropane	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,3,5-Trimethylbenzene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,3-Dichlorobenzene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,3-Dichloropropane	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,4-Dichlorobenzene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
2,2-Dichloropropane	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
2-Chlorotoluene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
2-Hexanone	ND		12	5.8	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
4-Chlorotoluene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
4-Isopropyltoluene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Benzene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Bromobenzene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Bromoform	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Bromomethane	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Carbon disulfide	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Carbon tetrachloride	ND		2.3	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Chlorobenzene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Chlorobromomethane	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Chloroethane	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Chloroform	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Chloromethane	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
cis-1,2-Dichloroethene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
cis-1,3-Dichloropropene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Chlorodibromomethane	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Dibromomethane	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Dichlorobromomethane	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1

Client Sample ID: DG-W15S-3.5-4

Date Collected: 01/28/19 11:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-19

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Ethylbenzene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Hexachlorobutadiene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Isopropylbenzene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Methylene Chloride	ND		12	5.8	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Methyl tert-butyl ether	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Naphthalene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
n-Butylbenzene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
N-Propylbenzene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
sec-Butylbenzene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Styrene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
tert-Butylbenzene	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Tetrachloroethene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Toluene	**0.68**	**J**	1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
trans-1,2-Dichloroethene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
trans-1,3-Dichloropropene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Trichloroethene	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Trichlorofluoromethane	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	5.8	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Vinyl acetate	ND		9.3	4.6	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Vinyl chloride	ND		2.3	1.2	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Xylenes, Total	ND		2.3	1.5	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
Ethylene Dibromide	ND		1.2	0.58	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
2-Butanone (MEK)	ND		12	5.8	ug/Kg		01/30/19 13:19	02/04/19 21:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.8	2.9	ug/Kg		01/30/19 13:19	02/04/19 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*01/30/19 13:19*	*02/04/19 21:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/30/19 13:19*	*02/04/19 21:19*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		990	490	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Acenaphthene	ND		490	280	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Acenaphthylene	ND		490	240	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Anthracene	ND	F1	490	200	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Benzo[a]anthracene	ND	F1	490	150	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Benzo[a]pyrene	**260**	**J F1**	490	190	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Benzo[b]fluoranthene	**260**	**J F1**	490	210	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Benzo[g,h,i]perylene	ND	F1	490	420	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Benzo[k]fluoranthene	**210**	**J**	490	210	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Chrysene	ND	F1	490	140	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Dibenz(a,h)anthracene	ND	F1	490	350	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Fluoranthene	ND		490	140	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Fluorene	ND		490	220	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Indeno[1,2,3-cd]pyrene	ND		490	410	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Naphthalene	ND		490	350	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Phenanthrene	ND		490	180	ug/Kg		01/31/19 12:10	02/05/19 11:19	100
Pyrene	**580**		490	170	ug/Kg		01/31/19 12:10	02/05/19 11:19	100

Client Sample ID: DG-W15S-3.5-4

Date Collected: 01/28/19 11:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*33 - 120*	*01/31/19 12:10*	*02/05/19 11:19*	*100*
Terphenyl-d14	*118*		*35 - 146*	*01/31/19 12:10*	*02/05/19 11:19*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2200**		39	15	mg/Kg		01/31/19 13:40	02/06/19 16:25	20
Motor Oil Range Organics [C24-C36]	**4400**		990	200	mg/Kg		01/31/19 13:40	02/06/19 16:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/31/19 13:40*	*02/06/19 16:25*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	1.2	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
4,4'-DDE	ND		3.9	0.83	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
4,4'-DDT	ND	F2	3.9	0.81	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Aldrin	ND		3.9	0.99	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
alpha-BHC	ND		3.9	1.1	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
alpha-Chlordane	ND		3.9	0.79	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
beta-BHC	ND		3.9	0.71	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Chlordane (technical)	ND		79	6.3	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
delta-BHC	ND		3.9	0.87	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Dieldrin	ND		3.9	1.2	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Endosulfan I	ND	F2	3.9	0.63	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Endosulfan II	ND		3.9	0.97	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Endosulfan sulfate	ND	F2	3.9	0.75	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Endrin	ND	F2	3.9	0.91	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Endrin ketone	ND		3.9	0.65	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
gamma-Chlordane	ND	F2	3.9	0.91	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Heptachlor	ND		3.9	0.91	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Heptachlor epoxide	ND		3.9	0.69	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Methoxychlor	ND		3.9	1.3	ug/Kg		01/31/19 09:29	02/05/19 10:47	2
Toxaphene	ND		79	13	ug/Kg		01/31/19 09:29	02/05/19 10:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*21 - 136*	*01/31/19 09:29*	*02/05/19 10:47*	*2*
Tetrachloro-m-xylene	*93*		*21 - 145*	*01/31/19 09:29*	*02/05/19 10:47*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:36	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:36	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:36	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:36	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:36	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:36	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:36	1

Client Sample ID: DG-W15S-3.5-4

Date Collected: 01/28/19 11:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*47*		*45 - 120*	*01/31/19 13:33*	*02/01/19 19:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**	**J B F1**	1.9	0.32	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Arsenic	**3.9**	**F1**	3.8	0.32	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Barium	**57**	**F1**	1.9	0.27	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Beryllium	**0.14**	**J B F1**	0.38	0.12	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Cadmium	**0.13**	**J F1**	0.48	0.047	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Chromium	**13**	**B F1**	1.9	0.20	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Cobalt	**4.3**	**B F1**	0.76	0.076	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Copper	**80**	**F1 F2**	5.7	2.7	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Lead	**110**	**B F1**	1.9	0.40	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Molybdenum	ND	F1	1.9	0.24	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Nickel	**19**	**F1**	1.9	0.19	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Selenium	ND	F1	3.8	0.57	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Silver	**0.20**	**J F1**	0.95	0.19	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Thallium	**0.93**	**J B ^ F1**	1.9	0.55	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Vanadium	**30**	**F1**	1.9	0.26	mg/Kg		01/30/19 17:11	01/31/19 10:25	4
Zinc	**45**	**F1**	5.7	2.4	mg/Kg		01/30/19 17:11	01/31/19 10:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**		0.015	0.0023	mg/Kg		02/08/19 09:30	02/09/19 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.05	%			01/30/19 13:54	1

Client Sample ID: DG-X17S-0.5-1

Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		97	68	ug/Kg		01/28/19 19:00	02/01/19 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/28/19 19:00*	*02/01/19 01:45*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/28/19 19:00*	*02/01/19 01:45*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/28/19 19:00*	*02/01/19 01:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.7	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,1,1-Trichloroethane	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,1,2-Trichloroethane	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,1-Dichloroethane	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,1-Dichloroethene	ND		1.9	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,1-Dichloropropene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,2,3-Trichlorobenzene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,2,4-Trichlorobenzene	ND		4.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,2,4-Trimethylbenzene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,2-Dibromo-3-Chloropropane	ND		4.9	1.9	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,2-Dichlorobenzene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,2-Dichloroethane	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,2-Dichloropropane	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,3,5-Trimethylbenzene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,3-Dichlorobenzene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,3-Dichloropropane	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,4-Dichlorobenzene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
2,2-Dichloropropane	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
2-Chlorotoluene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
2-Hexanone	ND		9.7	4.9	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
4-Chlorotoluene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
4-Isopropyltoluene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Benzene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Bromobenzene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Bromoform	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Bromomethane	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Carbon disulfide	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Carbon tetrachloride	ND		1.9	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Chlorobenzene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Chlorobromomethane	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Chloroethane	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Chloroform	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Chloromethane	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
cis-1,2-Dichloroethene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
cis-1,3-Dichloropropene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Chlorodibromomethane	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Dibromomethane	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Dichlorobromomethane	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1

Client Sample ID: DG-X17S-0.5-1

Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-20

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Ethylbenzene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Hexachlorobutadiene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Isopropylbenzene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Methylene Chloride	ND		9.7	4.9	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Methyl tert-butyl ether	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Naphthalene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
n-Butylbenzene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
N-Propylbenzene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
sec-Butylbenzene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Styrene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
tert-Butylbenzene	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Tetrachloroethene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Toluene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
trans-1,2-Dichloroethene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
trans-1,3-Dichloropropene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Trichloroethene	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Trichlorofluoromethane	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	4.9	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Vinyl acetate	ND		7.8	3.9	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Vinyl chloride	ND		1.9	0.97	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Xylenes, Total	ND		1.9	1.3	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
Ethylene Dibromide	ND		0.97	0.49	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
2-Butanone (MEK)	ND		9.7	4.9	ug/Kg		01/28/19 19:00	02/01/19 01:45	1
4-Methyl-2-pentanone (MIBK)	ND		4.9	2.4	ug/Kg		01/28/19 19:00	02/01/19 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/28/19 19:00*	*02/01/19 01:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/28/19 19:00*	*02/01/19 01:45*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		990	500	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Acenaphthene	ND		500	280	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Acenaphthylene	ND		500	240	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Anthracene	ND		500	200	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Benzo[a]anthracene	ND		500	150	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Benzo[a]pyrene	**230**	**J B**	500	190	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Benzo[b]fluoranthene	**250**	**J B**	500	210	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Benzo[g,h,i]perylene	ND		500	430	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Benzo[k]fluoranthene	**210**	**J B**	500	210	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Chrysene	ND		500	140	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Dibenz(a,h)anthracene	ND		500	350	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Fluoranthene	ND		500	140	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Fluorene	ND		500	220	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Indeno[1,2,3-cd]pyrene	ND		500	420	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Naphthalene	ND		500	350	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Phenanthrene	ND		500	180	ug/Kg		01/31/19 15:15	02/08/19 21:10	100
Pyrene	**200**	**J B**	500	170	ug/Kg		01/31/19 15:15	02/08/19 21:10	100

Client Sample ID: DG-X17S-0.5-1

Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*33 - 120*	*01/31/19 15:15*	*02/08/19 21:10*	*100*
Terphenyl-d14	*134*		*35 - 146*	*01/31/19 15:15*	*02/08/19 21:10*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	420		20	7.4	mg/Kg		02/01/19 09:17	02/09/19 20:19	10
Motor Oil Range Organics [C24-C36]	1600		490	98	mg/Kg		02/01/19 09:17	02/09/19 20:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/09/19 20:19*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
4,4'-DDE	ND		20	4.1	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
4,4'-DDT	ND		20	4.0	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Aldrin	ND		20	4.9	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
alpha-BHC	ND		20	5.4	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
alpha-Chlordane	ND		20	3.9	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
beta-BHC	ND		20	3.5	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Chlordane (technical)	ND		390	31	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
delta-BHC	ND		20	4.3	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Dieldrin	ND		20	5.8	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Endosulfan I	ND		20	3.1	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Endosulfan II	ND		20	4.8	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Endosulfan sulfate	ND		20	3.7	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Endrin	ND		20	4.5	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Endrin aldehyde	ND		20	6.2	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Endrin ketone	ND		20	3.2	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
gamma-Chlordane	ND		20	4.5	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Heptachlor	ND		20	4.5	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Heptachlor epoxide	ND		20	3.4	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Methoxychlor	ND		20	6.7	ug/Kg		01/31/19 09:29	02/08/19 10:07	10
Toxaphene	ND		390	67	ug/Kg		01/31/19 09:29	02/08/19 10:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*01/31/19 09:29*	*02/08/19 10:07*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*01/31/19 09:29*	*02/08/19 10:07*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 20:11	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 20:11	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 20:11	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 20:11	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 20:11	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 20:11	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:24	02/04/19 20:11	1

Client Sample ID: DG-X17S-0.5-1

Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*01/31/19 13:24*	*02/04/19 20:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.73**	**J B**	1.3	0.22	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Arsenic	**4.3**		2.6	0.23	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Barium	**95**		1.3	0.19	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Beryllium	**0.18**	**J B**	0.26	0.086	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Cadmium	**0.16**	**J**	0.33	0.033	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Chromium	**26**	**B**	1.3	0.14	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Cobalt	**6.1**	**B**	0.53	0.053	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Copper	**62**		4.0	1.9	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Lead	**55**	**B**	1.3	0.28	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Molybdenum	**0.36**	**J**	1.3	0.17	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Nickel	**32**		1.3	0.14	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Selenium	**0.90**	**J**	2.6	0.40	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Silver	ND		0.66	0.13	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Thallium	ND		1.3	0.38	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Vanadium	**35**		1.3	0.18	mg/Kg		01/30/19 17:11	01/31/19 15:41	4
Zinc	**56**		4.0	1.7	mg/Kg		01/30/19 17:11	01/31/19 15:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**		0.015	0.0022	mg/Kg		02/08/19 09:30	02/09/19 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.8**		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-X17S-3.5-4

Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-21

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	54	ug/Kg		01/28/19 19:00	02/01/19 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/28/19 19:00*	*02/01/19 02:09*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*	*01/28/19 19:00*	*02/01/19 02:09*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*02/01/19 02:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Benzene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Bromoform	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Chloroform	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1

Client Sample ID: DG-X17S-3.5-4

Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-21

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Styrene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Toluene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/28/19 19:00	02/01/19 02:09	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		01/28/19 19:00	02/01/19 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/28/19 19:00*	*02/01/19 02:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/28/19 19:00*	*02/01/19 02:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		2000	980	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Acenaphthene	ND		980	550	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Acenaphthylene	ND		980	470	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Anthracene	ND		980	390	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Benzo[a]anthracene	ND		980	290	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Benzo[a]pyrene	**550**	**J B**	980	370	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Benzo[b]fluoranthene	**550**	**J**	980	410	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Benzo[g,h,i]perylene	ND		980	840	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Benzo[k]fluoranthene	**450**	**J B**	980	410	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Chrysene	ND		980	270	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Dibenz(a,h)anthracene	ND		980	690	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Fluoranthene	**270**	**J**	980	270	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Fluorene	ND		980	430	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Indeno[1,2,3-cd]pyrene	ND		980	820	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Naphthalene	ND		980	690	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Phenanthrene	ND		980	350	ug/Kg		02/01/19 10:22	02/08/19 07:35	200
Pyrene	**560**	**J**	980	330	ug/Kg		02/01/19 10:22	02/08/19 07:35	200

Client Sample ID: DG-X17S-3.5-4

Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*02/01/19 10:22*	*02/08/19 07:35*	*200*
Terphenyl-d14	*169*	*X*	*35 - 146*	*02/01/19 10:22*	*02/08/19 07:35*	*200*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1500**		97	36	mg/Kg		02/01/19 09:17	02/08/19 03:00	50
Motor Oil Range Organics [C24-C36]	**4600**		2400	490	mg/Kg		02/01/19 09:17	02/08/19 03:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/08/19 03:00*	*50*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.0	1.2	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
4,4'-DDE	ND		4.0	0.83	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
4,4'-DDT	ND		4.0	0.81	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Aldrin	ND		4.0	0.99	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
alpha-BHC	ND		4.0	1.1	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
alpha-Chlordane	ND		4.0	0.79	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
beta-BHC	ND		4.0	0.71	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Chlordane (technical)	ND		79	6.3	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
delta-BHC	ND		4.0	0.87	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Dieldrin	ND		4.0	1.2	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Endosulfan I	ND		4.0	0.63	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Endosulfan II	ND		4.0	0.97	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Endosulfan sulfate	ND		4.0	0.75	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Endrin	ND		4.0	0.91	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Endrin aldehyde	ND		4.0	1.3	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Endrin ketone	ND		4.0	0.65	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
gamma-BHC (Lindane)	ND		4.0	1.3	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
gamma-Chlordane	ND		4.0	0.91	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Heptachlor	ND		4.0	0.91	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Heptachlor epoxide	ND		4.0	0.69	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Methoxychlor	ND		4.0	1.3	ug/Kg		01/31/19 09:29	02/08/19 10:23	2
Toxaphene	ND		79	14	ug/Kg		01/31/19 09:29	02/08/19 10:23	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*21 - 136*	*01/31/19 09:29*	*02/08/19 10:23*	*2*
Tetrachloro-m-xylene	*89*		*21 - 145*	*01/31/19 09:29*	*02/08/19 10:23*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 21:35	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 21:35	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 21:35	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 21:35	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 21:35	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 21:35	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 21:35	1

Client Sample ID: DG-X17S-3.5-4

Date Collected: 01/28/19 11:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-21

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*01/31/19 13:24*	*02/01/19 21:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**33**	**B**	4.7	0.78	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Arsenic	**40**		9.4	0.80	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Barium	**63**		1.9	0.27	mg/Kg		01/30/19 17:11	01/31/19 15:46	4
Beryllium	ND		0.38	0.12	mg/Kg		01/30/19 17:11	01/31/19 15:46	4
Cadmium	**13**		1.2	0.12	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Chromium	**53**	**B**	4.7	0.50	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Cobalt	**12**	**B**	1.9	0.19	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Copper	**730**		14	6.7	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Lead	**17000**	**B**	4.7	0.99	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Molybdenum	**1.7**	**J**	1.9	0.24	mg/Kg		01/30/19 17:11	01/31/19 15:46	4
Nickel	**59**		4.7	0.48	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Selenium	**4.0**	**J**	9.4	1.4	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Silver	**5.3**		2.4	0.48	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Thallium	ND	^	4.7	1.4	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Vanadium	**36**		4.7	0.64	mg/Kg		01/30/19 17:11	02/01/19 11:17	10
Zinc	**5700**		14	6.0	mg/Kg		01/30/19 17:11	02/01/19 11:17	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.073**		0.015	0.0023	mg/Kg		02/08/19 09:30	02/09/19 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		0.1	0.05	%			01/30/19 14:39	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-R13S-0.5-1

Date Collected: 01/28/19 13:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-22

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**30000**		18000	12000	ug/Kg		01/30/19 15:42	02/05/19 15:23	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*	*01/30/19 15:42*	*02/05/19 15:23*	*100*
4-Bromofluorobenzene (Surr)	*93*		*65 - 140*	*01/30/19 15:42*	*02/05/19 15:23*	*100*
Toluene-d8 (Surr)	*109*		*60 - 140*	*01/30/19 15:42*	*02/05/19 15:23*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		880	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,1,1,2-Tetrachloroethane	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,1,1-Trichloroethane	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,1,2,2-Tetrachloroethane	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,1,2-Trichloroethane	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,1-Dichloroethane	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,1-Dichloroethene	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,1-Dichloropropene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,2,3-Trichlorobenzene	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,2,4-Trichlorobenzene	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,2,4-Trimethylbenzene	**310**		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,2-Dibromo-3-Chloropropane	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,2-Dichlorobenzene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,2-Dichloroethane	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,3,5-Trimethylbenzene	**350**		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,3-Dichlorobenzene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,3-Dichloropropane	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,4-Dichlorobenzene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
2,2-Dichloropropane	ND		350	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
2-Chlorotoluene	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
2-Hexanone	ND		2200	880	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
4-Chlorotoluene	ND		440	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
4-Isopropyltoluene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Benzene	**2300**		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Bromobenzene	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Bromoform	ND	*	440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Bromomethane	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Carbon disulfide	ND		440	220	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Carbon tetrachloride	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Chlorobenzene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Chlorobromomethane	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Chloroethane	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Chloroform	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Chloromethane	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
cis-1,2-Dichloroethene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
cis-1,3-Dichloropropene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Chlorodibromomethane	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Dibromomethane	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Dichlorobromomethane	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Dichlorodifluoromethane	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100

Client Sample ID: DG-R13S-0.5-1
Date Collected: 01/28/19 13:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-22
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**210**		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Hexachlorobutadiene	ND	*	440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Isopropylbenzene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Methylene Chloride	ND		1800	880	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Methyl tert-butyl ether	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Naphthalene	**830**		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
n-Butylbenzene	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
N-Propylbenzene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
sec-Butylbenzene	ND		440	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Styrene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
tert-Butylbenzene	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Tetrachloroethene	ND	*	180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Toluene	**4200**		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
trans-1,2-Dichloroethene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
trans-1,3-Dichloropropene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Trichloroethene	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Trichlorofluoromethane	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		880	350	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Vinyl acetate	ND		880	440	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Vinyl chloride	ND		440	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Xylenes, Total	**4300**		350	180	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
Ethylene Dibromide	ND		180	88	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
2-Butanone (MEK)	ND		1800	880	ug/Kg		01/30/19 15:42	02/05/19 15:23	100
4-Methyl-2-pentanone (MIBK)	ND		880	350	ug/Kg		01/30/19 15:42	02/05/19 15:23	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*60 - 140*	*01/30/19 15:42*	*02/05/19 15:23*	*100*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*	*01/30/19 15:42*	*02/05/19 15:23*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		180	88	ug/Kg		01/30/19 15:42	02/07/19 16:08	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*60 - 140*	*01/30/19 15:42*	*02/07/19 16:08*	*100*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*	*01/30/19 15:42*	*02/07/19 16:08*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**3300**		200	98	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Acenaphthene	ND		98	55	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Acenaphthylene	**49**	**J**	98	47	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Anthracene	**150**		98	39	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Benzo[a]anthracene	**300**		98	29	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Benzo[a]pyrene	**200**	**B**	98	37	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Benzo[b]fluoranthene	**470**		98	41	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Benzo[g,h,i]perylene	**160**		98	84	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Benzo[k]fluoranthene	**110**	**B**	98	41	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Chrysene	**620**		98	27	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Dibenz(a,h)anthracene	**140**		98	68	ug/Kg		02/01/19 10:22	02/08/19 07:58	20

Client Sample ID: DG-R13S-0.5-1

Date Collected: 01/28/19 13:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-22

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	240		98	27	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Fluorene	130		98	43	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Indeno[1,2,3-cd]pyrene	120		98	82	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Naphthalene	1500		98	68	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Phenanthrene	1400		98	35	ug/Kg		02/01/19 10:22	02/08/19 07:58	20
Pyrene	330		98	33	ug/Kg		02/01/19 10:22	02/08/19 07:58	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*33 - 120*	*02/01/19 10:22*	*02/08/19 07:58*	*20*
Terphenyl-d14	*79*		*35 - 146*	*02/01/19 10:22*	*02/08/19 07:58*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	350		20	7.4	mg/Kg		02/01/19 09:17	02/08/19 03:29	10
Motor Oil Range Organics [C24-C36]	870		490	98	mg/Kg		02/01/19 09:17	02/08/19 03:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 09:17*	*02/08/19 03:29*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Aldrin	ND		2.0	0.49	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Endrin	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/31/19 09:29	02/08/19 10:39	1
Toxaphene	ND		39	6.7	ug/Kg		01/31/19 09:29	02/08/19 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*21 - 136*	*01/31/19 09:29*	*02/08/19 10:39*	*1*
Tetrachloro-m-xylene	*79*		*21 - 145*	*01/31/19 09:29*	*02/08/19 10:39*	*1*

Client Sample ID: DG-R13S-0.5-1

Date Collected: 01/28/19 13:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-22

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:50	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:50	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:50	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:50	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:50	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:50	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*47*		*45 - 120*	*01/31/19 13:33*	*02/01/19 19:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**54**	**B**	1.7	0.29	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Arsenic	**7.9**		3.5	0.30	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Barium	**110**		1.7	0.25	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Beryllium	**0.47**	**B**	0.35	0.11	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Cadmium	**0.20**	**J**	0.43	0.043	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Chromium	**28**	**B**	1.7	0.18	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Cobalt	**13**	**B**	0.70	0.070	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Copper	**490**		5.2	2.5	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Lead	**1100**	**B**	1.7	0.37	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Molybdenum	**1.0**	**J**	1.7	0.22	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Nickel	**37**		1.7	0.18	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Selenium	ND		3.5	0.52	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Silver	**0.23**	**J**	0.87	0.18	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Thallium	ND		1.7	0.50	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Vanadium	**49**		1.7	0.24	mg/Kg		01/30/19 17:11	01/31/19 15:51	4
Zinc	**130**		5.2	2.2	mg/Kg		01/30/19 17:11	01/31/19 15:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**		0.015	0.0022	mg/Kg		02/08/19 09:30	02/09/19 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DUP-108

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-23

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		01/31/19 21:20	02/01/19 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/31/19 21:20*	*02/01/19 02:34*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/31/19 21:20*	*02/01/19 02:34*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 21:20*	*02/01/19 02:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,1,1-Trichloroethane	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,1,2-Trichloroethane	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,1-Dichloroethane	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,1-Dichloroethene	ND		1.7	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,1-Dichloropropene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,2,4-Trichlorobenzene	ND		4.1	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.7	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,2-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,2-Dichloroethane	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,2-Dichloropropane	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,3-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,3-Dichloropropane	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,4-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
2-Hexanone	ND		8.3	4.1	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
4-Isopropyltoluene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Benzene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Bromobenzene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Bromoform	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Bromomethane	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Carbon disulfide	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Carbon tetrachloride	ND		1.7	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Chlorobenzene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Chloroethane	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Chloroform	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Chloromethane	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
cis-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
cis-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Chlorodibromomethane	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Dibromomethane	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Dichlorobromomethane	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1

Client Sample ID: DUP-108

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-23

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Ethylbenzene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Isopropylbenzene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Methylene Chloride	ND		8.3	4.1	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Methyl tert-butyl ether	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Naphthalene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
N-Propylbenzene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Styrene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Tetrachloroethene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Toluene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
trans-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
trans-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Trichloroethene	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.1	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Vinyl acetate	ND		6.6	3.3	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
Ethylene Dibromide	ND		0.83	0.41	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
2-Butanone (MEK)	ND		8.3	4.1	ug/Kg		01/31/19 21:20	02/01/19 02:34	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.1	ug/Kg		01/31/19 21:20	02/01/19 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 21:20*	*02/01/19 02:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*01/31/19 21:20*	*02/01/19 02:34*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		490	240	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Acenaphthene	ND		240	140	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Acenaphthylene	ND		240	120	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Anthracene	ND		240	98	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Benzo[a]anthracene	ND		240	73	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Benzo[a]pyrene	**130**	**J B**	240	93	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Benzo[b]fluoranthene	**140**	**J**	240	100	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Benzo[g,h,i]perylene	ND		240	210	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Benzo[k]fluoranthene	**120**	**J B**	240	100	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Chrysene	ND		240	68	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Dibenz(a,h)anthracene	ND		240	170	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Fluoranthene	ND		240	68	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Fluorene	ND		240	110	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Indeno[1,2,3-cd]pyrene	ND		240	200	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Naphthalene	ND		240	170	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Phenanthrene	ND		240	88	ug/Kg		02/01/19 10:22	02/08/19 22:44	50
Pyrene	**100**	**J**	240	83	ug/Kg		02/01/19 10:22	02/08/19 22:44	50

Client Sample ID: DUP-108

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-23

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*36*		*33 - 120*	*02/01/19 10:22*	*02/08/19 22:44*	*50*
Terphenyl-d14	*54*		*35 - 146*	*02/01/19 10:22*	*02/08/19 22:44*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**510**		39	15	mg/Kg		01/31/19 15:50	02/09/19 18:50	20
Motor Oil Range Organics [C24-C36]	**2600**		990	200	mg/Kg		01/31/19 15:50	02/09/19 18:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/31/19 15:50*	*02/09/19 18:50*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
4,4'-DDE	ND		20	4.1	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
4,4'-DDT	ND		20	4.0	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Aldrin	ND		20	4.9	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
alpha-BHC	ND		20	5.4	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
alpha-Chlordane	ND		20	3.9	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
beta-BHC	ND		20	3.5	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Chlordane (technical)	ND		390	31	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
delta-BHC	ND		20	4.3	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Dieldrin	ND		20	5.8	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Endosulfan I	ND		20	3.1	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Endosulfan II	ND		20	4.8	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Endosulfan sulfate	ND		20	3.7	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Endrin	ND		20	4.5	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Endrin aldehyde	ND		20	6.2	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Endrin ketone	ND		20	3.2	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
gamma-Chlordane	ND		20	4.5	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Heptachlor	ND		20	4.5	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Heptachlor epoxide	ND		20	3.4	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Methoxychlor	ND		20	6.7	ug/Kg		01/31/19 09:29	02/08/19 10:55	10
Toxaphene	ND		390	67	ug/Kg		01/31/19 09:29	02/08/19 10:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*01/31/19 09:29*	*02/08/19 10:55*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*01/31/19 09:29*	*02/08/19 10:55*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:08	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:08	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:08	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:08	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:08	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:08	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:08	1

Client Sample ID: DUP-108

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-23

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*46*		*45 - 120*	*01/31/19 13:33*	*02/04/19 18:08*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**	**J B**	1.8	0.29	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Arsenic	**5.6**		3.5	0.30	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Barium	**85**		1.8	0.25	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Beryllium	**0.11**	**J B**	0.35	0.11	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Cadmium	**0.061**	**J**	0.44	0.044	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Chromium	**30**	**B**	1.8	0.19	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Cobalt	**11**	**B**	0.70	0.070	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Copper	**36**		5.3	2.5	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Lead	**13**	**B**	1.8	0.37	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Molybdenum	ND		1.8	0.22	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Nickel	**40**		1.8	0.18	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Selenium	ND		3.5	0.53	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Silver	ND		0.88	0.18	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Thallium	ND		1.8	0.51	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Vanadium	**58**		1.8	0.24	mg/Kg		01/30/19 17:11	01/31/19 15:55	4
Zinc	**53**		5.3	2.2	mg/Kg		01/30/19 17:11	01/31/19 15:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0083**	**J**	0.015	0.0022	mg/Kg		02/08/19 09:30	02/09/19 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.7**		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DUP-121

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-24

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	190		100	72	ug/Kg		01/31/19 21:20	02/01/19 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/31/19 21:20*	*02/01/19 02:59*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/31/19 21:20*	*02/01/19 02:59*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 21:20*	*02/01/19 02:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,1,1,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,1,1-Trichloroethane	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,1,2-Trichloroethane	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,1-Dichloroethane	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,1-Dichloroethene	ND		2.1	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,1-Dichloropropene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,2,3-Trichlorobenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,2,4-Trichlorobenzene	ND		5.2	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,2,4-Trimethylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,2-Dibromo-3-Chloropropane	ND		5.2	2.1	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,2-Dichlorobenzene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,2-Dichloroethane	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,2-Dichloropropane	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,3,5-Trimethylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,3-Dichlorobenzene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,3-Dichloropropane	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,4-Dichlorobenzene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
2,2-Dichloropropane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
2-Chlorotoluene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
2-Hexanone	ND		10	5.2	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
4-Chlorotoluene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
4-Isopropyltoluene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Benzene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Bromobenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Bromoform	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Bromomethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Carbon disulfide	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Carbon tetrachloride	ND		2.1	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Chlorobenzene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Chlorobromomethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Chloroethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Chloroform	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Chloromethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
cis-1,2-Dichloroethene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
cis-1,3-Dichloropropene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Chlorodibromomethane	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Dibromomethane	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Dichlorobromomethane	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1

Client Sample ID: DUP-121
Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-24
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Ethylbenzene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Hexachlorobutadiene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Isopropylbenzene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Methylene Chloride	ND		10	5.2	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Methyl tert-butyl ether	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Naphthalene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
n-Butylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
N-Propylbenzene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
sec-Butylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Styrene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
tert-Butylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Tetrachloroethene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Toluene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
trans-1,2-Dichloroethene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
trans-1,3-Dichloropropene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Trichloroethene	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Trichlorofluoromethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.2	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Vinyl acetate	ND		8.3	4.1	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Vinyl chloride	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Xylenes, Total	ND		2.1	1.3	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
Ethylene Dibromide	ND		1.0	0.52	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
2-Butanone (MEK)	**18**		10	5.2	ug/Kg		01/31/19 21:20	02/01/19 02:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.2	2.6	ug/Kg		01/31/19 21:20	02/01/19 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 21:20*	*02/01/19 02:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/31/19 21:20*	*02/01/19 02:59*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**260**		99	49	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Acenaphthene	ND		49	28	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Acenaphthylene	ND		49	24	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Anthracene	**85**		49	20	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Benzo[a]anthracene	**220**		49	15	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Benzo[a]pyrene	**180**	**B**	49	19	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Benzo[b]fluoranthene	**480**		49	21	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Benzo[g,h,i]perylene	**110**		49	42	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Benzo[k]fluoranthene	**120**	**B**	49	21	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Chrysene	**290**		49	14	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Dibenz(a,h)anthracene	**53**		49	35	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Fluoranthene	**350**		49	14	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Fluorene	**68**		49	22	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Indeno[1,2,3-cd]pyrene	**110**		49	42	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Naphthalene	**470**		49	35	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Phenanthrene	**320**		49	18	ug/Kg		02/01/19 10:22	02/08/19 08:45	10
Pyrene	**370**		49	17	ug/Kg		02/01/19 10:22	02/08/19 08:45	10

Client Sample ID: DUP-121

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*02/01/19 10:22*	*02/08/19 08:45*	*10*
Terphenyl-d14	*106*		*35 - 146*	*02/01/19 10:22*	*02/08/19 08:45*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**420**		9.7	3.6	mg/Kg		01/31/19 15:50	02/08/19 15:27	5
Motor Oil Range Organics [C24-C36]	**450**		240	49	mg/Kg		01/31/19 15:50	02/08/19 15:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/31/19 15:50*	*02/08/19 15:27*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
4,4'-DDE	ND		20	4.1	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
4,4'-DDT	ND		20	4.0	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Aldrin	ND		20	4.9	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
alpha-BHC	ND		20	5.4	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
alpha-Chlordane	ND		20	3.9	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
beta-BHC	ND		20	3.6	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Chlordane (technical)	ND		390	32	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
delta-BHC	ND		20	4.3	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Dieldrin	ND		20	5.8	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Endosulfan I	ND		20	3.2	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Endosulfan II	ND		20	4.8	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Endosulfan sulfate	ND		20	3.8	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Endrin	ND		20	4.5	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Endrin aldehyde	ND		20	6.2	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Endrin ketone	ND		20	3.3	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
gamma-Chlordane	ND		20	4.5	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Heptachlor	ND		20	4.5	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Heptachlor epoxide	ND		20	3.5	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Methoxychlor	ND		20	6.7	ug/Kg		01/31/19 09:29	02/09/19 22:32	10
Toxaphene	ND		390	67	ug/Kg		01/31/19 09:29	02/09/19 22:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*01/31/19 09:29*	*02/09/19 22:32*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*01/31/19 09:29*	*02/09/19 22:32*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:49	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:49	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:49	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:49	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:49	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:49	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:49	1

Client Sample ID: DUP-121

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-24

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*45*		*45 - 120*	*01/31/19 13:33*	*02/04/19 18:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	1.3	0.22	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Arsenic	14		2.6	0.22	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Barium	540		1.3	0.19	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Beryllium	1.6	B	0.26	0.085	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Cadmium	2.3		0.33	0.032	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Chromium	21	B	1.3	0.14	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Cobalt	8.8	B	0.52	0.052	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Copper	89		3.9	1.9	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Lead	1600	B	1.3	0.27	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Molybdenum	1.1	J	1.3	0.17	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Nickel	23		1.3	0.13	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Selenium	ND		2.6	0.39	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Silver	0.51	J	0.65	0.13	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Thallium	ND		1.3	0.38	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Vanadium	51		1.3	0.18	mg/Kg		01/30/19 17:11	01/31/19 16:00	4
Zinc	450		3.9	1.7	mg/Kg		01/30/19 17:11	01/31/19 16:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.86		0.016	0.0023	mg/Kg		02/08/19 09:30	02/09/19 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	45.6		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-R13S-3.5-4

Date Collected: 01/28/19 13:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-25

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		86	60	ug/Kg		01/31/19 21:20	02/01/19 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/31/19 21:20*	*02/01/19 03:23*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/31/19 21:20*	*02/01/19 03:23*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 21:20*	*02/01/19 03:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.6	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,1,1-Trichloroethane	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,1,2-Trichloroethane	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,1-Dichloroethane	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,1-Dichloropropene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,2,3-Trichlorobenzene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,2,4-Trichlorobenzene	ND		4.3	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,2,4-Trimethylbenzene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,2-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,2-Dichloroethane	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,2-Dichloropropane	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,3,5-Trimethylbenzene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,3-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,3-Dichloropropane	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,4-Dichlorobenzene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
2,2-Dichloropropane	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
2-Chlorotoluene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
2-Hexanone	ND		8.6	4.3	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
4-Chlorotoluene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
4-Isopropyltoluene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Benzene	**1.3**		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Bromobenzene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Bromoform	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Bromomethane	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Carbon disulfide	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Chlorobenzene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Chlorobromomethane	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Chloroethane	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Chloroform	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Chloromethane	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
cis-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
cis-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Chlorodibromomethane	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Dibromomethane	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Dichlorobromomethane	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1

Client Sample ID: DG-R13S-3.5-4

Date Collected: 01/28/19 13:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-25

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Ethylbenzene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Hexachlorobutadiene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Isopropylbenzene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Methylene Chloride	ND		8.6	4.3	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Methyl tert-butyl ether	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Naphthalene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
n-Butylbenzene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
N-Propylbenzene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
sec-Butylbenzene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Styrene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
tert-Butylbenzene	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Tetrachloroethene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Toluene	**0.67**	**J**	0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
trans-1,2-Dichloroethene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
trans-1,3-Dichloropropene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Trichloroethene	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Trichlorofluoromethane	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.6	4.3	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Vinyl acetate	ND		6.9	3.4	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Vinyl chloride	ND		1.7	0.86	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
Ethylene Dibromide	ND		0.86	0.43	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
2-Butanone (MEK)	ND		8.6	4.3	ug/Kg		01/31/19 21:20	02/01/19 03:23	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.2	ug/Kg		01/31/19 21:20	02/01/19 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 21:20*	*02/01/19 03:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/31/19 21:20*	*02/01/19 03:23*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**72**		9.7	4.9	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Acenaphthene	ND		4.9	2.7	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Acenaphthylene	ND		4.9	2.3	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Anthracene	**3.3**	**J**	4.9	1.9	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Benzo[a]anthracene	**6.8**		4.9	1.5	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Benzo[a]pyrene	**7.9**	**B**	4.9	1.8	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Benzo[b]fluoranthene	**16**		4.9	2.0	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Benzo[g,h,i]perylene	**4.8**	**J**	4.9	4.2	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Benzo[k]fluoranthene	**4.2**	**J B**	4.9	2.0	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Chrysene	**13**		4.9	1.4	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Dibenz(a,h)anthracene	**4.0**	**J**	4.9	3.4	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Fluoranthene	**7.1**		4.9	1.4	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Fluorene	**3.1**	**J**	4.9	2.1	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.1	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Naphthalene	**32**		4.9	3.4	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Phenanthrene	**32**		4.9	1.8	ug/Kg		02/01/19 10:22	02/08/19 23:07	1
Pyrene	**9.5**		4.9	1.7	ug/Kg		02/01/19 10:22	02/08/19 23:07	1

Client Sample ID: DG-R13S-3.5-4

Date Collected: 01/28/19 13:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-25

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*02/01/19 10:22*	*02/08/19 23:07*	*1*
Terphenyl-d14	*98*		*35 - 146*	*02/01/19 10:22*	*02/08/19 23:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**24**		2.0	0.74	mg/Kg		01/31/19 15:50	02/08/19 13:29	1
Motor Oil Range Organics [C24-C36]	**59**		50	9.9	mg/Kg		01/31/19 15:50	02/08/19 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*01/31/19 15:50*	*02/08/19 13:29*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Aldrin	ND		2.0	0.49	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Endrin	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/31/19 09:29	02/08/19 11:27	1
Toxaphene	ND		39	6.7	ug/Kg		01/31/19 09:29	02/08/19 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*21 - 136*	*01/31/19 09:29*	*02/08/19 11:27*	*1*
Tetrachloro-m-xylene	*106*		*21 - 145*	*01/31/19 09:29*	*02/08/19 11:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 20:31	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 20:31	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 20:31	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 20:31	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 20:31	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 20:31	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 20:31	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-R13S-3.5-4

Date Collected: 01/28/19 13:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-25

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*46*		*45 - 120*	*01/31/19 13:33*	*02/01/19 20:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.93**	**J B**	1.6	0.27	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Arsenic	**1.1**	**J**	3.3	0.28	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Barium	**170**		1.6	0.23	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Beryllium	**0.11**	**J B**	0.33	0.11	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Cadmium	ND		0.41	0.041	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Chromium	**64**	**B**	1.6	0.17	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Cobalt	**17**	**B**	0.66	0.066	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Copper	**27**		4.9	2.3	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Lead	**13**	**B**	1.6	0.34	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Molybdenum	ND		1.6	0.21	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Nickel	**28**		1.6	0.17	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Selenium	**0.71**	**J**	3.3	0.49	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Silver	ND		0.82	0.17	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Thallium	**0.85**	**J B**	1.6	0.48	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Vanadium	**130**		1.6	0.22	mg/Kg		01/30/19 17:11	01/31/19 16:05	4
Zinc	**44**		4.9	2.1	mg/Kg		01/30/19 17:11	01/31/19 16:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.016	0.0023	mg/Kg		02/08/19 09:30	02/09/19 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.1**		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-Z13S-0.5-1

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-26

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**100**		100	72	ug/Kg		01/31/19 21:20	02/01/19 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*63*		*60 - 120*	*01/31/19 21:20*	*02/01/19 03:48*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/31/19 21:20*	*02/01/19 03:48*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 21:20*	*02/01/19 03:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,1,1,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,1,1-Trichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,1,2-Trichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,1-Dichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,1-Dichloroethene	ND		2.1	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,1-Dichloropropene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,2,3-Trichlorobenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,2,4-Trichlorobenzene	ND		5.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,2,4-Trimethylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.1	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,2-Dichlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,2-Dichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,2-Dichloropropane	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,3,5-Trimethylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,3-Dichlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,3-Dichloropropane	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,4-Dichlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
2,2-Dichloropropane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
2-Chlorotoluene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
2-Hexanone	ND		10	5.1	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
4-Chlorotoluene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
4-Isopropyltoluene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Benzene	**0.60**	**J**	1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Bromobenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Bromoform	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Bromomethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Carbon disulfide	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Carbon tetrachloride	ND		2.1	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Chlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Chlorobromomethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Chloroethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Chloroform	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Chloromethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
cis-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Chlorodibromomethane	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Dibromomethane	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Dichlorobromomethane	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1

Client Sample ID: DG-Z13S-0.5-1

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-26

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Ethylbenzene	**0.91**	**J**	1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Hexachlorobutadiene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Isopropylbenzene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Methylene Chloride	ND		10	5.1	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Methyl tert-butyl ether	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Naphthalene	**5.1**		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
n-Butylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
N-Propylbenzene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
sec-Butylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Styrene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
tert-Butylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Tetrachloroethene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Toluene	**2.7**		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
trans-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Trichloroethene	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Trichlorofluoromethane	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.1	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Vinyl acetate	ND		8.2	4.1	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Vinyl chloride	ND		2.1	1.0	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Xylenes, Total	**12**		2.1	1.3	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
Ethylene Dibromide	ND		1.0	0.51	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
2-Butanone (MEK)	**16**		10	5.1	ug/Kg		01/31/19 21:20	02/01/19 03:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.1	2.6	ug/Kg		01/31/19 21:20	02/01/19 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 21:20*	*02/01/19 03:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*01/31/19 21:20*	*02/01/19 03:48*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**110**		99	49	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Acenaphthene	ND		49	28	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Acenaphthylene	ND		49	24	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Anthracene	**29**	**J**	49	20	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Benzo[a]anthracene	ND		49	15	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Benzo[a]pyrene	**24**	**J B**	49	19	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Benzo[b]fluoranthene	**32**	**J**	49	21	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Benzo[g,h,i]perylene	ND		49	43	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Benzo[k]fluoranthene	**24**	**J B**	49	21	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Chrysene	ND		49	14	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Dibenz(a,h)anthracene	ND		49	35	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Fluoranthene	**21**	**J**	49	14	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Fluorene	ND		49	22	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Indeno[1,2,3-cd]pyrene	ND		49	42	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Naphthalene	**37**	**J**	49	35	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Phenanthrene	**86**		49	18	ug/Kg		02/01/19 10:22	02/08/19 21:57	10
Pyrene	**40**	**J**	49	17	ug/Kg		02/01/19 10:22	02/08/19 21:57	10

Client Sample ID: DG-Z13S-0.5-1

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-26

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*33 - 120*	*02/01/19 10:22*	*02/08/19 21:57*	*10*
Terphenyl-d14	*59*		*35 - 146*	*02/01/19 10:22*	*02/08/19 21:57*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1000**		20	7.4	mg/Kg		01/31/19 15:50	02/08/19 14:29	10
Motor Oil Range Organics [C24-C36]	**200**	**J**	490	98	mg/Kg		01/31/19 15:50	02/08/19 14:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/31/19 15:50*	*02/08/19 14:29*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
4,4'-DDE	**4.5**		2.0	0.41	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Aldrin	ND		2.0	0.49	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Endrin	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/31/19 09:29	02/08/19 11:43	1
Toxaphene	ND		39	6.7	ug/Kg		01/31/19 09:29	02/08/19 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*21 - 136*	*01/31/19 09:29*	*02/08/19 11:43*	*1*
Tetrachloro-m-xylene	*95*		*21 - 145*	*01/31/19 09:29*	*02/08/19 11:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:44	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:44	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:44	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:44	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:44	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:44	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:44	1

Client Sample ID: DG-Z13S-0.5-1

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-26

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*01/31/19 13:33*	*02/01/19 20:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.30	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Arsenic	**7.0**		3.7	0.31	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Barium	**330**		1.8	0.26	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Beryllium	**0.19**	**J B**	0.37	0.12	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Cadmium	**0.13**	**J**	0.46	0.046	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Chromium	**28**	**B**	1.8	0.19	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Cobalt	**4.2**	**B**	0.73	0.073	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Copper	**39**		5.5	2.6	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Lead	**32**	**B**	1.8	0.39	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Molybdenum	**0.66**	**J**	1.8	0.23	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Nickel	**18**		1.8	0.19	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Selenium	ND		3.7	0.55	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Silver	ND		0.92	0.19	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Thallium	ND		1.8	0.53	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Vanadium	**67**		1.8	0.25	mg/Kg		01/30/19 17:11	01/31/19 16:09	4
Zinc	**65**		5.5	2.3	mg/Kg		01/30/19 17:11	01/31/19 16:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**	**F1 F2**	0.016	0.0023	mg/Kg		01/30/19 12:27	01/30/19 20:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.7**		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-Z13S-3.5-4

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-27

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		70	49	ug/Kg		01/31/19 21:20	02/01/19 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/31/19 21:20*	*02/01/19 04:13*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/31/19 21:20*	*02/01/19 04:13*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 21:20*	*02/01/19 04:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.0	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,1,1-Trichloroethane	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,1,2-Trichloroethane	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,1-Dichloroethane	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,1-Dichloropropene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,2,3-Trichlorobenzene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,2,4-Trichlorobenzene	ND		3.5	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,2,4-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,2-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,2-Dichloroethane	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,2-Dichloropropane	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,3,5-Trimethylbenzene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,3-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,3-Dichloropropane	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,4-Dichlorobenzene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
2,2-Dichloropropane	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
2-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
2-Hexanone	ND		7.0	3.5	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
4-Chlorotoluene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
4-Isopropyltoluene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Benzene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Bromobenzene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Bromoform	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Bromomethane	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Carbon disulfide	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Chlorobenzene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Chlorobromomethane	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Chloroethane	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Chloroform	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Chloromethane	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
cis-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
cis-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Chlorodibromomethane	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Dibromomethane	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Dichlorobromomethane	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1

Client Sample ID: DG-Z13S-3.5-4

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-27

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Ethylbenzene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Hexachlorobutadiene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Isopropylbenzene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Methylene Chloride	ND		7.0	3.5	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Methyl tert-butyl ether	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Naphthalene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
n-Butylbenzene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
N-Propylbenzene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
sec-Butylbenzene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Styrene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
tert-Butylbenzene	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Tetrachloroethene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Toluene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
trans-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
trans-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Trichloroethene	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Trichlorofluoromethane	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.0	3.5	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Vinyl chloride	ND		1.4	0.70	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Xylenes, Total	ND		1.4	0.91	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
Ethylene Dibromide	ND		0.70	0.35	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
2-Butanone (MEK)	ND		7.0	3.5	ug/Kg		01/31/19 21:20	02/01/19 04:13	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.7	ug/Kg		01/31/19 21:20	02/01/19 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 21:20*	*02/01/19 04:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*01/31/19 21:20*	*02/01/19 04:13*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**150**		49	24	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Acenaphthene	ND		24	14	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Acenaphthylene	**12**	**J**	24	12	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Anthracene	**25**		24	9.8	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Benzo[a]anthracene	ND		24	7.3	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Benzo[a]pyrene	**18**	**J B**	24	9.3	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Benzo[b]fluoranthene	**40**		24	10	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Benzo[g,h,i]perylene	**21**	**J**	24	21	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Benzo[k]fluoranthene	**15**	**J B**	24	10	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Chrysene	**21**	**J**	24	6.8	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Dibenz(a,h)anthracene	ND		24	17	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Fluoranthene	**20**	**J**	24	6.8	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Fluorene	**37**		24	11	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Indeno[1,2,3-cd]pyrene	ND		24	21	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Naphthalene	**35**		24	17	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Phenanthrene	**54**		24	8.8	ug/Kg		02/01/19 10:22	02/08/19 09:32	5
Pyrene	**36**		24	8.3	ug/Kg		02/01/19 10:22	02/08/19 09:32	5

Client Sample ID: DG-Z13S-3.5-4

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-27

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*02/01/19 10:22*	*02/08/19 09:32*	*5*
Terphenyl-d14	*108*		*35 - 146*	*02/01/19 10:22*	*02/08/19 09:32*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**290**		9.7	3.7	mg/Kg		01/31/19 15:50	02/08/19 14:58	5
Motor Oil Range Organics [C24-C36]	**280**		240	49	mg/Kg		01/31/19 15:50	02/08/19 14:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*01/31/19 15:50*	*02/08/19 14:58*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
4,4'-DDE	**0.69**	**J p**	2.0	0.42	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Aldrin	ND		2.0	0.50	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Endrin	ND		2.0	0.46	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/31/19 09:29	02/08/19 12:00	1
Toxaphene	ND		40	6.7	ug/Kg		01/31/19 09:29	02/08/19 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*21 - 136*	*01/31/19 09:29*	*02/08/19 12:00*	*1*
Tetrachloro-m-xylene	*107*		*21 - 145*	*01/31/19 09:29*	*02/08/19 12:00*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:58	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:58	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:58	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:58	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:58	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:58	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 20:58	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-Z13S-3.5-4

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-27

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*45 - 120*	*01/31/19 13:33*	*02/01/19 20:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.9**	**B**	1.9	0.32	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Arsenic	**14**		3.9	0.33	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Barium	**350**		1.9	0.28	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Beryllium	**0.88**	**B**	0.39	0.13	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Cadmium	**0.33**	**J**	0.49	0.048	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Chromium	**55**	**B**	1.9	0.21	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Cobalt	**16**	**B**	0.78	0.078	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Copper	**160**		5.8	2.8	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Lead	**550**	**B**	1.9	0.41	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Molybdenum	ND		1.9	0.25	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Nickel	**55**		1.9	0.20	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Selenium	ND		3.9	0.58	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Silver	**0.41**	**J**	0.97	0.20	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Thallium	ND		1.9	0.56	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Vanadium	**54**		1.9	0.26	mg/Kg		01/30/19 17:11	01/31/19 16:14	4
Zinc	**630**		5.8	2.5	mg/Kg		01/30/19 17:11	01/31/19 16:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.014	0.0021	mg/Kg		01/30/19 12:27	01/30/19 20:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.3**		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-AF13S-0.5-1

Date Collected: 01/28/19 15:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-28

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	60	ug/Kg		01/28/19 19:00	02/04/19 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/28/19 19:00*	*02/04/19 10:21*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/28/19 19:00*	*02/04/19 10:21*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*02/04/19 10:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,1,1-Trichloroethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,1,2-Trichloroethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,1-Dichloroethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,1-Dichloropropene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,2,4-Trichlorobenzene	ND		4.3	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,2-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,2-Dichloroethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,2-Dichloropropane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,3-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,3-Dichloropropane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,4-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
2-Hexanone	ND		8.5	4.3	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
4-Isopropyltoluene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Benzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Bromobenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Bromoform	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Bromomethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Chlorobenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Chloroethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Chloroform	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Chloromethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
cis-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
cis-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Chlorodibromomethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Dibromomethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Dichlorobromomethane	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1

Client Sample ID: DG-AF13S-0.5-1

Date Collected: 01/28/19 15:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-28

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Ethylbenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Isopropylbenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Methylene Chloride	ND		8.5	4.3	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Naphthalene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
N-Propylbenzene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Styrene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Tetrachloroethene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Toluene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
trans-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
trans-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Trichloroethene	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.3	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
Ethylene Dibromide	ND		0.85	0.43	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
2-Butanone (MEK)	ND		8.5	4.3	ug/Kg		01/28/19 19:00	02/04/19 10:21	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		01/28/19 19:00	02/04/19 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/28/19 19:00*	*02/04/19 10:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/28/19 19:00*	*02/04/19 10:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		2000	980	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Acenaphthene	ND		980	550	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Acenaphthylene	ND		980	470	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Anthracene	ND		980	390	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Benzo[a]anthracene	ND		980	300	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Benzo[a]pyrene	**860**	**J B**	980	370	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Benzo[b]fluoranthene	**670**	**J**	980	410	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Benzo[g,h,i]perylene	ND		980	850	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Benzo[k]fluoranthene	**440**	**J B**	980	410	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Chrysene	ND		980	280	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Dibenz(a,h)anthracene	ND		980	690	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Fluoranthene	ND		980	280	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Fluorene	ND		980	430	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Indeno[1,2,3-cd]pyrene	ND		980	830	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Naphthalene	ND		980	690	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Phenanthrene	ND		980	350	ug/Kg		02/01/19 10:22	02/08/19 09:56	200
Pyrene	**1000**		980	330	ug/Kg		02/01/19 10:22	02/08/19 09:56	200

Client Sample ID: DG-AF13S-0.5-1

Date Collected: 01/28/19 15:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-28

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		33 - 120	02/01/19 10:22	02/08/19 09:56	200
Terphenyl-d14	171	X	35 - 146	02/01/19 10:22	02/08/19 09:56	200

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1500**		98	37	mg/Kg		01/31/19 15:50	02/08/19 13:59	50
Motor Oil Range Organics [C24-C36]	**3700**		2500	490	mg/Kg		01/31/19 15:50	02/08/19 13:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	01/31/19 15:50	02/08/19 13:59	50

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.0	1.2	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
4,4'-DDE	**2.2**	**J p**	4.0	0.83	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
4,4'-DDT	**14**		4.0	0.81	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Aldrin	ND		4.0	0.99	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
alpha-BHC	ND		4.0	1.1	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
alpha-Chlordane	**4.5**		4.0	0.79	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
beta-BHC	ND		4.0	0.71	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Chlordane (technical)	**64**	**J**	79	6.3	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
delta-BHC	ND		4.0	0.87	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Dieldrin	ND		4.0	1.2	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Endosulfan I	ND		4.0	0.63	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Endosulfan II	ND		4.0	0.97	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Endosulfan sulfate	ND		4.0	0.75	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Endrin	ND		4.0	0.91	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Endrin aldehyde	ND		4.0	1.2	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Endrin ketone	ND		4.0	0.65	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
gamma-BHC (Lindane)	ND		4.0	1.2	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
gamma-Chlordane	**4.5**		4.0	0.91	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Heptachlor	ND		4.0	0.91	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Heptachlor epoxide	ND		4.0	0.69	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Methoxychlor	ND		4.0	1.3	ug/Kg		01/31/19 09:29	02/08/19 12:16	2
Toxaphene	ND		79	13	ug/Kg		01/31/19 09:29	02/08/19 12:16	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64	p	21 - 136	01/31/19 09:29	02/08/19 12:16	2
Tetrachloro-m-xylene	86		21 - 145	01/31/19 09:29	02/08/19 12:16	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:22	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:22	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:22	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:22	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:22	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:33	02/04/19 18:22	1
Aroclor 1260	**41**	**J**	49	17	ug/Kg		01/31/19 13:33	02/04/19 18:22	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-AF13S-0.5-1

Date Collected: 01/28/19 15:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-28

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*01/31/19 13:33*	*02/04/19 18:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.97	J B	2.0	0.33	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Arsenic	5.6		3.9	0.33	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Barium	120		2.0	0.28	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Beryllium	0.15	J B	0.39	0.13	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Cadmium	0.26	J	0.49	0.049	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Chromium	40	B	2.0	0.21	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Cobalt	7.9	B	0.78	0.078	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Copper	40		5.9	2.8	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Lead	120	B	2.0	0.41	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Molybdenum	0.28	J	2.0	0.25	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Nickel	40		2.0	0.20	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Selenium	0.60	J	3.9	0.59	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Silver	ND		0.98	0.20	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Thallium	0.86	J B	2.0	0.57	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Vanadium	39		2.0	0.27	mg/Kg		01/30/19 17:11	01/31/19 16:19	4
Zinc	110		5.9	2.5	mg/Kg		01/30/19 17:11	01/31/19 16:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.015	0.0023	mg/Kg		01/30/19 12:27	01/30/19 20:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.8		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-AF13S-3.5-4

Date Collected: 01/28/19 15:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-29

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	47	ug/Kg		01/31/19 21:20	02/01/19 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/31/19 21:20*	*02/01/19 05:02*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/31/19 21:20*	*02/01/19 05:02*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 21:20*	*02/01/19 05:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
2-Hexanone	ND		6.6	3.3	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Benzene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Bromobenzene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Bromoform	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Bromomethane	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Chloroethane	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Chloroform	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Chloromethane	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Dibromomethane	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1

Client Sample ID: DG-AF13S-3.5-4
Date Collected: 01/28/19 15:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-29
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Naphthalene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Styrene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Toluene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Trichloroethene	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Vinyl acetate	ND		5.3	2.7	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Xylenes, Total	ND		1.3	0.86	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
2-Butanone (MEK)	ND		6.6	3.3	ug/Kg		01/31/19 21:20	02/01/19 05:02	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/31/19 21:20	02/01/19 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 21:20*	*02/01/19 05:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/31/19 21:20*	*02/01/19 05:02*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		20	9.8	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Acenaphthene	ND		9.8	5.5	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Acenaphthylene	ND		9.8	4.7	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Anthracene	**6.2**	**J**	9.8	3.9	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Benzo[a]anthracene	**24**		9.8	2.9	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Benzo[a]pyrene	**39**	**B**	9.8	3.7	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Benzo[b]fluoranthene	**52**		9.8	4.1	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Benzo[g,h,i]perylene	**15**		9.8	8.4	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Benzo[k]fluoranthene	**21**	**B**	9.8	4.1	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Chrysene	**24**		9.8	2.7	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Dibenz(a,h)anthracene	**8.2**	**J**	9.8	6.9	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Fluoranthene	**31**		9.8	2.7	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Fluorene	ND		9.8	4.3	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Indeno[1,2,3-cd]pyrene	**13**		9.8	8.2	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Naphthalene	ND		9.8	6.9	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Phenanthrene	**16**		9.8	3.5	ug/Kg		02/01/19 10:22	02/08/19 23:54	2
Pyrene	**52**		9.8	3.3	ug/Kg		02/01/19 10:22	02/08/19 23:54	2

Client Sample ID: DG-AF13S-3.5-4

Date Collected: 01/28/19 15:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-29

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*33 - 120*	*02/01/19 10:22*	*02/08/19 23:54*	*2*
Terphenyl-d14	*76*		*35 - 146*	*02/01/19 10:22*	*02/08/19 23:54*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**22**		2.0	0.74	mg/Kg		01/31/19 15:50	02/01/19 04:55	1
Motor Oil Range Organics [C24-C36]	**52**		49	9.8	mg/Kg		01/31/19 15:50	02/01/19 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*99*		*40 - 130*	*01/31/19 15:50*	*02/01/19 04:55*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Aldrin	ND		2.0	0.49	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Chlordane (technical)	ND		39	3.2	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Endrin	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Methoxychlor	ND		2.0	0.67	ug/Kg		01/31/19 09:29	02/08/19 12:32	1
Toxaphene	ND		39	6.7	ug/Kg		01/31/19 09:29	02/08/19 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*21 - 136*	*01/31/19 09:29*	*02/08/19 12:32*	*1*
Tetrachloro-m-xylene	*100*		*21 - 145*	*01/31/19 09:29*	*02/08/19 12:32*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:25	1
Aroclor 1221	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:25	1
Aroclor 1232	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:25	1
Aroclor 1242	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:25	1
Aroclor 1248	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:25	1
Aroclor 1254	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:25	1
Aroclor 1260	ND		49	17	ug/Kg		01/31/19 13:33	02/01/19 21:25	1

Client Sample ID: DG-AF13S-3.5-4
Date Collected: 01/28/19 15:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-29
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*01/31/19 13:33*	*02/01/19 21:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.3**	**B**	1.7	0.29	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Arsenic	**46**		3.4	0.29	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Barium	**85**		1.7	0.24	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Beryllium	ND		0.34	0.11	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Cadmium	**0.54**		0.43	0.043	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Chromium	**29**	**B**	1.7	0.18	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Cobalt	**4.8**	**B**	0.69	0.069	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Copper	**110**		5.2	2.5	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Lead	**360**	**B**	1.7	0.36	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Nickel	**22**		1.7	0.18	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Selenium	ND		3.4	0.52	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Silver	**0.57**	**J**	0.86	0.17	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Thallium	**0.53**	**J B**	1.7	0.50	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Vanadium	**21**		1.7	0.23	mg/Kg		01/30/19 17:11	01/31/19 16:24	4
Zinc	**370**		5.2	2.2	mg/Kg		01/30/19 17:11	01/31/19 16:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.016	0.0024	mg/Kg		01/30/19 12:27	01/30/19 20:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.8**		0.1	0.05	%			01/30/19 14:39	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		TOL	DCA										
Lab Sample ID	Client Sample ID	(79-123)	(70-130)										
440-231317-A-2 MS	Matrix Spike	97	98										
440-231317-A-2 MSD	Matrix Spike Duplicate	98	100										
720-91048-1	DG-Z17S-0.5-1	98	109										
720-91048-1 - RA	DG-Z17S-0.5-1	100	106										
720-91048-2	DG-Z17S-3.5-4	100	103										
720-91048-4	DG-Y19S-0.5-1	100	109										
720-91048-5	DG-Y19S-3.5-4	98	106										
720-91048-6	DG-Y19S-7.5-8	95	112										
720-91048-7	DG-V17S-0.5-1	99	105										
720-91048-8	DG-V17S-3.5-4	95	111										
720-91048-9	DG-V17S-9.5-10	98	107										
720-91048-10	DG-U15S-0.5-1	103	106										
720-91048-11	DUP-122	97	109										
720-91048-12	DUP-124	98	107										
720-91048-13	DG-U15S-3.5-4	100	101										
720-91048-14	DG-U15S-8.5-9	99	109										
720-91048-16	DG-T17S-3.5-4	101	101										
720-91048-16 MS	DG-T17S-3.5-4	98	104										
720-91048-16 MSD	DG-T17S-3.5-4	100	99										
720-91048-17	DG-T17S-7-7.5	101	107										
720-91048-18	DG-W15S-0.5-1	101	104										
720-91048-19	DG-W15S-3.5-4	92 *	114 *										
720-91048-19	DG-W15S-3.5-4	102	107										
720-91048-19 MS	DG-W15S-3.5-4	97	103										
720-91048-19 MSD	DG-W15S-3.5-4	99	105										
720-91048-20	DG-X17S-0.5-1	99	105										
720-91048-21	DG-X17S-3.5-4	99	106										
720-91048-23	DUP-108	100	108										
720-91048-24	DUP-121	100	104										
720-91048-25	DG-R13S-3.5-4	98	106										
720-91048-26	DG-Z13S-0.5-1	100	107										
720-91048-27	DG-Z13S-3.5-4	100	102										
720-91048-28	DG-AF13S-0.5-1	98	106										
720-91048-29	DG-AF13S-3.5-4	99	103										
LCS 440-526002/5	Lab Control Sample	98	103										
LCS 440-526209/5	Lab Control Sample	96	107										
LCS 440-526258/5	Lab Control Sample	100	104										
LCS 440-526536/6	Lab Control Sample	99	95										
LCS 440-526706/6	Lab Control Sample	97	105										
LCSD 440-526258/7	Lab Control Sample Dup	98	102										
LCSD 440-526706/7	Lab Control Sample Dup	98	103										
MB 440-526002/4	Method Blank	99	106										
MB 440-526209/4	Method Blank	100	104										
MB 440-526258/4	Method Blank	98	105										
MB 440-526536/5	Method Blank	100	99										
MB 440-526706/5	Method Blank	101	105										

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)
720-91011-D-21-B MS	Matrix Spike	98	97
720-91011-D-21-B MS	Matrix Spike	104	101
720-91011-D-21-C MSD	Matrix Spike Duplicate	96	101
720-91011-D-21-C MSD	Matrix Spike Duplicate	105	99
720-91048-3 - RA	DG-Z17S-7.5-8	101	97
720-91048-3	DG-Z17S-7.5-8	108	102
720-91048-15 - RA	DG-T17S-0.5-1	102	96
720-91048-15	DG-T17S-0.5-1	110	101
720-91048-22	DG-R13S-0.5-1	109	98
720-91048-22 - RA	DG-R13S-0.5-1	100	96
LCS 440-526004/11	Lab Control Sample	98	100
LCS 440-526745/5	Lab Control Sample	104	95
LCS 440-527268/6	Lab Control Sample	97	104
LCSD 440-526004/6	Lab Control Sample Dup	99	101
LCSD 440-526745/6	Lab Control Sample Dup	103	104
LCSD 440-527268/7	Lab Control Sample Dup	99	104
MB 440-526004/4	Method Blank	101	98
MB 440-526745/4	Method Blank	110	99
MB 440-527268/5	Method Blank	97	105

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
440-231317-A-2 MS	Matrix Spike	102	99	97
440-231317-A-2 MSD	Matrix Spike Duplicate	100	100	98
720-91048-1	DG-Z17S-0.5-1	104	99	98
720-91048-2	DG-Z17S-3.5-4	102	106	100
720-91048-4	DG-Y19S-0.5-1	103	105	100
720-91048-5	DG-Y19S-3.5-4	104	103	98
720-91048-6	DG-Y19S-7.5-8	105	99	95
720-91048-7	DG-V17S-0.5-1	103	101	99
720-91048-8	DG-V17S-3.5-4	106	98	95
720-91048-9	DG-V17S-9.5-10	104	106	98
720-91048-10	DG-U15S-0.5-1	105	109	103
720-91048-11	DUP-122	103	98	97
720-91048-12	DUP-124	104	106	98
720-91048-13	DG-U15S-3.5-4	100	107	99
720-91048-14	DG-U15S-8.5-9	103	109	99
720-91048-16	DG-T17S-3.5-4	102	104	101
720-91048-16 MS	DG-T17S-3.5-4	105	100	98

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-91048-16 MSD	DG-T17S-3.5-4	102	101	100
720-91048-17	DG-T17S-7-7.5	101	105	100
720-91048-18	DG-W15S-0.5-1	100	107	101
720-91048-19	DG-W15S-3.5-4	104 *	104 *	92 *
720-91048-19	DG-W15S-3.5-4	107	103	102
720-91048-19 MS	DG-W15S-3.5-4	103	101	97
720-91048-19 MSD	DG-W15S-3.5-4	104	109	98
720-91048-20	DG-X17S-0.5-1	102	107	99
720-91048-21	DG-X17S-3.5-4	101	111	98
720-91048-23	DUP-108	104	107	100
720-91048-24	DUP-121	101	104	100
720-91048-25	DG-R13S-3.5-4	103	105	98
720-91048-26	DG-Z13S-0.5-1	63	104	100
720-91048-27	DG-Z13S-3.5-4	100	105	100
720-91048-28	DG-AF13S-0.5-1	104	107	98
720-91048-29	DG-AF13S-3.5-4	103	102	99
LCS 440-526003/6	Lab Control Sample	101	102	100
LCS 440-526210/6	Lab Control Sample	103	105	98
LCS 440-526259/6	Lab Control Sample	101	102	99
LCS 440-526537/7	Lab Control Sample	99	101	99
LCS 440-526712/8	Lab Control Sample	104	99	99
LCSD 440-526259/8	Lab Control Sample Dup	101	102	101
LCSD 440-526712/9	Lab Control Sample Dup	103	97	99
MB 440-526003/4	Method Blank	102	101	99
MB 440-526210/4	Method Blank	101	104	100
MB 440-526259/4	Method Blank	101	104	98
MB 440-526537/5	Method Blank	100	104	100
MB 440-526712/5	Method Blank	105	97	101

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
720-91011-D-21-B MS	Matrix Spike	105	92	104
720-91011-D-21-C MSD	Matrix Spike Duplicate	106	92	105
720-91048-3	DG-Z17S-7.5-8	104	91	108
720-91048-15	DG-T17S-0.5-1	106	98	110
720-91048-22	DG-R13S-0.5-1	104	93	109

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)										
720-91016-A-16-G MS	Matrix Spike	80	125										
720-91016-A-16-H MSD	Matrix Spike Duplicate	85	130										
720-91048-1	DG-Z17S-0.5-1	73	115										
720-91048-2	DG-Z17S-3.5-4	72	131										
720-91048-3	DG-Z17S-7.5-8	72	102										
720-91048-4	DG-Y19S-0.5-1	49	82										
720-91048-5	DG-Y19S-3.5-4	76	120										
720-91048-6	DG-Y19S-7.5-8	65	95										
720-91048-7	DG-V17S-0.5-1	75	126										
720-91048-8	DG-V17S-3.5-4	78	104										
720-91048-9	DG-V17S-9.5-10	60	74										
720-91048-10	DG-U15S-0.5-1	82	113										
720-91048-11	DUP-122	80	110										
720-91048-12	DUP-124	90	131										
720-91048-13	DG-U15S-3.5-4	97	136										
720-91048-14	DG-U15S-8.5-9	97	150 X										
720-91048-15	DG-T17S-0.5-1	64	96										
720-91048-16	DG-T17S-3.5-4	55	76										
720-91048-16 MS	DG-T17S-3.5-4	57	79										
720-91048-16 MSD	DG-T17S-3.5-4	50	68										
720-91048-17	DG-T17S-7-7.5	79	95										
720-91048-18	DG-W15S-0.5-1	85	151 X										
720-91048-19	DG-W15S-3.5-4	61	118										
720-91048-19 MS	DG-W15S-3.5-4	79	149 X										
720-91048-19 MSD	DG-W15S-3.5-4	65	123										
720-91048-20	DG-X17S-0.5-1	85	134										
720-91048-21	DG-X17S-3.5-4	77	169 X										
720-91048-22	DG-R13S-0.5-1	55	79										
720-91048-23	DUP-108	36	54										
720-91048-24	DUP-121	78	106										
720-91048-25	DG-R13S-3.5-4	68	98										
720-91048-26	DG-Z13S-0.5-1	90	59										
720-91048-27	DG-Z13S-3.5-4	74	108										
720-91048-28	DG-AF13S-0.5-1	86	171 X										
720-91048-29	DG-AF13S-3.5-4	54	76										
LCS 720-259565/2-A	Lab Control Sample	90	116										
LCS 720-259581/2-A	Lab Control Sample	79	117										
LCS 720-259639/2-A	Lab Control Sample	84	119										
MB 720-259565/1-A	Method Blank	94	119										
MB 720-259581/1-A	Method Blank	82	115										
MB 720-259639/1-A	Method Blank	87	120										

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-91048-1	DG-Z17S-0.5-1	0 X D
720-91048-2	DG-Z17S-3.5-4	0 X D
720-91048-3	DG-Z17S-7.5-8	0 X D
720-91048-4	DG-Y19S-0.5-1	0 X D
720-91048-5	DG-Y19S-3.5-4	0 X D
720-91048-5 MS	DG-Y19S-3.5-4	0 X D
720-91048-5 MSD	DG-Y19S-3.5-4	0 X D
720-91048-6	DG-Y19S-7.5-8	108
720-91048-7	DG-V17S-0.5-1	91
720-91048-8	DG-V17S-3.5-4	107
720-91048-9	DG-V17S-9.5-10	67
720-91048-10	DG-U15S-0.5-1	0 X D
720-91048-11	DUP-122	102
720-91048-12	DUP-124	0 X D
720-91048-13	DG-U15S-3.5-4	107
720-91048-14	DG-U15S-8.5-9	0 X D
720-91048-15	DG-T17S-0.5-1	0 X D
720-91048-16	DG-T17S-3.5-4	91
720-91048-16 MS	DG-T17S-3.5-4	102
720-91048-16 MSD	DG-T17S-3.5-4	115
720-91048-17	DG-T17S-7-7.5	0 X D
720-91048-18	DG-W15S-0.5-1	0 X D
720-91048-19	DG-W15S-3.5-4	0 X D
720-91048-19 MS	DG-W15S-3.5-4	0 X D
720-91048-19 MSD	DG-W15S-3.5-4	0 X D
720-91048-20	DG-X17S-0.5-1	0 X D
720-91048-21	DG-X17S-3.5-4	0 X D
720-91048-22	DG-R13S-0.5-1	0 X D
720-91048-23	DUP-108	0 X D
720-91048-24	DUP-121	0 X D
720-91048-25	DG-R13S-3.5-4	107
720-91048-26	DG-Z13S-0.5-1	0 X D
720-91048-27	DG-Z13S-3.5-4	0 X D
720-91048-28	DG-AF13S-0.5-1	0 X D
720-91048-29	DG-AF13S-3.5-4	99
720-91048-29 MS	DG-AF13S-3.5-4	113
720-91048-29 MSD	DG-AF13S-3.5-4	118
LCS 720-259558/2-A	Lab Control Sample	116
LCS 720-259569/2-A	Lab Control Sample	115
LCS 720-259589/2-A	Lab Control Sample	136 X
LCS 720-259630/2-A	Lab Control Sample	117
MB 720-259558/1-A	Method Blank	107
MB 720-259569/1-A	Method Blank	118
MB 720-259589/1-A	Method Blank	113
MB 720-259630/1-A	Method Blank	121

Surrogate Legend

TPH = p-Terphenyl

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-91048-25	DG-R13S-3.5-4	95	106
LCS 720-259496/2-A	Lab Control Sample	102	84
LCS 720-259541/2-A	Lab Control Sample	111	97
MB 720-259496/1-A	Method Blank	102	87
MB 720-259541/1-A	Method Blank	112	92

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-91048-1	DG-Z17S-0.5-1	94	90
720-91048-2	DG-Z17S-3.5-4	75	63
720-91048-13	DG-U15S-3.5-4	120 p	105
720-91048-19	DG-W15S-3.5-4	81	93
720-91048-26	DG-Z13S-0.5-1	92	95
720-91048-29	DG-AF13S-3.5-4	110	100

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-91048-3	DG-Z17S-7.5-8	101	76
720-91048-4	DG-Y19S-0.5-1	0 X D	0 X D
720-91048-5	DG-Y19S-3.5-4	62	79
720-91048-6	DG-Y19S-7.5-8	83	87
720-91048-8	DG-V17S-3.5-4	67	90
720-91048-9	DG-V17S-9.5-10	0 X	0 X
720-91048-10	DG-U15S-0.5-1	42	77
720-91048-11	DUP-122	64	90
720-91048-12	DUP-124	85	55
720-91048-14	DG-U15S-8.5-9	0 X D	0 X D
720-91048-15	DG-T17S-0.5-1	76	85
720-91048-17	DG-T17S-7-7.5	74	82
720-91048-18	DG-W15S-0.5-1	0 X D	0 X D
720-91048-19 MSD	DG-W15S-3.5-4	92	104
720-91048-20	DG-X17S-0.5-1	0 X D	0 X D
720-91048-22	DG-R13S-0.5-1	86	79
720-91048-23	DUP-108	0 X D	0 X D

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-91048-24	DUP-121	0 X D	0 X D
720-91048-27	DG-Z13S-3.5-4	100	107
720-91048-28	DG-AF13S-0.5-1	64 p	86

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-91048-7	DG-V17S-0.5-1	86	96
720-91048-16	DG-T17S-3.5-4	67	87
720-91048-16 MS	DG-T17S-3.5-4	82	96
720-91048-16 MSD	DG-T17S-3.5-4	77	98
720-91048-19 MS	DG-W15S-3.5-4	91	92
720-91048-21	DG-X17S-3.5-4	79	89

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
720-91048-1	DG-Z17S-0.5-1	173 X
720-91048-2	DG-Z17S-3.5-4	52
720-91048-3	DG-Z17S-7.5-8	58
720-91048-4	DG-Y19S-0.5-1	65
720-91048-5	DG-Y19S-3.5-4	52
720-91048-6	DG-Y19S-7.5-8	55
720-91048-7	DG-V17S-0.5-1	60
720-91048-8	DG-V17S-3.5-4	60
720-91048-9	DG-V17S-9.5-10	58
720-91048-10	DG-U15S-0.5-1	48
720-91048-11	DUP-122	46
720-91048-12	DUP-124	57
720-91048-13	DG-U15S-3.5-4	50
720-91048-14	DG-U15S-8.5-9	49
720-91048-15	DG-T17S-0.5-1	45
720-91048-16	DG-T17S-3.5-4	47
720-91048-16 MS	DG-T17S-3.5-4	49
720-91048-16 MSD	DG-T17S-3.5-4	49
720-91048-17	DG-T17S-7-7.5	70

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DCB2 (45-120)						
720-91048-18	DG-W15S-0.5-1	43 X						
720-91048-19	DG-W15S-3.5-4	47						
720-91048-19 MS	DG-W15S-3.5-4	60						
720-91048-19 MSD	DG-W15S-3.5-4	57						
720-91048-20	DG-X17S-0.5-1	49						
720-91048-21	DG-X17S-3.5-4	51						
720-91048-22	DG-R13S-0.5-1	47						
720-91048-23	DUP-108	46						
720-91048-24	DUP-121	45						
720-91048-25	DG-R13S-3.5-4	46						
720-91048-26	DG-Z13S-0.5-1	60						
720-91048-27	DG-Z13S-3.5-4	53						
720-91048-28	DG-AF13S-0.5-1	55						
720-91048-29	DG-AF13S-3.5-4	51						
LCS 440-526136/2-A	Lab Control Sample	75						
LCS 440-526140/2-A	Lab Control Sample	98						
MB 440-526136/1-A	Method Blank	86						
MB 440-526140/1-A	Method Blank	94						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 720-91011-D-21-B MS
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	ND		1530	1630		ug/Kg		107	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*

Lab Sample ID: 720-91011-D-21-B MS
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	0.000		1910	1930		ug/Kg		101	50 - 145
1,1,1,2-Tetrachloroethane	0.000		1910	2080		ug/Kg		109	60 - 150
1,1,1-Trichloroethane	0.000		1910	2340		ug/Kg		122	60 - 140
1,1,2,2-Tetrachloroethane	57.5		1910	1790		ug/Kg		91	50 - 145
1,1,2-Trichloroethane	0.000		1910	2070		ug/Kg		109	60 - 145
1,1-Dichloroethane	0.000		1910	1630		ug/Kg		85	60 - 145
1,1-Dichloroethene	0.000		1910	2150		ug/Kg		112	55 - 155
1,1-Dichloropropene	0.000		1910	2260		ug/Kg		118	60 - 140
1,2,3-Trichlorobenzene	0.000		1910	2290		ug/Kg		120	50 - 140
1,2,4-Trichlorobenzene	0.000		1910	2320		ug/Kg		121	60 - 140
1,2,4-Trimethylbenzene	0.000		1910	1770		ug/Kg		93	60 - 140
1,2-Dibromo-3-Chloropropane	0.000		1910	2020		ug/Kg		106	40 - 160
1,2-Dichlorobenzene	0.000		1910	1830		ug/Kg		96	60 - 135
1,2-Dichloroethane	0.000		1910	1970		ug/Kg		103	60 - 145
1,2-Dichloropropane	0.000		1910	1550		ug/Kg		81	60 - 140
1,3,5-Trimethylbenzene	0.000		1910	1770		ug/Kg		92	65 - 140
1,3-Dichlorobenzene	0.000		1910	1830		ug/Kg		96	60 - 145
1,3-Dichloropropane	0.000		1910	2030		ug/Kg		106	65 - 135
1,4-Dichlorobenzene	0.000		1910	1840		ug/Kg		96	60 - 140
2,2-Dichloropropane	0.000		1910	2230		ug/Kg		117	50 - 150
2-Chlorotoluene	0.000		1910	1770		ug/Kg		93	60 - 145
2-Hexanone	0.000		1910	1750		ug/Kg		92	30 - 155
4-Chlorotoluene	0.000		1910	1790		ug/Kg		94	65 - 140
4-Isopropyltoluene	0.000		1910	1750		ug/Kg		92	60 - 140
Benzene	0.000		1910	2070		ug/Kg		108	55 - 140
Bromobenzene	0.000		1910	1940		ug/Kg		102	60 - 140
Bromoform	0.000		1910	2460		ug/Kg		129	50 - 140
Bromomethane	0.000		1910	1980		ug/Kg		103	30 - 140
Carbon disulfide	0.000		1910	2100		ug/Kg		110	50 - 130
Carbon tetrachloride	0.000		1910	2270		ug/Kg		119	65 - 145
Chlorobenzene	0.000		1910	2010		ug/Kg		105	65 - 145
Chlorobromomethane	0.000		1910	2090		ug/Kg		110	60 - 145
Chloroethane	0.000		1910	1520		ug/Kg		80	35 - 140
Chloroform	0.000		1910	2230		ug/Kg		117	60 - 140
Chloromethane	0.000		1910	1610		ug/Kg		84	25 - 140
cis-1,2-Dichloroethene	0.000		1910	2260		ug/Kg		118	55 - 135
cis-1,3-Dichloropropene	0.000		1910	2250		ug/Kg		118	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-D-21-B MS
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	0.000		1910	2070		ug/Kg		108	55 - 150
Dibromomethane	0.000		1910	2150		ug/Kg		112	65 - 135
Dichlorobromomethane	0.000		1910	2150		ug/Kg		113	60 - 150
Dichlorodifluoromethane	0.000		1910	2070		ug/Kg		108	10 - 155
Ethylbenzene	0.000		1910	2050		ug/Kg		107	50 - 150
Hexachlorobutadiene	0.000		1910	2400		ug/Kg		126	55 - 145
Isopropylbenzene	0.000		1910	2020		ug/Kg		106	65 - 145
m-Xylene & p-Xylene	0.000		1910	1990		ug/Kg		104	60 - 145
Methylene Chloride	39.8		1910	2140		ug/Kg		112	55 - 145
Methyl tert-butyl ether	0.000		1910	2490		ug/Kg		130	55 - 155
Naphthalene	11.9		1910	1850		ug/Kg		97	35 - 160
n-Butylbenzene	0.000		1910	1820		ug/Kg		95	55 - 155
N-Propylbenzene	0.000		1910	1780		ug/Kg		93	50 - 150
o-Xylene	0.000		1910	2030		ug/Kg		106	55 - 145
sec-Butylbenzene	0.000		1910	1740		ug/Kg		91	55 - 145
Styrene	0.000		1910	1770		ug/Kg		93	60 - 150
tert-Butylbenzene	0.000		1910	1730		ug/Kg		91	65 - 150
Tetrachloroethene	0.000		1910	2360		ug/Kg		123	60 - 150
Toluene	14.7		1910	2030		ug/Kg		106	55 - 140
trans-1,2-Dichloroethene	0.000		1910	2160		ug/Kg		113	55 - 145
trans-1,3-Dichloropropene	0.000		1910	2220		ug/Kg		116	60 - 145
Trichloroethene	0.000		1910	2120		ug/Kg		111	65 - 150
Trichlorofluoromethane	0.000		1910	2180		ug/Kg		114	35 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000		1910	2200		ug/Kg		115	60 - 140
Vinyl acetate	0.000		1910	2010		ug/Kg		105	20 - 145
Vinyl chloride	0.000		1910	956		ug/Kg		50	10 - 120
Ethylene Dibromide	0.000		1910	2040		ug/Kg		107	65 - 145
2-Butanone (MEK)	0.000		1910	2060		ug/Kg		108	20 - 175
4-Methyl-2-pentanone (MIBK)	0.000		1910	1770		ug/Kg		92	35 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*

Lab Sample ID: 720-91011-D-21-C MSD
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		1530	1660		ug/Kg		109	60 - 140	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-D-21-C MSD
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	0.000		1910	1830		ug/Kg		96	50 - 145	5	30
1,1,1,2-Tetrachloroethane	0.000		1910	2060		ug/Kg		108	60 - 150	1	20
1,1,1-Trichloroethane	0.000		1910	2280		ug/Kg		120	60 - 140	2	20
1,1,2,2-Tetrachloroethane	57.5		1910	1730		ug/Kg		88	50 - 145	3	25
1,1,2-Trichloroethane	0.000		1910	2040		ug/Kg		107	60 - 145	1	25
1,1-Dichloroethane	0.000		1910	1600		ug/Kg		84	60 - 145	2	25
1,1-Dichloroethene	0.000		1910	2180		ug/Kg		114	55 - 155	2	25
1,1-Dichloropropene	0.000		1910	2180		ug/Kg		114	60 - 140	4	25
1,2,3-Trichlorobenzene	0.000		1910	2180		ug/Kg		114	50 - 140	5	25
1,2,4-Trichlorobenzene	0.000		1910	2300		ug/Kg		120	60 - 140	1	25
1,2,4-Trimethylbenzene	0.000		1910	1760		ug/Kg		92	60 - 140	1	25
1,2-Dibromo-3-Chloropropane	0.000		1910	1850		ug/Kg		97	40 - 160	9	30
1,2-Dichlorobenzene	0.000		1910	1820		ug/Kg		95	60 - 135	0	25
1,2-Dichloroethane	0.000		1910	1930		ug/Kg		101	60 - 145	2	25
1,2-Dichloropropane	0.000		1910	1570		ug/Kg		82	60 - 140	1	25
1,3,5-Trimethylbenzene	0.000		1910	1790		ug/Kg		94	65 - 140	1	25
1,3-Dichlorobenzene	0.000		1910	1800		ug/Kg		94	60 - 145	2	25
1,3-Dichloropropane	0.000		1910	2050		ug/Kg		107	65 - 135	1	25
1,4-Dichlorobenzene	0.000		1910	1820		ug/Kg		95	60 - 140	1	25
2,2-Dichloropropane	0.000		1910	2150		ug/Kg		112	50 - 150	4	25
2-Chlorotoluene	0.000		1910	1790		ug/Kg		93	60 - 145	1	25
2-Hexanone	0.000		1910	1680		ug/Kg		88	30 - 155	4	40
4-Chlorotoluene	0.000		1910	1760		ug/Kg		92	65 - 140	2	25
4-Isopropyltoluene	0.000		1910	1750		ug/Kg		91	60 - 140	0	25
Benzene	0.000		1910	2020		ug/Kg		106	55 - 140	2	25
Bromobenzene	0.000		1910	1950		ug/Kg		102	60 - 140	1	25
Bromoform	0.000		1910	2410		ug/Kg		126	50 - 140	2	30
Bromomethane	0.000		1910	1910		ug/Kg		100	30 - 140	4	30
Carbon disulfide	0.000		1910	2070		ug/Kg		108	50 - 130	2	25
Carbon tetrachloride	0.000		1910	2190		ug/Kg		114	65 - 145	4	25
Chlorobenzene	0.000		1910	2020		ug/Kg		106	65 - 145	0	25
Chlorobromomethane	0.000		1910	2090		ug/Kg		109	60 - 145	0	25
Chloroethane	0.000		1910	1540		ug/Kg		80	35 - 140	1	30
Chloroform	0.000		1910	2170		ug/Kg		113	60 - 140	3	25
Chloromethane	0.000		1910	1580		ug/Kg		83	25 - 140	2	30
cis-1,2-Dichloroethene	0.000		1910	2200		ug/Kg		115	55 - 135	3	25
cis-1,3-Dichloropropene	0.000		1910	2250		ug/Kg		118	65 - 140	0	25
Chlorodibromomethane	0.000		1910	2070		ug/Kg		108	55 - 150	0	25
Dibromomethane	0.000		1910	2110		ug/Kg		111	65 - 135	2	25
Dichlorobromomethane	0.000		1910	2160		ug/Kg		113	60 - 150	0	25
Dichlorodifluoromethane	0.000		1910	2030		ug/Kg		106	10 - 155	2	35
Ethylbenzene	0.000		1910	2060		ug/Kg		108	50 - 150	0	25
Hexachlorobutadiene	0.000		1910	2430		ug/Kg		127	55 - 145	1	35
Isopropylbenzene	0.000		1910	2090		ug/Kg		109	65 - 145	3	25
m-Xylene & p-Xylene	0.000		1910	2040		ug/Kg		107	60 - 145	3	25
Methylene Chloride	39.8		1910	2110		ug/Kg		110	55 - 145	2	25
Methyl tert-butyl ether	0.000		1910	2400		ug/Kg		126	55 - 155	4	30
Naphthalene	11.9		1910	1810		ug/Kg		95	35 - 160	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91011-D-21-C MSD
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
n-Butylbenzene	0.000		1910	1810		ug/Kg		95	55 - 155	1	25
N-Propylbenzene	0.000		1910	1780		ug/Kg		93	50 - 150	0	25
o-Xylene	0.000		1910	2090		ug/Kg		109	55 - 145	3	25
sec-Butylbenzene	0.000		1910	1720		ug/Kg		90	55 - 145	1	25
Styrene	0.000		1910	1810		ug/Kg		94	60 - 150	2	25
tert-Butylbenzene	0.000		1910	1710		ug/Kg		90	65 - 150	1	25
Tetrachloroethene	0.000		1910	2380		ug/Kg		125	60 - 150	1	25
Toluene	14.7		1910	2040		ug/Kg		107	55 - 140	1	25
trans-1,2-Dichloroethene	0.000		1910	2050		ug/Kg		107	55 - 145	5	25
trans-1,3-Dichloropropene	0.000		1910	2220		ug/Kg		116	60 - 145	0	25
Trichloroethene	0.000		1910	2050		ug/Kg		107	65 - 150	4	25
Trichlorofluoromethane	0.000		1910	2120		ug/Kg		111	35 - 150	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.000		1910	2150		ug/Kg		113	60 - 140	2	40
Vinyl acetate	0.000		1910	1910		ug/Kg		100	20 - 145	5	30
Vinyl chloride	0.000		1910	932		ug/Kg		49	10 - 120	3	35
Ethylene Dibromide	0.000		1910	1980		ug/Kg		104	65 - 145	3	25
2-Butanone (MEK)	0.000		1910	1860		ug/Kg		97	20 - 175	10	40
4-Methyl-2-pentanone (MIBK)	0.000		1910	1660		ug/Kg		87	35 - 155	6	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 440-526002/4
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/31/19 08:27	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/31/19 08:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/31/19 08:27	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/31/19 08:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526002/4
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
2-Hexanone	ND		10	5.0	ug/Kg			01/31/19 08:27	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Benzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Bromoform	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/31/19 08:27	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Chloroform	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/31/19 08:27	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Styrene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Toluene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/31/19 08:27	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/31/19 08:27	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/31/19 08:27	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/31/19 08:27	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/31/19 08:27	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/31/19 08:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/31/19 08:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526002/4
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		79 - 123		01/31/19 08:27	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		01/31/19 08:27	1

Lab Sample ID: LCS 440-526002/5
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	20.0	21.3		ug/Kg		107	60 - 135
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/Kg		103	70 - 130
1,1,1-Trichloroethane	20.0	20.3		ug/Kg		101	65 - 135
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/Kg		107	55 - 140
1,1,2-Trichloroethane	20.0	20.9		ug/Kg		104	65 - 135
1,1-Dichloroethane	20.0	20.2		ug/Kg		101	70 - 130
1,1-Dichloroethene	20.0	21.2		ug/Kg		106	70 - 125
1,1-Dichloropropene	20.0	21.3		ug/Kg		106	70 - 130
1,2,3-Trichlorobenzene	20.0	20.3		ug/Kg		101	60 - 130
1,2,4-Trichlorobenzene	20.0	21.5		ug/Kg		107	70 - 135
1,2,4-Trimethylbenzene	20.0	20.5		ug/Kg		102	70 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/Kg		97	50 - 135
1,2-Dichlorobenzene	20.0	20.6		ug/Kg		103	75 - 120
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	60 - 140
1,2-Dichloropropane	20.0	21.0		ug/Kg		105	70 - 130
1,3,5-Trimethylbenzene	20.0	20.8		ug/Kg		104	70 - 125
1,3-Dichlorobenzene	20.0	20.5		ug/Kg		103	75 - 125
1,3-Dichloropropane	20.0	20.4		ug/Kg		102	70 - 125
1,4-Dichlorobenzene	20.0	20.2		ug/Kg		101	75 - 120
2,2-Dichloropropane	20.0	21.3		ug/Kg		106	60 - 145
2-Chlorotoluene	20.0	20.3		ug/Kg		102	70 - 125
2-Hexanone	20.0	19.4		ug/Kg		97	40 - 150
4-Chlorotoluene	20.0	20.3		ug/Kg		102	75 - 125
4-Isopropyltoluene	20.0	21.5		ug/Kg		107	75 - 125
Benzene	20.0	20.2		ug/Kg		101	65 - 120
Bromobenzene	20.0	20.8		ug/Kg		104	75 - 120
Bromoform	20.0	20.6		ug/Kg		103	55 - 135
Bromomethane	20.0	20.1		ug/Kg		100	60 - 145
Carbon disulfide	20.0	19.7		ug/Kg		99	50 - 130
Carbon tetrachloride	20.0	20.7		ug/Kg		103	65 - 140
Chlorobenzene	20.0	20.1		ug/Kg		100	75 - 120
Chlorobromomethane	20.0	21.5		ug/Kg		108	70 - 135
Chloroethane	20.0	19.8		ug/Kg		99	60 - 140
Chloroform	20.0	20.5		ug/Kg		102	70 - 130
Chloromethane	20.0	17.8		ug/Kg		89	45 - 145
cis-1,2-Dichloroethene	20.0	20.2		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	20.0	21.5		ug/Kg		108	75 - 125
Chlorodibromomethane	20.0	20.4		ug/Kg		102	65 - 140
Dibromomethane	20.0	20.6		ug/Kg		103	70 - 130
Dichlorobromomethane	20.0	20.5		ug/Kg		103	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526002/5
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.0	20.1		ug/Kg		100	35 - 160
Ethylbenzene	20.0	20.3		ug/Kg		101	70 - 125
Hexachlorobutadiene	20.0	21.5		ug/Kg		107	60 - 135
Isopropylbenzene	20.0	21.0		ug/Kg		105	75 - 130
m-Xylene & p-Xylene	20.0	20.2		ug/Kg		101	70 - 125
Methylene Chloride	20.0	16.6		ug/Kg		83	55 - 135
Methyl tert-butyl ether	20.0	20.7		ug/Kg		104	60 - 140
Naphthalene	20.0	19.3		ug/Kg		97	55 - 135
n-Butylbenzene	20.0	20.6		ug/Kg		103	70 - 130
N-Propylbenzene	20.0	21.4		ug/Kg		107	70 - 130
o-Xylene	20.0	20.2		ug/Kg		101	70 - 125
sec-Butylbenzene	20.0	21.3		ug/Kg		106	70 - 125
Styrene	20.0	19.2		ug/Kg		96	75 - 130
tert-Butylbenzene	20.0	20.5		ug/Kg		102	70 - 125
Tetrachloroethene	20.0	20.5		ug/Kg		103	70 - 125
Toluene	20.0	20.3		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	20.0	21.1		ug/Kg		106	70 - 125
trans-1,3-Dichloropropene	20.0	20.2		ug/Kg		101	70 - 135
Trichloroethene	20.0	20.9		ug/Kg		104	70 - 125
Trichlorofluoromethane	20.0	21.5		ug/Kg		107	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1		ug/Kg		106	60 - 140
Vinyl acetate	20.0	21.5		ug/Kg		107	45 - 145
Vinyl chloride	20.0	19.9		ug/Kg		100	55 - 135
Ethylene Dibromide	20.0	21.0		ug/Kg		105	70 - 130
2-Butanone (MEK)	20.0	22.4		ug/Kg		112	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	19.4		ug/Kg		97	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 440-526004/4
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		100	50	ug/Kg			01/31/19 09:32	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*60 - 140*		*01/31/19 09:32*	*100*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*01/31/19 09:32*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526004/11
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dichloropropane			1000	1070		ug/Kg		107	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*

Lab Sample ID: LCSD 440-526004/6
Matrix: Solid
Analysis Batch: 526004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane			1000	1040		ug/Kg		104	75 - 125	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		16.3	16.1		ug/Kg		99	50 - 150
1,1,1,2-Tetrachloroethane	ND		16.3	15.3		ug/Kg		94	65 - 145
1,1,1-Trichloroethane	ND	F2	16.3	15.4		ug/Kg		94	65 - 145
1,1,2,2-Tetrachloroethane	ND		16.3	16.5		ug/Kg		101	40 - 160
1,1,2-Trichloroethane	ND		16.3	16.1		ug/Kg		98	65 - 140
1,1-Dichloroethane	ND		16.3	16.1		ug/Kg		99	65 - 135
1,1-Dichloroethene	ND		16.3	16.2		ug/Kg		99	65 - 135
1,1-Dichloropropene	ND		16.3	15.0		ug/Kg		92	65 - 135
1,2,3-Trichlorobenzene	ND		16.3	8.35		ug/Kg		51	45 - 145
1,2,4-Trichlorobenzene	ND		16.3	8.88		ug/Kg		54	50 - 140
1,2,4-Trimethylbenzene	ND		16.3	12.9		ug/Kg		79	65 - 140
1,2-Dibromo-3-Chloropropane	ND		16.3	14.3		ug/Kg		87	40 - 150
1,2-Dichlorobenzene	ND		16.3	12.5		ug/Kg		77	70 - 130
1,2-Dichloroethane	ND		16.3	15.7		ug/Kg		96	60 - 150
1,2-Dichloropropane	ND		16.3	16.1		ug/Kg		99	65 - 130
1,3,5-Trimethylbenzene	ND		16.3	13.1		ug/Kg		80	65 - 135
1,3-Dichlorobenzene	ND		16.3	11.8		ug/Kg		72	70 - 130
1,3-Dichloropropane	ND		16.3	15.7		ug/Kg		96	65 - 140
1,4-Dichlorobenzene	ND		16.3	11.9		ug/Kg		73	70 - 130
2,2-Dichloropropane	ND		16.3	16.2		ug/Kg		99	65 - 150
2-Chlorotoluene	ND		16.3	13.0		ug/Kg		80	60 - 135
2-Hexanone	ND		16.3	16.2		ug/Kg		99	35 - 160
4-Chlorotoluene	ND		16.3	12.9		ug/Kg		79	65 - 135
4-Isopropyltoluene	ND		16.3	11.8		ug/Kg		72	60 - 140
Benzene	ND		16.3	15.7		ug/Kg		96	65 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	ND		16.3	13.9		ug/Kg		85	65 - 140
Bromoform	ND		16.3	15.2		ug/Kg		93	50 - 145
Bromomethane	ND		16.3	16.4		ug/Kg		101	60 - 155
Carbon disulfide	ND	F2	16.3	14.8		ug/Kg		90	40 - 140
Carbon tetrachloride	ND		16.3	15.3		ug/Kg		94	60 - 145
Chlorobenzene	ND		16.3	14.3		ug/Kg		87	70 - 130
Chlorobromomethane	ND		16.3	17.0		ug/Kg		104	65 - 145
Chloroethane	ND		16.3	15.6		ug/Kg		95	60 - 150
Chloroform	ND		16.3	16.0		ug/Kg		98	65 - 135
Chloromethane	ND	F2	16.3	15.7		ug/Kg		96	40 - 145
cis-1,2-Dichloroethene	ND		16.3	16.0		ug/Kg		98	65 - 135
cis-1,3-Dichloropropene	ND		16.3	16.2		ug/Kg		99	70 - 135
Chlorodibromomethane	ND		16.3	15.4		ug/Kg		94	60 - 145
Dibromomethane	ND		16.3	16.6		ug/Kg		102	65 - 140
Dichlorobromomethane	ND		16.3	15.5		ug/Kg		95	65 - 145
Dichlorodifluoromethane	ND		16.3	16.9		ug/Kg		103	30 - 160
Ethylbenzene	ND		16.3	13.9		ug/Kg		85	70 - 135
Hexachlorobutadiene	ND	F1	16.3	7.54	F1	ug/Kg		46	50 - 145
Isopropylbenzene	ND		16.3	13.5		ug/Kg		82	70 - 145
m-Xylene & p-Xylene	ND		16.3	14.0		ug/Kg		86	70 - 130
Methylene Chloride	ND		16.3	13.7		ug/Kg		84	55 - 145
Methyl tert-butyl ether	ND		16.3	17.2		ug/Kg		105	55 - 155
Naphthalene	ND		16.3	10.9		ug/Kg		67	40 - 150
n-Butylbenzene	ND		16.3	9.90		ug/Kg		61	55 - 145
N-Propylbenzene	ND		16.3	13.0		ug/Kg		79	65 - 140
o-Xylene	ND		16.3	14.0		ug/Kg		86	65 - 130
sec-Butylbenzene	ND		16.3	11.8		ug/Kg		72	60 - 135
Styrene	ND		16.3	13.2		ug/Kg		81	70 - 140
tert-Butylbenzene	ND		16.3	12.8		ug/Kg		78	60 - 140
Tetrachloroethene	ND		16.3	13.5		ug/Kg		83	65 - 135
Toluene	ND		16.3	15.2		ug/Kg		93	70 - 130
trans-1,2-Dichloroethene	ND		16.3	15.6		ug/Kg		95	70 - 135
trans-1,3-Dichloropropene	ND		16.3	15.3		ug/Kg		93	60 - 145
Trichloroethene	ND		16.3	14.8		ug/Kg		90	65 - 140
Trichlorofluoromethane	ND	F2	16.3	16.9		ug/Kg		104	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		16.3	15.8		ug/Kg		97	60 - 140
Vinyl acetate	ND		16.3	15.5		ug/Kg		95	40 - 150
Vinyl chloride	ND		16.3	16.5		ug/Kg		101	55 - 140
Ethylene Dibromide	ND		16.3	15.9		ug/Kg		97	65 - 140
2-Butanone (MEK)	ND		16.3	19.3		ug/Kg		118	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		16.3	16.5		ug/Kg		101	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		15.8	13.9		ug/Kg		88	50 - 150	15	30
1,1,1,2-Tetrachloroethane	ND		15.8	13.1		ug/Kg		83	65 - 145	16	20
1,1,1-Trichloroethane	ND	F2	15.8	12.4	F2	ug/Kg		78	65 - 145	21	20
1,1,2,2-Tetrachloroethane	ND		15.8	13.9		ug/Kg		88	40 - 160	17	30
1,1,2-Trichloroethane	ND		15.8	13.2		ug/Kg		83	65 - 140	20	30
1,1-Dichloroethane	ND		15.8	13.2		ug/Kg		84	65 - 135	20	25
1,1-Dichloroethene	ND		15.8	12.9		ug/Kg		82	65 - 135	23	25
1,1-Dichloropropene	ND		15.8	12.6		ug/Kg		80	65 - 135	17	20
1,2,3-Trichlorobenzene	ND		15.8	9.26		ug/Kg		59	45 - 145	10	30
1,2,4-Trichlorobenzene	ND		15.8	9.63		ug/Kg		61	50 - 140	8	30
1,2,4-Trimethylbenzene	ND		15.8	11.8		ug/Kg		74	65 - 140	9	25
1,2-Dibromo-3-Chloropropane	ND		15.8	12.4		ug/Kg		79	40 - 150	14	30
1,2-Dichlorobenzene	ND		15.8	11.6		ug/Kg		73	70 - 130	8	25
1,2-Dichloroethane	ND		15.8	12.9		ug/Kg		82	60 - 150	20	25
1,2-Dichloropropane	ND		15.8	13.5		ug/Kg		85	65 - 130	18	20
1,3,5-Trimethylbenzene	ND		15.8	11.9		ug/Kg		75	65 - 135	10	25
1,3-Dichlorobenzene	ND		15.8	11.1		ug/Kg		70	70 - 130	6	25
1,3-Dichloropropane	ND		15.8	13.5		ug/Kg		86	65 - 140	15	25
1,4-Dichlorobenzene	ND		15.8	11.3		ug/Kg		71	70 - 130	6	25
2,2-Dichloropropane	ND		15.8	12.7		ug/Kg		80	65 - 150	24	25
2-Chlorotoluene	ND		15.8	11.8		ug/Kg		75	60 - 135	10	25
2-Hexanone	ND		15.8	13.6		ug/Kg		86	35 - 160	18	40
4-Chlorotoluene	ND		15.8	11.7		ug/Kg		74	65 - 135	9	25
4-Isopropyltoluene	ND		15.8	11.4		ug/Kg		72	60 - 140	3	25
Benzene	ND		15.8	13.2		ug/Kg		83	65 - 130	18	20
Bromobenzene	ND		15.8	12.4		ug/Kg		78	65 - 140	11	25
Bromoform	ND		15.8	13.0		ug/Kg		82	50 - 145	16	30
Bromomethane	ND		15.8	13.4		ug/Kg		85	60 - 155	21	25
Carbon disulfide	ND	F2	15.8	11.9	F2	ug/Kg		75	40 - 140	22	20
Carbon tetrachloride	ND		15.8	12.1		ug/Kg		77	60 - 145	23	25
Chlorobenzene	ND		15.8	12.5		ug/Kg		79	70 - 130	13	25
Chlorobromomethane	ND		15.8	14.1		ug/Kg		89	65 - 145	19	25
Chloroethane	ND		15.8	12.8		ug/Kg		81	60 - 150	20	25
Chloroform	ND		15.8	13.4		ug/Kg		84	65 - 135	18	20
Chloromethane	ND	F2	15.8	11.9	F2	ug/Kg		75	40 - 145	28	25
cis-1,2-Dichloroethene	ND		15.8	13.4		ug/Kg		84	65 - 135	18	25
cis-1,3-Dichloropropene	ND		15.8	13.9		ug/Kg		88	70 - 135	15	25
Chlorodibromomethane	ND		15.8	13.5		ug/Kg		85	60 - 145	13	25
Dibromomethane	ND		15.8	13.9		ug/Kg		88	65 - 140	18	25
Dichlorobromomethane	ND		15.8	13.4		ug/Kg		85	65 - 145	14	20
Dichlorodifluoromethane	ND		15.8	12.1		ug/Kg		77	30 - 160	33	35
Ethylbenzene	ND		15.8	12.1		ug/Kg		77	70 - 135	13	25
Hexachlorobutadiene	ND	F1	15.8	8.21		ug/Kg		52	50 - 145	9	35
Isopropylbenzene	ND		15.8	12.1		ug/Kg		76	70 - 145	11	25
m-Xylene & p-Xylene	ND		15.8	12.2		ug/Kg		77	70 - 130	14	25
Methylene Chloride	ND		15.8	10.7		ug/Kg		68	55 - 145	25	25
Methyl tert-butyl ether	ND		15.8	14.0		ug/Kg		88	55 - 155	21	35
Naphthalene	ND		15.8	10.4		ug/Kg		66	40 - 150	5	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 526002

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
n-Butylbenzene	ND		15.8	10.3		ug/Kg		65	55 - 145	4	30
N-Propylbenzene	ND		15.8	11.9		ug/Kg		75	65 - 140	8	25
o-Xylene	ND		15.8	12.4		ug/Kg		78	65 - 130	13	25
sec-Butylbenzene	ND		15.8	11.5		ug/Kg		72	60 - 135	3	25
Styrene	ND		15.8	11.6		ug/Kg		73	70 - 140	12	25
tert-Butylbenzene	ND		15.8	11.9		ug/Kg		75	60 - 140	7	25
Tetrachloroethene	ND		15.8	12.2		ug/Kg		77	65 - 135	10	25
Toluene	ND		15.8	13.3		ug/Kg		84	70 - 130	13	20
trans-1,2-Dichloroethene	ND		15.8	12.9		ug/Kg		82	70 - 135	19	25
trans-1,3-Dichloropropene	ND		15.8	13.3		ug/Kg		84	60 - 145	14	25
Trichloroethene	ND		15.8	12.8		ug/Kg		81	65 - 140	15	25
Trichlorofluoromethane	ND	F2	15.8	12.9	F2	ug/Kg		82	55 - 155	27	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15.8	12.2		ug/Kg		77	60 - 140	26	40
Vinyl acetate	ND		15.8	13.1		ug/Kg		83	40 - 150	16	30
Vinyl chloride	ND		15.8	13.1		ug/Kg		83	55 - 140	23	30
Ethylene Dibromide	ND		15.8	13.4		ug/Kg		85	65 - 140	17	25
2-Butanone (MEK)	ND		15.8	13.4		ug/Kg		84	25 - 170	36	40
4-Methyl-2-pentanone (MIBK)	ND		15.8	14.0		ug/Kg		88	40 - 155	17	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND	*	41.9	40.6		ug/Kg		97	50 - 150
1,1,1,2-Tetrachloroethane	ND	*	41.9	40.1		ug/Kg		96	65 - 145
1,1,1-Trichloroethane	ND	*	41.9	43.8		ug/Kg		104	65 - 145
1,1,2,2-Tetrachloroethane	ND	*	41.9	42.1		ug/Kg		100	40 - 160
1,1,2-Trichloroethane	ND	*	41.9	39.2		ug/Kg		93	65 - 140
1,1-Dichloroethane	ND	*	41.9	41.8		ug/Kg		100	65 - 135
1,1-Dichloroethene	ND	*	41.9	45.0		ug/Kg		107	65 - 135
1,1-Dichloropropene	ND	*	41.9	43.9		ug/Kg		105	65 - 135
1,2,3-Trichlorobenzene	ND	F2 F1 *	41.9	29.0		ug/Kg		69	45 - 145
1,2,4-Trichlorobenzene	ND	F2 F1 *	41.9	30.5		ug/Kg		73	50 - 140
1,2,4-Trimethylbenzene	ND	F2 F1 *	41.9	37.2		ug/Kg		89	65 - 140
1,2-Dibromo-3-Chloropropane	ND	*	41.9	39.8		ug/Kg		95	40 - 150
1,2-Dichlorobenzene	ND	F2 F1 *	41.9	35.6		ug/Kg		85	70 - 130
1,2-Dichloroethane	ND	*	41.9	39.0		ug/Kg		93	60 - 150
1,2-Dichloropropane	ND	*	41.9	42.2		ug/Kg		101	65 - 130
1,3,5-Trimethylbenzene	ND	F2 F1 *	41.9	37.4		ug/Kg		89	65 - 135
1,3-Dichlorobenzene	ND	F2 F1 *	41.9	35.1		ug/Kg		84	70 - 130
1,3-Dichloropropane	ND	*	41.9	39.7		ug/Kg		95	65 - 140
1,4-Dichlorobenzene	ND	F2 F1 *	41.9	34.6		ug/Kg		83	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND	*	41.9	44.6		ug/Kg		106	65 - 150
2-Chlorotoluene	ND	F2 F1 *	41.9	37.1		ug/Kg		89	60 - 135
2-Hexanone	ND	*	41.9	40.4		ug/Kg		96	35 - 160
4-Chlorotoluene	ND	F2 F1 *	41.9	37.3		ug/Kg		89	65 - 135
4-Isopropyltoluene	ND	F2 F1 *	41.9	35.4		ug/Kg		84	60 - 140
Benzene	ND	*	41.9	42.0		ug/Kg		100	65 - 130
Bromobenzene	ND	F1 *	41.9	38.4		ug/Kg		92	65 - 140
Bromoform	ND	*	41.9	40.5		ug/Kg		97	50 - 145
Bromomethane	ND	*	41.9	42.0		ug/Kg		100	60 - 155
Carbon disulfide	ND	*	41.9	42.4		ug/Kg		101	40 - 140
Carbon tetrachloride	ND	*	41.9	44.7		ug/Kg		107	60 - 145
Chlorobenzene	ND	F1 *	41.9	38.1		ug/Kg		91	70 - 130
Chlorobromomethane	ND	*	41.9	43.3		ug/Kg		103	65 - 145
Chloroethane	ND	*	41.9	41.1		ug/Kg		98	60 - 150
Chloroform	ND	*	41.9	42.3		ug/Kg		101	65 - 135
Chloromethane	ND	*	41.9	44.1		ug/Kg		105	40 - 145
cis-1,2-Dichloroethene	ND	*	41.9	41.9		ug/Kg		100	65 - 135
cis-1,3-Dichloropropene	ND	*	41.9	41.9		ug/Kg		100	70 - 135
Chlorodibromomethane	ND	*	41.9	41.5		ug/Kg		99	60 - 145
Dibromomethane	ND	*	41.9	42.2		ug/Kg		101	65 - 140
Dichlorobromomethane	ND	*	41.9	41.4		ug/Kg		99	65 - 145
Dichlorodifluoromethane	ND	*	41.9	45.6	E	ug/Kg		109	30 - 160
Ethylbenzene	ND	F2 F1 *	41.9	37.9		ug/Kg		90	70 - 135
Hexachlorobutadiene	ND	F2 F1 *	41.9	19.6	F1	ug/Kg		47	50 - 145
Isopropylbenzene	ND	F2 F1 *	41.9	38.2		ug/Kg		91	70 - 145
m-Xylene & p-Xylene	ND	F2 F1 *	41.9	38.1		ug/Kg		91	70 - 130
Methylene Chloride	ND	*	41.9	38.6		ug/Kg		92	55 - 145
Methyl tert-butyl ether	ND	*	41.9	40.0		ug/Kg		95	55 - 155
Naphthalene	ND	F2 F1 *	41.9	34.1		ug/Kg		81	40 - 150
n-Butylbenzene	ND	F2 F1 *	41.9	31.4		ug/Kg		75	55 - 145
N-Propylbenzene	ND	F2 F1 *	41.9	37.4		ug/Kg		89	65 - 140
o-Xylene	ND	F2 F1 *	41.9	38.7		ug/Kg		92	65 - 130
sec-Butylbenzene	ND	F2 F1 *	41.9	35.3		ug/Kg		84	60 - 135
Styrene	ND	F2 F1 *	41.9	36.0		ug/Kg		86	70 - 140
tert-Butylbenzene	ND	F2 F1 *	41.9	36.6		ug/Kg		87	60 - 140
Tetrachloroethene	ND	F2 F1 *	41.9	37.9		ug/Kg		90	65 - 135
Toluene	3.0	F1 *	41.9	39.5		ug/Kg		87	70 - 130
trans-1,2-Dichloroethene	ND	*	41.9	44.6		ug/Kg		106	70 - 135
trans-1,3-Dichloropropene	ND	*	41.9	40.1		ug/Kg		96	60 - 145
Trichloroethene	ND	*	41.9	43.7		ug/Kg		104	65 - 140
Trichlorofluoromethane	ND	*	41.9	46.9		ug/Kg		112	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	41.9	45.3		ug/Kg		108	60 - 140
Vinyl acetate	ND	*	41.9	38.8		ug/Kg		93	40 - 150
Vinyl chloride	ND	*	41.9	46.3		ug/Kg		110	55 - 140
Ethylene Dibromide	ND	*	41.9	39.4		ug/Kg		94	65 - 140
2-Butanone (MEK)	ND	*	41.9	47.5		ug/Kg		113	25 - 170
4-Methyl-2-pentanone (MIBK)	ND	*	41.9	39.1		ug/Kg		93	40 - 155

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*97*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND	*	51.4	50.0		ug/Kg		97	50 - 150	21	30
1,1,1,2-Tetrachloroethane	ND	*	51.4	39.2		ug/Kg		76	65 - 145	2	20
1,1,1-Trichloroethane	ND	*	51.4	44.1		ug/Kg		86	65 - 145	1	20
1,1,2,2-Tetrachloroethane	ND	*	51.4	47.1		ug/Kg		92	40 - 160	11	30
1,1,2-Trichloroethane	ND	*	51.4	45.0		ug/Kg		87	65 - 140	14	30
1,1-Dichloroethane	ND	*	51.4	47.9		ug/Kg		93	65 - 135	13	25
1,1-Dichloroethene	ND	*	51.4	47.9		ug/Kg		93	65 - 135	6	25
1,1-Dichloropropene	ND	*	51.4	37.7		ug/Kg		73	65 - 135	15	20
1,2,3-Trichlorobenzene	ND	F2 F1 *	51.4	10.9	F4 F1	ug/Kg		21	45 - 145	90	30
1,2,4-Trichlorobenzene	ND	F2 F1 *	51.4	11.5	F4 F1	ug/Kg		22	50 - 140	91	30
1,2,4-Trimethylbenzene	ND	F2 F1 *	51.4	22.0	F4 F1	ug/Kg		43	65 - 140	52	25
1,2-Dibromo-3-Chloropropane	ND	*	51.4	41.3		ug/Kg		80	40 - 150	4	30
1,2-Dichlorobenzene	ND	F2 F1 *	51.4	20.7	F4 F1	ug/Kg		40	70 - 130	53	25
1,2-Dichloroethane	ND	*	51.4	45.7		ug/Kg		89	60 - 150	16	25
1,2-Dichloropropane	ND	*	51.4	45.8		ug/Kg		89	65 - 130	8	20
1,3,5-Trimethylbenzene	ND	F2 F1 *	51.4	22.1	F4 F1	ug/Kg		43	65 - 135	51	25
1,3-Dichlorobenzene	ND	F2 F1 *	51.4	19.4	F4 F1	ug/Kg		38	70 - 130	58	25
1,3-Dichloropropane	ND	*	51.4	44.6		ug/Kg		87	65 - 140	12	25
1,4-Dichlorobenzene	ND	F2 F1 *	51.4	19.3	F4 F1	ug/Kg		37	70 - 130	57	25
2,2-Dichloropropane	ND	*	51.4	48.7		ug/Kg		95	65 - 150	9	25
2-Chlorotoluene	ND	F2 F1 *	51.4	24.3	F4 F1	ug/Kg		47	60 - 135	42	25
2-Hexanone	ND	*	51.4	53.1		ug/Kg		103	35 - 160	27	40
4-Chlorotoluene	ND	F2 F1 *	51.4	23.3	F4 F1	ug/Kg		45	65 - 135	46	25
4-Isopropyltoluene	ND	F2 F1 *	51.4	16.8	F4 F1	ug/Kg		33	60 - 140	71	25
Benzene	ND	*	51.4	44.0		ug/Kg		86	65 - 130	5	20
Bromobenzene	ND	F1 *	51.4	30.8	F1	ug/Kg		60	65 - 140	22	25
Bromoform	ND	*	51.4	39.3		ug/Kg		76	50 - 145	3	30
Bromomethane	ND	*	51.4	51.1		ug/Kg		99	60 - 155	19	25
Carbon disulfide	ND	*	51.4	41.4		ug/Kg		81	40 - 140	2	20
Carbon tetrachloride	ND	*	51.4	39.5		ug/Kg		77	60 - 145	12	25
Chlorobenzene	ND	F1 *	51.4	31.1	F1	ug/Kg		60	70 - 130	20	25
Chlorobromomethane	ND	*	51.4	51.9		ug/Kg		101	65 - 145	18	25
Chloroethane	ND	*	51.4	49.4		ug/Kg		96	60 - 150	18	25
Chloroform	ND	*	51.4	46.9		ug/Kg		91	65 - 135	10	20
Chloromethane	ND	*	51.4	53.6		ug/Kg		104	40 - 145	20	25
cis-1,2-Dichloroethene	ND	*	51.4	46.5		ug/Kg		90	65 - 135	11	25
cis-1,3-Dichloropropene	ND	*	51.4	46.4		ug/Kg		90	70 - 135	10	25
Chlorodibromomethane	ND	*	51.4	43.0		ug/Kg		84	60 - 145	4	25
Dibromomethane	ND	*	51.4	48.8		ug/Kg		95	65 - 140	14	25
Dichlorobromomethane	ND	*	51.4	44.0		ug/Kg		85	65 - 145	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND	*	51.4	50.4		ug/Kg		98	30 - 160	10	35
Ethylbenzene	ND	F2 F1 *	51.4	27.5	F4 F1	ug/Kg		54	70 - 135	32	25
Hexachlorobutadiene	ND	F2 F1 *	51.4	7.06	F4 F1	ug/Kg		14	50 - 145	94	35
Isopropylbenzene	ND	F2 F1 *	51.4	22.2	F4 F1	ug/Kg		43	70 - 145	53	25
m-Xylene & p-Xylene	ND	F2 F1 *	51.4	26.3	F4 F1	ug/Kg		51	70 - 130	36	25
Methylene Chloride	ND	*	51.4	45.5		ug/Kg		88	55 - 145	16	25
Methyl tert-butyl ether	ND	*	51.4	53.3		ug/Kg		104	55 - 155	29	35
Naphthalene	ND	F2 F1 *	51.4	19.9	F4 F1	ug/Kg		39	40 - 150	52	40
n-Butylbenzene	ND	F2 F1 *	51.4	13.3	F4 F1	ug/Kg		26	55 - 145	81	30
N-Propylbenzene	ND	F2 F1 *	51.4	21.7	F4 F1	ug/Kg		42	65 - 140	53	25
o-Xylene	ND	F2 F1 *	51.4	28.1	F4 F1	ug/Kg		55	65 - 130	32	25
sec-Butylbenzene	ND	F2 F1 *	51.4	17.1	F4 F1	ug/Kg		33	60 - 135	70	25
Styrene	ND	F2 F1 *	51.4	27.7	F4 F1	ug/Kg		54	70 - 140	26	25
tert-Butylbenzene	ND	F2 F1 *	51.4	20.1	F4 F1	ug/Kg		39	60 - 140	58	25
Tetrachloroethene	ND	F2 F1 *	51.4	24.4	F4 F1	ug/Kg		47	65 - 135	43	25
Toluene	3.0	F1 *	51.4	37.0	F1	ug/Kg		66	70 - 130	7	20
trans-1,2-Dichloroethene	ND	*	51.4	46.9		ug/Kg		91	70 - 135	5	25
trans-1,3-Dichloropropene	ND	*	51.4	43.7		ug/Kg		85	60 - 145	8	25
Trichloroethene	ND	*	51.4	38.5		ug/Kg		75	65 - 140	13	25
Trichlorofluoromethane	ND	*	51.4	48.4		ug/Kg		94	55 - 155	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	51.4	38.5		ug/Kg		75	60 - 140	16	40
Vinyl acetate	ND	*	51.4	35.7		ug/Kg		69	40 - 150	8	30
Vinyl chloride	ND	*	51.4	53.9		ug/Kg		105	55 - 140	15	30
Ethylene Dibromide	ND	*	51.4	44.6		ug/Kg		87	65 - 140	12	25
2-Butanone (MEK)	ND	*	51.4	61.4		ug/Kg		119	25 - 170	26	40
4-Methyl-2-pentanone (MIBK)	ND	*	51.4	54.2		ug/Kg		105	40 - 155	33	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 440-526209/4
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			01/31/19 20:49	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			01/31/19 20:49	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			01/31/19 20:49	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526209/4
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			01/31/19 20:49	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
2-Hexanone	ND		10	5.0	ug/Kg			01/31/19 20:49	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Benzene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Bromobenzene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Bromoform	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Bromomethane	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			01/31/19 20:49	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Chloroethane	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Chloroform	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Chloromethane	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Dibromomethane	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Methylene Chloride	ND		10	5.0	ug/Kg			01/31/19 20:49	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Naphthalene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Styrene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Toluene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Trichloroethene	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			01/31/19 20:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526209/4
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		8.0	4.0	ug/Kg			01/31/19 20:49	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			01/31/19 20:49	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			01/31/19 20:49	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			01/31/19 20:49	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			01/31/19 20:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			01/31/19 20:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/31/19 20:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/31/19 20:49*	*1*

Lab Sample ID: LCS 440-526209/5
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	20.0	21.2		ug/Kg		106	60 - 135
1,1,1,2-Tetrachloroethane	20.0	19.0		ug/Kg		95	70 - 130
1,1,1-Trichloroethane	20.0	18.6		ug/Kg		93	65 - 135
1,1,2,2-Tetrachloroethane	20.0	21.0		ug/Kg		105	55 - 140
1,1,2-Trichloroethane	20.0	19.7		ug/Kg		99	65 - 135
1,1-Dichloroethane	20.0	19.0		ug/Kg		95	70 - 130
1,1-Dichloroethene	20.0	18.7		ug/Kg		94	70 - 125
1,1-Dichloropropene	20.0	18.8		ug/Kg		94	70 - 130
1,2,3-Trichlorobenzene	20.0	19.4		ug/Kg		97	60 - 130
1,2,4-Trichlorobenzene	20.0	19.8		ug/Kg		99	70 - 135
1,2,4-Trimethylbenzene	20.0	19.2		ug/Kg		96	70 - 125
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/Kg		104	50 - 135
1,2-Dichlorobenzene	20.0	19.1		ug/Kg		95	75 - 120
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	60 - 140
1,2-Dichloropropane	20.0	19.9		ug/Kg		100	70 - 130
1,3,5-Trimethylbenzene	20.0	19.4		ug/Kg		97	70 - 125
1,3-Dichlorobenzene	20.0	19.0		ug/Kg		95	75 - 125
1,3-Dichloropropane	20.0	19.2		ug/Kg		96	70 - 125
1,4-Dichlorobenzene	20.0	18.7		ug/Kg		93	75 - 120
2,2-Dichloropropane	20.0	18.9		ug/Kg		94	60 - 145
2-Chlorotoluene	20.0	19.4		ug/Kg		97	70 - 125
2-Hexanone	20.0	19.6		ug/Kg		98	40 - 150
4-Chlorotoluene	20.0	19.4		ug/Kg		97	75 - 125
4-Isopropyltoluene	20.0	19.6		ug/Kg		98	75 - 125
Benzene	20.0	19.0		ug/Kg		95	65 - 120
Bromobenzene	20.0	20.0		ug/Kg		100	75 - 120
Bromoform	20.0	19.4		ug/Kg		97	55 - 135
Bromomethane	20.0	19.0		ug/Kg		95	60 - 145
Carbon disulfide	20.0	17.4		ug/Kg		87	50 - 130
Carbon tetrachloride	20.0	19.0		ug/Kg		95	65 - 140
Chlorobenzene	20.0	19.2		ug/Kg		96	75 - 120
Chlorobromomethane	20.0	20.8		ug/Kg		104	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526209/5
Matrix: Solid
Analysis Batch: 526209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	20.0	17.7		ug/Kg		89	60 - 140
Chloroform	20.0	19.7		ug/Kg		99	70 - 130
Chloromethane	20.0	16.7		ug/Kg		83	45 - 145
cis-1,2-Dichloroethene	20.0	19.7		ug/Kg		98	70 - 125
cis-1,3-Dichloropropene	20.0	19.8		ug/Kg		99	75 - 125
Chlorodibromomethane	20.0	19.9		ug/Kg		99	65 - 140
Dibromomethane	20.0	21.2		ug/Kg		106	70 - 130
Dichlorobromomethane	20.0	19.9		ug/Kg		99	70 - 135
Dichlorodifluoromethane	20.0	18.7		ug/Kg		94	35 - 160
Ethylbenzene	20.0	18.6		ug/Kg		93	70 - 125
Hexachlorobutadiene	20.0	18.6		ug/Kg		93	60 - 135
Isopropylbenzene	20.0	19.0		ug/Kg		95	75 - 130
m-Xylene & p-Xylene	20.0	18.4		ug/Kg		92	70 - 125
Methylene Chloride	20.0	15.8		ug/Kg		79	55 - 135
Methyl tert-butyl ether	20.0	19.9		ug/Kg		100	60 - 140
Naphthalene	20.0	19.1		ug/Kg		96	55 - 135
n-Butylbenzene	20.0	18.6		ug/Kg		93	70 - 130
N-Propylbenzene	20.0	19.4		ug/Kg		97	70 - 130
o-Xylene	20.0	19.0		ug/Kg		95	70 - 125
sec-Butylbenzene	20.0	19.5		ug/Kg		98	70 - 125
Styrene	20.0	18.1		ug/Kg		91	75 - 130
tert-Butylbenzene	20.0	18.9		ug/Kg		94	70 - 125
Tetrachloroethene	20.0	18.0		ug/Kg		90	70 - 125
Toluene	20.0	18.8		ug/Kg		94	70 - 125
trans-1,2-Dichloroethene	20.0	19.1		ug/Kg		96	70 - 125
trans-1,3-Dichloropropene	20.0	19.2		ug/Kg		96	70 - 135
Trichloroethene	20.0	19.3		ug/Kg		96	70 - 125
Trichlorofluoromethane	20.0	19.3		ug/Kg		97	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.4		ug/Kg		92	60 - 140
Vinyl acetate	20.0	19.2		ug/Kg		96	45 - 145
Vinyl chloride	20.0	18.1		ug/Kg		90	55 - 135
Ethylene Dibromide	20.0	20.0		ug/Kg		100	70 - 130
2-Butanone (MEK)	20.0	23.0		ug/Kg		115	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	19.3		ug/Kg		96	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 440-526258/4
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526258/4
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		79 - 123		02/01/19 08:30	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		02/01/19 08:30	1

Lab Sample ID: LCS 440-526258/5
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			20.0	19.0		ug/Kg		95	55 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		79 - 123
1,2-Dichloroethane-d4 (Surr)	104		70 - 130

Lab Sample ID: LCSD 440-526258/7
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			20.0	20.5		ug/Kg		103	55 - 135	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	98		79 - 123
1,2-Dichloroethane-d4 (Surr)	102		70 - 130

Lab Sample ID: MB 440-526536/5
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/04/19 09:07	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/04/19 09:07	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/04/19 09:07	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/04/19 09:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526536/5
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
2-Hexanone	ND		10	5.0	ug/Kg			02/04/19 09:07	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Benzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Bromoform	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/04/19 09:07	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Chloroform	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/04/19 09:07	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Styrene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Toluene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/04/19 09:07	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/04/19 09:07	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/04/19 09:07	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/04/19 09:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/04/19 09:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526536/5
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		79 - 123		02/04/19 09:07	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		02/04/19 09:07	1

Lab Sample ID: LCS 440-526536/6
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	20.0	20.2		ug/Kg		101	60 - 135
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/Kg		94	70 - 130
1,1,1-Trichloroethane	20.0	18.8		ug/Kg		94	65 - 135
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/Kg		102	55 - 140
1,1,2-Trichloroethane	20.0	19.7		ug/Kg		99	65 - 135
1,1-Dichloroethane	20.0	18.9		ug/Kg		94	70 - 130
1,1-Dichloroethene	20.0	19.6		ug/Kg		98	70 - 125
1,1-Dichloropropene	20.0	19.7		ug/Kg		99	70 - 130
1,2,3-Trichlorobenzene	20.0	19.2		ug/Kg		96	60 - 130
1,2,4-Trichlorobenzene	20.0	20.2		ug/Kg		101	70 - 135
1,2,4-Trimethylbenzene	20.0	20.0		ug/Kg		100	70 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/Kg		97	50 - 135
1,2-Dichlorobenzene	20.0	19.5		ug/Kg		97	75 - 120
1,2-Dichloroethane	20.0	17.5		ug/Kg		87	60 - 140
1,2-Dichloropropane	20.0	20.1		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	20.0	20.1		ug/Kg		100	70 - 125
1,3-Dichlorobenzene	20.0	19.2		ug/Kg		96	75 - 125
1,3-Dichloropropane	20.0	18.9		ug/Kg		95	70 - 125
1,4-Dichlorobenzene	20.0	19.1		ug/Kg		95	75 - 120
2,2-Dichloropropane	20.0	18.8		ug/Kg		94	60 - 145
2-Chlorotoluene	20.0	19.8		ug/Kg		99	70 - 125
2-Hexanone	20.0	18.2		ug/Kg		91	40 - 150
4-Chlorotoluene	20.0	20.0		ug/Kg		100	75 - 125
4-Isopropyltoluene	20.0	21.0		ug/Kg		105	75 - 125
Benzene	20.0	19.5		ug/Kg		97	65 - 120
Bromobenzene	20.0	20.3		ug/Kg		102	75 - 120
Bromoform	20.0	18.1		ug/Kg		90	55 - 135
Bromomethane	20.0	18.7		ug/Kg		94	60 - 145
Carbon disulfide	20.0	18.6		ug/Kg		93	50 - 130
Carbon tetrachloride	20.0	18.8		ug/Kg		94	65 - 140
Chlorobenzene	20.0	19.3		ug/Kg		97	75 - 120
Chlorobromomethane	20.0	19.9		ug/Kg		100	70 - 135
Chloroethane	20.0	18.4		ug/Kg		92	60 - 140
Chloroform	20.0	19.2		ug/Kg		96	70 - 130
Chloromethane	20.0	16.3		ug/Kg		82	45 - 145
cis-1,2-Dichloroethene	20.0	19.3		ug/Kg		97	70 - 125
cis-1,3-Dichloropropene	20.0	20.0		ug/Kg		100	75 - 125
Chlorodibromomethane	20.0	19.3		ug/Kg		97	65 - 140
Dibromomethane	20.0	19.5		ug/Kg		97	70 - 130
Dichlorobromomethane	20.0	18.8		ug/Kg		94	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526536/6
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.0	16.9		ug/Kg		84	35 - 160
Ethylbenzene	20.0	19.1		ug/Kg		96	70 - 125
Hexachlorobutadiene	20.0	19.4		ug/Kg		97	60 - 135
Isopropylbenzene	20.0	19.6		ug/Kg		98	75 - 130
m-Xylene & p-Xylene	20.0	18.9		ug/Kg		94	70 - 125
Methylene Chloride	20.0	15.1		ug/Kg		76	55 - 135
Methyl tert-butyl ether	20.0	18.7		ug/Kg		93	60 - 140
Naphthalene	20.0	18.6		ug/Kg		93	55 - 135
n-Butylbenzene	20.0	20.3		ug/Kg		101	70 - 130
N-Propylbenzene	20.0	20.9		ug/Kg		104	70 - 130
o-Xylene	20.0	19.1		ug/Kg		95	70 - 125
sec-Butylbenzene	20.0	21.0		ug/Kg		105	70 - 125
Styrene	20.0	17.8		ug/Kg		89	75 - 130
tert-Butylbenzene	20.0	20.2		ug/Kg		101	70 - 125
Tetrachloroethene	20.0	18.4		ug/Kg		92	70 - 125
Toluene	20.0	19.5		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	20.0	19.6		ug/Kg		98	70 - 125
trans-1,3-Dichloropropene	20.0	18.6		ug/Kg		93	70 - 135
Trichloroethene	20.0	19.8		ug/Kg		99	70 - 125
Trichlorofluoromethane	20.0	19.5		ug/Kg		97	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.1		ug/Kg		101	60 - 140
Vinyl acetate	20.0	19.2		ug/Kg		96	45 - 145
Vinyl chloride	20.0	17.8		ug/Kg		89	55 - 135
Ethylene Dibromide	20.0	19.0		ug/Kg		95	70 - 130
2-Butanone (MEK)	20.0	18.8		ug/Kg		94	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	18.3		ug/Kg		92	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*

Lab Sample ID: 440-231317-A-2 MS
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		20.0	20.9		ug/Kg		105	50 - 150
1,1,1,2-Tetrachloroethane	ND		20.0	20.0		ug/Kg		100	65 - 145
1,1,1-Trichloroethane	ND		20.0	21.0		ug/Kg		105	65 - 145
1,1,2,2-Tetrachloroethane	ND		20.0	21.5		ug/Kg		108	40 - 160
1,1,2-Trichloroethane	ND		20.0	20.6		ug/Kg		103	65 - 140
1,1-Dichloroethane	ND		20.0	21.2		ug/Kg		106	65 - 135
1,1-Dichloroethene	ND		20.0	22.3		ug/Kg		112	65 - 135
1,1-Dichloropropene	ND		20.0	21.6		ug/Kg		108	65 - 135
1,2,3-Trichlorobenzene	ND		20.0	16.6		ug/Kg		83	45 - 145
1,2,4-Trichlorobenzene	ND		20.0	17.7		ug/Kg		88	50 - 140
1,2,4-Trimethylbenzene	ND		20.0	19.9		ug/Kg		100	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231317-A-2 MS
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		20.0	18.6		ug/Kg		93	40 - 150
1,2-Dichlorobenzene	ND		20.0	19.3		ug/Kg		97	70 - 130
1,2-Dichloroethane	ND		20.0	19.0		ug/Kg		95	60 - 150
1,2-Dichloropropane	ND		20.0	21.1		ug/Kg		106	65 - 130
1,3,5-Trimethylbenzene	ND		20.0	20.2		ug/Kg		101	65 - 135
1,3-Dichlorobenzene	ND		20.0	19.2		ug/Kg		96	70 - 130
1,3-Dichloropropane	ND		20.0	19.9		ug/Kg		100	65 - 140
1,4-Dichlorobenzene	ND		20.0	19.3		ug/Kg		97	70 - 130
2,2-Dichloropropane	ND		20.0	21.4		ug/Kg		107	65 - 150
2-Chlorotoluene	ND		20.0	20.1		ug/Kg		101	60 - 135
2-Hexanone	ND		20.0	19.4		ug/Kg		97	35 - 160
4-Chlorotoluene	ND		20.0	20.1		ug/Kg		101	65 - 135
4-Isopropyltoluene	1.6		20.0	20.7		ug/Kg		96	60 - 140
Benzene	ND		20.0	21.4		ug/Kg		107	65 - 130
Bromobenzene	ND		20.0	20.3		ug/Kg		102	65 - 140
Bromoform	ND		20.0	19.3		ug/Kg		97	50 - 145
Bromomethane	ND		20.0	21.1		ug/Kg		105	60 - 155
Carbon disulfide	ND		20.0	20.9		ug/Kg		105	40 - 140
Carbon tetrachloride	ND		20.0	20.8		ug/Kg		104	60 - 145
Chlorobenzene	ND		20.0	19.9		ug/Kg		100	70 - 130
Chlorobromomethane	ND		20.0	21.3		ug/Kg		107	65 - 145
Chloroethane	ND		20.0	21.0		ug/Kg		105	60 - 150
Chloroform	ND		20.0	21.0		ug/Kg		105	65 - 135
Chloromethane	ND		20.0	18.8		ug/Kg		94	40 - 145
cis-1,2-Dichloroethene	ND		20.0	21.2		ug/Kg		106	65 - 135
cis-1,3-Dichloropropene	ND		20.0	20.9		ug/Kg		105	70 - 135
Chlorodibromomethane	ND		20.0	19.6		ug/Kg		98	60 - 145
Dibromomethane	ND		20.0	20.7		ug/Kg		104	65 - 140
Dichlorobromomethane	ND		20.0	20.4		ug/Kg		102	65 - 145
Dichlorodifluoromethane	ND		20.0	20.0		ug/Kg		100	30 - 160
Ethylbenzene	ND		20.0	20.1		ug/Kg		101	70 - 135
Hexachlorobutadiene	ND		20.0	11.7		ug/Kg		59	50 - 145
Isopropylbenzene	ND		20.0	20.2		ug/Kg		101	70 - 145
m-Xylene & p-Xylene	ND		20.0	19.9		ug/Kg		100	70 - 130
Methylene Chloride	ND		20.0	18.4		ug/Kg		92	55 - 145
Methyl tert-butyl ether	ND		20.0	20.1		ug/Kg		101	55 - 155
Naphthalene	ND		20.0	18.0		ug/Kg		90	40 - 150
n-Butylbenzene	ND		20.0	18.3		ug/Kg		92	55 - 145
N-Propylbenzene	ND		20.0	20.9		ug/Kg		105	65 - 140
o-Xylene	ND		20.0	19.8		ug/Kg		99	65 - 130
sec-Butylbenzene	ND		20.0	19.9		ug/Kg		100	60 - 135
Styrene	ND		20.0	18.6		ug/Kg		93	70 - 140
tert-Butylbenzene	ND		20.0	19.5		ug/Kg		98	60 - 140
Tetrachloroethene	ND		20.0	19.6		ug/Kg		98	65 - 135
Toluene	3.2		20.0	23.4		ug/Kg		101	70 - 130
trans-1,2-Dichloroethene	ND		20.0	21.9		ug/Kg		110	70 - 135
trans-1,3-Dichloropropene	ND		20.0	19.6		ug/Kg		98	60 - 145
Trichloroethene	ND		20.0	21.2		ug/Kg		106	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231317-A-2 MS
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		20.0	22.3		ug/Kg		112	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	22.2		ug/Kg		111	60 - 140
Vinyl acetate	ND		20.0	18.7		ug/Kg		93	40 - 150
Vinyl chloride	ND		20.0	20.7		ug/Kg		104	55 - 140
Ethylene Dibromide	ND		20.0	19.8		ug/Kg		99	65 - 140
2-Butanone (MEK)	ND		20.0	22.6		ug/Kg		113	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		20.0	20.1		ug/Kg		101	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*

Lab Sample ID: 440-231317-A-2 MSD
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		19.9	18.6		ug/Kg		93	50 - 150	12	30
1,1,1,2-Tetrachloroethane	ND		19.9	18.2		ug/Kg		91	65 - 145	10	20
1,1,1-Trichloroethane	ND		19.9	18.5		ug/Kg		93	65 - 145	13	20
1,1,2,2-Tetrachloroethane	ND		19.9	20.0		ug/Kg		100	40 - 160	7	30
1,1,2-Trichloroethane	ND		19.9	18.3		ug/Kg		92	65 - 140	12	30
1,1-Dichloroethane	ND		19.9	18.9		ug/Kg		95	65 - 135	11	25
1,1-Dichloroethene	ND		19.9	19.9		ug/Kg		100	65 - 135	12	25
1,1-Dichloropropene	ND		19.9	19.0		ug/Kg		96	65 - 135	13	20
1,2,3-Trichlorobenzene	ND		19.9	15.8		ug/Kg		80	45 - 145	5	30
1,2,4-Trichlorobenzene	ND		19.9	16.5		ug/Kg		83	50 - 140	7	30
1,2,4-Trimethylbenzene	ND		19.9	17.8		ug/Kg		90	65 - 140	11	25
1,2-Dibromo-3-Chloropropane	ND		19.9	18.0		ug/Kg		91	40 - 150	3	30
1,2-Dichlorobenzene	ND		19.9	17.4		ug/Kg		88	70 - 130	10	25
1,2-Dichloroethane	ND		19.9	17.1		ug/Kg		86	60 - 150	10	25
1,2-Dichloropropane	ND		19.9	19.0		ug/Kg		96	65 - 130	10	20
1,3,5-Trimethylbenzene	ND		19.9	17.8		ug/Kg		89	65 - 135	13	25
1,3-Dichlorobenzene	ND		19.9	17.0		ug/Kg		86	70 - 130	12	25
1,3-Dichloropropane	ND		19.9	18.6		ug/Kg		93	65 - 140	7	25
1,4-Dichlorobenzene	ND		19.9	17.5		ug/Kg		88	70 - 130	10	25
2,2-Dichloropropane	ND		19.9	18.4		ug/Kg		92	65 - 150	15	25
2-Chlorotoluene	ND		19.9	18.0		ug/Kg		91	60 - 135	11	25
2-Hexanone	ND		19.9	18.2		ug/Kg		92	35 - 160	6	40
4-Chlorotoluene	ND		19.9	18.1		ug/Kg		91	65 - 135	11	25
4-Isopropyltoluene	1.6		19.9	19.3		ug/Kg		89	60 - 140	7	25
Benzene	ND		19.9	19.0		ug/Kg		96	65 - 130	12	20
Bromobenzene	ND		19.9	18.2		ug/Kg		92	65 - 140	11	25
Bromoform	ND		19.9	18.1		ug/Kg		91	50 - 145	6	30
Bromomethane	ND		19.9	18.8		ug/Kg		94	60 - 155	12	25
Carbon disulfide	ND		19.9	18.3		ug/Kg		92	40 - 140	14	20
Carbon tetrachloride	ND		19.9	18.7		ug/Kg		94	60 - 145	10	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231317-A-2 MSD
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	ND		19.9	18.2		ug/Kg		91	70 - 130	9	25
Chlorobromomethane	ND		19.9	19.5		ug/Kg		98	65 - 145	9	25
Chloroethane	ND		19.9	18.1		ug/Kg		91	60 - 150	14	25
Chloroform	ND		19.9	18.4		ug/Kg		92	65 - 135	13	20
Chloromethane	ND		19.9	16.8		ug/Kg		85	40 - 145	11	25
cis-1,2-Dichloroethene	ND		19.9	18.9		ug/Kg		95	65 - 135	11	25
cis-1,3-Dichloropropene	ND		19.9	18.7		ug/Kg		94	70 - 135	11	25
Chlorodibromomethane	ND		19.9	18.4		ug/Kg		93	60 - 145	7	25
Dibromomethane	ND		19.9	18.7		ug/Kg		94	65 - 140	10	25
Dichlorobromomethane	ND		19.9	18.4		ug/Kg		93	65 - 145	10	20
Dichlorodifluoromethane	ND		19.9	17.6		ug/Kg		88	30 - 160	13	35
Ethylbenzene	ND		19.9	18.1		ug/Kg		91	70 - 135	10	25
Hexachlorobutadiene	ND		19.9	12.2		ug/Kg		61	50 - 145	4	35
Isopropylbenzene	ND		19.9	18.1		ug/Kg		91	70 - 145	11	25
m-Xylene & p-Xylene	ND		19.9	17.3		ug/Kg		87	70 - 130	14	25
Methylene Chloride	ND		19.9	16.0		ug/Kg		81	55 - 145	14	25
Methyl tert-butyl ether	ND		19.9	18.9		ug/Kg		95	55 - 155	6	35
Naphthalene	ND		19.9	17.4		ug/Kg		88	40 - 150	4	40
n-Butylbenzene	ND		19.9	16.7		ug/Kg		84	55 - 145	9	30
N-Propylbenzene	ND		19.9	18.6		ug/Kg		93	65 - 140	12	25
o-Xylene	ND		19.9	18.1		ug/Kg		91	65 - 130	9	25
sec-Butylbenzene	ND		19.9	17.7		ug/Kg		89	60 - 135	11	25
Styrene	ND		19.9	17.0		ug/Kg		85	70 - 140	9	25
tert-Butylbenzene	ND		19.9	17.6		ug/Kg		89	60 - 140	10	25
Tetrachloroethene	ND		19.9	18.1		ug/Kg		91	65 - 135	8	25
Toluene	3.2		19.9	21.0		ug/Kg		90	70 - 130	11	20
trans-1,2-Dichloroethene	ND		19.9	19.2		ug/Kg		97	70 - 135	13	25
trans-1,3-Dichloropropene	ND		19.9	17.9		ug/Kg		90	60 - 145	9	25
Trichloroethene	ND		19.9	18.6		ug/Kg		94	65 - 140	13	25
Trichlorofluoromethane	ND		19.9	19.6		ug/Kg		98	55 - 155	13	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		19.9	19.9		ug/Kg		100	60 - 140	11	40
Vinyl acetate	ND		19.9	17.5		ug/Kg		88	40 - 150	6	30
Vinyl chloride	ND		19.9	18.1		ug/Kg		91	55 - 140	14	30
Ethylene Dibromide	ND		19.9	18.4		ug/Kg		92	65 - 140	7	25
2-Butanone (MEK)	ND		19.9	21.5		ug/Kg		108	25 - 170	5	40
4-Methyl-2-pentanone (MIBK)	ND		19.9	19.3		ug/Kg		97	40 - 155	4	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 440-526706/5
Matrix: Solid
Analysis Batch: 526706

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/04/19 19:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526706/5
Matrix: Solid
Analysis Batch: 526706

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/04/19 19:12	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/04/19 19:12	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/04/19 19:12	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
2-Hexanone	ND		10	5.0	ug/Kg			02/04/19 19:12	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Benzene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Bromoform	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/04/19 19:12	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Chloroform	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/04/19 19:12	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526706/5
Matrix: Solid
Analysis Batch: 526706

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Styrene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Toluene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/04/19 19:12	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/04/19 19:12	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/04/19 19:12	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/04/19 19:12	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/04/19 19:12	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/04/19 19:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/04/19 19:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*		*02/04/19 19:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*02/04/19 19:12*	*1*

Lab Sample ID: LCS 440-526706/6
Matrix: Solid
Analysis Batch: 526706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	20.0	21.9		ug/Kg		109	60 - 135
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/Kg		92	70 - 130
1,1,1-Trichloroethane	20.0	19.3		ug/Kg		97	65 - 135
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/Kg		103	55 - 140
1,1,2-Trichloroethane	20.0	20.5		ug/Kg		102	65 - 135
1,1-Dichloroethane	20.0	19.5		ug/Kg		98	70 - 130
1,1-Dichloroethene	20.0	18.3		ug/Kg		92	70 - 125
1,1-Dichloropropene	20.0	19.2		ug/Kg		96	70 - 130
1,2,3-Trichlorobenzene	20.0	19.2		ug/Kg		96	60 - 130
1,2,4-Trichlorobenzene	20.0	19.4		ug/Kg		97	70 - 135
1,2,4-Trimethylbenzene	20.0	19.3		ug/Kg		97	70 - 125
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/Kg		92	50 - 135
1,2-Dichlorobenzene	20.0	20.2		ug/Kg		101	75 - 120
1,2-Dichloroethane	20.0	20.5		ug/Kg		102	60 - 140
1,2-Dichloropropane	20.0	20.5		ug/Kg		103	70 - 130
1,3,5-Trimethylbenzene	20.0	19.1		ug/Kg		95	70 - 125
1,3-Dichlorobenzene	20.0	19.8		ug/Kg		99	75 - 125
1,3-Dichloropropane	20.0	20.8		ug/Kg		104	70 - 125
1,4-Dichlorobenzene	20.0	19.8		ug/Kg		99	75 - 120
2,2-Dichloropropane	20.0	19.3		ug/Kg		96	60 - 145
2-Chlorotoluene	20.0	19.6		ug/Kg		98	70 - 125
2-Hexanone	20.0	19.1		ug/Kg		95	40 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526706/6
Matrix: Solid
Analysis Batch: 526706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	19.8		ug/Kg		99	75 - 125
4-Isopropyltoluene	20.0	19.7		ug/Kg		99	75 - 125
Benzene	20.0	19.8		ug/Kg		99	65 - 120
Bromobenzene	20.0	20.2		ug/Kg		101	75 - 120
Bromoform	20.0	17.4		ug/Kg		87	55 - 135
Bromomethane	20.0	18.8		ug/Kg		94	60 - 145
Carbon disulfide	20.0	17.9		ug/Kg		89	50 - 130
Carbon tetrachloride	20.0	18.0		ug/Kg		90	65 - 140
Chlorobenzene	20.0	19.5		ug/Kg		97	75 - 120
Chlorobromomethane	20.0	20.5		ug/Kg		102	70 - 135
Chloroethane	20.0	18.5		ug/Kg		93	60 - 140
Chloroform	20.0	19.7		ug/Kg		98	70 - 130
Chloromethane	20.0	17.1		ug/Kg		85	45 - 145
cis-1,2-Dichloroethene	20.0	19.9		ug/Kg		100	70 - 125
cis-1,3-Dichloropropene	20.0	19.0		ug/Kg		95	75 - 125
Chlorodibromomethane	20.0	19.4		ug/Kg		97	65 - 140
Dibromomethane	20.0	20.8		ug/Kg		104	70 - 130
Dichlorobromomethane	20.0	18.8		ug/Kg		94	70 - 135
Dichlorodifluoromethane	20.0	16.8		ug/Kg		84	35 - 160
Ethylbenzene	20.0	18.8		ug/Kg		94	70 - 125
Hexachlorobutadiene	20.0	19.0		ug/Kg		95	60 - 135
Isopropylbenzene	20.0	18.9		ug/Kg		94	75 - 130
m-Xylene & p-Xylene	20.0	19.0		ug/Kg		95	70 - 125
Methylene Chloride	20.0	17.1		ug/Kg		85	55 - 135
Methyl tert-butyl ether	20.0	19.1		ug/Kg		96	60 - 140
Naphthalene	20.0	18.9		ug/Kg		94	55 - 135
n-Butylbenzene	20.0	19.5		ug/Kg		98	70 - 130
N-Propylbenzene	20.0	19.1		ug/Kg		95	70 - 130
o-Xylene	20.0	19.6		ug/Kg		98	70 - 125
sec-Butylbenzene	20.0	19.1		ug/Kg		96	70 - 125
Styrene	20.0	18.4		ug/Kg		92	75 - 130
tert-Butylbenzene	20.0	19.4		ug/Kg		97	70 - 125
Tetrachloroethene	20.0	19.5		ug/Kg		98	70 - 125
Toluene	20.0	18.6		ug/Kg		93	70 - 125
trans-1,2-Dichloroethene	20.0	20.1		ug/Kg		100	70 - 125
trans-1,3-Dichloropropene	20.0	18.6		ug/Kg		93	70 - 135
Trichloroethene	20.0	20.2		ug/Kg		101	70 - 125
Trichlorofluoromethane	20.0	20.0		ug/Kg		100	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.5		ug/Kg		93	60 - 140
Vinyl acetate	20.0	19.2		ug/Kg		96	45 - 145
Vinyl chloride	20.0	17.6		ug/Kg		88	55 - 135
Ethylene Dibromide	20.0	21.0		ug/Kg		105	70 - 130
2-Butanone (MEK)	20.0	18.6		ug/Kg		93	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	18.8		ug/Kg		94	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526706/6
Matrix: Solid
Analysis Batch: 526706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 440-526706/7
Matrix: Solid
Analysis Batch: 526706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane			20.0	20.6		ug/Kg		103	60 - 135	6	25
1,1,1,2-Tetrachloroethane			20.0	18.9		ug/Kg		95	70 - 130	3	20
1,1,1-Trichloroethane			20.0	19.0		ug/Kg		95	65 - 135	2	20
1,1,2,2-Tetrachloroethane			20.0	20.0		ug/Kg		100	55 - 140	3	30
1,1,2-Trichloroethane			20.0	20.5		ug/Kg		103	65 - 135	0	20
1,1-Dichloroethane			20.0	19.9		ug/Kg		99	70 - 130	2	20
1,1-Dichloroethene			20.0	18.7		ug/Kg		93	70 - 125	2	20
1,1-Dichloropropene			20.0	19.4		ug/Kg		97	70 - 130	1	20
1,2,3-Trichlorobenzene			20.0	19.6		ug/Kg		98	60 - 130	2	20
1,2,4-Trichlorobenzene			20.0	19.7		ug/Kg		99	70 - 135	1	20
1,2,4-Trimethylbenzene			20.0	19.4		ug/Kg		97	70 - 125	0	20
1,2-Dibromo-3-Chloropropane			20.0	17.5		ug/Kg		88	50 - 135	4	30
1,2-Dichlorobenzene			20.0	19.7		ug/Kg		99	75 - 120	2	20
1,2-Dichloroethane			20.0	19.2		ug/Kg		96	60 - 140	7	20
1,2-Dichloropropane			20.0	20.3		ug/Kg		102	70 - 130	1	20
1,3,5-Trimethylbenzene			20.0	19.3		ug/Kg		96	70 - 125	1	20
1,3-Dichlorobenzene			20.0	20.2		ug/Kg		101	75 - 125	2	20
1,3-Dichloropropane			20.0	19.9		ug/Kg		99	70 - 125	5	20
1,4-Dichlorobenzene			20.0	19.9		ug/Kg		99	75 - 120	0	20
2,2-Dichloropropane			20.0	19.6		ug/Kg		98	60 - 145	1	20
2-Chlorotoluene			20.0	19.5		ug/Kg		97	70 - 125	0	20
2-Hexanone			20.0	18.0		ug/Kg		90	40 - 150	6	35
4-Chlorotoluene			20.0	19.5		ug/Kg		97	75 - 125	1	20
4-Isopropyltoluene			20.0	20.2		ug/Kg		101	75 - 125	2	20
Benzene			20.0	20.1		ug/Kg		100	65 - 120	2	20
Bromobenzene			20.0	20.0		ug/Kg		100	75 - 120	1	20
Bromoform			20.0	17.2		ug/Kg		86	55 - 135	1	25
Bromomethane			20.0	19.5		ug/Kg		98	60 - 145	4	20
Carbon disulfide			20.0	18.1		ug/Kg		90	50 - 130	1	20
Carbon tetrachloride			20.0	18.3		ug/Kg		91	65 - 140	2	20
Chlorobenzene			20.0	19.8		ug/Kg		99	75 - 120	2	20
Chlorobromomethane			20.0	20.3		ug/Kg		102	70 - 135	1	20
Chloroethane			20.0	18.2		ug/Kg		91	60 - 140	2	25
Chloroform			20.0	20.0		ug/Kg		100	70 - 130	2	20
Chloromethane			20.0	17.2		ug/Kg		86	45 - 145	1	25
cis-1,2-Dichloroethene			20.0	20.2		ug/Kg		101	70 - 125	1	20
cis-1,3-Dichloropropene			20.0	19.2		ug/Kg		96	75 - 125	1	20
Chlorodibromomethane			20.0	18.9		ug/Kg		94	65 - 140	3	20
Dibromomethane			20.0	20.5		ug/Kg		102	70 - 130	2	20
Dichlorobromomethane			20.0	19.0		ug/Kg		95	70 - 135	1	20
Dichlorodifluoromethane			20.0	17.3		ug/Kg		87	35 - 160	3	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526706/7
Matrix: Solid
Analysis Batch: 526706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.1		ug/Kg		96	70 - 125	2	20
Hexachlorobutadiene			20.0	19.9		ug/Kg		99	60 - 135	5	20
Isopropylbenzene			20.0	19.1		ug/Kg		96	75 - 130	1	20
m-Xylene & p-Xylene			20.0	19.2		ug/Kg		96	70 - 125	1	20
Methylene Chloride			20.0	17.3		ug/Kg		87	55 - 135	1	20
Methyl tert-butyl ether			20.0	19.1		ug/Kg		96	60 - 140	0	25
Naphthalene			20.0	19.2		ug/Kg		96	55 - 135	2	25
n-Butylbenzene			20.0	19.7		ug/Kg		98	70 - 130	1	20
N-Propylbenzene			20.0	19.0		ug/Kg		95	70 - 130	0	20
o-Xylene			20.0	20.1		ug/Kg		100	70 - 125	2	20
sec-Butylbenzene			20.0	19.1		ug/Kg		96	70 - 125	0	20
Styrene			20.0	18.5		ug/Kg		92	75 - 130	0	20
tert-Butylbenzene			20.0	19.8		ug/Kg		99	70 - 125	2	20
Tetrachloroethene			20.0	19.2		ug/Kg		96	70 - 125	2	20
Toluene			20.0	18.9		ug/Kg		94	70 - 125	1	20
trans-1,2-Dichloroethene			20.0	20.2		ug/Kg		101	70 - 125	0	20
trans-1,3-Dichloropropene			20.0	18.4		ug/Kg		92	70 - 135	1	20
Trichloroethene			20.0	20.1		ug/Kg		100	70 - 125	1	20
Trichlorofluoromethane			20.0	20.4		ug/Kg		102	60 - 145	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	19.3		ug/Kg		97	60 - 140	4	40
Vinyl acetate			20.0	18.6		ug/Kg		93	45 - 145	3	20
Vinyl chloride			20.0	18.3		ug/Kg		91	55 - 135	4	25
Ethylene Dibromide			20.0	19.9		ug/Kg		99	70 - 130	5	20
2-Butanone (MEK)			20.0	17.5		ug/Kg		87	40 - 145	6	35
4-Methyl-2-pentanone (MIBK)			20.0	18.1		ug/Kg		90	40 - 145	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 440-526745/4
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		500	100	ug/Kg			02/05/19 08:20	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			02/05/19 08:20	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
1,1-Dichloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
1,1-Dichloroethene	ND		250	100	ug/Kg			02/05/19 08:20	100
1,1-Dichloropropene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			02/05/19 08:20	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526745/4
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,2-Dichloroethane	ND		100	50	ug/Kg			02/05/19 08:20	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
1,3-Dichloropropane	ND		100	50	ug/Kg			02/05/19 08:20	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
2,2-Dichloropropane	ND		200	100	ug/Kg			02/05/19 08:20	100
2-Chlorotoluene	ND		250	100	ug/Kg			02/05/19 08:20	100
2-Hexanone	ND		1300	500	ug/Kg			02/05/19 08:20	100
4-Chlorotoluene	ND		250	50	ug/Kg			02/05/19 08:20	100
4-Isopropyltoluene	ND		100	50	ug/Kg			02/05/19 08:20	100
Benzene	ND		100	50	ug/Kg			02/05/19 08:20	100
Bromobenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
Bromoform	ND		250	100	ug/Kg			02/05/19 08:20	100
Bromomethane	ND		250	100	ug/Kg			02/05/19 08:20	100
Carbon disulfide	ND		250	130	ug/Kg			02/05/19 08:20	100
Carbon tetrachloride	ND		250	100	ug/Kg			02/05/19 08:20	100
Chlorobenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
Chlorobromomethane	ND		250	100	ug/Kg			02/05/19 08:20	100
Chloroethane	ND		250	100	ug/Kg			02/05/19 08:20	100
Chloroform	ND		100	50	ug/Kg			02/05/19 08:20	100
Chloromethane	ND		250	100	ug/Kg			02/05/19 08:20	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			02/05/19 08:20	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			02/05/19 08:20	100
Chlorodibromomethane	ND		100	50	ug/Kg			02/05/19 08:20	100
Dibromomethane	ND		100	50	ug/Kg			02/05/19 08:20	100
Dichlorobromomethane	ND		100	50	ug/Kg			02/05/19 08:20	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			02/05/19 08:20	100
Ethylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
Hexachlorobutadiene	ND		250	100	ug/Kg			02/05/19 08:20	100
Isopropylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
Methylene Chloride	ND		1000	500	ug/Kg			02/05/19 08:20	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			02/05/19 08:20	100
Naphthalene	ND		250	100	ug/Kg			02/05/19 08:20	100
n-Butylbenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
N-Propylbenzene	ND		100	50	ug/Kg			02/05/19 08:20	100
sec-Butylbenzene	ND		250	50	ug/Kg			02/05/19 08:20	100
Styrene	ND		100	50	ug/Kg			02/05/19 08:20	100
tert-Butylbenzene	ND		250	100	ug/Kg			02/05/19 08:20	100
Tetrachloroethene	ND		100	50	ug/Kg			02/05/19 08:20	100
Toluene	ND		100	50	ug/Kg			02/05/19 08:20	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			02/05/19 08:20	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			02/05/19 08:20	100
Trichloroethene	ND		100	50	ug/Kg			02/05/19 08:20	100
Trichlorofluoromethane	ND		250	100	ug/Kg			02/05/19 08:20	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			02/05/19 08:20	100
Vinyl acetate	ND		500	250	ug/Kg			02/05/19 08:20	100
Vinyl chloride	ND		250	100	ug/Kg			02/05/19 08:20	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526745/4
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		200	100	ug/Kg			02/05/19 08:20	100
Ethylene Dibromide	ND		100	50	ug/Kg			02/05/19 08:20	100
2-Butanone (MEK)	ND		1000	500	ug/Kg			02/05/19 08:20	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			02/05/19 08:20	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*60 - 140*		*02/05/19 08:20*	*100*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*		*02/05/19 08:20*	*100*

Lab Sample ID: LCS 440-526745/5
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	2500	2370		ug/Kg		95	55 - 130
1,1,1,2-Tetrachloroethane	2500	2640		ug/Kg		106	70 - 140
1,1,1-Trichloroethane	2500	3000		ug/Kg		120	65 - 140
1,1,2,2-Tetrachloroethane	2500	2130		ug/Kg		85	55 - 135
1,1,2-Trichloroethane	2500	2640		ug/Kg		106	65 - 130
1,1-Dichloroethane	2500	2120		ug/Kg		85	65 - 130
1,1-Dichloroethene	2500	2840		ug/Kg		114	75 - 140
1,1-Dichloropropene	2500	2910		ug/Kg		116	70 - 130
1,2,3-Trichlorobenzene	2500	2940		ug/Kg		117	60 - 135
1,2,4-Trichlorobenzene	2500	3040		ug/Kg		122	65 - 135
1,2,4-Trimethylbenzene	2500	2290		ug/Kg		92	70 - 125
1,2-Dibromo-3-Chloropropane	2500	2280		ug/Kg		91	45 - 135
1,2-Dichlorobenzene	2500	2480		ug/Kg		99	70 - 120
1,2-Dichloroethane	2500	2450		ug/Kg		98	60 - 145
1,3,5-Trimethylbenzene	2500	2350		ug/Kg		94	70 - 125
1,3-Dichlorobenzene	2500	2430		ug/Kg		97	70 - 125
1,3-Dichloropropane	2500	2640		ug/Kg		106	65 - 130
1,4-Dichlorobenzene	2500	2430		ug/Kg		97	70 - 125
2,2-Dichloropropane	2500	2880		ug/Kg		115	60 - 145
2-Chlorotoluene	2500	2310		ug/Kg		92	70 - 125
2-Hexanone	2500	1600		ug/Kg		64	35 - 140
4-Chlorotoluene	2500	2380		ug/Kg		95	70 - 125
4-Isopropyltoluene	2500	2340		ug/Kg		94	70 - 125
Benzene	2500	2620		ug/Kg		105	65 - 120
Bromobenzene	2500	2550		ug/Kg		102	70 - 120
Bromoform	2500	3020		ug/Kg		121	50 - 130
Bromomethane	2500	2400		ug/Kg		96	30 - 140
Carbon disulfide	2500	2690		ug/Kg		108	50 - 130
Carbon tetrachloride	2500	2950		ug/Kg		118	65 - 145
Chlorobenzene	2500	2560		ug/Kg		102	70 - 125
Chlorobromomethane	2500	2590		ug/Kg		104	65 - 125
Chloroethane	2500	1970		ug/Kg		79	40 - 140
Chloroform	2500	2810		ug/Kg		112	75 - 130
Chloromethane	2500	1920		ug/Kg		77	30 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526745/5
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	2500	2860		ug/Kg		115	65 - 130
cis-1,3-Dichloropropene	2500	2920		ug/Kg		117	70 - 130
Chlorodibromomethane	2500	2680		ug/Kg		107	65 - 140
Dibromomethane	2500	2690		ug/Kg		108	65 - 130
Dichlorobromomethane	2500	2780		ug/Kg		111	65 - 135
Dichlorodifluoromethane	2500	1910		ug/Kg		76	10 - 155
Ethylbenzene	2500	2690		ug/Kg		108	80 - 120
Hexachlorobutadiene	2500	3400	*	ug/Kg		136	60 - 135
Isopropylbenzene	2500	2660		ug/Kg		106	70 - 125
m-Xylene & p-Xylene	2500	2630		ug/Kg		105	70 - 125
Methylene Chloride	2500	2600		ug/Kg		104	60 - 140
Methyl tert-butyl ether	2500	3030		ug/Kg		121	55 - 145
Naphthalene	2500	2280		ug/Kg		91	50 - 140
n-Butylbenzene	2500	2410		ug/Kg		96	70 - 130
N-Propylbenzene	2500	2340		ug/Kg		93	70 - 130
o-Xylene	2500	2650		ug/Kg		106	70 - 125
sec-Butylbenzene	2500	2280		ug/Kg		91	70 - 125
Styrene	2500	2330		ug/Kg		93	70 - 135
tert-Butylbenzene	2500	2250		ug/Kg		90	70 - 125
Tetrachloroethene	2500	3150	*	ug/Kg		126	65 - 125
Toluene	2500	2670		ug/Kg		107	80 - 120
trans-1,2-Dichloroethene	2500	2770		ug/Kg		111	65 - 130
trans-1,3-Dichloropropene	2500	2800		ug/Kg		112	65 - 135
Trichloroethene	2500	2680		ug/Kg		107	70 - 130
Trichlorofluoromethane	2500	2760		ug/Kg		110	50 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2890		ug/Kg		116	60 - 140
Vinyl acetate	2500	2410		ug/Kg		96	25 - 145
Vinyl chloride	2500	1180		ug/Kg		47	10 - 120
Ethylene Dibromide	2500	2520		ug/Kg		101	70 - 130
2-Butanone (MEK)	2500	1940		ug/Kg		78	40 - 145
4-Methyl-2-pentanone (MIBK)	2500	1650		ug/Kg		66	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*

Lab Sample ID: LCSD 440-526745/6
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	2500	2650		ug/Kg		106	55 - 130	11	25
1,1,1,2-Tetrachloroethane	2500	2580		ug/Kg		103	70 - 140	2	20
1,1,1-Trichloroethane	2500	2910		ug/Kg		116	65 - 140	3	20
1,1,2,2-Tetrachloroethane	2500	2470		ug/Kg		99	55 - 135	15	25
1,1,2-Trichloroethane	2500	2770		ug/Kg		111	65 - 130	5	20
1,1-Dichloroethane	2500	2060		ug/Kg		82	65 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526745/6
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	2500	2790		ug/Kg		112	75 - 140	2	20
1,1-Dichloropropene	2500	2750		ug/Kg		110	70 - 130	6	20
1,2,3-Trichlorobenzene	2500	3060		ug/Kg		122	60 - 135	4	20
1,2,4-Trichlorobenzene	2500	3090		ug/Kg		124	65 - 135	2	20
1,2,4-Trimethylbenzene	2500	2150		ug/Kg		86	70 - 125	6	20
1,2-Dibromo-3-Chloropropane	2500	2930		ug/Kg		117	45 - 135	25	25
1,2-Dichlorobenzene	2500	2390		ug/Kg		96	70 - 120	4	20
1,2-Dichloroethane	2500	2670		ug/Kg		107	60 - 145	9	20
1,3,5-Trimethylbenzene	2500	2190		ug/Kg		88	70 - 125	7	20
1,3-Dichlorobenzene	2500	2340		ug/Kg		93	70 - 125	4	20
1,3-Dichloropropane	2500	2770		ug/Kg		111	65 - 130	5	20
1,4-Dichlorobenzene	2500	2330		ug/Kg		93	70 - 125	4	20
2,2-Dichloropropane	2500	2610		ug/Kg		105	60 - 145	10	25
2-Chlorotoluene	2500	2230		ug/Kg		89	70 - 125	4	20
2-Hexanone	2500	2140		ug/Kg		86	35 - 140	29	30
4-Chlorotoluene	2500	2300		ug/Kg		92	70 - 125	3	20
4-Isopropyltoluene	2500	2180		ug/Kg		87	70 - 125	7	20
Benzene	2500	2560		ug/Kg		102	65 - 120	2	20
Bromobenzene	2500	2510		ug/Kg		100	70 - 120	2	20
Bromoform	2500	3330	*	ug/Kg		133	50 - 130	10	25
Bromomethane	2500	2290		ug/Kg		92	30 - 140	5	30
Carbon disulfide	2500	2560		ug/Kg		102	50 - 130	5	20
Carbon tetrachloride	2500	2790		ug/Kg		111	65 - 145	6	20
Chlorobenzene	2500	2500		ug/Kg		100	70 - 125	2	20
Chlorobromomethane	2500	2800		ug/Kg		112	65 - 125	8	20
Chloroethane	2500	1900		ug/Kg		76	40 - 140	4	25
Chloroform	2500	2790		ug/Kg		111	75 - 130	1	20
Chloromethane	2500	1830		ug/Kg		73	30 - 140	4	25
cis-1,2-Dichloroethene	2500	2770		ug/Kg		111	65 - 130	3	20
cis-1,3-Dichloropropene	2500	2910		ug/Kg		116	70 - 130	0	20
Chlorodibromomethane	2500	2710		ug/Kg		109	65 - 140	1	20
Dibromomethane	2500	2910		ug/Kg		116	65 - 130	8	20
Dichlorobromomethane	2500	2810		ug/Kg		112	65 - 135	1	20
Dichlorodifluoromethane	2500	1750		ug/Kg		70	10 - 155	9	30
Ethylbenzene	2500	2560		ug/Kg		102	80 - 120	5	20
Hexachlorobutadiene	2500	3180		ug/Kg		127	60 - 135	7	20
Isopropylbenzene	2500	2530		ug/Kg		101	70 - 125	5	20
m-Xylene & p-Xylene	2500	2490		ug/Kg		100	70 - 125	5	20
Methylene Chloride	2500	2690		ug/Kg		108	60 - 140	3	20
Methyl tert-butyl ether	2500	3380		ug/Kg		135	55 - 145	11	25
Naphthalene	2500	2790		ug/Kg		112	50 - 140	20	25
n-Butylbenzene	2500	2280		ug/Kg		91	70 - 130	6	20
N-Propylbenzene	2500	2220		ug/Kg		89	70 - 130	5	20
o-Xylene	2500	2560		ug/Kg		102	70 - 125	4	20
sec-Butylbenzene	2500	2180		ug/Kg		87	70 - 125	5	20
Styrene	2500	2280		ug/Kg		91	70 - 135	2	20
tert-Butylbenzene	2500	2120		ug/Kg		85	70 - 125	6	20
Tetrachloroethene	2500	2910		ug/Kg		116	65 - 125	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526745/6
Matrix: Solid
Analysis Batch: 526745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			2500	2560		ug/Kg		102	80 - 120	4	20
trans-1,2-Dichloroethene			2500	2620		ug/Kg		105	65 - 130	6	20
trans-1,3-Dichloropropene			2500	2880		ug/Kg		115	65 - 135	3	20
Trichloroethene			2500	2580		ug/Kg		103	70 - 130	4	20
Trichlorofluoromethane			2500	2660		ug/Kg		106	50 - 145	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane			2500	2770		ug/Kg		111	60 - 140	4	40
Vinyl acetate			2500	2750		ug/Kg		110	25 - 145	13	25
Vinyl chloride			2500	972		ug/Kg		39	10 - 120	19	30
Ethylene Dibromide			2500	2780		ug/Kg		111	70 - 130	10	20
2-Butanone (MEK)			2500	2490		ug/Kg		100	40 - 145	25	30
4-Methyl-2-pentanone (MIBK)			2500	2110		ug/Kg		84	40 - 145	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*

Lab Sample ID: MB 440-527268/5
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		100	50	ug/Kg			02/07/19 08:54	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*60 - 140*		*02/07/19 08:54*	*100*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*02/07/19 08:54*	*100*

Lab Sample ID: LCS 440-527268/6
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane			1000	1040		ug/Kg		104	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*

Lab Sample ID: LCSD 440-527268/7
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane			1000	1040		ug/Kg		104	75 - 125	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527268/7
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	99		60 - 140
1,2-Dichloroethane-d4 (Surr)	104		60 - 140

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: 720-91011-D-21-B MS
Matrix: Solid
Analysis Batch: 526746

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	130000		132000	244000		ug/Kg		85	55 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	105		55 - 140
4-Bromofluorobenzene (Surr)	92		65 - 140
Toluene-d8 (Surr)	104		60 - 140

Lab Sample ID: 720-91011-D-21-C MSD
Matrix: Solid
Analysis Batch: 526746

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 525455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	130000		132000	268000		ug/Kg		103	55 - 140	10	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	106		55 - 140
4-Bromofluorobenzene (Surr)	92		65 - 140
Toluene-d8 (Surr)	105		60 - 140

Lab Sample ID: MB 440-526003/4
Matrix: Solid
Analysis Batch: 526003

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/31/19 08:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		60 - 120		01/31/19 08:27	1
4-Bromofluorobenzene (Surr)	101		79 - 120		01/31/19 08:27	1
Toluene-d8 (Surr)	99		79 - 123		01/31/19 08:27	1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-526003/6
Matrix: Solid
Analysis Batch: 526003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	890		ug/Kg		89	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 526003

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1130	962		ug/Kg		85	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 526003

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1090	837		ug/Kg		77	55 - 140	14	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 526210

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	240	F2 F1 *	2890	2810		ug/Kg		89	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 526210

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	240	F2 F1 *	3550	2120	F4 F1	ug/Kg		53	55 - 140	28	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-526210/4
Matrix: Solid
Analysis Batch: 526210

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			01/31/19 20:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*01/31/19 20:49*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*01/31/19 20:49*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*01/31/19 20:49*	*1*

Lab Sample ID: LCS 440-526210/6
Matrix: Solid
Analysis Batch: 526210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	810		ug/Kg		81	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-526259/4
Matrix: Solid
Analysis Batch: 526259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/01/19 08:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*02/01/19 08:30*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*02/01/19 08:30*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*		*02/01/19 08:30*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-526259/6
Matrix: Solid
Analysis Batch: 526259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	863		ug/Kg		86	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: LCSD 440-526259/8
Matrix: Solid
Analysis Batch: 526259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1000	814		ug/Kg		81	60 - 135	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: MB 440-526537/5
Matrix: Solid
Analysis Batch: 526537

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/04/19 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*02/04/19 09:07*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*02/04/19 09:07*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/04/19 09:07*	*1*

Lab Sample ID: LCS 440-526537/7
Matrix: Solid
Analysis Batch: 526537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	804		ug/Kg		80	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-231317-A-2 MS
Matrix: Solid
Analysis Batch: 526537

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1.95		1380	1470		ug/Kg		106	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: 440-231317-A-2 MSD
Matrix: Solid
Analysis Batch: 526537

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1.95		1370	1240		ug/Kg		91	55 - 140	16	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-526712/5
Matrix: Solid
Analysis Batch: 526712

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/04/19 19:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*		*02/04/19 19:12*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*		*02/04/19 19:12*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*		*02/04/19 19:12*	*1*

Lab Sample ID: LCS 440-526712/8
Matrix: Solid
Analysis Batch: 526712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	934		ug/Kg		93	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 440-526712/9
Matrix: Solid
Analysis Batch: 526712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	942		ug/Kg		94	60 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-259565/1-A
Matrix: Solid
Analysis Batch: 259713

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Anthracene	ND		5.0	2.0	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Chrysene	ND		5.0	1.4	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Fluoranthene	ND		5.0	1.4	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Fluorene	ND		5.0	2.2	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/31/19 12:10	02/02/19 13:25	1
Pyrene	ND		5.0	1.7	ug/Kg		01/31/19 12:10	02/02/19 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*33 - 120*	*01/31/19 12:10*	*02/02/19 13:25*	*1*
Terphenyl-d14	*119*		*35 - 146*	*01/31/19 12:10*	*02/02/19 13:25*	*1*

Lab Sample ID: LCS 720-259565/2-A
Matrix: Solid
Analysis Batch: 259713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259565

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene			667	603		ug/Kg		90	38 - 110
Acenaphthene			667	566		ug/Kg		85	37 - 106
Acenaphthylene			667	626		ug/Kg		94	38 - 102
Anthracene			667	613		ug/Kg		92	43 - 103
Benzo[a]anthracene			667	699		ug/Kg		105	49 - 117

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 720-259565/2-A
Matrix: Solid
Analysis Batch: 259713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	667	691		ug/Kg		104	49 - 118
Benzo[b]fluoranthene	667	675		ug/Kg		101	50 - 115
Benzo[g,h,i]perylene	667	694		ug/Kg		104	39 - 122
Benzo[k]fluoranthene	667	645		ug/Kg		97	45 - 115
Chrysene	667	750		ug/Kg		113	39 - 123
Dibenz(a,h)anthracene	667	681		ug/Kg		102	43 - 121
Fluoranthene	667	644		ug/Kg		97	47 - 109
Fluorene	667	612		ug/Kg		92	40 - 106
Indeno[1,2,3-cd]pyrene	667	685		ug/Kg		103	43 - 120
Naphthalene	667	557		ug/Kg		84	35 - 110
Phenanthrene	667	549		ug/Kg		82	42 - 110
Pyrene	667	685		ug/Kg		103	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*33 - 120*
Terphenyl-d14	*116*		*35 - 146*

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		656	609	J	ug/Kg		93	46 - 110
Acenaphthene	ND		656	471	J	ug/Kg		72	46 - 106
Acenaphthylene	ND		656	613		ug/Kg		93	46 - 108
Anthracene	ND	F1	656	793	F1	ug/Kg		121	55 - 103
Benzo[a]anthracene	ND	F1	656	952	F1	ug/Kg		145	54 - 110
Benzo[a]pyrene	260	J F1	656	1100	F1	ug/Kg		128	62 - 111
Benzo[b]fluoranthene	260	J F1	656	1100	F1	ug/Kg		129	60 - 109
Benzo[g,h,i]perylene	ND	F1	656	783	F1	ug/Kg		119	52 - 114
Benzo[k]fluoranthene	210	J	656	832		ug/Kg		95	58 - 109
Chrysene	ND	F1	656	862	F1	ug/Kg		131	54 - 108
Dibenz(a,h)anthracene	ND	F1	656	827	F1	ug/Kg		126	58 - 112
Fluoranthene	ND		656	668		ug/Kg		102	59 - 109
Fluorene	ND		656	504		ug/Kg		77	52 - 106
Indeno[1,2,3-cd]pyrene	ND		656	789		ug/Kg		120	55 - 120
Naphthalene	ND		656	535		ug/Kg		82	49 - 110
Phenanthrene	ND		656	528		ug/Kg		80	57 - 110
Pyrene	580		656	1330		ug/Kg		114	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*33 - 120*
Terphenyl-d14	*149*	*X*	*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 259797

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		657	506	J	ug/Kg		77	46 - 110	18	35
Acenaphthene	ND		657	387	J	ug/Kg		59	46 - 106	20	35
Acenaphthylene	ND		657	515		ug/Kg		78	46 - 108	17	35
Anthracene	ND	F1	657	667		ug/Kg		102	55 - 103	17	35
Benzo[a]anthracene	ND	F1	657	828	F1	ug/Kg		126	54 - 110	14	35
Benzo[a]pyrene	260	J F1	657	915		ug/Kg		100	62 - 111	18	35
Benzo[b]fluoranthene	260	J F1	657	949		ug/Kg		105	60 - 109	15	35
Benzo[g,h,i]perylene	ND	F1	657	609		ug/Kg		93	52 - 114	25	35
Benzo[k]fluoranthene	210	J	657	720		ug/Kg		77	58 - 109	14	35
Chrysene	ND	F1	657	684		ug/Kg		104	54 - 108	23	35
Dibenz(a,h)anthracene	ND	F1	657	671		ug/Kg		102	58 - 112	21	35
Fluoranthene	ND		657	572		ug/Kg		87	59 - 109	16	35
Fluorene	ND		657	411	J	ug/Kg		63	52 - 106	20	35
Indeno[1,2,3-cd]pyrene	ND		657	655		ug/Kg		100	55 - 120	19	35
Naphthalene	ND		657	436	J	ug/Kg		66	49 - 110	20	35
Phenanthrene	ND		657	449	J	ug/Kg		68	57 - 110	16	35
Pyrene	580		657	1010		ug/Kg		65	50 - 120	27	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*33 - 120*
Terphenyl-d14	*123*		*35 - 146*

Lab Sample ID: MB 720-259581/1-A
Matrix: Solid
Analysis Batch: 259976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Acenaphthene	ND		5.0	2.8	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Anthracene	ND		5.0	2.0	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Benzo[a]pyrene	3.55	J	5.0	1.9	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Benzo[b]fluoranthene	3.50	J	5.0	2.1	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Benzo[k]fluoranthene	3.43	J	5.0	2.1	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Chrysene	ND		5.0	1.4	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Dibenz(a,h)anthracene	4.39	J	5.0	3.5	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Fluoranthene	1.80	J	5.0	1.4	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Fluorene	ND		5.0	2.2	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Indeno[1,2,3-cd]pyrene	4.41	J	5.0	4.2	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Naphthalene	ND		5.0	3.5	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Phenanthrene	ND		5.0	1.8	ug/Kg		01/31/19 15:15	02/07/19 15:57	1
Pyrene	2.37	J	5.0	1.7	ug/Kg		01/31/19 15:15	02/07/19 15:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*01/31/19 15:15*	*02/07/19 15:57*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-259581/1-A
Matrix: Solid
Analysis Batch: 259976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259581

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	115		35 - 146	01/31/19 15:15	02/07/19 15:57	1

Lab Sample ID: LCS 720-259581/2-A
Matrix: Solid
Analysis Batch: 259976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	538		ug/Kg		81	38 - 110
Acenaphthene	667	496		ug/Kg		74	37 - 106
Acenaphthylene	667	537		ug/Kg		81	38 - 102
Anthracene	667	537		ug/Kg		81	43 - 103
Benzo[a]anthracene	667	671		ug/Kg		101	49 - 117
Benzo[a]pyrene	667	632		ug/Kg		95	49 - 118
Benzo[b]fluoranthene	667	643		ug/Kg		96	50 - 115
Benzo[g,h,i]perylene	667	584		ug/Kg		88	39 - 122
Benzo[k]fluoranthene	667	621		ug/Kg		93	45 - 115
Chrysene	667	708		ug/Kg		106	39 - 123
Dibenz(a,h)anthracene	667	529		ug/Kg		79	43 - 121
Fluoranthene	667	595		ug/Kg		89	47 - 109
Fluorene	667	538		ug/Kg		81	40 - 106
Indeno[1,2,3-cd]pyrene	667	554		ug/Kg		83	43 - 120
Naphthalene	667	517		ug/Kg		78	35 - 110
Phenanthrene	667	471		ug/Kg		71	42 - 110
Pyrene	667	704		ug/Kg		106	45 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	79		33 - 120
Terphenyl-d14	117		35 - 146

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 260053

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		654	429		ug/Kg		66	46 - 110
Acenaphthene	ND	F1	654	328		ug/Kg		50	46 - 106
Acenaphthylene	ND		654	346		ug/Kg		53	46 - 108
Anthracene	34	J F1	654	337	F1	ug/Kg		46	55 - 103
Benzo[a]anthracene	18	J	654	502		ug/Kg		74	54 - 110
Benzo[a]pyrene	41	J F1 B	654	493	B	ug/Kg		69	62 - 111
Benzo[b]fluoranthene	78	B	654	526	B	ug/Kg		68	60 - 109
Benzo[g,h,i]perylene	ND	F1	654	362		ug/Kg		55	52 - 114
Benzo[k]fluoranthene	36	J F1 B	654	418	B	ug/Kg		58	58 - 109
Chrysene	28	J F1	654	399		ug/Kg		57	54 - 108
Dibenz(a,h)anthracene	ND	F1	654	351	F1 B	ug/Kg		54	58 - 112
Fluoranthene	46	J F1 B	654	442	B	ug/Kg		60	59 - 109
Fluorene	ND	F1	654	343		ug/Kg		52	52 - 106
Indeno[1,2,3-cd]pyrene	ND	F1	654	363	B	ug/Kg		55	55 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 260053

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		654	386		ug/Kg		59	49 - 110
Phenanthrene	24	J F1	654	308	F1	ug/Kg		43	57 - 110
Pyrene	54	B	654	474	B	ug/Kg		64	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*57*		*33 - 120*
Terphenyl-d14	*79*		*35 - 146*

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 260053

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		663	368		ug/Kg		56	46 - 110	15	35
Acenaphthene	ND	F1	663	284	F1	ug/Kg		43	46 - 106	14	35
Acenaphthylene	ND		663	325		ug/Kg		49	46 - 108	6	35
Anthracene	34	J F1	663	315	F1	ug/Kg		42	55 - 103	7	35
Benzo[a]anthracene	18	J	663	455		ug/Kg		66	54 - 110	10	35
Benzo[a]pyrene	41	J F1 B	663	441	F1 B	ug/Kg		60	62 - 111	11	35
Benzo[b]fluoranthene	78	B	663	501	B	ug/Kg		64	60 - 109	5	35
Benzo[g,h,i]perylene	ND	F1	663	299	F1	ug/Kg		45	52 - 114	19	35
Benzo[k]fluoranthene	36	J F1 B	663	364	F1 B	ug/Kg		49	58 - 109	14	35
Chrysene	28	J F1	663	359	F1	ug/Kg		50	54 - 108	11	35
Dibenz(a,h)anthracene	ND	F1	663	293	F1 B	ug/Kg		44	58 - 112	18	35
Fluoranthene	46	J F1 B	663	389	F1 B	ug/Kg		52	59 - 109	13	35
Fluorene	ND	F1	663	306	F1	ug/Kg		46	52 - 106	12	35
Indeno[1,2,3-cd]pyrene	ND	F1	663	306	F1 B	ug/Kg		46	55 - 120	17	35
Naphthalene	ND		663	349		ug/Kg		53	49 - 110	10	35
Phenanthrene	24	J F1	663	279	F1	ug/Kg		39	57 - 110	10	35
Pyrene	54	B	663	448	B	ug/Kg		59	50 - 120	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*50*		*33 - 120*
Terphenyl-d14	*68*		*35 - 146*

Lab Sample ID: MB 720-259639/1-A
Matrix: Solid
Analysis Batch: 259858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Acenaphthene	ND		5.0	2.8	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Anthracene	ND		5.0	2.0	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Benzo[a]pyrene	2.21	J	5.0	1.9	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		02/01/19 10:22	02/06/19 01:10	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-259639/1-A
Matrix: Solid
Analysis Batch: 259858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	2.26	J	5.0	2.1	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Chrysene	ND		5.0	1.4	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Fluoranthene	ND		5.0	1.4	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Fluorene	ND		5.0	2.2	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Naphthalene	ND		5.0	3.5	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Phenanthrene	ND		5.0	1.8	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Pyrene	ND		5.0	1.7	ug/Kg		02/01/19 10:22	02/06/19 01:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*02/01/19 10:22*	*02/06/19 01:10*	*1*
Terphenyl-d14	*120*		*35 - 146*	*02/01/19 10:22*	*02/06/19 01:10*	*1*

Lab Sample ID: LCS 720-259639/2-A
Matrix: Solid
Analysis Batch: 259858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	572		ug/Kg		86	38 - 110
Acenaphthene	667	527		ug/Kg		79	37 - 106
Acenaphthylene	667	584		ug/Kg		88	38 - 102
Anthracene	667	575		ug/Kg		86	43 - 103
Benzo[a]anthracene	667	734		ug/Kg		110	49 - 117
Benzo[a]pyrene	667	709		ug/Kg		106	49 - 118
Benzo[b]fluoranthene	667	686		ug/Kg		103	50 - 115
Benzo[g,h,i]perylene	667	679		ug/Kg		102	39 - 122
Benzo[k]fluoranthene	667	700		ug/Kg		105	45 - 115
Chrysene	667	797		ug/Kg		120	39 - 123
Dibenz(a,h)anthracene	667	654		ug/Kg		98	43 - 121
Fluoranthene	667	650		ug/Kg		97	47 - 109
Fluorene	667	575		ug/Kg		86	40 - 106
Indeno[1,2,3-cd]pyrene	667	663		ug/Kg		100	43 - 120
Naphthalene	667	542		ug/Kg		81	35 - 110
Phenanthrene	667	509		ug/Kg		76	42 - 110
Pyrene	667	720		ug/Kg		108	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*33 - 120*
Terphenyl-d14	*119*		*35 - 146*

Lab Sample ID: 720-91016-A-16-G MS
Matrix: Solid
Analysis Batch: 259941

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		654	538		ug/Kg		82	46 - 110
Acenaphthene	ND		654	541		ug/Kg		83	46 - 106

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91016-A-16-G MS
Matrix: Solid
Analysis Batch: 259941

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		654	527		ug/Kg		81	46 - 108
Anthracene	13	J	654	533		ug/Kg		80	55 - 103
Benzo[a]anthracene	ND	F1	654	740	F1	ug/Kg		113	54 - 110
Benzo[a]pyrene	16	J B F1	654	741		ug/Kg		111	62 - 111
Benzo[b]fluoranthene	27	F1	654	865	F1	ug/Kg		128	60 - 109
Benzo[g,h,i]perylene	ND	F1	654	335	F1	ug/Kg		51	52 - 114
Benzo[k]fluoranthene	14	J B F1	654	730	F1	ug/Kg		110	58 - 109
Chrysene	9.3	J	654	632		ug/Kg		95	54 - 108
Dibenz(a,h)anthracene	ND		654	392		ug/Kg		60	58 - 112
Fluoranthene	25		654	664		ug/Kg		98	59 - 109
Fluorene	ND		654	584		ug/Kg		89	52 - 106
Indeno[1,2,3-cd]pyrene	ND		654	385		ug/Kg		59	55 - 120
Naphthalene	ND		654	513		ug/Kg		78	49 - 110
Phenanthrene	24	J	654	511		ug/Kg		74	57 - 110
Pyrene	24	J	654	721		ug/Kg		107	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*33 - 120*
Terphenyl-d14	*125*		*35 - 146*

Lab Sample ID: 720-91016-A-16-H MSD
Matrix: Solid
Analysis Batch: 259941

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		655	570		ug/Kg		87	46 - 110	6	35
Acenaphthene	ND		655	564		ug/Kg		86	46 - 106	4	35
Acenaphthylene	ND		655	569		ug/Kg		87	46 - 108	8	35
Anthracene	13	J	655	557		ug/Kg		83	55 - 103	4	35
Benzo[a]anthracene	ND	F1	655	774	F1	ug/Kg		118	54 - 110	4	35
Benzo[a]pyrene	16	J B F1	655	783	F1	ug/Kg		117	62 - 111	6	35
Benzo[b]fluoranthene	27	F1	655	963	F1	ug/Kg		143	60 - 109	11	35
Benzo[g,h,i]perylene	ND	F1	655	341		ug/Kg		52	52 - 114	2	35
Benzo[k]fluoranthene	14	J B F1	655	746	F1	ug/Kg		112	58 - 109	2	35
Chrysene	9.3	J	655	667		ug/Kg		100	54 - 108	5	35
Dibenz(a,h)anthracene	ND		655	402		ug/Kg		61	58 - 112	3	35
Fluoranthene	25		655	693		ug/Kg		102	59 - 109	4	35
Fluorene	ND		655	611		ug/Kg		93	52 - 106	4	35
Indeno[1,2,3-cd]pyrene	ND		655	395		ug/Kg		60	55 - 120	3	35
Naphthalene	ND		655	544		ug/Kg		83	49 - 110	6	35
Phenanthrene	24	J	655	530		ug/Kg		77	57 - 110	4	35
Pyrene	24	J	655	754		ug/Kg		111	50 - 120	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*33 - 120*
Terphenyl-d14	*130*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-259558/1-A
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/31/19 10:52	02/05/19 21:04	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/31/19 10:52	02/05/19 21:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*01/31/19 10:52*	*02/05/19 21:04*	*1*

Lab Sample ID: LCS 720-259558/2-A
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	162		mg/Kg		97	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*116*		*40 - 130*

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 259794

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259558

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	59		165	223		mg/Kg		99	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*102*		*40 - 130*

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 259794

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259558

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	59		164	190		mg/Kg		79	50 - 150	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*115*		*40 - 130*

Lab Sample ID: MB 720-259569/1-A
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/31/19 13:40	02/05/19 23:59	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/31/19 13:40	02/05/19 23:59	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-259569/1-A
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259569

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	118		40 - 130	01/31/19 13:40	02/05/19 23:59	1

Lab Sample ID: LCS 720-259569/2-A
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259569

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	163		mg/Kg		98	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	115		40 - 130

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 259873

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	2200		164	4710	4	mg/Kg		1499	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	0	X D	40 - 130

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 259873

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2200		164	3480	4	mg/Kg		749	50 - 150	30	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	0	X D	40 - 130

Lab Sample ID: MB 720-259589/1-A
Matrix: Solid
Analysis Batch: 259528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259589

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		01/31/19 15:50	02/01/19 05:53	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		01/31/19 15:50	02/01/19 05:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	113		40 - 130	01/31/19 15:50	02/01/19 05:53	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-259589/2-A
Matrix: Solid
Analysis Batch: 259528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259589

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	176		mg/Kg		105	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*136*	*X*	*40 - 130*

Lab Sample ID: 720-91048-29 MS
Matrix: Solid
Analysis Batch: 259528

Client Sample ID: DG-AF13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	22		164	243		mg/Kg		135	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*113*		*40 - 130*

Lab Sample ID: 720-91048-29 MSD
Matrix: Solid
Analysis Batch: 259528

Client Sample ID: DG-AF13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	22		164	184		mg/Kg		99	50 - 150	27	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*118*		*40 - 130*

Lab Sample ID: MB 720-259630/1-A
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		02/01/19 09:17	02/06/19 00:28	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		02/01/19 09:17	02/06/19 00:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*121*		*40 - 130*	*02/01/19 09:17*	*02/06/19 00:28*	*1*

Lab Sample ID: LCS 720-259630/2-A
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259630

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	167		mg/Kg		100	50 - 150		

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-259630/2-A
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259630

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*117*		*40 - 130*

Lab Sample ID: 720-91048-5 MS
Matrix: Solid
Analysis Batch: 259873

Client Sample ID: DG-Y19S-3.5-4
Prep Type: Total/NA
Prep Batch: 259630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82		165	246		mg/Kg		100	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*0*	*X D*	*40 - 130*

Lab Sample ID: 720-91048-5 MSD
Matrix: Solid
Analysis Batch: 259873

Client Sample ID: DG-Y19S-3.5-4
Prep Type: Total/NA
Prep Batch: 259630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82		165	265		mg/Kg		111	50 - 150	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*0*	*X D*	*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-259496/1-A
Matrix: Solid
Analysis Batch: 259704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Aldrin	ND		2.0	0.50	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Endrin	ND		2.0	0.46	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/30/19 14:33	02/02/19 18:32	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-259496/1-A
Matrix: Solid
Analysis Batch: 259704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/30/19 14:33	02/02/19 18:32	1
Toxaphene	ND		40	6.8	ug/Kg		01/30/19 14:33	02/02/19 18:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*21 - 136*	*01/30/19 14:33*	*02/02/19 18:32*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*01/30/19 14:33*	*02/02/19 18:32*	*1*

Lab Sample ID: LCS 720-259496/2-A
Matrix: Solid
Analysis Batch: 259704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	16.6		ug/Kg		100	75 - 128
4,4'-DDE	16.7	15.5		ug/Kg		93	76 - 126
4,4'-DDT	16.7	15.8		ug/Kg		95	63 - 127
Aldrin	16.7	13.7		ug/Kg		82	65 - 120
alpha-BHC	16.7	13.8		ug/Kg		83	46 - 122
alpha-Chlordane	16.7	15.4		ug/Kg		93	70 - 120
beta-BHC	16.7	16.4		ug/Kg		98	78 - 136
delta-BHC	16.7	16.6		ug/Kg		99	43 - 125
Dieldrin	16.7	15.6		ug/Kg		94	72 - 120
Endosulfan I	16.7	15.7		ug/Kg		94	62 - 120
Endosulfan II	16.7	17.1		ug/Kg		102	65 - 120
Endosulfan sulfate	16.7	17.1		ug/Kg		103	72 - 121
Endrin	16.7	16.5		ug/Kg		99	68 - 120
Endrin aldehyde	16.7	18.2		ug/Kg		109	68 - 120
Endrin ketone	16.7	17.4		ug/Kg		105	75 - 136
gamma-BHC (Lindane)	16.7	14.5		ug/Kg		87	72 - 120
gamma-Chlordane	16.7	15.3		ug/Kg		92	68 - 120
Heptachlor	16.7	14.5		ug/Kg		87	69 - 120
Heptachlor epoxide	16.7	15.3		ug/Kg		92	68 - 120
Methoxychlor	16.7	17.7		ug/Kg		106	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*21 - 136*
Tetrachloro-m-xylene	*84*		*21 - 145*

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 259779

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.2	14.4		ug/Kg		89	40 - 120
4,4'-DDE	ND		16.2	14.6		ug/Kg		90	40 - 120
4,4'-DDT	ND		16.2	13.5		ug/Kg		83	17 - 144

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 259779

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		16.2	14.1		ug/Kg		87	53 - 120
alpha-BHC	ND		16.2	14.1		ug/Kg		87	40 - 120
alpha-Chlordane	ND		16.2	14.5		ug/Kg		89	40 - 120
beta-BHC	ND		16.2	12.2		ug/Kg		76	40 - 120
delta-BHC	ND		16.2	13.6		ug/Kg		84	40 - 120
Dieldrin	1.2	J	16.2	14.5		ug/Kg		82	46 - 130
Endosulfan I	ND		16.2	14.5		ug/Kg		89	40 - 120
Endosulfan II	ND		16.2	14.4		ug/Kg		89	40 - 120
Endosulfan sulfate	ND		16.2	14.0		ug/Kg		87	40 - 120
Endrin	ND		16.2	15.1		ug/Kg		93	32 - 143
Endrin aldehyde	ND		16.2	12.1		ug/Kg		75	40 - 120
Endrin ketone	ND		16.2	13.4		ug/Kg		82	40 - 120
gamma-BHC (Lindane)	ND		16.2	16.3		ug/Kg		101	58 - 120
gamma-Chlordane	ND	F1	16.2	14.4		ug/Kg		89	40 - 120
Heptachlor	ND		16.2	15.2		ug/Kg		94	52 - 120
Heptachlor epoxide	ND		16.2	14.7		ug/Kg		90	40 - 120
Methoxychlor	ND		16.2	15.0		ug/Kg		92	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*82*		*21 - 136*
Tetrachloro-m-xylene	*96*		*21 - 145*

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 259779

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		15.7	15.1		ug/Kg		96	40 - 120	5	20
4,4'-DDE	ND		15.7	14.5		ug/Kg		92	40 - 120	1	20
4,4'-DDT	0.86	J	15.7	13.7		ug/Kg		82	17 - 144	1	20
Aldrin	ND		15.7	14.0		ug/Kg		89	53 - 120	1	20
alpha-BHC	ND		15.7	14.2		ug/Kg		90	40 - 120	1	20
alpha-Chlordane	ND		15.7	14.6		ug/Kg		93	40 - 120	1	20
beta-BHC	ND		15.7	14.1		ug/Kg		90	40 - 120	14	20
delta-BHC	ND		15.7	15.3		ug/Kg		97	40 - 120	12	20
Dieldrin	1.2	J	15.7	14.8		ug/Kg		87	46 - 130	2	20
Endosulfan I	ND		15.7	14.6		ug/Kg		93	40 - 120	1	20
Endosulfan II	ND		15.7	15.6		ug/Kg		99	40 - 120	7	30
Endosulfan sulfate	ND		15.7	14.7		ug/Kg		93	40 - 120	4	20
Endrin	ND		15.7	15.7		ug/Kg		100	32 - 143	3	20
Endrin aldehyde	ND		15.7	14.1		ug/Kg		90	40 - 120	15	20
Endrin ketone	ND		15.7	13.9		ug/Kg		88	40 - 120	4	20
gamma-BHC (Lindane)	ND		15.7	15.9		ug/Kg		101	58 - 120	3	20
gamma-Chlordane	ND	F1	15.7	14.8		ug/Kg		94	40 - 120	3	20
Heptachlor	ND		15.7	15.2		ug/Kg		97	52 - 120	2	20
Heptachlor epoxide	ND		15.7	14.9		ug/Kg		95	40 - 120	1	20
Methoxychlor	ND		15.7	14.2		ug/Kg		90	40 - 120	5	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 259779

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259496

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*21 - 136*
Tetrachloro-m-xylene	*98*		*21 - 145*

Lab Sample ID: MB 720-259541/1-A
Matrix: Solid
Analysis Batch: 259778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Aldrin	ND		2.0	0.50	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Chlordane (technical)	ND		40	3.2	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endrin	ND		2.0	0.46	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Toxaphene	ND		40	6.8	ug/Kg		01/31/19 09:29	02/05/19 04:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*21 - 136*	*01/31/19 09:29*	*02/05/19 04:46*	*1*
Tetrachloro-m-xylene	*92*		*21 - 145*	*01/31/19 09:29*	*02/05/19 04:46*	*1*

Lab Sample ID: LCS 720-259541/2-A
Matrix: Solid
Analysis Batch: 259778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	17.4		ug/Kg		104	75 - 128
4,4'-DDE	16.7	16.8		ug/Kg		101	76 - 126
4,4'-DDT	16.7	16.4		ug/Kg		98	63 - 127
Aldrin	16.7	14.5		ug/Kg		87	65 - 120
alpha-BHC	16.7	15.2		ug/Kg		91	46 - 122
alpha-Chlordane	16.7	16.7		ug/Kg		100	70 - 120
beta-BHC	16.7	17.6		ug/Kg		106	78 - 136
delta-BHC	16.7	17.5		ug/Kg		105	43 - 125

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-259541/2-A
Matrix: Solid
Analysis Batch: 259778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dieldrin	16.7	16.6		ug/Kg		100	72 - 120
Endosulfan I	16.7	16.9		ug/Kg		101	62 - 120
Endosulfan II	16.7	17.7		ug/Kg		106	65 - 120
Endosulfan sulfate	16.7	17.6		ug/Kg		106	72 - 121
Endrin	16.7	17.5		ug/Kg		105	68 - 120
Endrin aldehyde	16.7	19.3		ug/Kg		116	68 - 120
Endrin ketone	16.7	17.8		ug/Kg		107	75 - 136
gamma-BHC (Lindane)	16.7	15.8		ug/Kg		95	72 - 120
gamma-Chlordane	16.7	16.6		ug/Kg		99	68 - 120
Heptachlor	16.7	16.0		ug/Kg		96	69 - 120
Heptachlor epoxide	16.7	16.7		ug/Kg		100	68 - 120
Methoxychlor	16.7	18.2		ug/Kg		109	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*111*		*21 - 136*
Tetrachloro-m-xylene	*97*		*21 - 145*

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 259779

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.4	14.7		ug/Kg		89	40 - 120
4,4'-DDE	ND		16.4	13.3		ug/Kg		81	40 - 120
4,4'-DDT	ND	F2	16.4	17.2		ug/Kg		105	17 - 144
Aldrin	ND		16.4	12.7		ug/Kg		77	53 - 120
alpha-BHC	ND		16.4	14.1		ug/Kg		86	40 - 120
alpha-Chlordane	ND		16.4	12.9		ug/Kg		79	40 - 120
beta-BHC	ND		16.4	12.9		ug/Kg		78	40 - 120
delta-BHC	ND		16.4	13.0		ug/Kg		79	40 - 120
Dieldrin	ND		16.4	12.4		ug/Kg		76	46 - 130
Endosulfan I	ND	F2	16.4	14.8		ug/Kg		90	40 - 120
Endosulfan II	ND		16.4	16.5		ug/Kg		100	40 - 120
Endosulfan sulfate	ND	F2	16.4	10.3		ug/Kg		63	40 - 120
Endrin	ND	F2	16.4	16.3		ug/Kg		99	32 - 143
Endrin aldehyde	ND		16.4	10.0		ug/Kg		61	40 - 120
Endrin ketone	ND		16.4	12.2		ug/Kg		74	40 - 120
gamma-BHC (Lindane)	ND		16.4	13.6		ug/Kg		83	58 - 120
gamma-Chlordane	ND	F2	16.4	16.2		ug/Kg		98	40 - 120
Heptachlor	ND		16.4	14.1		ug/Kg		86	52 - 120
Heptachlor epoxide	ND		16.4	13.6		ug/Kg		83	40 - 120
Methoxychlor	ND		16.4	11.0		ug/Kg		67	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*21 - 136*
Tetrachloro-m-xylene	*92*		*21 - 145*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 259779

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.4	14.6		ug/Kg		89	40 - 120	1	20
4,4'-DDE	ND		16.4	11.5		ug/Kg		70	40 - 120	14	20
4,4'-DDT	ND	F2	16.4	13.1	F2	ug/Kg		80	17 - 144	27	20
Aldrin	ND		16.4	12.5		ug/Kg		76	53 - 120	2	20
alpha-BHC	ND		16.4	13.2		ug/Kg		80	40 - 120	7	20
alpha-Chlordane	ND		16.4	13.8		ug/Kg		84	40 - 120	7	20
beta-BHC	ND		16.4	12.4		ug/Kg		76	40 - 120	4	20
delta-BHC	ND		16.4	13.2		ug/Kg		81	40 - 120	2	20
Dieldrin	ND		16.4	10.3	p	ug/Kg		63	46 - 130	18	20
Endosulfan I	ND	F2	16.4	10.9	F2	ug/Kg		66	40 - 120	31	20
Endosulfan II	ND		16.4	13.2		ug/Kg		81	40 - 120	22	30
Endosulfan sulfate	ND	F2	16.4	7.96	p F2	ug/Kg		49	40 - 120	26	20
Endrin	ND	F2	16.4	12.4	F2	ug/Kg		76	32 - 143	27	20
Endrin aldehyde	ND		16.4	8.52		ug/Kg		52	40 - 120	16	20
Endrin ketone	ND		16.4	10.5		ug/Kg		64	40 - 120	15	20
gamma-BHC (Lindane)	ND		16.4	12.6		ug/Kg		77	58 - 120	8	20
gamma-Chlordane	ND	F2	16.4	13.1	F2	ug/Kg		80	40 - 120	21	20
Heptachlor	ND		16.4	13.8		ug/Kg		84	52 - 120	2	20
Heptachlor epoxide	ND		16.4	13.7		ug/Kg		84	40 - 120	1	20
Methoxychlor	ND		16.4	11.5		ug/Kg		70	40 - 120	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*21 - 136*
Tetrachloro-m-xylene	*104*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-526136/1-A
Matrix: Solid
Analysis Batch: 526369

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 16:29	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 16:29	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 16:29	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 16:29	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 16:29	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 16:29	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:24	02/01/19 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*	*01/31/19 13:24*	*02/01/19 16:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-526136/2-A
Matrix: Solid
Analysis Batch: 526369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526136

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	200		ug/Kg		75	65 - 115		
Aroclor 1260			267	216		ug/Kg		81	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 526369

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 526136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND	F1	265	133		ug/Kg		50	50 - 120		
Aroclor 1260	ND		265	141		ug/Kg		53	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 526369

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 526136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	F1	265	128	F1	ug/Kg		48	50 - 120	11	30
Aroclor 1260	ND		265	133		ug/Kg		50	50 - 125	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*

Lab Sample ID: MB 440-526140/1-A
Matrix: Solid
Analysis Batch: 526355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1221	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1232	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1242	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1248	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1254	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1
Aroclor 1260	ND		50	17	ug/Kg		01/31/19 13:33	02/01/19 18:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*45 - 120*	*01/31/19 13:33*	*02/01/19 18:42*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-526140/2-A
Matrix: Solid
Analysis Batch: 526355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526140

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	283		ug/Kg		106	65 - 115		
Aroclor 1260			267	297		ug/Kg		111	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*98*		*45 - 120*

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 526355

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		266	202		ug/Kg		76	50 - 120		
Aroclor 1260	ND		266	195		ug/Kg		73	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 526355

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 526140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		265	192		ug/Kg		72	50 - 120	5	30
Aroclor 1260	ND		265	178		ug/Kg		67	50 - 125	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*57*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259430/1-A
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Arsenic	ND		1.0	0.085	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Barium	ND		0.50	0.071	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Beryllium	ND		0.10	0.033	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Cadmium	ND		0.13	0.012	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Chromium	ND		0.50	0.053	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Cobalt	ND		0.20	0.020	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Copper	ND		1.5	0.71	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Lead	0.115	J	0.50	0.11	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Nickel	ND		0.50	0.051	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Selenium	ND		1.0	0.15	mg/Kg		01/29/19 17:33	02/07/19 19:42	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259430/1-A
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0783	J	0.25	0.051	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Thallium	ND		0.50	0.15	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Vanadium	ND		0.50	0.068	mg/Kg		01/29/19 17:33	02/07/19 19:42	1
Zinc	ND		1.5	0.64	mg/Kg		01/29/19 17:33	02/07/19 19:42	1

Lab Sample ID: LCS 720-259430/2-A
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.1		mg/Kg		98	80 - 120
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	50.0	51.1		mg/Kg		102	80 - 120
Beryllium	50.0	52.2		mg/Kg		104	80 - 120
Cadmium	50.0	50.6		mg/Kg		101	80 - 120
Chromium	50.0	50.8		mg/Kg		102	80 - 120
Cobalt	50.0	51.9		mg/Kg		104	80 - 120
Copper	50.0	50.9		mg/Kg		102	80 - 120
Lead	50.0	51.3		mg/Kg		103	80 - 120
Molybdenum	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	50.2		mg/Kg		100	80 - 120
Selenium	50.0	48.2		mg/Kg		96	80 - 120
Silver	25.0	24.8		mg/Kg		99	80 - 120
Thallium	50.0	50.4		mg/Kg		101	80 - 120
Vanadium	50.0	50.6		mg/Kg		101	80 - 120
Zinc	50.0	49.9		mg/Kg		100	80 - 120

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.81	J F1	48.1	10.5	F1	mg/Kg		20	75 - 125
Arsenic	23		48.1	62.4		mg/Kg		81	75 - 125
Barium	68		48.1	112		mg/Kg		92	75 - 125
Beryllium	ND		48.1	51.2		mg/Kg		106	75 - 125
Cadmium	0.39	J	48.1	49.2		mg/Kg		102	75 - 125
Chromium	13		48.1	62.0		mg/Kg		102	75 - 125
Cobalt	9.0		48.1	58.5		mg/Kg		103	75 - 125
Copper	120		48.1	182		mg/Kg		125	75 - 125
Lead	95	B F1	48.1	112	F1	mg/Kg		35	75 - 125
Molybdenum	0.37	J	48.1	45.3		mg/Kg		93	75 - 125
Nickel	11		48.1	56.8		mg/Kg		96	75 - 125
Selenium	1.2	J	48.1	48.7		mg/Kg		99	75 - 125
Silver	ND		24.0	24.7		mg/Kg		103	75 - 125
Thallium	39		48.1	91.5		mg/Kg		109	75 - 125
Vanadium	99	F1	48.1	160	F1	mg/Kg		127	75 - 125
Zinc	71		48.1	116		mg/Kg		93	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 260050

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259430

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.81	J F1	47.6	11.6	F1	mg/Kg		23	75 - 125	10	20
Arsenic	23		47.6	67.1		mg/Kg		92	75 - 125	7	20
Barium	68		47.6	109		mg/Kg		88	75 - 125	2	20
Beryllium	ND		47.6	50.4		mg/Kg		106	75 - 125	1	20
Cadmium	0.39	J	47.6	48.9		mg/Kg		102	75 - 125	1	20
Chromium	13		47.6	59.7		mg/Kg		98	75 - 125	4	20
Cobalt	9.0		47.6	57.9		mg/Kg		103	75 - 125	1	20
Copper	120		47.6	166		mg/Kg		94	75 - 125	9	20
Lead	95	B F1	47.6	116	F1	mg/Kg		44	75 - 125	4	20
Molybdenum	0.37	J	47.6	45.0		mg/Kg		94	75 - 125	1	20
Nickel	11		47.6	56.1		mg/Kg		96	75 - 125	1	20
Selenium	1.2	J	47.6	48.3		mg/Kg		99	75 - 125	1	20
Silver	ND		23.8	23.2		mg/Kg		97	75 - 125	6	20
Thallium	39		47.6	87.4		mg/Kg		102	75 - 125	4	20
Vanadium	99	F1	47.6	152		mg/Kg		111	75 - 125	5	20
Zinc	71		47.6	113		mg/Kg		89	75 - 125	2	20

Lab Sample ID: MB 720-259433/1-A
Matrix: Solid
Analysis Batch: 259559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.153	J	0.50	0.083	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Arsenic	ND		1.0	0.085	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Barium	ND		0.50	0.071	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Beryllium	0.0347	J	0.10	0.033	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Cadmium	ND		0.13	0.012	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Chromium	0.0876	J	0.50	0.053	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Cobalt	0.0228	J	0.20	0.020	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Copper	ND		1.5	0.71	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Lead	0.151	J	0.50	0.11	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Nickel	ND		0.50	0.051	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Selenium	ND		1.0	0.15	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Silver	ND		0.25	0.051	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Thallium	0.154	J	0.50	0.15	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Vanadium	ND		0.50	0.068	mg/Kg		01/30/19 17:11	01/31/19 09:57	1
Zinc	ND		1.5	0.64	mg/Kg		01/30/19 17:11	01/31/19 09:57	1

Lab Sample ID: LCS 720-259433/2-A
Matrix: Solid
Analysis Batch: 259559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259433

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			50.0	52.2		mg/Kg		104	80 - 120		
Arsenic			50.0	54.5		mg/Kg		109	80 - 120		
Barium			50.0	54.6		mg/Kg		109	80 - 120		
Beryllium			50.0	54.6		mg/Kg		109	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259433/2-A
Matrix: Solid
Analysis Batch: 259559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	54.9		mg/Kg		110	80 - 120
Chromium	50.0	55.7		mg/Kg		111	80 - 120
Cobalt	50.0	55.6		mg/Kg		111	80 - 120
Copper	50.0	54.9		mg/Kg		110	80 - 120
Lead	50.0	55.6		mg/Kg		111	80 - 120
Molybdenum	50.0	55.7		mg/Kg		111	80 - 120
Nickel	50.0	55.7		mg/Kg		111	80 - 120
Selenium	50.0	52.6		mg/Kg		105	80 - 120
Silver	25.0	26.7		mg/Kg		107	80 - 120
Thallium	50.0	55.5		mg/Kg		111	80 - 120
Vanadium	50.0	55.3		mg/Kg		111	80 - 120
Zinc	50.0	54.7		mg/Kg		109	80 - 120

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 259559

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.2	J B F1	48.1	20.6	F1	mg/Kg		40	75 - 125
Arsenic	3.9	F1	48.1	68.1	F1	mg/Kg		133	75 - 125
Barium	57	F1	48.1	146	F1	mg/Kg		187	75 - 125
Beryllium	0.14	J B F1	48.1	66.3	F1	mg/Kg		138	75 - 125
Cadmium	0.13	J F1	48.1	59.7		mg/Kg		124	75 - 125
Chromium	13	B F1	48.1	81.6	F1	mg/Kg		143	75 - 125
Cobalt	4.3	B F1	48.1	67.3	F1	mg/Kg		131	75 - 125
Copper	80	F1 F2	48.1	153	F1	mg/Kg		152	75 - 125
Lead	110	B F1	48.1	214	F1	mg/Kg		223	75 - 125
Molybdenum	ND	F1	48.1	59.9		mg/Kg		125	75 - 125
Nickel	19	F1	48.1	86.6	F1	mg/Kg		141	75 - 125
Selenium	ND	F1	48.1	61.5	F1	mg/Kg		128	75 - 125
Silver	0.20	J F1	24.0	31.9	F1	mg/Kg		132	75 - 125
Thallium	0.93	J B ^ F1	48.1	57.7		mg/Kg		118	75 - 125
Vanadium	30	F1	48.1	116	F1	mg/Kg		179	75 - 125
Zinc	45	F1	48.1	124	F1	mg/Kg		164	75 - 125

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 259559

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.2	J B F1	47.2	18.4	F1	mg/Kg		36	75 - 125	11	20
Arsenic	3.9	F1	47.2	69.0	F1	mg/Kg		138	75 - 125	1	20
Barium	57	F1	47.2	141	F1	mg/Kg		180	75 - 125	4	20
Beryllium	0.14	J B F1	47.2	68.2	F1	mg/Kg		144	75 - 125	3	20
Cadmium	0.13	J F1	47.2	61.2	F1	mg/Kg		130	75 - 125	3	20
Chromium	13	B F1	47.2	82.8	F1	mg/Kg		148	75 - 125	2	20
Cobalt	4.3	B F1	47.2	69.1	F1	mg/Kg		137	75 - 125	3	20
Copper	80	F1 F2	47.2	197	F1 F2	mg/Kg		247	75 - 125	25	20
Lead	110	B F1	47.2	254	F1	mg/Kg		312	75 - 125	17	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 259559

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	ND	F1	47.2	61.7	F1	mg/Kg		131	75 - 125	3	20
Nickel	19	F1	47.2	88.6	F1	mg/Kg		148	75 - 125	2	20
Selenium	ND	F1	47.2	63.2	F1	mg/Kg		134	75 - 125	3	20
Silver	0.20	J F1	23.6	33.0	F1	mg/Kg		139	75 - 125	3	20
Thallium	0.93	J B ^ F1	47.2	60.5	F1	mg/Kg		126	75 - 125	5	20
Vanadium	30	F1	47.2	128	F1	mg/Kg		207	75 - 125	10	20
Zinc	45	F1	47.2	133	F1	mg/Kg		186	75 - 125	7	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259389/1-A
Matrix: Solid
Analysis Batch: 260155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/29/19 11:04	02/11/19 12:23	1

Lab Sample ID: LCS 720-259389/2-A
Matrix: Solid
Analysis Batch: 260155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.837		mg/Kg		100	80 - 120

Lab Sample ID: 720-91048-16 MS
Matrix: Solid
Analysis Batch: 260155

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.091		0.714	0.848		mg/Kg		106	75 - 125

Lab Sample ID: 720-91048-16 MSD
Matrix: Solid
Analysis Batch: 260155

Client Sample ID: DG-T17S-3.5-4
Prep Type: Total/NA
Prep Batch: 259389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.091		0.704	0.809		mg/Kg		102	75 - 125	5	20

Lab Sample ID: MB 720-259396/1-A
Matrix: Solid
Analysis Batch: 260136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/08/19 09:30	02/09/19 09:53	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-259396/2-A
Matrix: Solid
Analysis Batch: 260136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259396

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.789		mg/Kg		95	80 - 120		

Lab Sample ID: 720-91048-19 MS
Matrix: Solid
Analysis Batch: 260136

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.047		0.758	0.820		mg/Kg		102	75 - 125		

Lab Sample ID: 720-91048-19 MSD
Matrix: Solid
Analysis Batch: 260136

Client Sample ID: DG-W15S-3.5-4
Prep Type: Total/NA
Prep Batch: 259396

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.047		0.781	0.875		mg/Kg		106	75 - 125	7	20

Lab Sample ID: MB 720-259407/1-A
Matrix: Solid
Analysis Batch: 259552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/30/19 12:27	01/30/19 19:58	1

Lab Sample ID: LCS 720-259407/2-A
Matrix: Solid
Analysis Batch: 259552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259407

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.745		mg/Kg		89	80 - 120		

Lab Sample ID: 720-91048-26 MS
Matrix: Solid
Analysis Batch: 259552

Client Sample ID: DG-Z13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.022	F1 F2	0.806	0.780		mg/Kg		94	75 - 125		

Lab Sample ID: 720-91048-26 MSD
Matrix: Solid
Analysis Batch: 259552

Client Sample ID: DG-Z13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.022	F1 F2	0.781	1.02	F1 F2	mg/Kg		128	75 - 125	27	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91048-1 DU
Matrix: Solid
Analysis Batch: 259492

Client Sample ID: DG-Z17S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	28.6			29.1		%				2	20

Lab Sample ID: 720-91048-20 DU
Matrix: Solid
Analysis Batch: 259498

Client Sample ID: DG-X17S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.8			15.0		%				1	20

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Prep Batch: 525455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91011-D-21-B MS	Matrix Spike	Total/NA	Solid	5035	
720-91011-D-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 525905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	5035	
720-91048-3 - RA	DG-Z17S-7.5-8	Total/NA	Solid	5035	
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	5035	
720-91048-15 - RA	DG-T17S-0.5-1	Total/NA	Solid	5035	
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	5035	
720-91048-22 - RA	DG-R13S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 526002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	8260B	526116
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	8260B	526116
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	8260B	526116
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	8260B	526116
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	8260B	526116
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	8260B	526116
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	8260B	526116
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	8260B	526116
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	8260B	526116
720-91048-11	DUP-122	Total/NA	Solid	8260B	526116
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	8260B	526116
MB 440-526002/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526002/5	Lab Control Sample	Total/NA	Solid	8260B	
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	8260B	526116
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	8260B	526116

Analysis Batch: 526003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-11	DUP-122	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116
MB 440-526003/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 526003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-526003/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116

Analysis Batch: 526004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-3 - RA	DG-Z17S-7.5-8	Total/NA	Solid	8260B	525905
720-91048-15 - RA	DG-T17S-0.5-1	Total/NA	Solid	8260B	525905
MB 440-526004/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526004/11	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526004/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
720-91011-D-21-B MS	Matrix Spike	Total/NA	Solid	8260B	525455
720-91011-D-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	525455

Prep Batch: 526116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	5035	
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	5035	
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	5035	
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	5035	
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	5035	
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	5035	
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	5035	
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	5035	
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	5035	
720-91048-11	DUP-122	Total/NA	Solid	5035	
720-91048-12	DUP-124	Total/NA	Solid	5035	
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	5035	
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	5035	
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	5035	
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	5035	
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	5035	
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	5035	
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	5035	
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	5035	
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	5035	
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	5035	
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	5035	
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 526209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-12	DUP-124	Total/NA	Solid	8260B	526116
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	8260B	526116
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	8260B	526116
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	8260B	526116
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	8260B	526116
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	8260B	526116

GC/MS VOA (Continued)

Analysis Batch: 526209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	8260B	526116
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	8260B	526116
720-91048-23	DUP-108	Total/NA	Solid	8260B	526225
720-91048-24	DUP-121	Total/NA	Solid	8260B	526225
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	8260B	526225
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	8260B	526225
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	8260B	526225
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	8260B	526225
MB 440-526209/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526209/5	Lab Control Sample	Total/NA	Solid	8260B	
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	8260B	526116
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	8260B	526116

Analysis Batch: 526210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526225
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526225
720-91048-12	DUP-124	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-23	DUP-108	Total/NA	Solid	8260B/CA_LUFT MS	526225
720-91048-24	DUP-121	Total/NA	Solid	8260B/CA_LUFT MS	526225
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526225
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526225
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526225
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526225
MB 440-526210/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526210/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526116

GC/MS VOA (Continued)

Prep Batch: 526225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	5035	
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	5035	
720-91048-23	DUP-108	Total/NA	Solid	5035	
720-91048-24	DUP-121	Total/NA	Solid	5035	
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	5035	
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	5035	
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	5035	
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 526258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1 - RA	DG-Z17S-0.5-1	Total/NA	Solid	8260B	526331
MB 440-526258/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526258/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526258/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 526259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	8260B/CA_LUFT MS	526331
MB 440-526259/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526259/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-526259/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 526331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1 - RA	DG-Z17S-0.5-1	Total/NA	Solid	5035	
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	5035	

Prep Batch: 526365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 526536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	8260B	526365
MB 440-526536/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-526536/6	Lab Control Sample	Total/NA	Solid	8260B	
440-231317-A-2 MS	Matrix Spike	Total/NA	Solid	8260B	
440-231317-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 526537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
MB 440-526537/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526537/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 526537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-231317-A-2 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-231317-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 526706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	8260B	526716
MB 440-526706/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-526706/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526706/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 526712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526716
MB 440-526712/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526712/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-526712/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 526716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 526745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	8260B	525905
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	8260B	525905
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	8260B	525905
MB 440-526745/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526745/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526745/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
720-91011-D-21-B MS	Matrix Spike	Total/NA	Solid	8260B	525455
720-91011-D-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	525455

Analysis Batch: 526746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	525905
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525905
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	525905
720-91011-D-21-B MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	525455
720-91011-D-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	525455

GC/MS VOA (Continued)

Analysis Batch: 527268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-22 - RA	DG-R13S-0.5-1	Total/NA	Solid	8260B	525905
MB 440-527268/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-527268/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-527268/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

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Prep Batch: 259565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	3546	
MB 720-259565/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259565/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	3546	
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 259581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	3546	
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	3546	
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	3546	
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	3546	
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	3546	
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	3546	
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	3546	
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	3546	
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	3546	
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	3546	
720-91048-11	DUP-122	Total/NA	Solid	3546	
720-91048-12	DUP-124	Total/NA	Solid	3546	
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	3546	
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	3546	
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	3546	
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	3546	
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	3546	
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	3546	
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	3546	
MB 720-259581/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259581/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	3546	
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 259639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	3546	
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	3546	
720-91048-23	DUP-108	Total/NA	Solid	3546	
720-91048-24	DUP-121	Total/NA	Solid	3546	
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	3546	
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	3546	
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 259639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	3546	
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	3546	
MB 720-259639/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259639/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91016-A-16-G MS	Matrix Spike	Total/NA	Solid	3546	
720-91016-A-16-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 259713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259565/1-A	Method Blank	Total/NA	Solid	8270C SIM	259565
LCS 720-259565/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259565

Analysis Batch: 259797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	8270C SIM	259565
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	8270C SIM	259565
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	8270C SIM	259565

Analysis Batch: 259858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259639/1-A	Method Blank	Total/NA	Solid	8270C SIM	259639
LCS 720-259639/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259639

Analysis Batch: 259941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91016-A-16-G MS	Matrix Spike	Total/NA	Solid	8270C SIM	259639
720-91016-A-16-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	259639

Analysis Batch: 259976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259581/1-A	Method Blank	Total/NA	Solid	8270C SIM	259581
LCS 720-259581/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259581

Analysis Batch: 260008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	8270C SIM	259581
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	8270C SIM	259581
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	8270C SIM	259581
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	8270C SIM	259581
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	8270C SIM	259581
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	8270C SIM	259581
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	8270C SIM	259581
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	8270C SIM	259581
720-91048-11	DUP-122	Total/NA	Solid	8270C SIM	259581
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	8270C SIM	259639
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	8270C SIM	259639
720-91048-24	DUP-121	Total/NA	Solid	8270C SIM	259639
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	8270C SIM	259639
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	8270C SIM	259639

GC/MS Semi VOA (Continued)

Analysis Batch: 260053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	8270C SIM	259581
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	8270C SIM	259581
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	8270C SIM	259581
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	8270C SIM	259581
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	8270C SIM	259581
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	8270C SIM	259581
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	8270C SIM	259581
720-91048-23	DUP-108	Total/NA	Solid	8270C SIM	259639
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	8270C SIM	259639
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	8270C SIM	259639
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	8270C SIM	259639
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	8270C SIM	259581
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	8270C SIM	259581

Analysis Batch: 260119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	8270C SIM	259581
720-91048-12	DUP-124	Total/NA	Solid	8270C SIM	259581
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	8270C SIM	259581

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Prep Batch: 259496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	3546	
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	3546	
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	3546	
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	3546	
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	3546	
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	3546	
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	3546	
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	3546	
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	3546	
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	3546	
720-91048-11	DUP-122	Total/NA	Solid	3546	
720-91048-12	DUP-124	Total/NA	Solid	3546	
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	3546	
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	3546	
MB 720-259496/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259496/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	3546	
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 259528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	8015B	259589
MB 720-259589/1-A	Method Blank	Total/NA	Solid	8015B	259589
LCS 720-259589/2-A	Lab Control Sample	Total/NA	Solid	8015B	259589
720-91048-29 MS	DG-AF13S-3.5-4	Total/NA	Solid	8015B	259589
720-91048-29 MSD	DG-AF13S-3.5-4	Total/NA	Solid	8015B	259589

GC Semi VOA (Continued)

Prep Batch: 259541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	3546	
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	3546	
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	3546	
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	3546	
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	3546	
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	3546	
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	3546	
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	3546	
720-91048-23	DUP-108	Total/NA	Solid	3546	
720-91048-24	DUP-121	Total/NA	Solid	3546	
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	3546	
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	3546	
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	3546	
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	3546	
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	3546	
MB 720-259541/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259541/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	3546	
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 259558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	3546	
MB 720-259558/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259558/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	3546	
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 259569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	3546	
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	3546	
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	3546	
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	3546	
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	3546	
MB 720-259569/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259569/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	3546	
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 259589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-23	DUP-108	Total/NA	Solid	3546	
720-91048-24	DUP-121	Total/NA	Solid	3546	
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	3546	
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	3546	
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	3546	
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	3546	
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	3546	
MB 720-259589/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259589/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 259589 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-29 MS	DG-AF13S-3.5-4	Total/NA	Solid	3546	
720-91048-29 MSD	DG-AF13S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 259630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	3546	
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	3546	
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	3546	
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	3546	
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	3546	
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	3546	
720-91048-11	DUP-122	Total/NA	Solid	3546	
720-91048-12	DUP-124	Total/NA	Solid	3546	
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	3546	
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	3546	
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	3546	
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	3546	
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	3546	
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	3546	
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	3546	
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	3546	
MB 720-259630/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259630/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-5 MS	DG-Y19S-3.5-4	Total/NA	Solid	3546	
720-91048-5 MSD	DG-Y19S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 259704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259496/1-A	Method Blank	Total/NA	Solid	8081A	259496
LCS 720-259496/2-A	Lab Control Sample	Total/NA	Solid	8081A	259496

Analysis Batch: 259778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	8081A	259496
MB 720-259541/1-A	Method Blank	Total/NA	Solid	8081A	259541
LCS 720-259541/2-A	Lab Control Sample	Total/NA	Solid	8081A	259541

Analysis Batch: 259779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	8081A	259496
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	8081A	259496
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	8081A	259496
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	8081A	259496
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	8081A	259496
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	8081A	259496
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	8081A	259496
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	8081A	259496
720-91048-11	DUP-122	Total/NA	Solid	8081A	259496
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	8081A	259496
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	8081A	259541
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	8081A	259496

GC Semi VOA (Continued)

Analysis Batch: 259779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	8081A	259496
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	8081A	259541
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	8081A	259541

Analysis Batch: 259793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259558/1-A	Method Blank	Total/NA	Solid	8015B	259558
MB 720-259569/1-A	Method Blank	Total/NA	Solid	8015B	259569
MB 720-259630/1-A	Method Blank	Total/NA	Solid	8015B	259630
LCS 720-259558/2-A	Lab Control Sample	Total/NA	Solid	8015B	259558
LCS 720-259569/2-A	Lab Control Sample	Total/NA	Solid	8015B	259569
LCS 720-259630/2-A	Lab Control Sample	Total/NA	Solid	8015B	259630

Analysis Batch: 259794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	8015B	259558
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	8015B	259558
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	8015B	259558

Analysis Batch: 259859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	8081A	259496
720-91048-12	DUP-124	Total/NA	Solid	8081A	259496
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	8081A	259496

Analysis Batch: 259873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	8015B	259630
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	8015B	259569
720-91048-5 MS	DG-Y19S-3.5-4	Total/NA	Solid	8015B	259630
720-91048-5 MSD	DG-Y19S-3.5-4	Total/NA	Solid	8015B	259630
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	8015B	259569
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	8015B	259569

Analysis Batch: 259947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	8015B	259630
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	8015B	259630
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	8015B	259630

Analysis Batch: 259948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	8015B	259630
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	8015B	259630

Analysis Batch: 260007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	8081A	259541
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	8081A	259541
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	8081A	259541
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	8081A	259541

GC Semi VOA (Continued)

Analysis Batch: 260007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-23	DUP-108	Total/NA	Solid	8081A	259541
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	8081A	259541
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	8081A	259541
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	8081A	259541
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	8081A	259541
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	8081A	259541

Analysis Batch: 260015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	8015B	259630
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	8015B	259630
720-91048-11	DUP-122	Total/NA	Solid	8015B	259630
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	8015B	259630
720-91048-24	DUP-121	Total/NA	Solid	8015B	259589
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	8015B	259589
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	8015B	259589
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	8015B	259589
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	8015B	259589

Analysis Batch: 260083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	8081A	259541
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	8081A	259541
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	8081A	259541
720-91048-24	DUP-121	Total/NA	Solid	8081A	259541

Analysis Batch: 260086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	8015B	259569
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	8015B	259569
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	8015B	259569
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	8015B	259569
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	8015B	259630
720-91048-12	DUP-124	Total/NA	Solid	8015B	259630
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	8015B	259630
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	8015B	259630
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	8015B	259630
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	8015B	259630
720-91048-23	DUP-108	Total/NA	Solid	8015B	259589

Prep Batch: 526136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	3546	
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	3546	
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	3546	
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	3546	
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	3546	
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	3546	
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	3546	
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	3546	
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 526136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	3546	
720-91048-11	DUP-122	Total/NA	Solid	3546	
720-91048-12	DUP-124	Total/NA	Solid	3546	
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	3546	
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	3546	
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	3546	
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	3546	
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	3546	
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	3546	
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	3546	
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	3546	
MB 440-526136/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526136/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	3546	
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	3546	

Prep Batch: 526140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	3546	
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	3546	
720-91048-23	DUP-108	Total/NA	Solid	3546	
720-91048-24	DUP-121	Total/NA	Solid	3546	
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	3546	
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	3546	
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	3546	
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	3546	
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	3546	
MB 440-526140/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526140/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	3546	
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 526355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	8082	526140
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	8082	526140
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	8082	526140
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	8082	526140
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	8082	526140
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	8082	526140
MB 440-526140/1-A	Method Blank	Total/NA	Solid	8082	526140
LCS 440-526140/2-A	Lab Control Sample	Total/NA	Solid	8082	526140
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	8082	526140
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	8082	526140

Analysis Batch: 526369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	8082	526136
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	8082	526136
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	8082	526136
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	8082	526136

GC Semi VOA (Continued)

Analysis Batch: 526369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	8082	526136
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	8082	526136
720-91048-11	DUP-122	Total/NA	Solid	8082	526136
720-91048-12	DUP-124	Total/NA	Solid	8082	526136
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	8082	526136
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	8082	526136
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	8082	526136
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	8082	526136
MB 440-526136/1-A	Method Blank	Total/NA	Solid	8082	526136
LCS 440-526136/2-A	Lab Control Sample	Total/NA	Solid	8082	526136
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	8082	526136
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	8082	526136

Analysis Batch: 526621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	8082	526136
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	8082	526136
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	8082	526136
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	8082	526136
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	8082	526136
720-91048-23	DUP-108	Total/NA	Solid	8082	526140
720-91048-24	DUP-121	Total/NA	Solid	8082	526140
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	8082	526140

Analysis Batch: 526791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	8082	526136
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	8082	526136
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	8082	526136

Metals

Prep Batch: 259389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	7471A	
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	7471A	
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	7471A	
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	7471A	
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	7471A	
MB 720-259389/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259389/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	7471A	
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 259396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	7471A	
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	7471A	
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	7471A	
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	7471A	
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	7471A	
720-91048-11	DUP-122	Total/NA	Solid	7471A	
720-91048-12	DUP-124	Total/NA	Solid	7471A	
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	7471A	
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	7471A	
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	7471A	
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	7471A	
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	7471A	
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	7471A	
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	7471A	
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	7471A	
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	7471A	
720-91048-23	DUP-108	Total/NA	Solid	7471A	
720-91048-24	DUP-121	Total/NA	Solid	7471A	
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	7471A	
MB 720-259396/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259396/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	7471A	
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 259407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	7471A	
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	7471A	
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	7471A	
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	7471A	
MB 720-259407/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259407/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91048-26 MS	DG-Z13S-0.5-1	Total/NA	Solid	7471A	
720-91048-26 MSD	DG-Z13S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	3050B	
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	3050B	
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	3050B	
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	3050B	
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	3050B	
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	3050B	
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	3050B	
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	3050B	
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	3050B	
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	3050B	
720-91048-11	DUP-122	Total/NA	Solid	3050B	
720-91048-12	DUP-124	Total/NA	Solid	3050B	
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	3050B	
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	3050B	
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	3050B	
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	3050B	
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 259430 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	3050B	
MB 720-259430/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259430/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	3050B	
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 259433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	3050B	
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	3050B	
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	3050B	
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	3050B	
720-91048-23	DUP-108	Total/NA	Solid	3050B	
720-91048-24	DUP-121	Total/NA	Solid	3050B	
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	3050B	
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	3050B	
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	3050B	
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	3050B	
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	3050B	
MB 720-259433/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259433/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	3050B	
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	3050B	

Analysis Batch: 259552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	7471A	259407
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	7471A	259407
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	7471A	259407
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	7471A	259407
MB 720-259407/1-A	Method Blank	Total/NA	Solid	7471A	259407
LCS 720-259407/2-A	Lab Control Sample	Total/NA	Solid	7471A	259407
720-91048-26 MS	DG-Z13S-0.5-1	Total/NA	Solid	7471A	259407
720-91048-26 MSD	DG-Z13S-0.5-1	Total/NA	Solid	7471A	259407

Analysis Batch: 259559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	6010B	259433
MB 720-259433/1-A	Method Blank	Total/NA	Solid	6010B	259433
LCS 720-259433/2-A	Lab Control Sample	Total/NA	Solid	6010B	259433
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	6010B	259433
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	6010B	259433

Analysis Batch: 259600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	6010B	259433
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	6010B	259433
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	6010B	259433
720-91048-23	DUP-108	Total/NA	Solid	6010B	259433
720-91048-24	DUP-121	Total/NA	Solid	6010B	259433
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	6010B	259433

Metals (Continued)

Analysis Batch: 259600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	6010B	259433
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	6010B	259433
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	6010B	259433
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	6010B	259433

Analysis Batch: 259657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	6010B	259433

Analysis Batch: 260050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	6010B	259430
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	6010B	259430
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	6010B	259430
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	6010B	259430
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	6010B	259430
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	6010B	259430
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	6010B	259430
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	6010B	259430
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	6010B	259430
720-91048-11	DUP-122	Total/NA	Solid	6010B	259430
720-91048-12	DUP-124	Total/NA	Solid	6010B	259430
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	6010B	259430
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	6010B	259430
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	6010B	259430
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	6010B	259430
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	6010B	259430
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	6010B	259430
MB 720-259430/1-A	Method Blank	Total/NA	Solid	6010B	259430
LCS 720-259430/2-A	Lab Control Sample	Total/NA	Solid	6010B	259430
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	6010B	259430
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	6010B	259430

Analysis Batch: 260136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	7471A	259396
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	7471A	259396
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	7471A	259396
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	7471A	259396
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	7471A	259396
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	7471A	259396
720-91048-11	DUP-122	Total/NA	Solid	7471A	259396
720-91048-12	DUP-124	Total/NA	Solid	7471A	259396
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	7471A	259396
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	7471A	259396
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	7471A	259396
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	7471A	259396
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	7471A	259396
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	7471A	259396
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	7471A	259396
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	7471A	259396

Metals (Continued)

Analysis Batch: 260136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	7471A	259396
720-91048-23	DUP-108	Total/NA	Solid	7471A	259396
720-91048-24	DUP-121	Total/NA	Solid	7471A	259396
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	7471A	259396
MB 720-259396/1-A	Method Blank	Total/NA	Solid	7471A	259396
LCS 720-259396/2-A	Lab Control Sample	Total/NA	Solid	7471A	259396
720-91048-19 MS	DG-W15S-3.5-4	Total/NA	Solid	7471A	259396
720-91048-19 MSD	DG-W15S-3.5-4	Total/NA	Solid	7471A	259396

Analysis Batch: 260145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	6010B	259430

Analysis Batch: 260153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	6010B	259430

Analysis Batch: 260155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	7471A	259389
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	7471A	259389
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	7471A	259389
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	7471A	259389
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	7471A	259389
MB 720-259389/1-A	Method Blank	Total/NA	Solid	7471A	259389
LCS 720-259389/2-A	Lab Control Sample	Total/NA	Solid	7471A	259389
720-91048-16 MS	DG-T17S-3.5-4	Total/NA	Solid	7471A	259389
720-91048-16 MSD	DG-T17S-3.5-4	Total/NA	Solid	7471A	259389

General Chemistry

Analysis Batch: 259492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-1	DG-Z17S-0.5-1	Total/NA	Solid	Moisture	
720-91048-2	DG-Z17S-3.5-4	Total/NA	Solid	Moisture	
720-91048-3	DG-Z17S-7.5-8	Total/NA	Solid	Moisture	
720-91048-4	DG-Y19S-0.5-1	Total/NA	Solid	Moisture	
720-91048-5	DG-Y19S-3.5-4	Total/NA	Solid	Moisture	
720-91048-6	DG-Y19S-7.5-8	Total/NA	Solid	Moisture	
720-91048-7	DG-V17S-0.5-1	Total/NA	Solid	Moisture	
720-91048-8	DG-V17S-3.5-4	Total/NA	Solid	Moisture	
720-91048-9	DG-V17S-9.5-10	Total/NA	Solid	Moisture	
720-91048-10	DG-U15S-0.5-1	Total/NA	Solid	Moisture	
720-91048-11	DUP-122	Total/NA	Solid	Moisture	
720-91048-12	DUP-124	Total/NA	Solid	Moisture	
720-91048-13	DG-U15S-3.5-4	Total/NA	Solid	Moisture	
720-91048-14	DG-U15S-8.5-9	Total/NA	Solid	Moisture	
720-91048-15	DG-T17S-0.5-1	Total/NA	Solid	Moisture	
720-91048-16	DG-T17S-3.5-4	Total/NA	Solid	Moisture	
720-91048-17	DG-T17S-7-7.5	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259492 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-18	DG-W15S-0.5-1	Total/NA	Solid	Moisture	
720-91048-19	DG-W15S-3.5-4	Total/NA	Solid	Moisture	
720-91048-1 DU	DG-Z17S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 259498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-20	DG-X17S-0.5-1	Total/NA	Solid	Moisture	
720-91048-21	DG-X17S-3.5-4	Total/NA	Solid	Moisture	
720-91048-22	DG-R13S-0.5-1	Total/NA	Solid	Moisture	
720-91048-23	DUP-108	Total/NA	Solid	Moisture	
720-91048-24	DUP-121	Total/NA	Solid	Moisture	
720-91048-25	DG-R13S-3.5-4	Total/NA	Solid	Moisture	
720-91048-26	DG-Z13S-0.5-1	Total/NA	Solid	Moisture	
720-91048-27	DG-Z13S-3.5-4	Total/NA	Solid	Moisture	
720-91048-28	DG-AF13S-0.5-1	Total/NA	Solid	Moisture	
720-91048-29	DG-AF13S-3.5-4	Total/NA	Solid	Moisture	
720-91048-20 DU	DG-X17S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-Z17S-0.5-1

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 14:12	AYL	TAL IRV
Total/NA	Prep	5035	RA		526331	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B	RA	1	526258	02/01/19 13:38	HR	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 14:12	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		50	260008	02/08/19 10:43	LPL	TAL PLS
Total/NA	Prep	3546			259569	01/31/19 13:40	RAR	TAL PLS
Total/NA	Analysis	8015B		10	260086	02/09/19 15:23	DCH	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		2	259778	02/05/19 13:12	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 17:36	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 20:15	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-Z17S-3.5-4

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 14:37	AYL	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 14:37	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		100	260008	02/08/19 11:06	LPL	TAL PLS
Total/NA	Prep	3546			259569	01/31/19 13:40	RAR	TAL PLS
Total/NA	Analysis	8015B		20	260086	02/09/19 15:53	DCH	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		5	259779	02/05/19 12:16	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 17:49	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 20:20	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-Z17S-7.5-8

Date Collected: 01/28/19 08:10
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525905	01/30/19 15:42	JB	TAL IRV
Total/NA	Analysis	8260B		100	526745	02/05/19 14:30	AYL	TAL IRV
Total/NA	Prep	5035	RA		525905	01/30/19 15:42	JB	TAL IRV
Total/NA	Analysis	8260B	RA	100	526004	01/31/19 17:11	AYL	TAL IRV
Total/NA	Prep	5035			525905	01/30/19 15:42	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	526746	02/05/19 14:30	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		50	260008	02/08/19 11:30	LPL	TAL PLS
Total/NA	Prep	3546			259569	01/31/19 13:40	RAR	TAL PLS
Total/NA	Analysis	8015B		10	260086	02/09/19 16:22	DCH	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259779	02/05/19 12:33	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 18:02	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 20:25	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-Y19S-0.5-1

Date Collected: 01/28/19 08:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 15:26	AYL	TAL IRV
Total/NA	Prep	5035			526225	01/28/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 05:27	WC	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		100	260053	02/09/19 01:28	LPL	TAL PLS
Total/NA	Prep	3546			259569	01/31/19 13:40	RAR	TAL PLS
Total/NA	Analysis	8015B		20	260086	02/09/19 16:52	DCH	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		10	259779	02/05/19 12:51	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 18:16	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 20:39	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 13:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-Y19S-3.5-4

Lab Sample ID: 720-91048-5

Date Collected: 01/28/19 08:40

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 15:51	AYL	TAL IRV
Total/NA	Prep	5035			526225	01/28/19 19:00	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 05:52	WC	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		10	260008	02/08/19 12:17	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		5	259873	02/06/19 15:56	JXL	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259779	02/05/19 13:09	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526621	02/04/19 19:16	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 20:44	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		4	260136	02/09/19 10:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-Y19S-7.5-8

Lab Sample ID: 720-91048-6

Date Collected: 01/28/19 08:40

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 16:16	AYL	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 16:16	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	260008	02/08/19 06:01	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259948	02/08/19 03:58	JXL	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259779	02/05/19 13:26	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526791	02/05/19 15:51	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 20:49	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-V17S-0.5-1

Lab Sample ID: 720-91048-7

Date Collected: 01/28/19 09:20

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 16:40	AYL	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 16:40	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		5	260008	02/08/19 12:40	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		2	260015	02/08/19 11:00	JXL	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259779	02/05/19 13:44	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 18:56	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 20:53	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-V17S-3.5-4

Lab Sample ID: 720-91048-8

Date Collected: 01/28/19 09:20

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 17:05	AYL	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 17:05	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	260008	02/08/19 06:24	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259948	02/08/19 04:27	JXL	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259779	02/05/19 14:01	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 19:09	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 20:58	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-V17S-9.5-10

Lab Sample ID: 720-91048-9

Date Collected: 01/28/19 09:20

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 17:30	AYL	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 17:30	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		5	260008	02/08/19 13:04	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		1	260015	02/08/19 11:59	JXL	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		10	259859	02/06/19 09:02	MQL	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526791	02/05/19 12:19	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 21:03	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-U15S-0.5-1

Lab Sample ID: 720-91048-10

Date Collected: 01/28/19 09:50

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 17:54	AYL	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 17:54	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		20	260119	02/11/19 11:30	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		10	260086	02/09/19 17:21	DCH	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		2	259779	02/05/19 14:37	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526621	02/04/19 19:30	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260145	02/11/19 12:31	OBI	TAL PLS
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260153	02/11/19 14:37	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DUP-122

Lab Sample ID: 720-91048-11

Date Collected: 01/28/19 00:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 18:19	AYL	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 18:19	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		1	260008	02/08/19 06:48	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		1	260015	02/08/19 12:28	JXL	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259779	02/05/19 14:55	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 19:49	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 21:12	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DUP-124

Lab Sample ID: 720-91048-12

Date Collected: 01/28/19 00:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526209	01/31/19 23:42	WC	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	01/31/19 23:42	WC	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		20	260119	02/11/19 11:53	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		5	260086	02/09/19 17:51	DCH	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		2	259859	02/06/19 09:18	MQL	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 20:02	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 21:17	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-U15S-3.5-4

Lab Sample ID: 720-91048-13

Date Collected: 01/28/19 09:50

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 00:06	WC	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 00:06	WC	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		2	260119	02/11/19 12:16	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		1	260015	02/08/19 11:30	JXL	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:45	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259859	02/06/19 09:34	MQL	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 20:15	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 21:22	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-U15S-8.5-9

Lab Sample ID: 720-91048-14

Date Collected: 01/28/19 09:50

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 00:31	WC	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 00:31	WC	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		50	260053	02/08/19 19:36	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		10	260086	02/09/19 18:20	DCH	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		10	260083	02/09/19 21:43	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 20:29	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 21:36	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-T17S-0.5-1

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525905	01/30/19 15:42	JB	TAL IRV
Total/NA	Analysis	8260B		100	526745	02/05/19 14:57	AYL	TAL IRV
Total/NA	Prep	5035	RA		525905	01/30/19 15:42	JB	TAL IRV
Total/NA	Analysis	8260B	RA	100	526004	01/31/19 17:36	AYL	TAL IRV
Total/NA	Prep	5035			525905	01/30/19 15:42	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	526746	02/05/19 14:57	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		50	260053	02/08/19 19:59	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		50	259947	02/08/19 03:58	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		2	260083	02/09/19 21:59	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526621	02/04/19 19:43	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260050	02/07/19 21:41	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-T17S-3.5-4

Date Collected: 01/28/19 10:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526002	01/31/19 12:19	AYL	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526003	01/31/19 12:19	AYL	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		10	260053	02/08/19 18:02	LPL	TAL PLS
Total/NA	Prep	3546			259558	01/31/19 10:52	RAR	TAL PLS
Total/NA	Analysis	8015B		3	259794	02/05/19 20:06	JXL	TAL PLS
Total/NA	Prep	3546			259496	01/30/19 14:33	KLM	TAL PLS
Total/NA	Analysis	8081A		1	259779	02/05/19 09:55	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 17:22	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 20:10	OBI	TAL PLS
Total/NA	Prep	7471A			259389	01/29/19 11:04	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260155	02/11/19 12:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-T17S-7-7.5

Lab Sample ID: 720-91048-17

Date Collected: 01/28/19 10:30

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 00:56	WC	TAL IRV
Total/NA	Prep	5035			526331	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 14:02	HR	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		10	260053	02/08/19 20:23	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		10	260086	02/09/19 19:19	DCH	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260083	02/09/19 22:15	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526791	02/05/19 12:33	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 21:46	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-W15S-0.5-1

Lab Sample ID: 720-91048-18

Date Collected: 01/28/19 11:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 01:20	WC	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 01:20	WC	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		200	260053	02/08/19 20:46	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		20	260086	02/09/19 19:49	DCH	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		10	260007	02/08/19 09:50	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526621	02/04/19 19:57	JM	TAL IRV
Total/NA	Prep	3050B			259430	01/29/19 17:33	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260050	02/07/19 21:51	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-W15S-3.5-4

Lab Sample ID: 720-91048-19

Date Collected: 01/28/19 11:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526716	01/30/19 13:19	JB	TAL IRV
Total/NA	Analysis	8260B		1	526706	02/04/19 21:19	JB	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526209	01/31/19 22:03	WC	TAL IRV
Total/NA	Prep	5035			526716	01/30/19 13:19	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526712	02/04/19 21:19	JB	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	01/31/19 22:03	WC	TAL IRV
Total/NA	Prep	3546			259565	01/31/19 12:10	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		100	259797	02/05/19 11:19	LPL	TAL PLS
Total/NA	Prep	3546			259569	01/31/19 13:40	RAR	TAL PLS
Total/NA	Analysis	8015B		20	259873	02/06/19 16:25	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		2	259779	02/05/19 10:47	JZT	TAL PLS
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 19:36	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259559	01/31/19 10:25	BKR	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259492	01/30/19 13:54	TNL	TAL PLS

Client Sample ID: DG-X17S-0.5-1

Lab Sample ID: 720-91048-20

Date Collected: 01/28/19 11:30

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 01:45	WC	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 01:45	WC	TAL IRV
Total/NA	Prep	3546			259581	01/31/19 15:15	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		100	260053	02/08/19 21:10	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		10	260086	02/09/19 20:19	DCH	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		10	260007	02/08/19 10:07	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526621	02/04/19 20:11	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 15:41	BKR	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:49	MAG	TAL PLS

Client Sample ID: DG-X17S-0.5-1

Lab Sample ID: 720-91048-20

Date Collected: 01/28/19 11:30

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-X17S-3.5-4

Lab Sample ID: 720-91048-21

Date Collected: 01/28/19 11:30

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 02:09	WC	TAL IRV
Total/NA	Prep	5035			526116	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 02:09	WC	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		200	260008	02/08/19 07:35	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		50	259947	02/08/19 03:00	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		2	260007	02/08/19 10:23	JZT	TAL PLS
Total/NA	Prep	3546			526136	01/31/19 13:24	EGC	TAL IRV
Total/NA	Analysis	8082		1	526369	02/01/19 21:35	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 15:46	BKR	TAL PLS
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		10	259657	02/01/19 11:17	OBI	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-R13S-0.5-1

Lab Sample ID: 720-91048-22

Date Collected: 01/28/19 13:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			525905	01/30/19 15:42	JB	TAL IRV
Total/NA	Analysis	8260B		100	526745	02/05/19 15:23	AYL	TAL IRV
Total/NA	Prep	5035	RA		525905	01/30/19 15:42	JB	TAL IRV
Total/NA	Analysis	8260B	RA	100	527268	02/07/19 16:08	AYL	TAL IRV
Total/NA	Prep	5035			525905	01/30/19 15:42	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	526746	02/05/19 15:23	AYL	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	260008	02/08/19 07:58	LPL	TAL PLS
Total/NA	Prep	3546			259630	02/01/19 09:17	RAR	TAL PLS
Total/NA	Analysis	8015B		10	259947	02/08/19 03:29	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-R13S-0.5-1

Lab Sample ID: 720-91048-22

Date Collected: 01/28/19 13:00
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081A		1	260007	02/08/19 10:39	JZT	TAL PLS
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 19:50	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 15:51	BKR	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 10:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DUP-108

Lab Sample ID: 720-91048-23

Date Collected: 01/28/19 00:00
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 02:34	WC	TAL IRV
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 02:34	WC	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		50	260053	02/08/19 22:44	LPL	TAL PLS
Total/NA	Prep	3546			259589	01/31/19 15:50	RAR	TAL PLS
Total/NA	Analysis	8015B		20	260086	02/09/19 18:50	DCH	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		10	260007	02/08/19 10:55	JZT	TAL PLS
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526621	02/04/19 18:08	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 15:55	BKR	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 11:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DUP-121

Lab Sample ID: 720-91048-24

Date Collected: 01/28/19 00:00
Matrix: Solid
Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 02:59	WC	TAL IRV
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 02:59	WC	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		10	260008	02/08/19 08:45	LPL	TAL PLS

Client Sample ID: DUP-121

Lab Sample ID: 720-91048-24

Date Collected: 01/28/19 00:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			259589	01/31/19 15:50	RAR	TAL PLS
Total/NA	Analysis	8015B		5	260015	02/08/19 15:27	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		10	260083	02/09/19 22:32	JZT	TAL PLS
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526621	02/04/19 18:49	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 16:00	BKR	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 11:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-R13S-3.5-4

Lab Sample ID: 720-91048-25

Date Collected: 01/28/19 13:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 03:23	WC	TAL IRV
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 03:23	WC	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	260053	02/08/19 23:07	LPL	TAL PLS
Total/NA	Prep	3546			259589	01/31/19 15:50	RAR	TAL PLS
Total/NA	Analysis	8015B		1	260015	02/08/19 13:29	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260007	02/08/19 11:27	JZT	TAL PLS
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 20:31	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 16:05	BKR	TAL PLS
Total/NA	Prep	7471A			259396	02/08/19 09:30	SUN	TAL PLS
Total/NA	Analysis	7471A		1	260136	02/09/19 11:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-Z13S-0.5-1

Lab Sample ID: 720-91048-26

Date Collected: 01/28/19 13:30

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 03:48	WC	TAL IRV
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Client Sample ID: DG-Z13S-0.5-1

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 03:48	WC	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		10	260053	02/08/19 21:57	LPL	TAL PLS
Total/NA	Prep	3546			259589	01/31/19 15:50	RAR	TAL PLS
Total/NA	Analysis	8015B		10	260015	02/08/19 14:29	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260007	02/08/19 11:43	JZT	TAL PLS
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 20:44	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 16:09	BKR	TAL PLS
Total/NA	Prep	7471A			259407	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259552	01/30/19 20:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-Z13S-3.5-4

Date Collected: 01/28/19 13:30
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91048-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 04:13	WC	TAL IRV
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 04:13	WC	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260008	02/08/19 09:32	LPL	TAL PLS
Total/NA	Prep	3546			259589	01/31/19 15:50	RAR	TAL PLS
Total/NA	Analysis	8015B		5	260015	02/08/19 14:58	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260007	02/08/19 12:00	JZT	TAL PLS
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 20:58	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 16:14	BKR	TAL PLS
Total/NA	Prep	7471A			259407	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259552	01/30/19 20:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-AF13S-0.5-1

Lab Sample ID: 720-91048-28

Date Collected: 01/28/19 15:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526536	02/04/19 10:21	HR	TAL IRV
Total/NA	Prep	5035			526365	01/28/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526537	02/04/19 10:21	HR	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		200	260008	02/08/19 09:56	LPL	TAL PLS
Total/NA	Prep	3546			259589	01/31/19 15:50	RAR	TAL PLS
Total/NA	Analysis	8015B		50	260015	02/08/19 13:59	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		2	260007	02/08/19 12:16	JZT	TAL PLS
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526621	02/04/19 18:22	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 16:19	BKR	TAL PLS
Total/NA	Prep	7471A			259407	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259552	01/30/19 20:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-AF13S-3.5-4

Lab Sample ID: 720-91048-29

Date Collected: 01/28/19 15:00

Matrix: Solid

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B		1	526209	02/01/19 05:02	WC	TAL IRV
Total/NA	Prep	5035			526225	01/31/19 21:20	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526210	02/01/19 05:02	WC	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	260053	02/08/19 23:54	LPL	TAL PLS
Total/NA	Prep	3546			259589	01/31/19 15:50	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259528	02/01/19 04:55	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260007	02/08/19 12:32	JZT	TAL PLS
Total/NA	Prep	3546			526140	01/31/19 13:33	EGC	TAL IRV
Total/NA	Analysis	8082		1	526355	02/01/19 21:25	JM	TAL IRV
Total/NA	Prep	3050B			259433	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259600	01/31/19 16:24	BKR	TAL PLS
Total/NA	Prep	7471A			259407	01/30/19 12:27	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259552	01/30/19 20:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91048-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91048-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91048-1	DG-Z17S-0.5-1	Solid	01/28/19 08:10	01/28/19 18:20
720-91048-2	DG-Z17S-3.5-4	Solid	01/28/19 08:10	01/28/19 18:20
720-91048-3	DG-Z17S-7.5-8	Solid	01/28/19 08:10	01/28/19 18:20
720-91048-4	DG-Y19S-0.5-1	Solid	01/28/19 08:40	01/28/19 18:20
720-91048-5	DG-Y19S-3.5-4	Solid	01/28/19 08:40	01/28/19 18:20
720-91048-6	DG-Y19S-7.5-8	Solid	01/28/19 08:40	01/28/19 18:20
720-91048-7	DG-V17S-0.5-1	Solid	01/28/19 09:20	01/28/19 18:20
720-91048-8	DG-V17S-3.5-4	Solid	01/28/19 09:20	01/28/19 18:20
720-91048-9	DG-V17S-9.5-10	Solid	01/28/19 09:20	01/28/19 18:20
720-91048-10	DG-U15S-0.5-1	Solid	01/28/19 09:50	01/28/19 18:20
720-91048-11	DUP-122	Solid	01/28/19 00:00	01/28/19 18:20
720-91048-12	DUP-124	Solid	01/28/19 00:00	01/28/19 18:20
720-91048-13	DG-U15S-3.5-4	Solid	01/28/19 09:50	01/28/19 18:20
720-91048-14	DG-U15S-8.5-9	Solid	01/28/19 09:50	01/28/19 18:20
720-91048-15	DG-T17S-0.5-1	Solid	01/28/19 10:30	01/28/19 18:20
720-91048-16	DG-T17S-3.5-4	Solid	01/28/19 10:30	01/28/19 18:20
720-91048-17	DG-T17S-7-7.5	Solid	01/28/19 10:30	01/28/19 18:20
720-91048-18	DG-W15S-0.5-1	Solid	01/28/19 11:00	01/28/19 18:20
720-91048-19	DG-W15S-3.5-4	Solid	01/28/19 11:00	01/28/19 18:20
720-91048-20	DG-X17S-0.5-1	Solid	01/28/19 11:30	01/28/19 18:20
720-91048-21	DG-X17S-3.5-4	Solid	01/28/19 11:30	01/28/19 18:20
720-91048-22	DG-R13S-0.5-1	Solid	01/28/19 13:00	01/28/19 18:20
720-91048-23	DUP-108	Solid	01/28/19 00:00	01/28/19 18:20
720-91048-24	DUP-121	Solid	01/28/19 00:00	01/28/19 18:20
720-91048-25	DG-R13S-3.5-4	Solid	01/28/19 13:00	01/28/19 18:20
720-91048-26	DG-Z13S-0.5-1	Solid	01/28/19 13:30	01/28/19 18:20
720-91048-27	DG-Z13S-3.5-4	Solid	01/28/19 13:30	01/28/19 18:20
720-91048-28	DG-AF13S-0.5-1	Solid	01/28/19 15:00	01/28/19 18:20
720-91048-29	DG-AF13S-3.5-4	Solid	01/28/19 15:00	01/28/19 18:20

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: B190666
Received:01/30/2019
Reported:2/11/2019
Analyst: Candace Burrus

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-Z17S-0.5-1 (720-91048-1)	B10586	Yes	Chrysotile	0.75
DG-Z17S-3.5-4 (720-91048-2)	B10587	No	None Detected	0.00
DG-Z17S-7.5-8 (720-91048-3)	B10588	No	None Detected	0.00
DG-Y19S-0.5-1 (720-91048-4)	B10589	No	None Detected	0.00
DG-Y19S-3.5-4 (720-91048-5)	B10590	No	None Detected	0.00
DG-Y19S-7.5-8 (720-91048-6)	B10591	No	None Detected	0.00
DG-V17S-0.5-1 (720-91048-7)	B10592	No	None Detected	0.00
DG-V17S-3.5-4 (720-91048-8)	B10593	No	None Detected	0.00
DG-V17S-9.5-10 (720-91048-9)	B10594	No	None Detected	0.00
DG-U17S-0.5-1 (720-91048-10)	B10595	No	None Detected	0.00
DUP-122 (720-91048-11)	B10596	No	None Detected	0.00
DUP-124 (720-91048-12)	B10597	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

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Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-U15S-3.5-4 (720-91048-13)	B10598	No	None Detected	0.00
DG-U15S-8.5-9 (720-91048-14)	B10599	No	None Detected	0.00
DG-T17S-0.5-1 (720-91048-15)	B10600	No	None Detected	0.00
DG-T17S-3.5-4 (720-91048-16)	B10601	No	None Detected	0.00
DG-T17S-7-7.5 (720-91048-17)	B10602	No	None Detected	0.00
DG-W15S-0.5-1 (720-91048-18)	B10603	No	None Detected	0.00
DG-W15S-3.5-4 (720-91048-19)	B10604	No	None Detected	0.00
DG-X17S-0.5-1 (720-91048-20)	B10605	No	None Detected	0.00
DG-X17S-3.5-4 (720-91048-21)	B10606	No	None Detected	0.00
DG-R13S-0.5-1 (720-91048-22)	B10607	No	None Detected	0.00
DUP-108 (720-91048-23)	B10608	No	None Detected	0.00
DUP-121 (720-91048-24)	B10609	No	None Detected	0.00
DG-R13S-3.5-4 (720-91048-25)	B10610	No	None Detected	0.00
DG-Z13S-0.5-1 (720-91048-26)	B10611	No	None Detected	0.00
DG-Z13S-3.5-4 (720-91048-27)	B10612	No	None Detected	0.00
DG-AF13S-0.5-1 (720-91048-28)	B10613	No	None Detected	0.00
DG-AF13S-3.5-4 (720-91048-29)	B10614	No	None Detected	0.00

REVIEWED BY: _____

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

eurofins | CEI

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

B190666 (29) B105846 - B1D614

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40985.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/11/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-Z17S-0.5-1 (720-91048-1)	1/28/19	08:10 Pacific		Solid			X	1	
DG-Z17S-3.5-4 (720-91048-2)	1/28/19	08:10 Pacific		Solid			X	1	
DG-Z17S-7.5-8 (720-91048-3)	1/28/19	08:10 Pacific		Solid			X	1	
DG-Y19S-0.5-1 (720-91048-4)	1/28/19	08:40 Pacific		Solid			X	1	
DG-Y19S-3.5-4 (720-91048-5)	1/28/19	08:40 Pacific		Solid			X	1	
DG-Y19S-7.5-8 (720-91048-6)	1/28/19	08:40 Pacific		Solid			X	1	
DG-V17S-0.5-1 (720-91048-7)	1/28/19	09:20 Pacific		Solid			X	1	
DG-V17S-3.5-4 (720-91048-8)	1/28/19	09:20 Pacific		Solid			X	1	
DG-V17S-9.5-10 (720-91048-9)	1/28/19	09:20 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 1/29/19 1210	Company TADU	Received by:	Date/Time: 1/30 9:50	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

2/25/2019

Page 256 of 271

B190leeee

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40985.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/11/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-U17S-0.5-1 (720-91048-10)	1/28/19	09:50 Pacific		Solid			X	1	
DUP-122 (720-91048-11)	1/28/19	Pacific		Solid			X	1	
DUP-124 (720-91048-12)	1/28/19	Pacific		Solid			X	1	
DG-U15S-3.5-4 (720-91048-13)	1/28/19	09:50 Pacific		Solid			X	1	
DG-U15S-8.5-9 (720-91048-14)	1/28/19	09:50 Pacific		Solid			X	1	
DG-T17S-0.5-1 (720-91048-15)	1/28/19	10:30 Pacific		Solid			X	1	
DG-T17S-3.5-4 (720-91048-16)	1/28/19	10:30 Pacific		Solid			X	1	
DG-T17S-7-7.5 (720-91048-17)	1/28/19	10:30 Pacific		Solid			X	1	
DG-W15S-0.5-1 (720-91048-18)	1/28/19	11:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/29/19 1240	TAPL			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Biadelle

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40985.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/11/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-W15S-3.5-4 (720-91048-19)	1/28/19	11:00 Pacific		Solid			X	1	
DG-X17S-0.5-1 (720-91048-20)	1/28/19	11:30 Pacific		Solid			X	1	
DG-X17S-3.5-4 (720-91048-21)	1/28/19	11:30 Pacific		Solid			X	1	
DG-R13S-0.5-1 (720-91048-22)	1/28/19	13:00 Pacific		Solid			X	1	
DUP-108 (720-91048-23)	1/28/19	Pacific		Solid			X	1	
DUP-121 (720-91048-24)	1/28/19	Pacific		Solid			X	1	
DG-R13S-3.5-4 (720-91048-25)	1/28/19	13:00 Pacific		Solid			X	1	
DG-Z13S-0.5-1 (720-91048-26)	1/28/19	13:30 Pacific		Solid			X	1	
DG-Z13S-3.5-4 (720-91048-27)	1/28/19	13:30 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/29/19 1210	TAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

B190111C6

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40985.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/11/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AF13S-0.5-1 (720-91048-28)	1/28/19	15:00 Pacific		Solid			X	1	
DG-AF13S-3.5-4 (720-91048-29)	1/28/19	15:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 1/29/19 1210	Company TAPES	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

2/25/2019

Page 259 of 271

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91048

Chain of Custody Record

188135

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 28 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaetzman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91048 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
1	DG-Z17s-0.5-1	28 Jan. 2019	0810	G	S	7	N		X	X	X	X	X	X	X	
2	DG-Z17s-3.5-4	↓	0810	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	
3	DG-Z17s-7.5-8		0810													
4	DG-Y19s-0.5-1		0840													
5	DG-Y19s-3.5-4		0840													
6	DG-Y19s-7.5-8		0840													
7	DG-V17s-0.5-1		0920													
8	DG-V17s-3.5-4		0920													
9	DG-V17s-9.5-10		0920													
10	DG-U15s-0.5-1		0950													
11	DUP-122		—													
12	DUP-124	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

13.5°C / 15.2°C / 6.7°C / 16.4°C / 2.2°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company: Geosyntec	Date/Time: 1624 28 Jan. 2019	Received by	Company: S.C.S	Date/Time: 1-28-19 16:20
Relinquished by	Company: S.C.S	Date/Time: 1-28-19 1820	Received by	Company: TAPLS	Date/Time: 1/28/19 1820
Relinquished by	Company	Date/Time:	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/25/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

188135

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 28 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schatman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client.
bchen@geosyntec.com, mkahnias@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13	DG-U15s-3.5-4	28 Jan. 2019	0950	G	S	7	N		X	X	X	X	X	X	X	
14	DG-U15s-8.5-9		0950													
15	DG-T17s-0.5-1		1030													
16	DG-T17s-3.5-4		1030					Y								
17	DG-T17s-7-7.5		1030													
18	DG-W15s-0.5-1		1100													
19	DG-W15s-3.5-4		1100					Y								
20	DG-X17s-0.5-1		1130													
21	DG-X17s-3.5-4		1130													
22	DG-R13s-0.5-1		1300													
23	DUP-108		—													
24	DUP-121	↓	—	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		16.20
Relinquished by Nate Fukita	Company Geosyntec	Date/Time 1620 28 Jan. 2019	Received by Nagat R	Company C.C.S	Date/Time 1-28-19
Relinquished by Nagat R	Company C.C.S	Date/Time 1-28-19 1620	Received by	Company TAPLS	Date/Time 1/28/19 1820
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Page 26 of 27

2/25/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188135

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schachman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
25. DG-R13s-3.5-4	28 Jan. 2019	1300	G	S	7	N		X	X	X	X	X	X	X	
26. DG-Z13s-0.5-1		1330													
27. DG-Z13s-3.5-4		1330													
28. DG-AF13s-0.5-1		1500													
29. DG-AF13s-3.5-4		1500													
30. FB-1.28.2019		—													
31. TB-01.28.19															
1/30/19															

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company Geosyntec	Date/Time 1620 28 Jan 2019	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3090	COC No: 720-40986.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	3260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-Z17S-0.5-1 (720-91048-1)	1/28/19	08:10 Pacific		Solid			X	X	X			5	
DG-Z17S-3.5-4 (720-91048-2)	1/28/19	08:10 Pacific		Solid			X	X	X			5	
DG-Z17S-7.5-8 (720-91048-3)	1/28/19	08:10 Pacific		Solid			X	X	X			5	
DG-Y19S-0.5-1 (720-91048-4)	1/28/19	08:40 Pacific		Solid			X	X	X			5	
DG-Y19S-3.5-4 (720-91048-5)	1/28/19	08:40 Pacific		Solid			X	X	X			5	
DG-Y19S-7.5-8 (720-91048-6)	1/28/19	08:40 Pacific		Solid			X	X	X			5	
DG-V17S-0.5-1 (720-91048-7)	1/28/19	09:20 Pacific		Solid			X	X	X			5	
DG-V17S-3.5-4 (720-91048-8)	1/28/19	09:20 Pacific		Solid			X	X	X			5	
DG-V17S-9.5-10 (720-91048-9)	1/28/19	09:20 Pacific		Solid			X	X	X			5	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/29/19 1234	TAPL			
2	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by: Clara Cuevas	Date/Time: 1/30/19 1015	Company: TAPLV

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.: Terracores 1288 -27.0/-27.0
Cooler Temperature(s) °C and Other Remarks: 2.8/1.8 2.6/1.6 IR-66

Ver: 09/20/2016

Encores or Terracores Frozen Date: 01/30/19 Time: 12:19 Initials: CC

2/25/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40986.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-U17S-0.5-1 (720-91048-10)	1/28/19	09:50 Pacific		Solid				X	X	X			5	
DUP-122 (720-91048-11)	1/28/19	Pacific		Solid				X	X	X			5	
DUP-124 (720-91048-12)	1/28/19	Pacific		Solid				X	X	X			5	
DG-U15S-3.5-4 (720-91048-13)	1/28/19	09:50 Pacific		Solid				X	X	X			5	
DG-U15S-8.5-9 (720-91048-14)	1/28/19	09:50 Pacific		Solid				X	X	X			5	
DG-T17S-0.5-1 (720-91048-15)	1/28/19	10:30 Pacific		Solid				X	X	X			5	
DG-T17S-3.5-4 (720-91048-16)	1/28/19	10:30 Pacific		Solid				X	X	X			4	
DG-T17S-3.5-4 (720-91048-16MS)	1/28/19	10:30 Pacific	MS	Solid				X	X	X			3	
DG-T17S-3.5-4 (720-91048-16MSD)	1/28/19	10:30 Pacific	MSD	Solid				X	X	X			2	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment
Relinquished by	Date/Time: 1/29/19 1234	Company TAPLS	Received by / Date/Time / Company
Relinquished by	Date/Time	Company	Received by / Date/Time / Company
Relinquished by	Date/Time	Company	Received by: Olga Olmedo / Date/Time 1/30/19 1015 / Company TALIKU
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No: 720-40986.3
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 17461 Denan Ave, Suite 100,	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #			
Email	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#			
Site:				

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-T17S-7-7.5 (720-91048-17)	1/28/19	10:30 Pacific		Solid			X	X	X			5	
DG-W15S-0.5-1 (720-91048-18)	1/28/19	11.00 Pacific		Solid			X	X	X			5	
DG-W15S-3.5-4 (720-91048-19)	1/28/19	11:00 Pacific		Solid			X	X	X			4	
DG-W15S-3 5-4 (720-91048-19MS)	1/28/19	11 00 Pacific	MS	Solid			X	X	X			3	
DG-W15S-3.5-4 (720-91048-19MSD)	1/28/19	11:00 Pacific	MSD	Solid			X	X	X			2	
DG-X17S-0.5-1 (720-91048-20)	1/28/19	11:30 Pacific		Solid			X	X	X			5	
DG-X17S-3.5-4 (720-91048-21)	1/28/19	11.30 Pacific		Solid			X	X	X			5	
DG-R13S-0.5-1 (720-91048-22)	1/28/19	13:00 Pacific		Solid			X	X	X			5	
DUP-108 (720-91048-23)	1/28/19	Pacific		Solid			X	X	X			5	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment			
Relinquished by	Date/Time: 1/29/19 1234	Company: TAPLS	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by: Olga Quelas	Date/Time: 1/30/19 1015	Company: TAIKU

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks:

Ver. 09/20/2016

2/25/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40986.4
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DUP-121 (720-91048-24)	1/28/19	Pacific		Solid			X	X	X			5	
DG-R13S-3.5-4 (720-91048-25)	1/28/19	13:00 Pacific		Solid			X	X	X			5	
DG-Z13S-0.5-1 (720-91048-26)	1/28/19	13.30 Pacific		Solid			X	X	X			5	
DG-Z13S-3.5-4 (720-91048-27)	1/28/19	13:30 Pacific		Solid			X	X	X			5	
DG-AF13S-0.5-1 (720-91048-28)	1/28/19	15:00 Pacific		Solid			X	X	X			5	
DG-AF13S-3.5-4 (720-91048-29)	1/28/19	15:00 Pacific		Solid			X	X	X			5	
FB-1 28.2019 (720-91048-30)	1/28/19	Pacific		Water						X	X	2	check for 2 phases
TB-1.28.2019 (720-91048-31)	1/28/19	Pacific		Water						X	X	2	check for 2 phases

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1/29/19 1234	TAPL			
Relinquished by:	Date/Time.	Company	Received by:	Date/Time	Company
Relinquished by	Date/Time.	Company	Received by: Olga Cruelas	1/30/19 1015	TALKU

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91048-1

Login Number: 91048
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91048-1

Login Number: 91048
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/30/19 01:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, February 21, 2019 11:12 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ-TestAmerica sample confirmation files from 720-91048-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Christian,

You do not need to include these in the report.

Thanks for checking,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
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From: Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Sent: Wednesday, February 20, 2019 11:07 AM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Subject: RE: PLEASE READ-TestAmerica sample confirmation files from 720-91048-1 Brisbane OU-2 Data Gap Investigation

Hello Miranda,

It looks like I missed mentioning this in the initial acknowledgements however the COC does not have any analyses checked for the EB and the TB. Could you please provide confirmation if you need these included in the report? We ran these samples.

Thank You,

Christian Bondoc

Main: 949-261-1022
Direct: 949-260-3271

E-mail: Christian.bondoc@testamericainc.com

From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Tuesday, January 29, 2019 2:35 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ-TestAmerica sample confirmation files from 720-91048-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Christian,

Yes please log per the COC and jars for #26 and #27.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Tuesday, January 29, 2019 11:16 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ-TestAmerica sample confirmation files from 720-91048-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-91048-1; Brisbane OU-2 Data Gap Investigation

(#26) DG-Z13S-0.5-1. The Terra core vial labels list DG-X13S-0.5-1 with a time of 13:30, while the COC and jars list DG-Z13S-0.5-1 with a time of 13:30:
(#27) DG-Z13S-3.5-4. The Terra core vial labels list DG-X13S-3.5-4 with a time of 13:30, while the COC and jars list DG-Z13S-3.5-4 with a time of 13:30.
These were logged in per the COC and jars. Please confirm if this is correct.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [498485]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91051-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/18/2019 9:05:13 AM
Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91051-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91051-1

Comments
No additional comments.

Receipt
The samples were received on 1/28/2019 6:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.2º C, 6.7º C, 13.5º C, 15.2º C and 16.4º C.

Receipt Exceptions
Some of the coolers were received at the laboratory outside the required temperature criteria. The samples are considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS VOA
Method, 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-527523 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The continuing calibration verification (CCV) associated with batch 440-526356 recovered above the upper control limit for Benzo[a]anthracene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-X17W (720-91051-2). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: high hydrocarbons DG-X17W (720-91051-2) and DG-U15W (720-91051-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB but recoveries for target element passed criteria: (ICSA 720-259731/7) and (ICSAB 720-259731/8).

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259874 was outside control limits for Barium-22%: (720-91051-I-1-D SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526090 for 8015B_DRO. LCS was performed in duplicate to provide precision of data. .

Method 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume for 8015B_DRO: DG-U15W (720-91051-5). The reporting limits (RLs) are elevated proportionately.

Job ID: 720-91051-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526142 for 8270C-SIM-PAH. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Client Sample ID: DG-Z17W — Lab Sample ID: 720-91051-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	95		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
1,1-Dichloroethane	0.26	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.43	J	1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.32	J	0.50	0.25	ug/L	1		8260B	Total/NA
Acenaphthene	0.35		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.26		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2400		520	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1400		520	100	ug/L	1		8015B	Total/NA
Barium	96		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.0	J	10	0.70	ug/L	1		6010B	Dissolved
Molybdenum	2.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.3	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.2	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-X17W — Lab Sample ID: 720-91051-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	67		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Fluoranthene	1.1	J	2.1	1.1	ug/L	10		8270C SIM	Total/NA
Pyrene	1.7	J	2.1	1.1	ug/L	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2000		510	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	490	J	510	100	ug/L	1		8015B	Total/NA
Antimony	6.0	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	3.8	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	52		50	1.6	ug/L	1		6010B	Dissolved
Copper	4.7	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	3.5	J	10	2.9	ug/L	1		6010B	Dissolved
Vanadium	1.5	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-V17W — Lab Sample ID: 720-91051-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.46	J	0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	300	J	520	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	290	J	520	100	ug/L	1		8015B	Total/NA
Antimony	5.5	J	10	4.1	ug/L	1		6010B	Dissolved
Barium	61		50	1.6	ug/L	1		6010B	Dissolved
Molybdenum	5.8	J	10	2.9	ug/L	1		6010B	Dissolved
Selenium	6.9	J	20	4.6	ug/L	1		6010B	Dissolved

Client Sample ID: DG-Y19W — Lab Sample ID: 720-91051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.26	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.32		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.29		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.19	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluorene	0.33		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Phenanthrene	1.5		0.20	0.099	ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y19W (Continued) — Lab Sample ID: 720-91051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.42		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.44		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Chrysene	0.52		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.41		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.39		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.14	J	0.20	0.099	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.21		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.21		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.89		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Pyrene	1.1		0.20	0.099	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	560		510	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	300	J	510	100	ug/L	1		8015B	Total/NA
Arsenic	20		10	2.9	ug/L	1		6010B	Dissolved
Barium	390		50	1.6	ug/L	1		6010B	Dissolved
Chromium	3.9	J	10	0.70	ug/L	1		6010B	Dissolved
Copper	20		20	3.7	ug/L	1		6010B	Dissolved
Lead	59		5.0	2.2	ug/L	1		6010B	Dissolved
Nickel	2.0	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	3.7	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	27		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-U15W — Lab Sample ID: 720-91051-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	36	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	0.78		0.50	0.25	ug/L	1		8260B	Total/NA
Fluoranthene	0.20	J	0.41	0.20	ug/L	2		8270C SIM	Total/NA
Pyrene	0.39	J	0.41	0.20	ug/L	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2700		1000	210	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2700		1000	210	ug/L	1		8015B	Total/NA
Arsenic	3.8	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	49	J	50	1.6	ug/L	1		6010B	Dissolved
Molybdenum	3.8	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.7	J	10	1.0	ug/L	1		6010B	Dissolved
Mercury	0.23		0.20	0.10	ug/L	1		7470A	Dissolved

Client Sample ID: TB-01.28.19 — Lab Sample ID: 720-91051-6

No Detections.

Client Sample ID: FB-01.28.19 — Lab Sample ID: 720-91051-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	48		20	10	ug/L	1		8260B	Total/NA
Xylenes, Total	0.76	J	1.0	0.50	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z17W

Date Collected: 01/28/19 11:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-1

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**95**		50	35	ug/L			02/07/19 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*02/07/19 12:31*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/07/19 12:31*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/07/19 12:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Acetone	ND		20	10	ug/L			02/07/19 12:31	1
Benzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Bromobenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Bromoform	ND		1.0	0.40	ug/L			02/07/19 12:31	1
Bromomethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/07/19 12:31	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/07/19 12:31	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/07/19 12:31	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Chloroethane	ND		1.0	0.40	ug/L			02/07/19 12:31	1
Chloroform	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Chloromethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/07/19 12:31	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Dibromomethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/07/19 12:31	1
1,1-Dichloroethane	**0.26**	**J**	0.50	0.25	ug/L			02/07/19 12:31	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/07/19 12:31	1

Client Sample ID: DG-Z17W
Date Collected: 01/28/19 11:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/07/19 12:31	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/07/19 12:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/07/19 12:31	1
Naphthalene	**0.43**	**J**	1.0	0.40	ug/L			02/07/19 12:31	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Styrene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Toluene	**0.32**	**J**	0.50	0.25	ug/L			02/07/19 12:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 12:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 12:31	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Trichloroethene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/07/19 12:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/07/19 12:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/07/19 12:31	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/07/19 12:31	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/07/19 12:31	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/07/19 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*02/07/19 12:31*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/07/19 12:31*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Acenaphthene	**0.35**		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Fluorene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Phenanthrene	**0.26**		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Chrysene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:17	1

Client Sample ID: DG-Z17W

Date Collected: 01/28/19 11:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*38 - 120*	*01/31/19 13:42*	*02/04/19 18:17*	*1*
Nitrobenzene-d5	*83*		*10 - 120*	*01/31/19 13:42*	*02/04/19 18:17*	*1*
Terphenyl-d14	*74*		*21 - 120*	*01/31/19 13:42*	*02/04/19 18:17*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2400**		520	100	ug/L		01/31/19 10:41	02/01/19 23:42	1
Motor Oil Range Organics [C24-C36]	**1400**		520	100	ug/L		01/31/19 10:41	02/01/19 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*92*		*45 - 120*	*01/31/19 10:41*	*02/01/19 23:42*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 16:00	1
Arsenic	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 16:00	1
Barium	**96**		50	1.6	ug/L		02/01/19 10:32	02/02/19 16:00	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:00	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:00	1
Chromium	**1.0**	**J**	10	0.70	ug/L		02/01/19 10:32	02/02/19 16:00	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:00	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 16:00	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:00	1
Molybdenum	**2.9**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:00	1
Nickel	**1.3**	**J**	10	1.0	ug/L		02/01/19 10:32	02/02/19 16:00	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:00	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:00	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 17:09	1
Vanadium	**1.2**	**J**	10	0.87	ug/L		02/01/19 10:32	02/02/19 16:00	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:00	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/28/19 21:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Client Sample ID: DG-X17W
Date Collected: 01/28/19 13:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	67		50	35	ug/L			02/07/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/07/19 17:44*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/07/19 17:44*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*02/07/19 17:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Acetone	ND		20	10	ug/L			02/07/19 17:44	1
Benzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Bromobenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Bromoform	ND		1.0	0.40	ug/L			02/07/19 17:44	1
Bromomethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/07/19 17:44	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/07/19 17:44	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/07/19 17:44	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Chloroethane	ND		1.0	0.40	ug/L			02/07/19 17:44	1
Chloroform	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Chloromethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/07/19 17:44	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Dibromomethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/07/19 17:44	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/07/19 17:44	1

Client Sample ID: DG-X17W
Date Collected: 01/28/19 13:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/07/19 17:44	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/07/19 17:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/07/19 17:44	1
Naphthalene	ND		1.0	0.40	ug/L			02/07/19 17:44	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Styrene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Toluene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 17:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 17:44	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Trichloroethene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/07/19 17:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/07/19 17:44	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/07/19 17:44	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/07/19 17:44	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/07/19 17:44	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/07/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*02/07/19 17:44*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*02/07/19 17:44*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Acenaphthene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Acenaphthylene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Fluorene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Phenanthrene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Anthracene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Benzo[a]anthracene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Chrysene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Benzo[a]pyrene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Benzo[b]fluoranthene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Benzo[k]fluoranthene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Benzo[g,h,i]perylene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Indeno[1,2,3-cd]pyrene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Fluoranthene	**1.1**	**J**	2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Pyrene	**1.7**	**J**	2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10
Dibenz(a,h)anthracene	ND		2.1	1.1	ug/L		01/31/19 13:42	02/06/19 12:47	10

Client Sample ID: DG-X17W

Date Collected: 01/28/19 13:20
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*38 - 120*	*01/31/19 13:42*	*02/06/19 12:47*	*10*
Nitrobenzene-d5	*101*		*10 - 120*	*01/31/19 13:42*	*02/06/19 12:47*	*10*
Terphenyl-d14	*75*		*21 - 120*	*01/31/19 13:42*	*02/06/19 12:47*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2000**		510	100	ug/L		01/31/19 10:41	02/01/19 23:22	1
Motor Oil Range Organics [C24-C36]	**490**	**J**	510	100	ug/L		01/31/19 10:41	02/01/19 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*45 - 120*	*01/31/19 10:41*	*02/01/19 23:22*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**6.0**	**J**	10	4.1	ug/L		02/01/19 10:32	02/02/19 16:05	1
Arsenic	**3.8**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:05	1
Barium	**52**		50	1.6	ug/L		02/01/19 10:32	02/02/19 16:05	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:05	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:05	1
Chromium	ND		10	0.70	ug/L		02/01/19 10:32	02/02/19 16:05	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:05	1
Copper	**4.7**	**J**	20	3.7	ug/L		02/01/19 10:32	02/02/19 16:05	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:05	1
Molybdenum	**3.5**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:05	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 16:05	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:05	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:05	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 17:14	1
Vanadium	**1.5**	**J**	10	0.87	ug/L		02/01/19 10:32	02/02/19 16:05	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:05	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/28/19 21:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Client Sample ID: DG-V17W
Date Collected: 01/28/19 14:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/07/19 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/07/19 18:12*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*02/07/19 18:12*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/07/19 18:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Acetone	ND		20	10	ug/L			02/07/19 18:12	1
Benzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Bromobenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Bromoform	ND		1.0	0.40	ug/L			02/07/19 18:12	1
Bromomethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/07/19 18:12	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/07/19 18:12	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/07/19 18:12	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Chloroethane	ND		1.0	0.40	ug/L			02/07/19 18:12	1
Chloroform	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Chloromethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/07/19 18:12	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Dibromomethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/07/19 18:12	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/07/19 18:12	1

Client Sample ID: DG-V17W
Date Collected: 01/28/19 14:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/07/19 18:12	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/07/19 18:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/07/19 18:12	1
Naphthalene	ND		1.0	0.40	ug/L			02/07/19 18:12	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Styrene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Toluene	**0.46**	**J**	0.50	0.25	ug/L			02/07/19 18:12	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 18:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 18:12	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Trichloroethene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/07/19 18:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/07/19 18:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/07/19 18:12	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/07/19 18:12	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/07/19 18:12	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/07/19 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*02/07/19 18:12*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/07/19 18:12*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Acenaphthene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Acenaphthylene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Fluorene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Phenanthrene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Anthracene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Chrysene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Fluoranthene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Pyrene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		01/31/19 13:42	02/04/19 17:31	1

Client Sample ID: DG-V17W

Date Collected: 01/28/19 14:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*38 - 120*	*01/31/19 13:42*	*02/04/19 17:31*	*1*
Nitrobenzene-d5	*73*		*10 - 120*	*01/31/19 13:42*	*02/04/19 17:31*	*1*
Terphenyl-d14	*61*		*21 - 120*	*01/31/19 13:42*	*02/04/19 17:31*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**300**	**J**	520	100	ug/L		01/31/19 10:41	02/02/19 00:43	1
Motor Oil Range Organics [C24-C36]	**290**	**J**	520	100	ug/L		01/31/19 10:41	02/02/19 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*88*		*45 - 120*	*01/31/19 10:41*	*02/02/19 00:43*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.5**	**J**	10	4.1	ug/L		02/01/19 10:32	02/02/19 16:20	1
Arsenic	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 16:20	1
Barium	**61**		50	1.6	ug/L		02/01/19 10:32	02/02/19 16:20	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:20	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:20	1
Chromium	ND		10	0.70	ug/L		02/01/19 10:32	02/02/19 16:20	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:20	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 16:20	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:20	1
Molybdenum	**5.8**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:20	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 16:20	1
Selenium	**6.9**	**J**	20	4.6	ug/L		02/01/19 10:32	02/02/19 16:20	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:20	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 17:19	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 16:20	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:20	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/28/19 21:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Client Sample ID: DG-Y19W
Date Collected: 01/28/19 14:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/07/19 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*02/07/19 18:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*02/07/19 18:41*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/07/19 18:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Acetone	ND		20	10	ug/L			02/07/19 18:41	1
Benzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Bromobenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Bromoform	ND		1.0	0.40	ug/L			02/07/19 18:41	1
Bromomethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/07/19 18:41	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/07/19 18:41	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/07/19 18:41	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Chloroethane	ND		1.0	0.40	ug/L			02/07/19 18:41	1
Chloroform	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Chloromethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/07/19 18:41	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Dibromomethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/07/19 18:41	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/07/19 18:41	1

Client Sample ID: DG-Y19W

Date Collected: 01/28/19 14:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/07/19 18:41	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/07/19 18:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/07/19 18:41	1
Naphthalene	ND		1.0	0.40	ug/L			02/07/19 18:41	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Styrene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Toluene	**0.26**	**J**	0.50	0.25	ug/L			02/07/19 18:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 18:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 18:41	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Trichloroethene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/07/19 18:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/07/19 18:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/07/19 18:41	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/07/19 18:41	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/07/19 18:41	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/07/19 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*02/07/19 18:41*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/07/19 18:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.32**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Acenaphthene	**0.29**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Acenaphthylene	**0.19**	**J**	0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Fluorene	**0.33**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Phenanthrene	**1.5**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Anthracene	**0.42**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Benzo[a]anthracene	**0.44**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Chrysene	**0.52**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Benzo[a]pyrene	**0.41**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Benzo[b]fluoranthene	**0.39**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Benzo[k]fluoranthene	**0.14**	**J**	0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Benzo[g,h,i]perylene	**0.21**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Indeno[1,2,3-cd]pyrene	**0.21**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Fluoranthene	**0.89**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Pyrene	**1.1**		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1
Dibenz(a,h)anthracene	ND		0.20	0.099	ug/L		01/31/19 13:42	02/04/19 17:54	1

Client Sample ID: DG-Y19W

Date Collected: 01/28/19 14:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*38 - 120*	*01/31/19 13:42*	*02/04/19 17:54*	*1*
Nitrobenzene-d5	*79*		*10 - 120*	*01/31/19 13:42*	*02/04/19 17:54*	*1*
Terphenyl-d14	*76*		*21 - 120*	*01/31/19 13:42*	*02/04/19 17:54*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**560**		510	100	ug/L		01/31/19 10:41	02/02/19 01:04	1
Motor Oil Range Organics [C24-C36]	**300**	**J**	510	100	ug/L		01/31/19 10:41	02/02/19 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*01/31/19 10:41*	*02/02/19 01:04*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 16:24	1
Arsenic	**20**		10	2.9	ug/L		02/01/19 10:32	02/02/19 16:24	1
Barium	**390**		50	1.6	ug/L		02/01/19 10:32	02/02/19 16:24	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:24	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:24	1
Chromium	**3.9**	**J**	10	0.70	ug/L		02/01/19 10:32	02/02/19 16:24	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:24	1
Copper	**20**		20	3.7	ug/L		02/01/19 10:32	02/02/19 16:24	1
Lead	**59**		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:24	1
Molybdenum	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 16:24	1
Nickel	**2.0**	**J**	10	1.0	ug/L		02/01/19 10:32	02/02/19 16:24	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:24	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:24	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 17:23	1
Vanadium	**3.7**	**J**	10	0.87	ug/L		02/01/19 10:32	02/02/19 16:24	1
Zinc	**27**		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/28/19 21:09	1

Client Sample ID: DG-U15W

Date Collected: 01/28/19 15:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-5

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	36	J	50	35	ug/L			02/08/19 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/08/19 12:47*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*02/08/19 12:47*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/08/19 12:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Acetone	ND		20	10	ug/L			02/08/19 12:47	1
Benzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Bromobenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Bromoform	ND		1.0	0.40	ug/L			02/08/19 12:47	1
Bromomethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/08/19 12:47	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/08/19 12:47	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/08/19 12:47	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Chloroethane	ND		1.0	0.40	ug/L			02/08/19 12:47	1
Chloroform	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Chloromethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/08/19 12:47	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Dibromomethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/08/19 12:47	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/08/19 12:47	1

Client Sample ID: DG-U15W
Date Collected: 01/28/19 15:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/08/19 12:47	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/08/19 12:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/08/19 12:47	1
Naphthalene	ND		1.0	0.40	ug/L			02/08/19 12:47	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Styrene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Toluene	**0.78**		0.50	0.25	ug/L			02/08/19 12:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/08/19 12:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/08/19 12:47	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Trichloroethene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/08/19 12:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/08/19 12:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/08/19 12:47	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/08/19 12:47	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/08/19 12:47	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/08/19 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*02/08/19 12:47*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/08/19 12:47*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Acenaphthene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Acenaphthylene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Fluorene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Phenanthrene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Anthracene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Benzo[a]anthracene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Chrysene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Benzo[a]pyrene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Benzo[b]fluoranthene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Benzo[k]fluoranthene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Benzo[g,h,i]perylene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Indeno[1,2,3-cd]pyrene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Fluoranthene	**0.20**	**J**	0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Pyrene	**0.39**	**J**	0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2
Dibenz(a,h)anthracene	ND		0.41	0.20	ug/L		01/31/19 13:42	02/06/19 13:10	2

Client Sample ID: DG-U15W

Date Collected: 01/28/19 15:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*	*01/31/19 13:42*	*02/06/19 13:10*	*2*
Nitrobenzene-d5	*78*		*10 - 120*	*01/31/19 13:42*	*02/06/19 13:10*	*2*
Terphenyl-d14	*77*		*21 - 120*	*01/31/19 13:42*	*02/06/19 13:10*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2700**		1000	210	ug/L		01/31/19 10:41	02/02/19 00:03	1
Motor Oil Range Organics [C24-C36]	**2700**		1000	210	ug/L		01/31/19 10:41	02/02/19 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*90*		*45 - 120*	*01/31/19 10:41*	*02/02/19 00:03*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 16:29	1
Arsenic	**3.8**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:29	1
Barium	**49**	**J**	50	1.6	ug/L		02/01/19 10:32	02/02/19 16:29	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:29	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:29	1
Chromium	ND		10	0.70	ug/L		02/01/19 10:32	02/02/19 16:29	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:29	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 16:29	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:29	1
Molybdenum	**3.8**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:29	1
Nickel	**1.7**	**J**	10	1.0	ug/L		02/01/19 10:32	02/02/19 16:29	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:29	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:29	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 17:38	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 16:29	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:29	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/28/19 21:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Client Sample ID: TB-01.28.19
Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/08/19 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*02/08/19 13:15*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/08/19 13:15*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/08/19 13:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Acetone	ND		20	10	ug/L			02/08/19 13:15	1
Benzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Bromobenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Bromoform	ND		1.0	0.40	ug/L			02/08/19 13:15	1
Bromomethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/08/19 13:15	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/08/19 13:15	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/08/19 13:15	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Chloroethane	ND		1.0	0.40	ug/L			02/08/19 13:15	1
Chloroform	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Chloromethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/08/19 13:15	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Dibromomethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/08/19 13:15	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/08/19 13:15	1

Client Sample ID: TB-01.28.19
Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/08/19 13:15	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/08/19 13:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/08/19 13:15	1
Naphthalene	ND		1.0	0.40	ug/L			02/08/19 13:15	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Styrene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Toluene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/08/19 13:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/08/19 13:15	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Trichloroethene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/08/19 13:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/08/19 13:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/08/19 13:15	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/08/19 13:15	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/08/19 13:15	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/08/19 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*02/08/19 13:15*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/08/19 13:15*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Client Sample ID: FB-01.28.19
Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/08/19 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/08/19 13:44*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*02/08/19 13:44*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/08/19 13:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Acetone	**48**		20	10	ug/L			02/08/19 13:44	1
Benzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Bromobenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Bromoform	ND		1.0	0.40	ug/L			02/08/19 13:44	1
Bromomethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/08/19 13:44	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/08/19 13:44	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/08/19 13:44	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Chloroethane	ND		1.0	0.40	ug/L			02/08/19 13:44	1
Chloroform	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Chloromethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/08/19 13:44	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Dibromomethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/08/19 13:44	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/08/19 13:44	1

Client Sample ID: FB-01.28.19
Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/08/19 13:44	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/08/19 13:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/08/19 13:44	1
Naphthalene	ND		1.0	0.40	ug/L			02/08/19 13:44	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Styrene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Toluene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/08/19 13:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/08/19 13:44	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Trichloroethene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/08/19 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/08/19 13:44	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/08/19 13:44	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/08/19 13:44	1
Xylenes, Total	**0.76**	**J**	1.0	0.50	ug/L			02/08/19 13:44	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/08/19 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*02/08/19 13:44*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/08/19 13:44*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
550-117465-A-1 MS	Matrix Spike	110	92
550-117465-A-1 MSD	Matrix Spike Duplicate	132 X	91
720-91051-1	DG-Z17W	107	103
720-91051-1 MS	DG-Z17W	99	99
720-91051-1 MSD	DG-Z17W	104	99
720-91051-2	DG-X17W	109	106
720-91051-3	DG-V17W	112	104
720-91051-4	DG-Y19W	109	107
720-91051-5	DG-U15W	118	104
720-91051-6	TB-01.28.19	120	104
720-91051-7	FB-01.28.19	116	102
LCS 440-527261/10	Lab Control Sample	119	98
LCS 440-527523/5	Lab Control Sample	115	101
LCSD 440-527523/6	Lab Control Sample Dup	113	99
MB 440-527261/9	Method Blank	115	103
MB 440-527523/4	Method Blank	113	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
550-117465-A-1 MS	Matrix Spike	111	100	92
550-117465-A-1 MSD	Matrix Spike Duplicate	117	105	91
720-91051-1	DG-Z17W	105	107	103
720-91051-1 MS	DG-Z17W	104	104	99
720-91051-1 MSD	DG-Z17W	105	102	99
720-91051-2	DG-X17W	110	106	106
720-91051-3	DG-V17W	108	109	104
720-91051-4	DG-Y19W	105	102	107
720-91051-5	DG-U15W	110	110	104
720-91051-6	TB-01.28.19	113	107	104
720-91051-7	FB-01.28.19	108	112	102
LCS 440-527262/11	Lab Control Sample	111	110	105
LCS 440-527524/7	Lab Control Sample	107	109	104
MB 440-527262/9	Method Blank	110	108	103
MB 440-527524/4	Method Blank	111	108	103

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-91051-1	DG-Z17W	84	83	74
720-91051-2	DG-X17W	86	101	75
720-91051-3	DG-V17W	83	73	61
720-91051-4	DG-Y19W	95	79	76
720-91051-5	DG-U15W	81	78	77
LCS 440-526142/2-A	Lab Control Sample	93	103	89
LCSD 440-526142/3-A	Lab Control Sample Dup	78	86	87
MB 440-526142/1-A	Method Blank	87	92	98

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-91051-1	DG-Z17W	92
720-91051-2	DG-X17W	81
720-91051-3	DG-V17W	88
720-91051-4	DG-Y19W	70
720-91051-5	DG-U15W	90
LCS 440-526090/2-A	Lab Control Sample	110
LCSD 440-526090/3-A	Lab Control Sample Dup	75
MB 440-526090/1-A	Method Blank	75

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-527261/9
Matrix: Water
Analysis Batch: 527261

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Acetone	ND		20	10	ug/L			02/07/19 11:06	1
Benzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Bromobenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Bromoform	ND		1.0	0.40	ug/L			02/07/19 11:06	1
Bromomethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/07/19 11:06	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/07/19 11:06	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/07/19 11:06	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Chloroethane	ND		1.0	0.40	ug/L			02/07/19 11:06	1
Chloroform	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Chloromethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/07/19 11:06	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Dibromomethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/07/19 11:06	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
2-Hexanone	ND		5.0	2.5	ug/L			02/07/19 11:06	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/07/19 11:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/07/19 11:06	1
Naphthalene	ND		1.0	0.40	ug/L			02/07/19 11:06	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Styrene	ND		0.50	0.25	ug/L			02/07/19 11:06	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527261/9
Matrix: Water
Analysis Batch: 527261

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Toluene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 11:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/07/19 11:06	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Trichloroethene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/07/19 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/07/19 11:06	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/07/19 11:06	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/07/19 11:06	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/07/19 11:06	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/07/19 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*02/07/19 11:06*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/07/19 11:06*	*1*

Lab Sample ID: LCS 440-527261/10
Matrix: Water
Analysis Batch: 527261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	30.7		ug/L		123	63 - 131
Acetone	25.0	24.5		ug/L		98	10 - 150
Benzene	25.0	25.9		ug/L		104	68 - 130
Dichlorobromomethane	25.0	28.8		ug/L		115	70 - 132
Bromobenzene	25.0	26.7		ug/L		107	70 - 130
Chlorobromomethane	25.0	28.5		ug/L		114	70 - 130
Bromoform	25.0	25.5		ug/L		102	60 - 148
Bromomethane	25.0	25.5		ug/L		102	64 - 139
2-Butanone (MEK)	25.0	21.5		ug/L		86	44 - 150
n-Butylbenzene	25.0	27.5		ug/L		110	65 - 150
sec-Butylbenzene	25.0	25.3		ug/L		101	70 - 138
tert-Butylbenzene	25.0	25.5		ug/L		102	70 - 130
Carbon disulfide	25.0	24.4		ug/L		98	52 - 136
Carbon tetrachloride	25.0	25.4		ug/L		102	60 - 150
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Chloroethane	25.0	25.7		ug/L		103	64 - 135
Chloroform	25.0	24.4		ug/L		98	70 - 130
Chloromethane	25.0	23.2		ug/L		93	47 - 140
2-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
4-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527261/10
Matrix: Water
Analysis Batch: 527261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	26.6		ug/L		107	69 - 145
1,2-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,3-Dichlorobenzene	25.0	27.1		ug/L		108	70 - 130
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	25.1		ug/L		100	70 - 130
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.9		ug/L		99	52 - 140
Ethylene Dibromide	25.0	26.1		ug/L		104	70 - 130
Dibromomethane	25.0	25.2		ug/L		101	70 - 130
Dichlorodifluoromethane	25.0	23.9		ug/L		96	29 - 150
1,1-Dichloroethane	25.0	26.5		ug/L		106	64 - 130
1,2-Dichloroethane	25.0	28.4		ug/L		114	57 - 138
1,1-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
cis-1,2-Dichloroethene	25.0	28.4		ug/L		114	70 - 133
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130
1,2-Dichloropropane	25.0	26.8		ug/L		107	67 - 130
cis-1,3-Dichloropropene	25.0	28.4		ug/L		114	70 - 133
trans-1,3-Dichloropropene	25.0	27.3		ug/L		109	70 - 132
Ethylbenzene	25.0	24.3		ug/L		97	70 - 130
Hexachlorobutadiene	25.0	27.7		ug/L		111	10 - 150
2-Hexanone	25.0	21.1		ug/L		84	10 - 150
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 136
4-Isopropyltoluene	25.0	26.5		ug/L		106	70 - 132
Methylene Chloride	25.0	22.7		ug/L		91	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	21.5		ug/L		86	59 - 149
Naphthalene	25.0	25.1		ug/L		100	60 - 140
N-Propylbenzene	25.0	26.2		ug/L		105	67 - 139
Styrene	25.0	24.7		ug/L		99	70 - 134
1,1,1,2-Tetrachloroethane	25.0	25.9		ug/L		104	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		97	63 - 130
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130
Toluene	25.0	24.9		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	25.0	28.2		ug/L		113	60 - 140
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	60 - 140
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	70 - 130
1,1,2-Trichloroethane	25.0	27.0		ug/L		108	70 - 130
Trichloroethene	25.0	26.1		ug/L		105	70 - 130
Trichlorofluoromethane	25.0	25.2		ug/L		101	60 - 150
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.7		ug/L		99	60 - 140
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		105	70 - 135
1,3,5-Trimethylbenzene	25.0	26.5		ug/L		106	70 - 136
Vinyl acetate	25.0	27.4		ug/L		109	48 - 140
Vinyl chloride	25.0	23.7		ug/L		95	59 - 133
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 130
o-Xylene	25.0	25.5		ug/L		102	70 - 130
2,2-Dichloropropane	25.0	28.3		ug/L		113	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527261/10
Matrix: Water
Analysis Batch: 527261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91051-1 MS
Matrix: Water
Analysis Batch: 527261

Client Sample ID: DG-Z17W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	28.4		ug/L		114	70 - 130
Acetone	ND		25.0	24.1		ug/L		96	10 - 150
Benzene	ND		25.0	25.4		ug/L		102	66 - 130
Dichlorobromomethane	ND		25.0	28.3		ug/L		113	70 - 138
Bromobenzene	ND		25.0	26.1		ug/L		105	70 - 130
Chlorobromomethane	ND		25.0	26.1		ug/L		104	70 - 130
Bromoform	ND		25.0	24.8		ug/L		99	59 - 150
Bromomethane	ND		25.0	24.7		ug/L		99	62 - 131
2-Butanone (MEK)	ND		25.0	20.5		ug/L		82	48 - 140
n-Butylbenzene	ND		25.0	27.4		ug/L		110	61 - 149
sec-Butylbenzene	ND		25.0	25.4		ug/L		101	67 - 134
tert-Butylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
Carbon disulfide	ND		25.0	23.8		ug/L		95	49 - 140
Carbon tetrachloride	ND		25.0	26.2		ug/L		105	60 - 150
Chlorobenzene	ND		25.0	23.9		ug/L		96	70 - 130
Chloroethane	ND		25.0	25.2		ug/L		101	68 - 130
Chloroform	ND		25.0	23.2		ug/L		93	70 - 130
Chloromethane	ND		25.0	20.8		ug/L		83	39 - 144
2-Chlorotoluene	ND		25.0	23.7		ug/L		95	70 - 130
4-Chlorotoluene	ND		25.0	25.7		ug/L		103	70 - 130
Chlorodibromomethane	ND		25.0	26.4		ug/L		106	70 - 148
1,2-Dichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130
1,3-Dichloropropane	ND		25.0	25.3		ug/L		101	70 - 130
1,1-Dichloropropene	ND		25.0	27.1		ug/L		108	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	24.6		ug/L		98	48 - 140
Ethylene Dibromide	ND		25.0	24.6		ug/L		99	70 - 131
Dibromomethane	ND		25.0	24.3		ug/L		97	70 - 130
Dichlorodifluoromethane	ND		25.0	21.3		ug/L		85	25 - 142
1,1-Dichloroethane	0.26	J	25.0	26.4		ug/L		105	65 - 130
1,2-Dichloroethane	ND		25.0	27.5		ug/L		110	56 - 146
1,1-Dichloroethene	ND		25.0	23.9		ug/L		96	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.9		ug/L		108	70 - 130
trans-1,2-Dichloroethene	ND		25.0	26.4		ug/L		106	70 - 130
1,2-Dichloropropane	ND		25.0	27.2		ug/L		109	69 - 130
cis-1,3-Dichloropropene	ND		25.0	28.1		ug/L		112	70 - 133
trans-1,3-Dichloropropene	ND		25.0	26.9		ug/L		108	70 - 138
Ethylbenzene	ND		25.0	25.0		ug/L		100	70 - 130
Hexachlorobutadiene	ND		25.0	29.5		ug/L		118	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91051-1 MS
Matrix: Water
Analysis Batch: 527261

Client Sample ID: DG-Z17W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	21.9		ug/L		88	10 - 150
Isopropylbenzene	ND		25.0	25.9		ug/L		103	70 - 132
4-Isopropyltoluene	ND		25.0	26.3		ug/L		105	70 - 130
Methylene Chloride	ND		25.0	22.6		ug/L		90	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	22.5		ug/L		90	52 - 150
Naphthalene	0.43	J	25.0	25.7		ug/L		101	60 - 140
N-Propylbenzene	ND		25.0	26.2		ug/L		105	66 - 135
Styrene	ND		25.0	22.5		ug/L		90	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.7		ug/L		95	63 - 130
Tetrachloroethene	ND		25.0	25.7		ug/L		103	70 - 137
Toluene	0.32	J	25.0	24.9		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	28.1		ug/L		112	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.7		ug/L		111	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.4		ug/L		102	70 - 130
Trichloroethene	ND		25.0	26.0		ug/L		104	70 - 130
Trichlorofluoromethane	ND		25.0	25.4		ug/L		102	60 - 150
1,2,3-Trichloropropane	ND		25.0	22.7		ug/L		91	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.1		ug/L		100	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	25.1		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.6		ug/L		103	70 - 130
Vinyl acetate	ND		25.0	26.3		ug/L		105	23 - 150
Vinyl chloride	ND		25.0	22.8		ug/L		91	50 - 137
m-Xylene & p-Xylene	ND		25.0	26.5		ug/L		106	70 - 133
o-Xylene	ND		25.0	25.7		ug/L		103	70 - 133
2,2-Dichloropropane	ND		25.0	28.2		ug/L		113	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-91051-1 MSD
Matrix: Water
Analysis Batch: 527261

Client Sample ID: DG-Z17W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	32.6		ug/L		130	70 - 130	14	25
Acetone	ND		25.0	26.3		ug/L		105	10 - 150	9	35
Benzene	ND		25.0	26.5		ug/L		106	66 - 130	4	20
Dichlorobromomethane	ND		25.0	27.5		ug/L		110	70 - 138	3	20
Bromobenzene	ND		25.0	25.3		ug/L		101	70 - 130	3	20
Chlorobromomethane	ND		25.0	27.3		ug/L		109	70 - 130	5	25
Bromoform	ND		25.0	26.6		ug/L		106	59 - 150	7	25
Bromomethane	ND		25.0	25.5		ug/L		102	62 - 131	3	25
2-Butanone (MEK)	ND		25.0	28.4		ug/L		114	48 - 140	33	40
n-Butylbenzene	ND		25.0	27.7		ug/L		111	61 - 149	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91051-1 MSD
Matrix: Water
Analysis Batch: 527261

Client Sample ID: DG-Z17W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	25.5		ug/L		102	67 - 134	0	20
tert-Butylbenzene	ND		25.0	25.5		ug/L		102	70 - 130	0	20
Carbon disulfide	ND		25.0	23.6		ug/L		95	49 - 140	1	20
Carbon tetrachloride	ND		25.0	26.8		ug/L		107	60 - 150	2	25
Chlorobenzene	ND		25.0	24.6		ug/L		98	70 - 130	3	20
Chloroethane	ND		25.0	25.9		ug/L		104	68 - 130	3	25
Chloroform	ND		25.0	24.8		ug/L		99	70 - 130	7	20
Chloromethane	ND		25.0	21.5		ug/L		86	39 - 144	3	25
2-Chlorotoluene	ND		25.0	23.4		ug/L		94	70 - 130	1	20
4-Chlorotoluene	ND		25.0	25.2		ug/L		101	70 - 130	2	20
Chlorodibromomethane	ND		25.0	27.5		ug/L		110	70 - 148	4	25
1,2-Dichlorobenzene	ND		25.0	26.6		ug/L		106	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
1,4-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	25.9		ug/L		104	70 - 130	2	25
1,1-Dichloropropene	ND		25.0	26.9		ug/L		108	64 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	27.0		ug/L		108	48 - 140	9	30
Ethylene Dibromide	ND		25.0	25.9		ug/L		104	70 - 131	5	25
Dibromomethane	ND		25.0	25.3		ug/L		101	70 - 130	4	25
Dichlorodifluoromethane	ND		25.0	21.3		ug/L		85	25 - 142	0	30
1,1-Dichloroethane	0.26	J	25.0	26.3		ug/L		104	65 - 130	0	20
1,2-Dichloroethane	ND		25.0	28.8		ug/L		115	56 - 146	4	20
1,1-Dichloroethene	ND		25.0	24.9		ug/L		100	70 - 130	4	20
cis-1,2-Dichloroethene	ND		25.0	27.8		ug/L		111	70 - 130	3	20
trans-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	70 - 130	1	20
1,2-Dichloropropane	ND		25.0	27.0		ug/L		108	69 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	27.6		ug/L		110	70 - 133	2	20
trans-1,3-Dichloropropene	ND		25.0	28.3		ug/L		113	70 - 138	5	25
Ethylbenzene	ND		25.0	25.2		ug/L		101	70 - 130	1	20
Hexachlorobutadiene	ND		25.0	28.7		ug/L		115	10 - 150	3	20
2-Hexanone	ND		25.0	22.9		ug/L		91	10 - 150	4	35
Isopropylbenzene	ND		25.0	26.3		ug/L		105	70 - 132	2	20
4-Isopropyltoluene	ND		25.0	26.4		ug/L		105	70 - 130	0	20
Methylene Chloride	ND		25.0	22.8		ug/L		91	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	24.6		ug/L		98	52 - 150	9	35
Naphthalene	0.43	J	25.0	27.2		ug/L		107	60 - 140	6	30
N-Propylbenzene	ND		25.0	25.3		ug/L		101	66 - 135	4	20
Styrene	ND		25.0	24.0		ug/L		96	29 - 150	6	35
1,1,1,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	60 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.8		ug/L		99	63 - 130	4	30
Tetrachloroethene	ND		25.0	27.1		ug/L		108	70 - 137	5	20
Toluene	0.32	J	25.0	25.8		ug/L		102	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		25.0	29.2		ug/L		117	60 - 140	4	20
1,2,4-Trichlorobenzene	ND		25.0	27.1		ug/L		108	60 - 140	5	20
1,1,1-Trichloroethane	ND		25.0	28.2		ug/L		113	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	27.9		ug/L		112	70 - 130	9	25
Trichloroethene	ND		25.0	27.3		ug/L		109	70 - 130	5	20
Trichlorofluoromethane	ND		25.0	25.1		ug/L		100	60 - 150	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91051-1 MSD
Matrix: Water
Analysis Batch: 527261

Client Sample ID: DG-Z17W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	25.0		ug/L		100	60 - 130	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.2		ug/L		101	60 - 140	0	20
1,2,4-Trimethylbenzene	ND		25.0	25.5		ug/L		102	70 - 130	2	25
1,3,5-Trimethylbenzene	ND		25.0	25.6		ug/L		102	70 - 130	0	20
Vinyl acetate	ND		25.0	27.0		ug/L		108	23 - 150	3	30
Vinyl chloride	ND		25.0	23.9		ug/L		95	50 - 137	5	30
m-Xylene & p-Xylene	ND		25.0	26.9		ug/L		108	70 - 133	2	25
o-Xylene	ND		25.0	26.0		ug/L		104	70 - 133	1	20
2,2-Dichloropropane	ND		25.0	29.8		ug/L		119	69 - 138	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: MB 440-527523/4
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Acetone	ND		20	10	ug/L			02/08/19 08:30	1
Benzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Bromobenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Bromoform	ND		1.0	0.40	ug/L			02/08/19 08:30	1
Bromomethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/08/19 08:30	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/08/19 08:30	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/08/19 08:30	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Chloroethane	ND		1.0	0.40	ug/L			02/08/19 08:30	1
Chloroform	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Chloromethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/08/19 08:30	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/08/19 08:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527523/4
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/08/19 08:30	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
2-Hexanone	ND		5.0	2.5	ug/L			02/08/19 08:30	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/08/19 08:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/08/19 08:30	1
Naphthalene	ND		1.0	0.40	ug/L			02/08/19 08:30	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Styrene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Toluene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/08/19 08:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/08/19 08:30	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Trichloroethene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/08/19 08:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/08/19 08:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/08/19 08:30	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/08/19 08:30	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/08/19 08:30	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/08/19 08:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*02/08/19 08:30*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/08/19 08:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527523/5
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.5		ug/L		106	63 - 131
Acetone	25.0	22.3		ug/L		89	10 - 150
Benzene	25.0	26.0		ug/L		104	68 - 130
Dichlorobromomethane	25.0	27.2		ug/L		109	70 - 132
Bromobenzene	25.0	25.6		ug/L		103	70 - 130
Chlorobromomethane	25.0	27.1		ug/L		109	70 - 130
Bromoform	25.0	26.2		ug/L		105	60 - 148
Bromomethane	25.0	26.2		ug/L		105	64 - 139
2-Butanone (MEK)	25.0	23.3		ug/L		93	44 - 150
n-Butylbenzene	25.0	27.3		ug/L		109	65 - 150
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 138
tert-Butylbenzene	25.0	25.9		ug/L		104	70 - 130
Carbon disulfide	25.0	23.9		ug/L		96	52 - 136
Carbon tetrachloride	25.0	26.1		ug/L		105	60 - 150
Chlorobenzene	25.0	25.1		ug/L		101	70 - 130
Chloroethane	25.0	26.0		ug/L		104	64 - 135
Chloroform	25.0	23.8		ug/L		95	70 - 130
Chloromethane	25.0	22.4		ug/L		90	47 - 140
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130
4-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130
Chlorodibromomethane	25.0	28.2		ug/L		113	69 - 145
1,2-Dichlorobenzene	25.0	26.6		ug/L		107	70 - 130
1,3-Dichlorobenzene	25.0	26.8		ug/L		107	70 - 130
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	26.6		ug/L		106	70 - 130
1,1-Dichloropropene	25.0	25.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.4		ug/L		102	52 - 140
Ethylene Dibromide	25.0	26.8		ug/L		107	70 - 130
Dibromomethane	25.0	24.8		ug/L		99	70 - 130
Dichlorodifluoromethane	25.0	23.6		ug/L		94	29 - 150
1,1-Dichloroethane	25.0	25.9		ug/L		104	64 - 130
1,2-Dichloroethane	25.0	27.9		ug/L		112	57 - 138
1,1-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	26.9		ug/L		107	70 - 133
trans-1,2-Dichloroethene	25.0	26.4		ug/L		105	70 - 130
1,2-Dichloropropane	25.0	27.1		ug/L		108	67 - 130
cis-1,3-Dichloropropene	25.0	29.0		ug/L		116	70 - 133
trans-1,3-Dichloropropene	25.0	27.9		ug/L		112	70 - 132
Ethylbenzene	25.0	25.6		ug/L		103	70 - 130
Hexachlorobutadiene	25.0	28.7		ug/L		115	10 - 150
2-Hexanone	25.0	24.9		ug/L		100	10 - 150
Isopropylbenzene	25.0	26.4		ug/L		106	70 - 136
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 132
Methylene Chloride	25.0	22.9		ug/L		92	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	23.9		ug/L		96	59 - 149
Naphthalene	25.0	25.6		ug/L		102	60 - 140
N-Propylbenzene	25.0	25.9		ug/L		104	67 - 139
Styrene	25.0	25.9		ug/L		104	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527523/5
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	63 - 130
Tetrachloroethene	25.0	27.2		ug/L		109	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	25.0	28.2		ug/L		113	60 - 140
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		104	60 - 140
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	28.1		ug/L		112	70 - 130
Trichloroethene	25.0	26.5		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	25.4		ug/L		102	60 - 150
1,2,3-Trichloropropane	25.0	24.4		ug/L		98	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.6		ug/L		95	60 - 140
1,2,4-Trimethylbenzene	25.0	26.5		ug/L		106	70 - 135
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 136
Vinyl acetate	25.0	27.3		ug/L		109	48 - 140
Vinyl chloride	25.0	22.9		ug/L		92	59 - 133
m-Xylene & p-Xylene	25.0	26.4		ug/L		106	70 - 130
o-Xylene	25.0	26.8		ug/L		107	70 - 130
2,2-Dichloropropane	25.0	29.6		ug/L		118	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: LCSD 440-527523/6
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	27.9		ug/L		112	63 - 131	5	25
Acetone	25.0	21.7		ug/L		87	10 - 150	3	30
Benzene	25.0	26.7		ug/L		107	68 - 130	2	20
Dichlorobromomethane	25.0	27.9		ug/L		112	70 - 132	3	20
Bromobenzene	25.0	26.7		ug/L		107	70 - 130	4	20
Chlorobromomethane	25.0	26.5		ug/L		106	70 - 130	2	20
Bromoform	25.0	25.9		ug/L		104	60 - 148	1	25
Bromomethane	25.0	25.7		ug/L		103	64 - 139	2	20
2-Butanone (MEK)	25.0	20.2		ug/L		81	44 - 150	14	35
n-Butylbenzene	25.0	28.1		ug/L		112	65 - 150	3	20
sec-Butylbenzene	25.0	25.4		ug/L		101	70 - 138	1	20
tert-Butylbenzene	25.0	26.2		ug/L		105	70 - 130	1	20
Carbon disulfide	25.0	24.1		ug/L		96	52 - 136	1	20
Carbon tetrachloride	25.0	26.0		ug/L		104	60 - 150	1	25
Chlorobenzene	25.0	25.1		ug/L		100	70 - 130	0	20
Chloroethane	25.0	26.0		ug/L		104	64 - 135	0	20
Chloroform	25.0	24.6		ug/L		98	70 - 130	3	20
Chloromethane	25.0	23.1		ug/L		92	47 - 140	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527523/6
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130	3	20
4-Chlorotoluene	25.0	26.4		ug/L		105	70 - 130	0	20
Chlorodibromomethane	25.0	27.7		ug/L		111	69 - 145	2	20
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130	0	20
1,3-Dichlorobenzene	25.0	27.4		ug/L		110	70 - 130	2	20
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	0	20
1,3-Dichloropropane	25.0	26.0		ug/L		104	70 - 130	2	20
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	52 - 140	5	30
Ethylene Dibromide	25.0	25.7		ug/L		103	70 - 130	4	20
Dibromomethane	25.0	25.0		ug/L		100	70 - 130	1	20
Dichlorodifluoromethane	25.0	23.7		ug/L		95	29 - 150	0	30
1,1-Dichloroethane	25.0	27.7		ug/L		111	64 - 130	7	20
1,2-Dichloroethane	25.0	27.9		ug/L		111	57 - 138	0	20
1,1-Dichloroethene	25.0	25.6		ug/L		103	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	70 - 133	3	20
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130	1	20
1,2-Dichloropropane	25.0	28.1		ug/L		112	67 - 130	3	20
cis-1,3-Dichloropropene	25.0	29.1		ug/L		116	70 - 133	0	25
trans-1,3-Dichloropropene	25.0	28.5		ug/L		114	70 - 132	2	20
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130	1	20
Hexachlorobutadiene	25.0	28.6		ug/L		114	10 - 150	0	20
2-Hexanone	25.0	22.3		ug/L		89	10 - 150	11	30
Isopropylbenzene	25.0	26.3		ug/L		105	70 - 136	0	20
4-Isopropyltoluene	25.0	26.4		ug/L		106	70 - 132	0	20
Methylene Chloride	25.0	23.6		ug/L		94	52 - 130	3	20
4-Methyl-2-pentanone (MIBK)	25.0	22.4		ug/L		90	59 - 149	6	30
Naphthalene	25.0	25.1		ug/L		101	60 - 140	2	25
N-Propylbenzene	25.0	26.8		ug/L		107	67 - 139	4	20
Styrene	25.0	26.1		ug/L		104	70 - 134	1	20
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		109	60 - 141	1	20
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	63 - 130	1	25
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130	5	20
Toluene	25.0	25.9		ug/L		104	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	27.9		ug/L		111	60 - 140	1	20
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	60 - 140	3	20
1,1,1-Trichloroethane	25.0	26.9		ug/L		108	70 - 130	2	20
1,1,2-Trichloroethane	25.0	26.7		ug/L		107	70 - 130	5	20
Trichloroethene	25.0	26.7		ug/L		107	70 - 130	1	20
Trichlorofluoromethane	25.0	25.1		ug/L		100	60 - 150	1	20
1,2,3-Trichloropropane	25.0	23.4		ug/L		93	63 - 130	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.9		ug/L		99	60 - 140	5	20
1,2,4-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 135	1	20
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		106	70 - 136	2	20
Vinyl acetate	25.0	27.4		ug/L		110	48 - 140	0	20
Vinyl chloride	25.0	24.3		ug/L		97	59 - 133	6	30
m-Xylene & p-Xylene	25.0	27.0		ug/L		108	70 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527523/6
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			25.0	27.2		ug/L		109	70 - 130	1	20
2,2-Dichloropropane			25.0	29.0		ug/L		116	68 - 141	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 550-117465-A-1 MS
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	26.7		ug/L		107	70 - 130
Acetone	ND		25.0	22.7		ug/L		91	10 - 150
Benzene	ND		25.0	25.4		ug/L		101	66 - 130
Dichlorobromomethane	ND		25.0	29.1		ug/L		116	70 - 138
Bromobenzene	ND		25.0	23.3		ug/L		93	70 - 130
Chlorobromomethane	ND		25.0	28.3		ug/L		113	70 - 130
Bromoform	ND		25.0	27.4		ug/L		110	59 - 150
Bromomethane	ND		25.0	25.5		ug/L		102	62 - 131
2-Butanone (MEK)	ND	F1	25.0	10.7	F1	ug/L		43	48 - 140
n-Butylbenzene	ND		25.0	23.6		ug/L		95	61 - 149
sec-Butylbenzene	ND		25.0	22.9		ug/L		92	67 - 134
tert-Butylbenzene	ND		25.0	24.0		ug/L		96	70 - 130
Carbon disulfide	ND		25.0	22.4		ug/L		90	49 - 140
Carbon tetrachloride	ND		25.0	23.9		ug/L		96	60 - 150
Chlorobenzene	ND		25.0	24.6		ug/L		98	70 - 130
Chloroethane	ND		25.0	24.6		ug/L		98	68 - 130
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130
Chloromethane	ND		25.0	20.7		ug/L		83	39 - 144
2-Chlorotoluene	ND		25.0	23.1		ug/L		92	70 - 130
4-Chlorotoluene	ND		25.0	25.0		ug/L		100	70 - 130
Chlorodibromomethane	ND		25.0	29.6		ug/L		119	70 - 148
1,2-Dichlorobenzene	ND		25.0	25.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.1		ug/L		100	70 - 130
1,3-Dichloropropane	ND		25.0	27.7		ug/L		111	70 - 130
1,1-Dichloropropene	ND		25.0	24.7		ug/L		99	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	23.1		ug/L		92	48 - 140
Ethylene Dibromide	ND		25.0	27.1		ug/L		108	70 - 131
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	ND		25.0	18.3		ug/L		73	25 - 142
1,1-Dichloroethane	ND		25.0	25.8		ug/L		103	65 - 130
1,2-Dichloroethane	ND		25.0	29.6		ug/L		119	56 - 146
1,1-Dichloroethene	ND		25.0	23.5		ug/L		94	70 - 130
cis-1,2-Dichloroethene	ND		25.0	27.7		ug/L		111	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130
1,2-Dichloropropane	ND		25.0	28.0		ug/L		112	69 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 550-117465-A-1 MS
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	ND		25.0	29.2		ug/L		117	70 - 133
trans-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	70 - 138
Ethylbenzene	ND		25.0	24.3		ug/L		97	70 - 130
Hexachlorobutadiene	ND		25.0	24.5		ug/L		98	10 - 150
2-Hexanone	ND		25.0	9.70		ug/L		39	10 - 150
Isopropylbenzene	ND		25.0	24.9		ug/L		100	70 - 132
4-Isopropyltoluene	ND		25.0	23.6		ug/L		94	70 - 130
Methylene Chloride	ND		25.0	24.0		ug/L		96	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	19.9		ug/L		79	52 - 150
Naphthalene	ND		25.0	23.3		ug/L		93	60 - 140
N-Propylbenzene	ND		25.0	23.5		ug/L		94	66 - 135
Styrene	ND		25.0	24.6		ug/L		99	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	28.4		ug/L		114	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.5		ug/L		94	63 - 130
Tetrachloroethene	ND		25.0	24.3		ug/L		97	70 - 137
Toluene	ND		25.0	24.0		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.9		ug/L		108	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	24.3		ug/L		97	60 - 140
1,1,1-Trichloroethane	ND		25.0	25.6		ug/L		102	70 - 130
1,1,2-Trichloroethane	ND		25.0	29.2		ug/L		117	70 - 130
Trichloroethene	ND		25.0	26.1		ug/L		105	70 - 130
Trichlorofluoromethane	ND		25.0	22.8		ug/L		91	60 - 150
1,2,3-Trichloropropane	ND		25.0	23.1		ug/L		92	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	21.6		ug/L		86	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	24.9		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	24.3		ug/L		97	70 - 130
Vinyl acetate	ND	F1	25.0	ND	F1	ug/L		0	23 - 150
Vinyl chloride	ND		25.0	21.2		ug/L		85	50 - 137
m-Xylene & p-Xylene	ND		25.0	27.0		ug/L		108	70 - 133
o-Xylene	ND		25.0	27.5		ug/L		110	70 - 133
2,2-Dichloropropane	ND		25.0	23.2		ug/L		93	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*92*		*80 - 128*

Lab Sample ID: 550-117465-A-1 MSD
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	28.8		ug/L		115	70 - 130	8	25
Acetone	ND		25.0	25.5		ug/L		102	10 - 150	11	35
Benzene	ND		25.0	26.4		ug/L		106	66 - 130	4	20
Dichlorobromomethane	ND		25.0	31.6		ug/L		126	70 - 138	8	20
Bromobenzene	ND		25.0	24.6		ug/L		98	70 - 130	5	20
Chlorobromomethane	ND		25.0	30.6		ug/L		123	70 - 130	8	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 550-117465-A-1 MSD
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		25.0	29.1		ug/L		116	59 - 150	6	25
Bromomethane	ND		25.0	25.6		ug/L		102	62 - 131	0	25
2-Butanone (MEK)	ND	F1	25.0	11.5	F1	ug/L		46	48 - 140	7	40
n-Butylbenzene	ND		25.0	24.7		ug/L		99	61 - 149	4	20
sec-Butylbenzene	ND		25.0	23.7		ug/L		95	67 - 134	4	20
tert-Butylbenzene	ND		25.0	24.3		ug/L		97	70 - 130	1	20
Carbon disulfide	ND		25.0	22.9		ug/L		92	49 - 140	2	20
Carbon tetrachloride	ND		25.0	25.0		ug/L		100	60 - 150	4	25
Chlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	2	20
Chloroethane	ND		25.0	24.8		ug/L		99	68 - 130	1	25
Chloroform	ND		25.0	26.1		ug/L		105	70 - 130	8	20
Chloromethane	ND		25.0	21.3		ug/L		85	39 - 144	3	25
2-Chlorotoluene	ND		25.0	23.8		ug/L		95	70 - 130	3	20
4-Chlorotoluene	ND		25.0	25.6		ug/L		103	70 - 130	3	20
Chlorodibromomethane	ND		25.0	30.8		ug/L		123	70 - 148	4	25
1,2-Dichlorobenzene	ND		25.0	27.9		ug/L		112	70 - 130	7	20
1,3-Dichlorobenzene	ND		25.0	27.4		ug/L		110	70 - 130	4	20
1,4-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	29.9		ug/L		120	70 - 130	8	25
1,1-Dichloropropene	ND		25.0	25.7		ug/L		103	64 - 130	4	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.4		ug/L		102	48 - 140	10	30
Ethylene Dibromide	ND		25.0	28.6		ug/L		115	70 - 131	5	25
Dibromomethane	ND		25.0	28.2		ug/L		113	70 - 130	7	25
Dichlorodifluoromethane	ND		25.0	18.8		ug/L		75	25 - 142	3	30
1,1-Dichloroethane	ND		25.0	27.3		ug/L		109	65 - 130	6	20
1,2-Dichloroethane	ND		25.0	32.0		ug/L		128	56 - 146	8	20
1,1-Dichloroethene	ND		25.0	23.7		ug/L		95	70 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	29.0		ug/L		116	70 - 130	5	20
trans-1,2-Dichloroethene	ND		25.0	26.9		ug/L		108	70 - 130	6	20
1,2-Dichloropropane	ND		25.0	29.8		ug/L		119	69 - 130	6	20
cis-1,3-Dichloropropene	ND		25.0	30.6		ug/L		122	70 - 133	5	20
trans-1,3-Dichloropropene	ND		25.0	30.2		ug/L		121	70 - 138	8	25
Ethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130	2	20
Hexachlorobutadiene	ND		25.0	25.4		ug/L		102	10 - 150	4	20
2-Hexanone	ND		25.0	9.37		ug/L		37	10 - 150	3	35
Isopropylbenzene	ND		25.0	25.5		ug/L		102	70 - 132	2	20
4-Isopropyltoluene	ND		25.0	24.6		ug/L		98	70 - 130	4	20
Methylene Chloride	ND		25.0	25.3		ug/L		101	52 - 130	6	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	20.9		ug/L		84	52 - 150	5	35
Naphthalene	ND		25.0	26.2		ug/L		105	60 - 140	12	30
N-Propylbenzene	ND		25.0	24.7		ug/L		99	66 - 135	5	20
Styrene	ND		25.0	24.7		ug/L		99	29 - 150	0	35
1,1,1,2-Tetrachloroethane	ND		25.0	29.7		ug/L		119	60 - 149	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.9		ug/L		100	63 - 130	6	30
Tetrachloroethene	ND		25.0	25.5		ug/L		102	70 - 137	5	20
Toluene	ND		25.0	23.4		ug/L		94	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		25.0	29.3		ug/L		117	60 - 140	9	20
1,2,4-Trichlorobenzene	ND		25.0	25.7		ug/L		103	60 - 140	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 550-117465-A-1 MSD
Matrix: Water
Analysis Batch: 527523

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	26.4		ug/L		105	70 - 130	3	20
1,1,2-Trichloroethane	ND		25.0	30.8		ug/L		123	70 - 130	5	25
Trichloroethene	ND		25.0	27.0		ug/L		108	70 - 130	3	20
Trichlorofluoromethane	ND		25.0	23.4		ug/L		93	60 - 150	2	25
1,2,3-Trichloropropane	ND		25.0	24.1		ug/L		97	60 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.6		ug/L		90	60 - 140	4	20
1,2,4-Trimethylbenzene	ND		25.0	26.3		ug/L		105	70 - 130	5	25
1,3,5-Trimethylbenzene	ND		25.0	25.3		ug/L		101	70 - 130	4	20
Vinyl acetate	ND	F1	25.0	ND	F1	ug/L		0	23 - 150	NC	30
Vinyl chloride	ND		25.0	21.5		ug/L		86	50 - 137	1	30
m-Xylene & p-Xylene	ND		25.0	27.5		ug/L		110	70 - 133	2	25
o-Xylene	ND		25.0	28.2		ug/L		113	70 - 133	2	20
2,2-Dichloropropane	ND		25.0	23.1		ug/L		92	69 - 138	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*132*	*X*	*70 - 130*
Toluene-d8 (Surr)	*91*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-527262/9
Matrix: Water
Analysis Batch: 527262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/07/19 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/07/19 11:06*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*02/07/19 11:06*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/07/19 11:06*	*1*

Lab Sample ID: LCS 440-527262/11
Matrix: Water
Analysis Batch: 527262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	427		ug/L		85	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-91051-1 MS
Matrix: Water
Analysis Batch: 527262

Client Sample ID: DG-Z17W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	95		1730	1700		ug/L		93	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 720-91051-1 MSD
Matrix: Water
Analysis Batch: 527262

Client Sample ID: DG-Z17W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	95		1730	1770		ug/L		97	50 - 145	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: MB 440-527524/4
Matrix: Water
Analysis Batch: 527524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/08/19 08:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*02/08/19 08:30*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*02/08/19 08:30*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/08/19 08:30*	*1*

Lab Sample ID: LCS 440-527524/7
Matrix: Water
Analysis Batch: 527524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			500	424		ug/L		85	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*76 - 132*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 550-117465-A-1 MS
Matrix: Water
Analysis Batch: 527524

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1620		ug/L		94	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*92*		*80 - 128*

Lab Sample ID: 550-117465-A-1 MSD
Matrix: Water
Analysis Batch: 527524

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1730	1730		ug/L		100	50 - 145	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*117*		*76 - 132*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*91*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-526142/1-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Acenaphthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Fluorene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Phenanthrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Chrysene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*38 - 120*	*01/31/19 13:42*	*02/01/19 13:14*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-526142/1-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526142

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		10 - 120	01/31/19 13:42	02/01/19 13:14	1
Terphenyl-d14	98		21 - 120	01/31/19 13:42	02/01/19 13:14	1

Lab Sample ID: LCS 440-526142/2-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.814		ug/L		81	50 - 120
Acenaphthene	1.00	0.827		ug/L		83	55 - 120
Acenaphthylene	1.00	0.941		ug/L		94	53 - 120
Fluorene	1.00	0.903		ug/L		90	56 - 120
Phenanthrene	1.00	0.796		ug/L		80	56 - 120
Anthracene	1.00	0.819		ug/L		82	54 - 120
Benzo[a]anthracene	1.00	1.05		ug/L		105	53 - 120
Chrysene	1.00	0.798		ug/L		80	56 - 120
Benzo[a]pyrene	1.00	0.771		ug/L		77	44 - 120
Benzo[b]fluoranthene	1.00	0.852		ug/L		85	48 - 120
Benzo[k]fluoranthene	1.00	0.685		ug/L		68	47 - 121
Benzo[g,h,i]perylene	1.00	0.728		ug/L		73	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.913		ug/L		91	38 - 120
Fluoranthene	1.00	0.907		ug/L		91	59 - 120
Pyrene	1.00	0.854		ug/L		85	59 - 120
Dibenz(a,h)anthracene	1.00	0.816		ug/L		82	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	93		38 - 120
Nitrobenzene-d5	103		10 - 120
Terphenyl-d14	89		21 - 120

Lab Sample ID: LCSD 440-526142/3-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.645		ug/L		65	50 - 120	23	35
Acenaphthene	1.00	0.740		ug/L		74	55 - 120	11	35
Acenaphthylene	1.00	0.832		ug/L		83	53 - 120	12	35
Fluorene	1.00	0.843		ug/L		84	56 - 120	7	35
Phenanthrene	1.00	0.771		ug/L		77	56 - 120	3	35
Anthracene	1.00	0.792		ug/L		79	54 - 120	3	35
Benzo[a]anthracene	1.00	1.03		ug/L		103	53 - 120	2	35
Chrysene	1.00	0.782		ug/L		78	56 - 120	2	35
Benzo[a]pyrene	1.00	0.740		ug/L		74	44 - 120	4	35
Benzo[b]fluoranthene	1.00	0.819		ug/L		82	48 - 120	4	35
Benzo[k]fluoranthene	1.00	0.661		ug/L		66	47 - 121	4	35
Benzo[g,h,i]perylene	1.00	0.714		ug/L		71	41 - 123	2	35
Indeno[1,2,3-cd]pyrene	1.00	0.892		ug/L		89	38 - 120	2	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-526142/3-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526142

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene			1.00	0.876		ug/L		88	59 - 120	3	35
Pyrene			1.00	0.830		ug/L		83	59 - 120	3	35
Dibenz(a,h)anthracene			1.00	0.789		ug/L		79	38 - 122	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*38 - 120*
Nitrobenzene-d5	*86*		*10 - 120*
Terphenyl-d14	*87*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-526090/1-A
Matrix: Water
Analysis Batch: 526358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		01/31/19 10:41	02/01/19 22:19	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		01/31/19 10:41	02/01/19 22:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*45 - 120*	*01/31/19 10:41*	*02/01/19 22:19*	*1*

Lab Sample ID: LCS 440-526090/2-A
Matrix: Water
Analysis Batch: 526358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526090

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			1000	637		ug/L		64	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*110*		*45 - 120*

Lab Sample ID: LCSD 440-526090/3-A
Matrix: Water
Analysis Batch: 526358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526090

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	584		ug/L		58	40 - 115	9	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*75*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259637/1-A
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 15:31	1
Arsenic	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 15:31	1
Barium	ND		50	1.6	ug/L		02/01/19 10:32	02/02/19 15:31	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 15:31	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 15:31	1
Chromium	ND		10	0.70	ug/L		02/01/19 10:32	02/02/19 15:31	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 15:31	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 15:31	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 15:31	1
Molybdenum	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 15:31	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 15:31	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 15:31	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 15:31	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 15:31	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 15:31	1

Lab Sample ID: MB 720-259637/1-A
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 16:40	1

Lab Sample ID: LCS 720-259637/2-A
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	987		ug/L		99	80 - 120
Arsenic	1000	1000		ug/L		100	80 - 120
Barium	1000	968		ug/L		97	80 - 120
Beryllium	1000	965		ug/L		96	80 - 120
Cadmium	1000	997		ug/L		100	80 - 120
Chromium	1000	990		ug/L		99	80 - 120
Cobalt	1000	994		ug/L		99	80 - 120
Copper	1000	977		ug/L		98	80 - 120
Lead	1000	1000		ug/L		100	80 - 120
Molybdenum	1000	989		ug/L		99	80 - 120
Nickel	1000	991		ug/L		99	80 - 120
Selenium	1000	988		ug/L		99	80 - 120
Silver	500	494		ug/L		99	80 - 120
Vanadium	1000	984		ug/L		98	80 - 120
Zinc	1000	992		ug/L		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259637/2-A
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	1000	988		ug/L		99	80 - 120

Lab Sample ID: 720-91051-1 MS
Matrix: Water
Analysis Batch: 259731

Client Sample ID: DG-Z17W
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	948		ug/L		95	75 - 125
Arsenic	ND		1000	971		ug/L		97	75 - 125
Barium	96		1000	1040		ug/L		94	75 - 125
Beryllium	ND		1000	952		ug/L		95	75 - 125
Cadmium	ND		1000	929		ug/L		93	75 - 125
Chromium	1.0	J	1000	934		ug/L		93	75 - 125
Cobalt	ND		1000	919		ug/L		92	75 - 125
Copper	ND		1000	922		ug/L		92	75 - 125
Lead	ND		1000	915		ug/L		92	75 - 125
Molybdenum	2.9	J	1000	954		ug/L		95	75 - 125
Nickel	1.3	J	1000	914		ug/L		91	75 - 125
Selenium	ND		1000	948		ug/L		95	75 - 125
Silver	ND		500	470		ug/L		94	75 - 125
Vanadium	1.2	J	1000	939		ug/L		94	75 - 125
Zinc	ND		1000	932		ug/L		93	75 - 125

Lab Sample ID: 720-91051-1 MS
Matrix: Water
Analysis Batch: 259874

Client Sample ID: DG-Z17W
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		1000	897		ug/L		90	75 - 125

Lab Sample ID: 720-91051-1 MSD
Matrix: Water
Analysis Batch: 259731

Client Sample ID: DG-Z17W
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	912		ug/L		91	75 - 125	4	20
Arsenic	ND		1000	934		ug/L		93	75 - 125	4	20
Barium	96		1000	971		ug/L		87	75 - 125	7	20
Beryllium	ND		1000	887		ug/L		89	75 - 125	7	20
Cadmium	ND		1000	896		ug/L		90	75 - 125	4	20
Chromium	1.0	J	1000	898		ug/L		90	75 - 125	4	20
Cobalt	ND		1000	891		ug/L		89	75 - 125	3	20
Copper	ND		1000	895		ug/L		90	75 - 125	3	20
Lead	ND		1000	884		ug/L		88	75 - 125	3	20
Molybdenum	2.9	J	1000	920		ug/L		92	75 - 125	4	20
Nickel	1.3	J	1000	886		ug/L		88	75 - 125	3	20
Selenium	ND		1000	920		ug/L		92	75 - 125	3	20
Silver	ND		500	447		ug/L		89	75 - 125	5	20
Vanadium	1.2	J	1000	899		ug/L		90	75 - 125	4	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91051-1 MSD
Matrix: Water
Analysis Batch: 259731

Client Sample ID: DG-Z17W
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	ND		1000	899		ug/L		90	75 - 125	4	20

Lab Sample ID: 720-91051-1 MSD
Matrix: Water
Analysis Batch: 259874

Client Sample ID: DG-Z17W
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		1000	912		ug/L		91	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259553/1-A
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:10	1

Lab Sample ID: LCS 720-259553/2-A
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.18		ug/L		92	85 - 115

Lab Sample ID: MB 720-259800/1-A
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 14:48	1

Lab Sample ID: LCS 720-259800/2-A
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	10.6		ug/L		106	85 - 115

Lab Sample ID: MB 720-259456/1-B
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 259553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:24	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91059-A-1-B MS ^4
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	28		10.0	37.3		ug/L		91	75 - 125

Lab Sample ID: 720-91059-A-1-C MSD ^4
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	28		10.0	37.4		ug/L		91	75 - 125	0	20

Lab Sample ID: 720-91051-4 MS
Matrix: Water
Analysis Batch: 259843

Client Sample ID: DG-Y19W
Prep Type: Dissolved
Prep Batch: 259800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	12.2		ug/L		122	75 - 125

Lab Sample ID: 720-91051-4 MSD
Matrix: Water
Analysis Batch: 259843

Client Sample ID: DG-Y19W
Prep Type: Dissolved
Prep Batch: 259800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	12.0		ug/L		120	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-259364/9
Matrix: Water
Analysis Batch: 259364

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/28/19 21:09	1

Lab Sample ID: LCS 720-259364/10
Matrix: Water
Analysis Batch: 259364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	250	254		ug/L		102	90 - 110

Lab Sample ID: LCSD 720-259364/11
Matrix: Water
Analysis Batch: 259364

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	250	254		ug/L		102	90 - 110	0	20

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 720-91051-1 MS
Matrix: Water
Analysis Batch: 259364

Client Sample ID: DG-Z17W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	242		ug/L		97	85 - 115		

Lab Sample ID: 720-91051-1 MSD
Matrix: Water
Analysis Batch: 259364

Client Sample ID: DG-Z17W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	242		ug/L		97	85 - 115	0	20

GC/MS VOA

Analysis Batch: 527261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Total/NA	Water	8260B	
720-91051-2	DG-X17W	Total/NA	Water	8260B	
720-91051-3	DG-V17W	Total/NA	Water	8260B	
720-91051-4	DG-Y19W	Total/NA	Water	8260B	
MB 440-527261/9	Method Blank	Total/NA	Water	8260B	
LCS 440-527261/10	Lab Control Sample	Total/NA	Water	8260B	
720-91051-1 MS	DG-Z17W	Total/NA	Water	8260B	
720-91051-1 MSD	DG-Z17W	Total/NA	Water	8260B	

Analysis Batch: 527262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Total/NA	Water	8260B/CA_LUFT MS	
720-91051-2	DG-X17W	Total/NA	Water	8260B/CA_LUFT MS	
720-91051-3	DG-V17W	Total/NA	Water	8260B/CA_LUFT MS	
720-91051-4	DG-Y19W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-527262/9	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-527262/11	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-91051-1 MS	DG-Z17W	Total/NA	Water	8260B/CA_LUFT MS	
720-91051-1 MSD	DG-Z17W	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 527523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-5	DG-U15W	Total/NA	Water	8260B	
720-91051-6	TB-01.28.19	Total/NA	Water	8260B	
720-91051-7	FB-01.28.19	Total/NA	Water	8260B	
MB 440-527523/4	Method Blank	Total/NA	Water	8260B	
LCS 440-527523/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 440-527523/6	Lab Control Sample Dup	Total/NA	Water	8260B	
550-117465-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
550-117465-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 527524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-5	DG-U15W	Total/NA	Water	8260B/CA_LUFT MS	
720-91051-6	TB-01.28.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91051-7	FB-01.28.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-527524/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-527524/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
550-117465-A-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 527524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-117465-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 526142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Total/NA	Water	3520C	
720-91051-2	DG-X17W	Total/NA	Water	3520C	
720-91051-3	DG-V17W	Total/NA	Water	3520C	
720-91051-4	DG-Y19W	Total/NA	Water	3520C	
720-91051-5	DG-U15W	Total/NA	Water	3520C	
MB 440-526142/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-526142/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-526142/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 526356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-526142/1-A	Method Blank	Total/NA	Water	8270C SIM	526142
LCS 440-526142/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	526142
LCSD 440-526142/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	526142

Analysis Batch: 526670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Total/NA	Water	8270C SIM	526142
720-91051-3	DG-V17W	Total/NA	Water	8270C SIM	526142
720-91051-4	DG-Y19W	Total/NA	Water	8270C SIM	526142

Analysis Batch: 527041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-2	DG-X17W	Total/NA	Water	8270C SIM	526142
720-91051-5	DG-U15W	Total/NA	Water	8270C SIM	526142

GC Semi VOA

Prep Batch: 526090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Total/NA	Water	3510C	
720-91051-2	DG-X17W	Total/NA	Water	3510C	
720-91051-3	DG-V17W	Total/NA	Water	3510C	
720-91051-4	DG-Y19W	Total/NA	Water	3510C	
720-91051-5	DG-U15W	Total/NA	Water	3510C	
MB 440-526090/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-526090/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-526090/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 526358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Total/NA	Water	8015B	526090
720-91051-2	DG-X17W	Total/NA	Water	8015B	526090

GC Semi VOA (Continued)

Analysis Batch: 526358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-3	DG-V17W	Total/NA	Water	8015B	526090
720-91051-4	DG-Y19W	Total/NA	Water	8015B	526090
720-91051-5	DG-U15W	Total/NA	Water	8015B	526090
MB 440-526090/1-A	Method Blank	Total/NA	Water	8015B	526090
LCS 440-526090/2-A	Lab Control Sample	Total/NA	Water	8015B	526090
LCSD 440-526090/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	526090

Metals

Filtration Batch: 259456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259456/1-B	Method Blank	Dissolved	Water	FILTRATION	
720-91059-A-1-B MS ^4	Matrix Spike	Dissolved	Water	FILTRATION	
720-91059-A-1-C MSD ^4	Matrix Spike Duplicate	Dissolved	Water	FILTRATION	

Prep Batch: 259553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Dissolved	Water	7470A	
720-91051-2	DG-X17W	Dissolved	Water	7470A	
720-91051-3	DG-V17W	Dissolved	Water	7470A	
720-91051-5	DG-U15W	Dissolved	Water	7470A	
MB 720-259456/1-B	Method Blank	Dissolved	Water	7470A	259456
MB 720-259553/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259553/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-91059-A-1-B MS ^4	Matrix Spike	Dissolved	Water	7470A	259456
720-91059-A-1-C MSD ^4	Matrix Spike Duplicate	Dissolved	Water	7470A	259456

Analysis Batch: 259597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Dissolved	Water	7470A	259553
720-91051-2	DG-X17W	Dissolved	Water	7470A	259553
720-91051-3	DG-V17W	Dissolved	Water	7470A	259553
720-91051-5	DG-U15W	Dissolved	Water	7470A	259553
MB 720-259456/1-B	Method Blank	Dissolved	Water	7470A	259553
MB 720-259553/1-A	Method Blank	Total/NA	Water	7470A	259553
LCS 720-259553/2-A	Lab Control Sample	Total/NA	Water	7470A	259553
720-91059-A-1-B MS ^4	Matrix Spike	Dissolved	Water	7470A	259553
720-91059-A-1-C MSD ^4	Matrix Spike Duplicate	Dissolved	Water	7470A	259553

Prep Batch: 259637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Dissolved	Water	3005A	
720-91051-2	DG-X17W	Dissolved	Water	3005A	
720-91051-3	DG-V17W	Dissolved	Water	3005A	
720-91051-4	DG-Y19W	Dissolved	Water	3005A	
720-91051-5	DG-U15W	Dissolved	Water	3005A	
MB 720-259637/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-259637/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-91051-1 MS	DG-Z17W	Dissolved	Water	3005A	
720-91051-1 MSD	DG-Z17W	Dissolved	Water	3005A	

Metals (Continued)

Analysis Batch: 259731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Dissolved	Water	6010B	259637
720-91051-2	DG-X17W	Dissolved	Water	6010B	259637
720-91051-3	DG-V17W	Dissolved	Water	6010B	259637
720-91051-4	DG-Y19W	Dissolved	Water	6010B	259637
720-91051-5	DG-U15W	Dissolved	Water	6010B	259637
MB 720-259637/1-A	Method Blank	Total Recoverable	Water	6010B	259637
LCS 720-259637/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259637
720-91051-1 MS	DG-Z17W	Dissolved	Water	6010B	259637
720-91051-1 MSD	DG-Z17W	Dissolved	Water	6010B	259637

Prep Batch: 259800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-4	DG-Y19W	Dissolved	Water	7470A	
MB 720-259800/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259800/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-91051-4 MS	DG-Y19W	Dissolved	Water	7470A	
720-91051-4 MSD	DG-Y19W	Dissolved	Water	7470A	

Analysis Batch: 259843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-4	DG-Y19W	Dissolved	Water	7470A	259800
MB 720-259800/1-A	Method Blank	Total/NA	Water	7470A	259800
LCS 720-259800/2-A	Lab Control Sample	Total/NA	Water	7470A	259800
720-91051-4 MS	DG-Y19W	Dissolved	Water	7470A	259800
720-91051-4 MSD	DG-Y19W	Dissolved	Water	7470A	259800

Analysis Batch: 259874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Dissolved	Water	6010B	259637
720-91051-2	DG-X17W	Dissolved	Water	6010B	259637
720-91051-3	DG-V17W	Dissolved	Water	6010B	259637
720-91051-4	DG-Y19W	Dissolved	Water	6010B	259637
720-91051-5	DG-U15W	Dissolved	Water	6010B	259637
MB 720-259637/1-A	Method Blank	Total Recoverable	Water	6010B	259637
LCS 720-259637/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259637
720-91051-1 MS	DG-Z17W	Dissolved	Water	6010B	259637
720-91051-1 MSD	DG-Z17W	Dissolved	Water	6010B	259637

General Chemistry

Analysis Batch: 259364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1	DG-Z17W	Total/NA	Water	7196A	
720-91051-2	DG-X17W	Total/NA	Water	7196A	
720-91051-3	DG-V17W	Total/NA	Water	7196A	
720-91051-4	DG-Y19W	Total/NA	Water	7196A	
720-91051-5	DG-U15W	Total/NA	Water	7196A	
MB 720-259364/9	Method Blank	Total/NA	Water	7196A	
LCS 720-259364/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-259364/11	Lab Control Sample Dup	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 259364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91051-1 MS	DG-Z17W	Total/NA	Water	7196A	
720-91051-1 MSD	DG-Z17W	Total/NA	Water	7196A	

Client Sample ID: DG-Z17W

Lab Sample ID: 720-91051-1

Date Collected: 01/28/19 11:40

Matrix: Water

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527261	02/07/19 12:31	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527262	02/07/19 12:31	OH1	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526670	02/04/19 18:17	HN	TAL IRV
Total/NA	Prep	3510C			526090	01/31/19 10:41	HCK	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/01/19 23:42	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:00	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 17:09	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 15:45	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259364	01/28/19 21:09	ECB	TAL PLS

Client Sample ID: DG-X17W

Lab Sample ID: 720-91051-2

Date Collected: 01/28/19 13:20

Matrix: Water

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527261	02/07/19 17:44	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527262	02/07/19 17:44	OH1	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		10	527041	02/06/19 12:47	L1B	TAL IRV
Total/NA	Prep	3510C			526090	01/31/19 10:41	HCK	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/01/19 23:22	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:05	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 17:14	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 15:48	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259364	01/28/19 21:09	ECB	TAL PLS

Client Sample ID: DG-V17W

Lab Sample ID: 720-91051-3

Date Collected: 01/28/19 14:50

Matrix: Water

Date Received: 01/28/19 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527261	02/07/19 18:12	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527262	02/07/19 18:12	OH1	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526670	02/04/19 17:31	HN	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Client Sample ID: DG-V17W

Date Collected: 01/28/19 14:50
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			526090	01/31/19 10:41	HCK	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 00:43	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:20	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 17:19	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 15:50	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259364	01/28/19 21:09	ECB	TAL PLS

Client Sample ID: DG-Y19W

Date Collected: 01/28/19 14:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527261	02/07/19 18:41	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527262	02/07/19 18:41	OH1	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526670	02/04/19 17:54	HN	TAL IRV
Total/NA	Prep	3510C			526090	01/31/19 10:41	HCK	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 01:04	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:24	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 17:23	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:21	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259364	01/28/19 21:09	ECB	TAL PLS

Client Sample ID: DG-U15W

Date Collected: 01/28/19 15:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527523	02/08/19 12:47	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527524	02/08/19 12:47	DCI	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		2	527041	02/06/19 13:10	L1B	TAL IRV
Total/NA	Prep	3510C			526090	01/31/19 10:41	HCK	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 00:03	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:29	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Client Sample ID: DG-U15W

Date Collected: 01/28/19 15:40
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	259874	02/05/19 17:38	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 15:52	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259364	01/28/19 21:09	ECB	TAL PLS

Client Sample ID: TB-01.28.19

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527523	02/08/19 13:15	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527524	02/08/19 13:15	DCI	TAL IRV

Client Sample ID: FB-01.28.19

Date Collected: 01/28/19 00:00
Date Received: 01/28/19 18:20

Lab Sample ID: 720-91051-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527523	02/08/19 13:44	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527524	02/08/19 13:44	DCI	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91051-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91051-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91051-1	DG-Z17W	Water	01/28/19 11:40	01/28/19 18:20
720-91051-2	DG-X17W	Water	01/28/19 13:20	01/28/19 18:20
720-91051-3	DG-V17W	Water	01/28/19 14:50	01/28/19 18:20
720-91051-4	DG-Y19W	Water	01/28/19 14:00	01/28/19 18:20
720-91051-5	DG-U15W	Water	01/28/19 15:40	01/28/19 18:20
720-91051-6	TB-01.28.19	Water	01/28/19 00:00	01/28/19 18:20
720-91051-7	FB-01.28.19	Water	01/28/19 00:00	01/28/19 18:20

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91051

Chain of Custody Record

188134

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 28 January 2019	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler: Nathan Schachman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91051 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes:
DG-Z17w	28 Jan. 2019	1140	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-X17w	↓	1320	↓	↓	↓	↓		↓	↓	↓	↓	↓	
DG-V17w		1450											
DG-Y19w		1400											
DG-U15w	↓	1540	↓	↓	↓	↓		↓	↓	↓	↓	↓	
TB-01.28.19					2			X					
FB-1.28.2019	↓				2			X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

13.5°C / 15.2°C / 6.7°C / 16.4°C / 2.2°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____		Therm ID No.: ____
Relinquished by [signature]	Company Geosyntec	Date/Time 1620 28 Jan 2019	Received by Payat S	Company d.c.s	Date/Time 1-28-19 16:20
Relinquished by Payat S	Company d.c.s	Date/Time 1-28-19 6:20	Received by [signature]	Company TAPLS	Date/Time 1/28/19 1820
Relinquished by	Company	Date/Time	Received in Laboratory by	Company.	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/18/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40984.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91051-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-Z17W (720-91051-1)	1/28/19	11:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-X17W (720-91051-2)	1/28/19	13:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-V17W (720-91051-3)	1/28/19	14:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Y19W (720-91051-4)	1/28/19	14:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-U15W (720-91051-5)	1/28/19	15:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-01.28 19 (720-91051-6)	1/28/19	Pacific		Water			X	X			2	check for 2 phases
FB-01.28.19 (720-91051-7)	1/28/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/29/19 1237	TAPLS			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
					1/30/19 1015	TAPLN
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No: 4754 3138	Cooler Temperature(s) °C and Other Remarks: 2.0/1.6 IR-CLC

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91051-1

Login Number: 91051
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91051-1

Login Number: 91051
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/30/19 12:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91069-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 8:34:45 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91069-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91069-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation. .

Receipt
The samples were received on 1/29/2019 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.3º C, 0.3º C, 0.6º C, 0.9º C, 1.2º C and 2.2º C.

GC/MS VOA
Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 440-526749 recovered outside control limits for multiple analytes. The laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recoveries are in control for the affected analytes. Affected sample results for these compounds have been qualified with a "*" symbol .

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-526919 recovered above the upper control limit for vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-526919 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-526931 recovered above the upper control limit for vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batches 440-526365 and 440-526365 and analytical batch 440-526931 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-526365 and analytical batch 440-526931 was outside control limits. Sample matrix interference is suspected.

Method 8260B: The following samples were diluted due to the nature of the sample matrix: DG-AC11S-0.5-1 (720-91069-8) and DG-AA11S-3.5-4 (720-91069-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259639 and analytical batch 720-259941 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The method blank for preparation batch 720-259667 and analytical batch 720-260119 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The internal standard responses were outside of acceptance limits for the following samples: DG-AC11S-0.5-1 (720-91069-8), (720-91069-E-8-E MS) and (720-91069-E-8-F MSD). The sample indicated evidence of matrix interference which was confirmed in the MS and MSD.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259667 and analytical batch 720-260119 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The method blank for preparation batch 720-259639 and analytical batch 720-259858 contained Benzo[a]pyrene and

Job ID: 720-91069-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Benzo[k]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-AH13S-7.5-8 (720-91069-3), DG-AC11S-3.5-4 (720-91069-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The surrogate recovery for the following sample was outside control limits: DUP-31 (720-91069-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AH13S-0.5-1 (720-91069-1), DG-AH13S-3.5-4 (720-91069-2), DG-AH13S-7.5-8 (720-91069-3), DG-AJ13S-0.5-1 (720-91069-4), DG-AJ13S-3.5-4 (720-91069-5), DG-AL13S-0.5-1 (720-91069-6), DG-AC11S-0.5-1 (720-91069-8), DG-AC11S-3.5-4 (720-91069-9), DG-AC11S-8.5-9 (720-91069-10), DG-AA11S-0.5-1 (720-91069-11), DG-AA11S-3.5-4 (720-91069-12), DG-W11S-0.5-1 (720-91069-13), DG-W7S-0.5-1 (720-91069-15), DG-W7S-3.5-4 (720-91069-16), DG-R5S-0.5-1 (720-91069-17), DG-R5S-3.5-4 (720-91069-18), DUP-31 (720-91069-22), and DUP-29 (720-91069-23). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 720-259541 and analytical batch 720-259779 was outside control limits. Sample matrix interference is suspected.

Method 8081A: The following samples required a dilution due to the nature of the sample matrix (color): DG-AH13S-0.5-1 (720-91069-1), DG-AH13S-3.5-4 (720-91069-2), DG-AH13S-7.5-8 (720-91069-3), DG-AJ13S-0.5-1 (720-91069-4) and DG-AC11S-3.5-4 (720-91069-9). Because of this dilution, the surrogate spike concentration in the sample may have been reduced to a level where the recovery calculation does not provide useful information. Elevated reporting limits (RL) are provided.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259644 and analytical batch 720-260083 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8081A: The percent RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD for the following sample: DG-AC11S-0.5-1 (720-91069-8). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-AH13S-0.5-1 (720-91069-1), DG-AH13S-3.5-4 (720-91069-2), DG-AH13S-7.5-8 (720-91069-3), DG-AJ13S-0.5-1 (720-91069-4), DG-AC11S-0.5-1 (720-91069-8), DG-AC11S-3.5-4 (720-91069-9), DG-AC11S-8.5-9 (720-91069-10), DG-AA11S-3.5-4 (720-91069-12), and DG-W11S-0.5-1 (720-91069-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The matrix spike (MS) recoveries for the following samples associated with preparation batch 440-526661 and analytical batch 440-526901 were outside control limits for Aroclor 1016 and/or Aroclor 1260 due to the nature of the sample matrix: (720-91069-F-1-A MS) and (720-91069-F-1-B MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8082: Surrogate recoveries for the following samples were outside control limits: DG-AH13S-0.5-1 (720-91069-1) and (720-91069-F-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

Method 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AH13S-7.5-8 (720-91069-3), DG-AJ13S-0.5-1 (720-91069-4), DG-AC11S-0.5-1 (720-91069-8), DG-AC11S-3.5-4 (720-91069-9), DG-AC11S-8.5-9 (720-91069-10), DG-AA11S-0.5-1 (720-91069-11) and DG-AA11S-3.5-4 (720-91069-12).

Method 8082: Surrogate recoveries for the following samples were outside control limits: DG-AH13S-3.5-4 (720-91069-2), DG-AJ13S-0.5-1 (720-91069-4) and DG-AC11S-3.5-4 (720-91069-9). Re-analysis was performed with concurring results.

Job ID: 720-91069-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 8082: The continuing calibration verification (CCV) associated with batch 440-527127 recovered above the upper control limit for Aroclor 1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AB5S-0.5-1 (720-91069-19), DG-AB5S-3.5-4 (720-91069-20), DUP-31 (720-91069-22), DUP-29 (720-91069-23), DUP-75 (720-91069-24) and (720-91089-E-9-K).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259462 and analytical batch 720-259700 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259700 was outside control limits for Barium (18%), Cobalt (13%), Chromium (35%), Thallium (40%), Vanadium (16%): (720-91069-E-4-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AH13S-0.5-1 (720-91069-1), DG-AH13S-3.5-4 (720-91069-2), DG-AH13S-7.5-8 (720-91069-3), DG-AJ13S-0.5-1 (720-91069-4), DG-AJ13S-3.5-4 (720-91069-5), DG-AL13S-0.5-1 (720-91069-6), DG-AL13S-3.5-4 (720-91069-7), DG-AC11S-0.5-1 (720-91069-8), DG-AC11S-3.5-4 (720-91069-9), DG-AC11S-8.5-9 (720-91069-10), DG-AA11S-0.5-1 (720-91069-11), DG-AA11S-3.5-4 (720-91069-12), DG-W11S-0.5-1 (720-91069-13), DG-W11S-3.5-4 (720-91069-14), DG-W7S-0.5-1 (720-91069-15), DG-W7S-3.5-4 (720-91069-16), DG-R5S-0.5-1 (720-91069-17), DG-R5S-3.5-4 (720-91069-18), DG-AB5S-0.5-1 (720-91069-19), DG-AB5S-3.5-4 (720-91069-20), DUP-31 (720-91069-22), DUP-29 (720-91069-23), DUP-75 (720-91069-24), (720-91070-A-17-C), (720-91070-A-17-A MS), (720-91070-A-17-B MSD), (720-91070-A-17-C PDS), and (720-91070-A-17-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: Internal standard responses were outside of acceptance limits for the continuing calibration verification (CCV). The target element recoveries were within criteria: (CCV 720-259700/45).

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259477 and analytical batch 720-260051 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike percent recoveries for Barium (320%), Copper (284%), Lead (632%), Thallium (48%), Vanadium (46%), and Zinc (440%) associated with batch 720-260051 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260051 was outside control limits for Thallium (111%), Vanadium (95%), Zinc (96%), Nickel (95%), Lead (95%), Antimony (94%), Cadmium (93%), Cobalt (95%), Chromium (95%), Copper (96%), Silver (84%), Arsenic (91%), and Barium (95%): (720-91070-A-17-C SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3546/8015B: Due to the nature of the sample matrix, the following sample could not be concentrated to the final method required volume and was processed to a volume of to 5 mL. DG-AC11S-3.5-4 (720-91069-9). The reporting limits (RLs) are elevated proportionately.

Method 3546/8270C SIM: Due to the matrix, the following sample could not be concentrated to the final method required volume and was processed to a volume of 2 mL. DG-AH13S-7.5-8 (720-91069-3). The reporting limits (RLs) are elevated proportionately.

Method 3546/8082: The following sample was diluted due to the nature of the sample matrix: DG-AH13S-7.5-8 (720-91069-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 720-91069-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AH13S-0.5-1 — Lab Sample ID: 720-91069-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	670		39	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2200		990	200	mg/Kg	20		8015B	Total/NA
Arsenic	1.0	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	40		1.6	0.23	mg/Kg	4		6010B	Total/NA
Chromium	10		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	110		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	20		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	6.5		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	57		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.089		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH13S-3.5-4 — Lab Sample ID: 720-91069-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2200		39	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	4300		990	200	mg/Kg	20		8015B	Total/NA
Antimony	1.2	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	8.3		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	110		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	52		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	27		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	120		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	36		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.90	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	63		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.085		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH13S-7.5-8 — Lab Sample ID: 720-91069-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	120000		9300	6500	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Benzene	82	J	93	47	ug/Kg	100		8260B	Total/NA
Carbon disulfide	210	J	230	120	ug/Kg	100		8260B	Total/NA
Ethylbenzene	59	J	93	47	ug/Kg	100		8260B	Total/NA
Isopropylbenzene	330		93	47	ug/Kg	100		8260B	Total/NA
Naphthalene	130	J	230	93	ug/Kg	100		8260B	Total/NA
n-Butylbenzene	370		230	93	ug/Kg	100		8260B	Total/NA
N-Propylbenzene	490		93	47	ug/Kg	100		8260B	Total/NA
sec-Butylbenzene	300		230	47	ug/Kg	100		8260B	Total/NA
Acenaphthylene	1000	J	2000	950	ug/Kg	200		8270C SIM	Total/NA
Anthracene	4700		2000	790	ug/Kg	200		8270C SIM	Total/NA
Benzo[a]pyrene	1600	J B	2000	750	ug/Kg	200		8270C SIM	Total/NA
Benzo[b]fluoranthene	1600	J	2000	830	ug/Kg	200		8270C SIM	Total/NA
Chrysene	3800		2000	560	ug/Kg	200		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH13S-7.5-8 (Continued)
Lab Sample ID: 720-91069-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	2100		2000	560	ug/Kg	200		8270C SIM	Total/NA
Fluorene	5300		2000	870	ug/Kg	200		8270C SIM	Total/NA
Phenanthrene	2300		2000	710	ug/Kg	200		8270C SIM	Total/NA
Pyrene	7100		2000	680	ug/Kg	200		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	20000		200	74	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	18000		4900	980	mg/Kg	100		8015B	Total/NA
Antimony	15		3.8	0.64	mg/Kg	10		6010B	Total/NA
Arsenic	37		7.7	0.65	mg/Kg	10		6010B	Total/NA
Barium	51		3.8	0.55	mg/Kg	10		6010B	Total/NA
Beryllium	0.63	J	0.77	0.25	mg/Kg	10		6010B	Total/NA
Cadmium	2.8		0.96	0.095	mg/Kg	10		6010B	Total/NA
Chromium	170		3.8	0.41	mg/Kg	10		6010B	Total/NA
Cobalt	44		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	1200		12	5.5	mg/Kg	10		6010B	Total/NA
Lead	1600		3.8	0.81	mg/Kg	10		6010B	Total/NA
Molybdenum	1.0	J	3.8	0.49	mg/Kg	10		6010B	Total/NA
Nickel	240		3.8	0.39	mg/Kg	10		6010B	Total/NA
Silver	1.7	J	1.9	0.39	mg/Kg	10		6010B	Total/NA
Vanadium	110		3.8	0.52	mg/Kg	10		6010B	Total/NA
Zinc	3200		12	4.9	mg/Kg	10		6010B	Total/NA
Mercury	0.36		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ13S-0.5-1
Lab Sample ID: 720-91069-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	240	J B	250	94	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	200	J	250	100	ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	250		250	210	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	150	J B	250	100	ug/Kg	50		8270C SIM	Total/NA
Pyrene	130	J	250	84	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3300		97	37	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	8200		2400	490	mg/Kg	50		8015B	Total/NA
Antimony	0.50	J F1	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	190	F1	3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	44	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	10		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	81	F1	5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	83	F1	1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	15		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.70	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Silver	0.63	J	0.93	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	68	F1	1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	70	F1	5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.046		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ13S-3.5-4
Lab Sample ID: 720-91069-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	17	J B	24	9.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	15	J	24	10	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ13S-3.5-4 (Continued) Lab Sample ID: 720-91069-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	13	J B	24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	7.0	J	24	6.8	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	9.5	J	24	6.8	ug/Kg	5		8270C SIM	Total/NA
Pyrene	20	J	24	8.3	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	130		3.9	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	280		98	20	mg/Kg	2		8015B	Total/NA
Antimony	0.38	J	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	33		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	150		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	8.4		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	220		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	52		1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	10		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.35	J	0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	380		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.047		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL13S-0.5-1 Lab Sample ID: 720-91069-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	7.0	J	9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	8.6	J	9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	20		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	26	B	9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	43		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	18		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	18	B	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	17		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	7.5	J	9.8	6.9	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	30		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	13		9.8	8.2	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	9.1	J	9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	39		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	60		4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	170		99	20	mg/Kg	2		8015B	Total/NA
Antimony	0.93	J	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	7.5		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	38		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.23	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.29		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	14		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	120		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	52		1.2	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	18		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.98	J	2.3	0.35	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL13S-0.5-1 (Continued)
Lab Sample ID: 720-91069-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	91		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	110		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.046		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL13S-3.5-4
Lab Sample ID: 720-91069-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.2	J	5.0	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.7	J B	5.0	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	4.7	J	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.1		5.0	4.3	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.7	J B	5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	2.5	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	3.8	J	5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Pyrene	6.3		5.0	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	6.3		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	17	J	49	9.7	mg/Kg	1		8015B	Total/NA
Arsenic	0.86	J	2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	26		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Chromium	7.9		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	89		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	4.8		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	3.8		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	78		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	35		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC11S-0.5-1
Lab Sample ID: 720-91069-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	220000		37000	26000	ug/Kg	500		8260B/CA_LUFT MS	Total/NA
Acenaphthene	130	J	200	110	ug/Kg	40		8270C SIM	Total/NA
Anthracene	140	J	200	78	ug/Kg	40		8270C SIM	Total/NA
Benzo[a]pyrene	110	J F1 *	200	74	ug/Kg	40		8270C SIM	Total/NA
Benzo[b]fluoranthene	100	J F1 *	200	82	ug/Kg	40		8270C SIM	Total/NA
Benzo[k]fluoranthene	85	J F1 B *	200	82	ug/Kg	40		8270C SIM	Total/NA
Fluoranthene	57	J	200	55	ug/Kg	40		8270C SIM	Total/NA
Phenanthrene	190	J	200	70	ug/Kg	40		8270C SIM	Total/NA
Pyrene	190	J	200	67	ug/Kg	40		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5000		39	15	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	910	J	970	190	mg/Kg	20		8015B	Total/NA
4,4'-DDD	4.2	p	2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	1.8	J	2.0	0.41	ug/Kg	1		8081A	Total/NA
Arsenic	1.2	J	2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	17		1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.21	0.068	mg/Kg	4		6010B	Total/NA
Cadmium	0.088	J	0.26	0.026	mg/Kg	4		6010B	Total/NA
Chromium	15		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.42	0.042	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC11S-0.5-1 (Continued) Lab Sample ID: 720-91069-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	62		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	16		1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.45	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	9.1		1.0	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	50		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.057		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC11S-3.5-4 Lab Sample ID: 720-91069-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	99		71	50	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
2-Butanone (MEK)	6.9	J	7.1	3.6	ug/Kg	1		8260B	Total/NA
Acenaphthene	730	J	990	560	ug/Kg	200		8270C SIM	Total/NA
Anthracene	610	J	990	400	ug/Kg	200		8270C SIM	Total/NA
Benzo[a]anthracene	350	J	990	300	ug/Kg	200		8270C SIM	Total/NA
Benzo[a]pyrene	1200		990	380	ug/Kg	200		8270C SIM	Total/NA
Benzo[b]fluoranthene	840	J	990	420	ug/Kg	200		8270C SIM	Total/NA
Benzo[g,h,i]perylene	900	J	990	850	ug/Kg	200		8270C SIM	Total/NA
Benzo[k]fluoranthene	520	J B	990	420	ug/Kg	200		8270C SIM	Total/NA
Chrysene	650	J	990	280	ug/Kg	200		8270C SIM	Total/NA
Fluoranthene	380	J	990	280	ug/Kg	200		8270C SIM	Total/NA
Fluorene	610	J	990	440	ug/Kg	200		8270C SIM	Total/NA
Phenanthrene	420	J	990	360	ug/Kg	200		8270C SIM	Total/NA
Pyrene	3200		990	340	ug/Kg	200		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5400		99	37	mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	9500		2500	490	mg/Kg	20		8015B	Total/NA
Antimony	1.6	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	17		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	55		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	26		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	86		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	67		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	37		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	80		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	4.5		0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-AC11S-8.5-9 Lab Sample ID: 720-91069-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.7		1.4	0.71	ug/Kg	1		8260B	Total/NA
Toluene	0.60	J	0.71	0.36	ug/Kg	1		8260B	Total/NA
Anthracene	43	J	98	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	95	J	98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	100		98	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	89	J	98	85	ug/Kg	20		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC11S-8.5-9 (Continued) Lab Sample ID: 720-91069-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	53	J B	98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	57	J	98	28	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	87	J	98	28	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	85	J	98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	190		98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	770		20	7.3	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1100		490	98	mg/Kg	10		8015B	Total/NA
Antimony	0.26	J	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	6.2		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	130		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.23	0.074	mg/Kg	4		6010B	Total/NA
Cadmium	0.17	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	39		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	15		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	24		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	32		1.1	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	61		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.029		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA11S-0.5-1 Lab Sample ID: 720-91069-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	33		24	9.8	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	42		24	7.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	74		24	9.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	63		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	64		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	25	B	24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	35		24	6.9	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	140		24	6.9	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	42		24	21	ug/Kg	5		8270C SIM	Total/NA
Pyrene	190		24	8.3	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	310		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	290		49	9.9	mg/Kg	1		8015B	Total/NA
Antimony	0.38	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	0.35	J	2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	7.8		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.077	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	18		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	51		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	3.7		1.2	0.26	mg/Kg	4		6010B	Total/NA
Nickel	7.5		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	36		3.7	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.076		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AA11S-3.5-4

Lab Sample ID: 720-91069-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	390000		43000	30000	ug/Kg	500		8260B/CA_LUFT MS	Total/NA
Acenaphthene	220		120	68	ug/Kg	25		8270C SIM	Total/NA
Acenaphthylene	73	J	120	58	ug/Kg	25		8270C SIM	Total/NA
Anthracene	110	J	120	49	ug/Kg	25		8270C SIM	Total/NA
Benzo[a]pyrene	54	J	120	46	ug/Kg	25		8270C SIM	Total/NA
Benzo[b]fluoranthene	53	J	120	51	ug/Kg	25		8270C SIM	Total/NA
Benzo[k]fluoranthene	52	J B	120	51	ug/Kg	25		8270C SIM	Total/NA
Fluoranthene	51	J	120	34	ug/Kg	25		8270C SIM	Total/NA
Fluorene	230		120	54	ug/Kg	25		8270C SIM	Total/NA
Naphthalene	90	J	120	85	ug/Kg	25		8270C SIM	Total/NA
Phenanthrene	290		120	44	ug/Kg	25		8270C SIM	Total/NA
Pyrene	110	J	120	41	ug/Kg	25		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1400		9.9	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	270		250	49	mg/Kg	5		8015B	Total/NA
Arsenic	0.48	J	2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	19		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.052	J	0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	9.0		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	88		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	22		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	4.1		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	93		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	55		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.066		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W11S-0.5-1

Lab Sample ID: 720-91069-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	140		98	47	ug/Kg	20		8270C SIM	Total/NA
Anthracene	120		98	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	250		98	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	460		98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	550		98	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	290		98	84	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	210	B	98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	290		98	27	ug/Kg	20		8270C SIM	Total/NA
Dibenz(a,h)anthracene	89	J	98	69	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	380		98	27	ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	230		98	82	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	86	J	98	69	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	170		98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	650		98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	240		9.7	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	620		240	49	mg/Kg	5		8015B	Total/NA
Antimony	10		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	50		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	29		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	11		1.6	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W11S-0.5-1 (Continued)

Lab Sample ID: 720-91069-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	5.0		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	91		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	360		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.60	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	20		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.55	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	60		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.091		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W11S-3.5-4

Lab Sample ID: 720-91069-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.4	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.1		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	5.6		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.6	J	4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.1	J B	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	2.3	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.3	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.1	J	4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	3.2	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	7.2		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.4	J	1.9	0.71	mg/Kg	1		8015B	Total/NA
Antimony	0.32	J	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	100		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	42		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.26	0.086	mg/Kg	4		6010B	Total/NA
Chromium	46		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	5.4		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	1.7		1.3	0.28	mg/Kg	4		6010B	Total/NA
Nickel	37		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.53	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	19		3.9	1.7	mg/Kg	4		6010B	Total/NA

Client Sample ID: DG-W7S-0.5-1

Lab Sample ID: 720-91069-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.40	J	0.72	0.36	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	42	J	49	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	29		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	52		25	9.8	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	39		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	57		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	100		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	67		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	33	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	36		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	21	J	25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	66		25	6.9	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W7S-0.5-1 (Continued) Lab Sample ID: 720-91069-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	48		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	42		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	50		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	63		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	32		2.0	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	74		49	9.8	mg/Kg	1		8015B	Total/NA
Aroclor 1260	47	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	0.48	J	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	2.7		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	62		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.086	J	0.23	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.44		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	14		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	6.9		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	68		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	56		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.47	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	22		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.37	J	2.3	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	42		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	98		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.096		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W7S-3.5-4 Lab Sample ID: 720-91069-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.46	J	0.87	0.43	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	22		20	9.8	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	7.4	J	9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	7.2	J	9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	13		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	14		9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	43		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	12		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	14	B	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	37		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	7.0	J	9.8	6.8	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	59		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	11		9.8	8.2	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	69		9.8	6.8	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	81		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	43		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	35		1.9	0.72	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	68		48	9.7	mg/Kg	1		8015B	Total/NA
Antimony	65		3.2	0.53	mg/Kg	10		6010B	Total/NA
Arsenic	30		6.3	0.54	mg/Kg	10		6010B	Total/NA
Barium	1300		3.2	0.45	mg/Kg	10		6010B	Total/NA
Cadmium	3.5		0.79	0.078	mg/Kg	10		6010B	Total/NA
Chromium	70		3.2	0.34	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	1100		9.5	4.5	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W7S-3.5-4 (Continued)
Lab Sample ID: 720-91069-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4900		3.2	0.66	mg/Kg	10		6010B	Total/NA
Molybdenum	1.5	J	3.2	0.41	mg/Kg	10		6010B	Total/NA
Nickel	72		3.2	0.32	mg/Kg	10		6010B	Total/NA
Selenium	2.1	J	6.3	0.95	mg/Kg	10		6010B	Total/NA
Silver	7.0		1.6	0.32	mg/Kg	10		6010B	Total/NA
Thallium	0.96	J	3.2	0.92	mg/Kg	10		6010B	Total/NA
Vanadium	35		3.2	0.43	mg/Kg	10		6010B	Total/NA
Zinc	2200		9.5	4.0	mg/Kg	10		6010B	Total/NA
Mercury	0.52		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R5S-0.5-1
Lab Sample ID: 720-91069-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	73		49	24	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	32		24	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	48		24	9.8	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	230		24	7.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	280		24	9.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	440		24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	130		24	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	140	B	24	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	240		24	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	46		24	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	330		24	6.9	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	120		24	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	70		24	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	140		24	8.8	ug/Kg	5		8270C SIM	Total/NA
Pyrene	300		24	8.3	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	62		3.8	1.4	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		95	19	mg/Kg	2		8015B	Total/NA
4,4'-DDD	1.5	J p	2.0	0.60	ug/Kg	1		8081A	Total/NA
4,4'-DDE	18		2.0	0.41	ug/Kg	1		8081A	Total/NA
4,4'-DDT	17		2.0	0.40	ug/Kg	1		8081A	Total/NA
Aroclor 1260	89		49	17	ug/Kg	1		8082	Total/NA
Antimony	1.2		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	53		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	99		1.2	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	16		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	110		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	230		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.47	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	14		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.93	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Silver	0.15	J	0.62	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	78		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	310		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R5S-3.5-4

Lab Sample ID: 720-91069-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	10	J	19	9.7	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	19		9.7	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	12		9.7	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	82		9.7	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	110		9.7	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	140		9.7	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	56		9.7	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	33	B	9.7	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	110		9.7	2.7	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	18		9.7	6.8	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	110		9.7	2.7	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	49		9.7	8.2	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	12		9.7	6.8	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	45		9.7	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	140		9.7	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	11		1.9	0.73	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	32	J	48	9.7	mg/Kg	1		8015B	Total/NA
Antimony	2.0		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	170		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	75		1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.095	J	0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.63		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	28		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	65		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	370		1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.18	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	43		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J	2.2	0.32	mg/Kg	4		6010B	Total/NA
Silver	0.32	J	0.54	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	190		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.077		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB5S-0.5-1

Lab Sample ID: 720-91069-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	79		49	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	130		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	56		25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	550		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	770		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	740		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	290		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	290	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	600		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	81		25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	480		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	250		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	100		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	140		25	8.9	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB5S-0.5-1 (Continued) Lab Sample ID: 720-91069-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	1000		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	51		4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		99	20	mg/Kg	2		8015B	Total/NA
Antimony	1.1		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	200		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	62		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.079	J	0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.51		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	8.3		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.4		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	94		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	140		1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	9.7		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.68	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Silver	0.15	J	0.56	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	150		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB5S-3.5-4 Lab Sample ID: 720-91069-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.2	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.6		4.9	1.5	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	12		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	16		4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	11		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.6	B	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	8.0		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	3.9	J	4.9	3.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	12		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	8.7		4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	6.3		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	13		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	6.8		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	24	J	48	9.5	mg/Kg	1		8015B	Total/NA
Antimony	1.1	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	54		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	31		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	21		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	3.6		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	13		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	11		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.22	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	17		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.98	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	17		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	27		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: FB-01.29.19 — Lab Sample ID: 720-91069-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	52		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: DUP-31 — Lab Sample ID: 720-91069-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.45	J	0.62	0.31	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	26	J	49	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	23	J	25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	21	J	25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	53		25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	84		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	99		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	49		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	36	B	25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	56		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	18	J	25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	91		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	40		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	22	J	25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	42		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	120		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	38		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	91		49	9.8	mg/Kg	1		8015B	Total/NA
Antimony	2.1		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	180		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	58		1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	0.60		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	15		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	100		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	93		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.32	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	14		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	100		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-29 — Lab Sample ID: 720-91069-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	14	J	20	9.8	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	21		9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	21		9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	73		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	97		9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	150		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	48		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	47	B	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	100		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	16		9.8	6.8	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	110		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-29 (Continued) Lab Sample ID: 720-91069-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	40		9.8	8.2	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	14		9.8	6.8	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	53		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	130		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	10		1.9	0.71	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	35	J	47	9.4	mg/Kg	1		8015B	Total/NA
Antimony	0.69	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	22		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	30		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	7.3		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.9		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	96		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	53		1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	4.2		1.5	0.15	mg/Kg	4		6010B	Total/NA
Silver	0.15	J	0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	69		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.089		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-75 Lab Sample ID: 720-91069-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.3	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.4		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	5.5		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.8	J	4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	3.2	J B	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	2.0	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.0	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.3	J	4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	3.3	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	6.5		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3.4		2.0	0.74	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	13	J	49	9.9	mg/Kg	1		8015B	Total/NA
Antimony	2.6		1.7	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	89		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	38		1.7	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	50		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	5.9		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	7.2		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	5.3		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	37		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.57	J	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.7	0.22	mg/Kg	4		6010B	Total/NA
Zinc	21		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.0049	J	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: TB-01.29-19 Lab Sample ID: 720-91069-25

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH13S-0.5-1 Lab Sample ID: 720-91069-1

Date Collected: 01/29/19 09:00 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		67	47	ug/Kg		01/29/19 19:00	02/05/19 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/29/19 19:00*	*02/05/19 11:40*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*01/29/19 19:00*	*02/05/19 11:40*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 11:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.7	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,1,1-Trichloroethane	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,1,2-Trichloroethane	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,1-Dichloroethane	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,1-Dichloropropene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,2,3-Trichlorobenzene	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,2,4-Trichlorobenzene	ND	*	3.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,2,4-Trimethylbenzene	ND	*	1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,2-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,2-Dichloroethane	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,2-Dichloropropane	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,3,5-Trimethylbenzene	ND	*	1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,3-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,3-Dichloropropane	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,4-Dichlorobenzene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
2,2-Dichloropropane	ND	*	1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
2-Chlorotoluene	ND	*	1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
2-Hexanone	ND		6.7	3.3	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
4-Chlorotoluene	ND	*	1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
4-Isopropyltoluene	ND	*	0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Benzene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Bromobenzene	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Bromoform	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Bromomethane	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Carbon disulfide	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Carbon tetrachloride	ND	*	1.3	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Chlorobenzene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Chlorobromomethane	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Chloroethane	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Chloroform	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Chloromethane	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
cis-1,2-Dichloroethene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
cis-1,3-Dichloropropene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Chlorodibromomethane	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Dibromomethane	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Dichlorobromomethane	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1

Client Sample ID: DG-AH13S-0.5-1 Lab Sample ID: 720-91069-1

Date Collected: 01/29/19 09:00 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Ethylbenzene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Hexachlorobutadiene	ND	*	1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Isopropylbenzene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Methylene Chloride	ND		6.7	3.3	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Methyl tert-butyl ether	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Naphthalene	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
n-Butylbenzene	ND	*	1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
N-Propylbenzene	ND	*	0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
sec-Butylbenzene	ND	*	1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Styrene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
tert-Butylbenzene	ND	*	1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Tetrachloroethene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Toluene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
trans-1,2-Dichloroethene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
trans-1,3-Dichloropropene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Trichloroethene	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Trichlorofluoromethane	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.7	3.3	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Vinyl acetate	ND		5.3	2.7	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Vinyl chloride	ND		1.3	0.67	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Xylenes, Total	ND		1.3	0.87	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
Ethylene Dibromide	ND		0.67	0.33	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
2-Butanone (MEK)	ND		6.7	3.3	ug/Kg		01/29/19 19:00	02/05/19 11:40	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		01/29/19 19:00	02/05/19 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 11:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/29/19 19:00*	*02/05/19 11:40*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		490	250	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Acenaphthene	ND		250	140	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Acenaphthylene	ND		250	120	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Anthracene	ND		250	98	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Benzo[a]anthracene	ND		250	74	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Benzo[a]pyrene	ND		250	94	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Benzo[b]fluoranthene	ND		250	100	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Benzo[g,h,i]perylene	ND		250	210	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Benzo[k]fluoranthene	ND		250	100	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Chrysene	ND		250	69	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Dibenz(a,h)anthracene	ND		250	170	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Fluoranthene	ND		250	69	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Fluorene	ND		250	110	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Indeno[1,2,3-cd]pyrene	ND		250	210	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Naphthalene	ND		250	170	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Phenanthrene	ND		250	89	ug/Kg		02/01/19 10:22	02/12/19 16:50	50
Pyrene	ND		250	84	ug/Kg		02/01/19 10:22	02/12/19 16:50	50

Client Sample ID: DG-AH13S-0.5-1
Date Collected: 01/29/19 09:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-1
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*33 - 120*	*02/01/19 10:22*	*02/12/19 16:50*	*50*
Terphenyl-d14	*128*		*35 - 146*	*02/01/19 10:22*	*02/12/19 16:50*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**670**		39	15	mg/Kg		02/01/19 12:44	02/10/19 05:35	20
Motor Oil Range Organics [C24-C36]	**2200**		990	200	mg/Kg		02/01/19 12:44	02/10/19 05:35	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 12:44*	*02/10/19 05:35*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	1.2	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
4,4'-DDE	ND		3.9	0.83	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
4,4'-DDT	ND	F1 F2	3.9	0.81	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Aldrin	ND		3.9	0.99	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
alpha-BHC	ND		3.9	1.1	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
alpha-Chlordane	ND		3.9	0.79	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
beta-BHC	ND	F2	3.9	0.71	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Chlordane (technical)	ND		79	6.3	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
delta-BHC	ND		3.9	0.87	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Dieldrin	ND		3.9	1.2	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Endosulfan I	ND		3.9	0.63	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Endosulfan II	ND		3.9	0.97	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Endosulfan sulfate	ND	F1	3.9	0.75	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Endrin	ND		3.9	0.91	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Endrin aldehyde	ND	F1	3.9	1.2	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Endrin ketone	ND	F1 F2	3.9	0.65	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
gamma-Chlordane	ND		3.9	0.91	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Heptachlor	ND		3.9	0.91	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Heptachlor epoxide	ND		3.9	0.69	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Methoxychlor	ND	F1	3.9	1.3	ug/Kg		02/01/19 11:12	02/09/19 23:20	2
Toxaphene	ND		79	13	ug/Kg		02/01/19 11:12	02/09/19 23:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*21 - 136*	*02/01/19 11:12*	*02/09/19 23:20*	*2*
Tetrachloro-m-xylene	*77*		*21 - 145*	*02/01/19 11:12*	*02/09/19 23:20*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	F1	50	17	ug/Kg		02/04/19 13:17	02/05/19 17:09	1
Aroclor 1221	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 17:09	1
Aroclor 1232	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 17:09	1
Aroclor 1242	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 17:09	1
Aroclor 1248	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 17:09	1
Aroclor 1254	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 17:09	1
Aroclor 1260	ND	F1	50	17	ug/Kg		02/04/19 13:17	02/05/19 17:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AH13S-0.5-1

Date Collected: 01/29/19 09:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*28*	*X*	*45 - 120*	*02/04/19 13:17*	*02/05/19 17:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.26	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Arsenic	**1.0**	**J**	3.2	0.27	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Barium	**40**		1.6	0.23	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Beryllium	ND		0.32	0.10	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Cadmium	ND		0.40	0.039	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Chromium	**10**		1.6	0.17	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Cobalt	**7.1**		0.63	0.063	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Copper	**110**		4.8	2.3	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Lead	**20**		1.6	0.33	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Nickel	**6.5**		1.6	0.16	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Selenium	ND		3.2	0.48	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Silver	ND		0.79	0.16	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Thallium	ND		1.6	0.46	mg/Kg		01/31/19 09:30	02/05/19 16:14	4
Vanadium	**67**		1.6	0.22	mg/Kg		01/31/19 09:30	02/01/19 17:49	4
Zinc	**57**		4.8	2.0	mg/Kg		01/31/19 09:30	02/01/19 17:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.089**		0.015	0.0023	mg/Kg		02/11/19 17:38	02/12/19 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		0.1	0.05	%			01/30/19 14:39	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AH13S-3.5-4

Date Collected: 01/29/19 09:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		84	59	ug/Kg		02/05/19 22:14	02/05/19 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*02/05/19 22:14*	*02/05/19 23:14*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*02/05/19 22:14*	*02/05/19 23:14*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*02/05/19 22:14*	*02/05/19 23:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.4	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,1,1-Trichloroethane	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,1,2-Trichloroethane	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,1-Dichloroethane	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,1-Dichloropropene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,2,3-Trichlorobenzene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,2,4-Trichlorobenzene	ND		4.2	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,2,4-Trimethylbenzene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,2-Dichlorobenzene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,2-Dichloroethane	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,2-Dichloropropane	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,3,5-Trimethylbenzene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,3-Dichlorobenzene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,3-Dichloropropane	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,4-Dichlorobenzene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
2,2-Dichloropropane	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
2-Chlorotoluene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
2-Hexanone	ND		8.4	4.2	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
4-Chlorotoluene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
4-Isopropyltoluene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Benzene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Bromobenzene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Bromoform	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Bromomethane	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Carbon disulfide	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Chlorobenzene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Chlorobromomethane	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Chloroethane	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Chloroform	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Chloromethane	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
cis-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
cis-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Chlorodibromomethane	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Dibromomethane	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Dichlorobromomethane	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1

Client Sample ID: DG-AH13S-3.5-4 Lab Sample ID: 720-91069-2

Date Collected: 01/29/19 09:00 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Ethylbenzene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Hexachlorobutadiene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Isopropylbenzene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Methylene Chloride	ND		8.4	4.2	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Methyl tert-butyl ether	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Naphthalene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
n-Butylbenzene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
N-Propylbenzene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
sec-Butylbenzene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Styrene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
tert-Butylbenzene	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Tetrachloroethene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Toluene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
trans-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
trans-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Trichloroethene	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Trichlorofluoromethane	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.4	4.2	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Vinyl acetate	ND		6.7	3.4	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Vinyl chloride	ND		1.7	0.84	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
Ethylene Dibromide	ND		0.84	0.42	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
2-Butanone (MEK)	ND		8.4	4.2	ug/Kg		02/05/19 22:14	02/05/19 23:14	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		02/05/19 22:14	02/05/19 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*02/05/19 22:14*	*02/05/19 23:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*02/05/19 22:14*	*02/05/19 23:14*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		980	490	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Acenaphthene	ND		490	280	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Acenaphthylene	ND		490	240	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Anthracene	ND		490	200	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Benzo[a]anthracene	ND		490	150	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Benzo[a]pyrene	ND		490	190	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Benzo[b]fluoranthene	ND		490	210	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Benzo[g,h,i]perylene	ND		490	420	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Benzo[k]fluoranthene	ND		490	210	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Chrysene	ND		490	140	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Dibenz(a,h)anthracene	ND		490	340	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Fluoranthene	ND		490	140	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Fluorene	ND		490	220	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Indeno[1,2,3-cd]pyrene	ND		490	410	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Naphthalene	ND		490	340	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Phenanthrene	ND		490	180	ug/Kg		02/01/19 10:22	02/12/19 17:14	100
Pyrene	ND		490	170	ug/Kg		02/01/19 10:22	02/12/19 17:14	100

Client Sample ID: DG-AH13S-3.5-4
Date Collected: 01/29/19 09:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-2
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*02/01/19 10:22*	*02/12/19 17:14*	*100*
Terphenyl-d14	*137*		*35 - 146*	*02/01/19 10:22*	*02/12/19 17:14*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2200**		39	15	mg/Kg		02/01/19 12:44	02/10/19 06:05	20
Motor Oil Range Organics [C24-C36]	**4300**		990	200	mg/Kg		02/01/19 12:44	02/10/19 06:05	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 12:44*	*02/10/19 06:05*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
4,4'-DDE	ND		20	4.2	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
4,4'-DDT	ND		20	4.1	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Aldrin	ND		20	5.0	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
alpha-BHC	ND		20	5.4	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
alpha-Chlordane	ND		20	4.0	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
beta-BHC	ND		20	3.6	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Chlordane (technical)	ND		400	32	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
delta-BHC	ND		20	4.4	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Dieldrin	ND		20	5.8	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Endosulfan I	ND		20	3.2	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Endosulfan II	ND		20	4.9	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Endosulfan sulfate	ND		20	3.8	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Endrin	ND		20	4.6	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Endrin aldehyde	ND		20	6.2	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Endrin ketone	ND		20	3.3	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
gamma-Chlordane	ND		20	4.6	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Heptachlor	ND		20	4.6	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Heptachlor epoxide	ND		20	3.5	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Methoxychlor	ND		20	6.7	ug/Kg		02/01/19 11:12	02/09/19 23:36	10
Toxaphene	ND		400	67	ug/Kg		02/01/19 11:12	02/09/19 23:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*02/01/19 11:12*	*02/09/19 23:36*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*02/01/19 11:12*	*02/09/19 23:36*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:39	1
Aroclor 1221	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:39	1
Aroclor 1232	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:39	1
Aroclor 1242	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:39	1
Aroclor 1248	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:39	1
Aroclor 1254	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:39	1
Aroclor 1260	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:39	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AH13S-3.5-4

Date Collected: 01/29/19 09:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*37*	*X*	*45 - 120*	*02/04/19 13:17*	*02/06/19 20:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.6	0.27	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Arsenic	8.3		3.2	0.27	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Barium	110		1.6	0.23	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Beryllium	0.14	J	0.32	0.10	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Cadmium	0.12	J	0.40	0.040	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Chromium	52		1.6	0.17	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Cobalt	9.4		0.64	0.064	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Copper	27		4.8	2.3	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Lead	120		1.6	0.34	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Molybdenum	0.25	J	1.6	0.20	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Nickel	36		1.6	0.16	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Selenium	0.90	J	3.2	0.48	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Silver	ND		0.80	0.16	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Thallium	ND		1.6	0.46	mg/Kg		01/31/19 09:30	02/05/19 16:19	4
Vanadium	49		1.6	0.22	mg/Kg		01/31/19 09:30	02/01/19 17:54	4
Zinc	63		4.8	2.0	mg/Kg		01/31/19 09:30	02/01/19 17:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.085		0.015	0.0021	mg/Kg		02/11/19 17:38	02/12/19 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.2		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-AH13S-7.5-8 Lab Sample ID: 720-91069-3

Date Collected: 01/29/19 09:00 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**120000**		9300	6500	ug/Kg		01/31/19 17:44	02/07/19 16:33	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*55 - 140*	*01/31/19 17:44*	*02/07/19 16:33*	*100*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*	*01/31/19 17:44*	*02/07/19 16:33*	*100*
Toluene-d8 (Surr)	*100*		*60 - 140*	*01/31/19 17:44*	*02/07/19 16:33*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		470	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,1,1,2-Tetrachloroethane	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,1,1-Trichloroethane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,1,2,2-Tetrachloroethane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,1,2-Trichloroethane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,1-Dichloroethane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,1-Dichloroethene	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,1-Dichloropropene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,2,3-Trichlorobenzene	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,2,4-Trichlorobenzene	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,2,4-Trimethylbenzene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,2-Dibromo-3-Chloropropane	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,2-Dichlorobenzene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,2-Dichloroethane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,2-Dichloropropane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,3,5-Trimethylbenzene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,3-Dichlorobenzene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,3-Dichloropropane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,4-Dichlorobenzene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
2,2-Dichloropropane	ND		190	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
2-Chlorotoluene	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
2-Hexanone	ND		1200	470	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
4-Chlorotoluene	ND		230	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
4-Isopropyltoluene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Benzene	**82**	**J**	93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Bromobenzene	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Bromoform	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Bromomethane	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Carbon disulfide	**210**	**J**	230	120	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Carbon tetrachloride	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Chlorobenzene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Chlorobromomethane	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Chloroethane	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Chloroform	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Chloromethane	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
cis-1,2-Dichloroethene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
cis-1,3-Dichloropropene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Chlorodibromomethane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Dibromomethane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Dichlorobromomethane	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100

Client Sample ID: DG-AH13S-7.5-8 Lab Sample ID: 720-91069-3

Date Collected: 01/29/19 09:00 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Ethylbenzene	**59**	**J**	93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Hexachlorobutadiene	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Isopropylbenzene	**330**		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Methylene Chloride	ND		930	470	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Methyl tert-butyl ether	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Naphthalene	**130**	**J**	230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
n-Butylbenzene	**370**		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
N-Propylbenzene	**490**		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
sec-Butylbenzene	**300**		230	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Styrene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
tert-Butylbenzene	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Tetrachloroethene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Toluene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
trans-1,2-Dichloroethene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
trans-1,3-Dichloropropene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Trichloroethene	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Trichlorofluoromethane	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		470	190	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Vinyl acetate	ND		470	230	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Vinyl chloride	ND		230	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Xylenes, Total	ND		190	93	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
Ethylene Dibromide	ND		93	47	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
2-Butanone (MEK)	ND		930	470	ug/Kg		01/31/19 17:44	02/07/19 16:33	100
4-Methyl-2-pentanone (MIBK)	ND		470	190	ug/Kg		01/31/19 17:44	02/07/19 16:33	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*60 - 140*	*01/31/19 17:44*	*02/07/19 16:33*	*100*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*	*01/31/19 17:44*	*02/07/19 16:33*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		4000	2000	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Acenaphthene	ND		2000	1100	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Acenaphthylene	**1000**	**J**	2000	950	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Anthracene	**4700**		2000	790	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Benzo[a]anthracene	ND		2000	600	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Benzo[a]pyrene	**1600**	**J B**	2000	750	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Benzo[b]fluoranthene	**1600**	**J**	2000	830	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Benzo[g,h,i]perylene	ND		2000	1700	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Benzo[k]fluoranthene	ND		2000	830	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Chrysene	**3800**		2000	560	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Dibenz(a,h)anthracene	ND		2000	1400	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Fluoranthene	**2100**		2000	560	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Fluorene	**5300**		2000	870	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Indeno[1,2,3-cd]pyrene	ND		2000	1700	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Naphthalene	ND		2000	1400	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Phenanthrene	**2300**		2000	710	ug/Kg		02/01/19 10:22	02/12/19 17:37	200
Pyrene	**7100**		2000	680	ug/Kg		02/01/19 10:22	02/12/19 17:37	200

Client Sample ID: DG-AH13S-7.5-8
Date Collected: 01/29/19 09:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-3
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X*	*33 - 120*	*02/01/19 10:22*	*02/12/19 17:37*	*200*
Terphenyl-d14	*0*	*X*	*35 - 146*	*02/01/19 10:22*	*02/12/19 17:37*	*200*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**20000**		200	74	mg/Kg		02/01/19 12:44	02/11/19 14:08	100
Motor Oil Range Organics [C24-C36]	**18000**		4900	980	mg/Kg		02/01/19 12:44	02/11/19 14:08	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D X*	*40 - 130*	*02/01/19 12:44*	*02/11/19 14:08*	*100*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.1	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
4,4'-DDE	ND		20	4.2	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
4,4'-DDT	ND		20	4.1	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Aldrin	ND		20	5.0	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
alpha-BHC	ND		20	5.5	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
alpha-Chlordane	ND		20	4.0	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
beta-BHC	ND		20	3.6	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Chlordane (technical)	ND		400	32	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
delta-BHC	ND		20	4.4	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Dieldrin	ND		20	5.9	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Endosulfan I	ND		20	3.2	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Endosulfan II	ND		20	4.9	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Endosulfan sulfate	ND		20	3.8	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Endrin	ND		20	4.6	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Endrin aldehyde	ND		20	6.3	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Endrin ketone	ND		20	3.3	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
gamma-BHC (Lindane)	ND		20	6.3	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
gamma-Chlordane	ND		20	4.6	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Heptachlor	ND		20	4.6	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Heptachlor epoxide	ND		20	3.5	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Methoxychlor	ND		20	6.8	ug/Kg		02/01/19 11:12	02/09/19 23:52	10
Toxaphene	ND		400	68	ug/Kg		02/01/19 11:12	02/09/19 23:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*02/01/19 11:12*	*02/09/19 23:52*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*02/01/19 11:12*	*02/09/19 23:52*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	34	ug/Kg		02/04/19 13:17	02/06/19 21:06	1
Aroclor 1221	ND		100	34	ug/Kg		02/04/19 13:17	02/06/19 21:06	1
Aroclor 1232	ND		100	34	ug/Kg		02/04/19 13:17	02/06/19 21:06	1
Aroclor 1242	ND		100	34	ug/Kg		02/04/19 13:17	02/06/19 21:06	1
Aroclor 1248	ND		100	34	ug/Kg		02/04/19 13:17	02/06/19 21:06	1
Aroclor 1254	ND		100	34	ug/Kg		02/04/19 13:17	02/06/19 21:06	1
Aroclor 1260	ND		100	34	ug/Kg		02/04/19 13:17	02/06/19 21:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AH13S-7.5-8

Date Collected: 01/29/19 09:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*02/04/19 13:17*	*02/06/19 21:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	15		3.8	0.64	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Arsenic	37		7.7	0.65	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Barium	51		3.8	0.55	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Beryllium	0.63	J	0.77	0.25	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Cadmium	2.8		0.96	0.095	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Chromium	170		3.8	0.41	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Cobalt	44		1.5	0.15	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Copper	1200		12	5.5	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Lead	1600		3.8	0.81	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Molybdenum	1.0	J	3.8	0.49	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Nickel	240		3.8	0.39	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Selenium	ND		7.7	1.2	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Silver	1.7	J	1.9	0.39	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Thallium	ND		3.8	1.1	mg/Kg		01/31/19 09:30	02/05/19 16:23	10
Vanadium	110		3.8	0.52	mg/Kg		01/31/19 09:30	02/01/19 17:59	10
Zinc	3200		12	4.9	mg/Kg		01/31/19 09:30	02/01/19 17:59	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.015	0.0023	mg/Kg		02/11/19 17:38	02/12/19 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.7		0.1	0.05	%			01/30/19 14:39	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AJ13S-0.5-1

Date Collected: 01/29/19 09:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg		01/29/19 19:00	02/05/19 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/29/19 19:00*	*02/05/19 12:29*	*1*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*	*01/29/19 19:00*	*02/05/19 12:29*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 12:29*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,2,4-Trichlorobenzene	ND	*	5.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,2,4-Trimethylbenzene	ND	*	2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,3,5-Trimethylbenzene	ND	*	2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
2,2-Dichloropropane	ND	*	2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
2-Chlorotoluene	ND	*	2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
2-Hexanone	ND		10	5.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
4-Chlorotoluene	ND	*	2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
4-Isopropyltoluene	ND	*	1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Benzene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Bromobenzene	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Bromoform	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Bromomethane	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Carbon disulfide	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Carbon tetrachloride	ND	*	2.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Chlorobenzene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Chloroethane	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Chloroform	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Chloromethane	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Dibromomethane	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1

Client Sample ID: DG-AJ13S-0.5-1 Lab Sample ID: 720-91069-4

Date Collected: 01/29/19 09:30 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Ethylbenzene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Hexachlorobutadiene	ND	*	2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Methylene Chloride	ND		10	5.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Naphthalene	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
n-Butylbenzene	ND	*	2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
N-Propylbenzene	ND	*	1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
sec-Butylbenzene	ND	*	2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Styrene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
tert-Butylbenzene	ND	*	2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Toluene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Trichloroethene	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Vinyl acetate	ND		8.0	4.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Vinyl chloride	ND		2.0	1.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg		01/29/19 19:00	02/05/19 12:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg		01/29/19 19:00	02/05/19 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 12:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*01/29/19 19:00*	*02/05/19 12:29*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		490	250	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Acenaphthene	ND		250	140	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Acenaphthylene	ND		250	120	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Anthracene	ND		250	99	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Benzo[a]anthracene	ND		250	74	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Benzo[a]pyrene	**240**	**J B**	250	94	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Benzo[b]fluoranthene	**200**	**J**	250	100	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Benzo[g,h,i]perylene	**250**		250	210	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Benzo[k]fluoranthene	**150**	**J B**	250	100	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Chrysene	ND		250	69	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Dibenz(a,h)anthracene	ND		250	170	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Fluoranthene	ND		250	69	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Fluorene	ND		250	110	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Indeno[1,2,3-cd]pyrene	ND		250	210	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Naphthalene	ND		250	170	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Phenanthrene	ND		250	89	ug/Kg		02/01/19 10:22	02/13/19 07:09	50
Pyrene	**130**	**J**	250	84	ug/Kg		02/01/19 10:22	02/13/19 07:09	50

Client Sample ID: DG-AJ13S-0.5-1
Date Collected: 01/29/19 09:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-4
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*33 - 120*	*02/01/19 10:22*	*02/13/19 07:09*	*50*
Terphenyl-d14	*103*		*35 - 146*	*02/01/19 10:22*	*02/13/19 07:09*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3300**		97	37	mg/Kg		02/01/19 12:44	02/11/19 14:38	50
Motor Oil Range Organics [C24-C36]	**8200**		2400	490	mg/Kg		02/01/19 12:44	02/11/19 14:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D X*	*40 - 130*	*02/01/19 12:44*	*02/11/19 14:38*	*50*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
4,4'-DDE	ND		20	4.2	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
4,4'-DDT	ND		20	4.1	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Aldrin	ND		20	5.0	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
alpha-BHC	ND		20	5.5	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
alpha-Chlordane	ND		20	4.0	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
beta-BHC	ND		20	3.6	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Chlordane (technical)	ND		400	32	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
delta-BHC	ND		20	4.4	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Dieldrin	ND		20	5.8	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Endosulfan I	ND		20	3.2	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Endosulfan II	ND		20	4.9	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Endosulfan sulfate	ND		20	3.8	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Endrin	ND		20	4.6	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Endrin aldehyde	ND		20	6.2	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Endrin ketone	ND		20	3.3	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
gamma-Chlordane	ND		20	4.6	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Heptachlor	ND		20	4.6	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Heptachlor epoxide	ND		20	3.5	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Methoxychlor	ND		20	6.7	ug/Kg		02/01/19 11:12	02/10/19 00:09	10
Toxaphene	ND		400	68	ug/Kg		02/01/19 11:12	02/10/19 00:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*02/01/19 11:12*	*02/10/19 00:09*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*02/01/19 11:12*	*02/10/19 00:09*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:20	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:20	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:20	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:20	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:20	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:20	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:20	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AJ13S-0.5-1

Date Collected: 01/29/19 09:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*37*	*X*	*45 - 120*	*02/04/19 13:17*	*02/06/19 21:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.50**	**J F1**	1.9	0.31	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Arsenic	**190**	**F1**	3.7	0.31	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Barium	**44**	**F1**	1.9	0.26	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Beryllium	ND		0.37	0.12	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Cadmium	**0.21**	**J**	0.46	0.046	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Chromium	**10**		1.9	0.20	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Cobalt	**11**		0.74	0.074	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Copper	**81**	**F1**	5.6	2.6	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Lead	**83**	**F1**	1.9	0.39	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Nickel	**15**		1.9	0.19	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Selenium	**0.70**	**J**	3.7	0.56	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Silver	**0.63**	**J**	0.93	0.19	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Thallium	ND		1.9	0.54	mg/Kg		01/31/19 09:30	03/12/19 10:27	4
Vanadium	**68**	**F1**	1.9	0.25	mg/Kg		01/31/19 09:30	02/01/19 17:44	4
Zinc	**70**	**F1**	5.6	2.4	mg/Kg		01/31/19 09:30	02/01/19 17:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.7**		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-AJ13S-3.5-4 Lab Sample ID: 720-91069-5

Date Collected: 01/29/19 09:30 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	49	ug/Kg		01/29/19 19:00	02/05/19 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/29/19 19:00*	*02/05/19 12:53*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/29/19 19:00*	*02/05/19 12:53*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 12:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,1,1-Trichloroethane	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,1,2-Trichloroethane	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,1-Dichloroethane	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,1-Dichloropropene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,2,4-Trichlorobenzene	ND	*	3.5	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,2,4-Trimethylbenzene	ND	*	1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,2-Dichlorobenzene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,2-Dichloroethane	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,2-Dichloropropane	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,3,5-Trimethylbenzene	ND	*	1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,3-Dichlorobenzene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,3-Dichloropropane	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,4-Dichlorobenzene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
2,2-Dichloropropane	ND	*	1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
2-Chlorotoluene	ND	*	1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
2-Hexanone	ND		6.9	3.5	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
4-Chlorotoluene	ND	*	1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
4-Isopropyltoluene	ND	*	0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Benzene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Bromoform	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Carbon tetrachloride	ND	*	1.4	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Chlorobenzene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Chloroform	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
cis-1,2-Dichloroethene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
cis-1,3-Dichloropropene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Chlorodibromomethane	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Dibromomethane	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Dichlorobromomethane	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1

Client Sample ID: DG-AJ13S-3.5-4 Lab Sample ID: 720-91069-5

Date Collected: 01/29/19 09:30 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Ethylbenzene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Hexachlorobutadiene	ND	*	1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Isopropylbenzene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Methylene Chloride	ND		6.9	3.5	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
n-Butylbenzene	ND	*	1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
N-Propylbenzene	ND	*	0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
sec-Butylbenzene	ND	*	1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Styrene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
tert-Butylbenzene	ND	*	1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Tetrachloroethene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Toluene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
trans-1,2-Dichloroethene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
trans-1,3-Dichloropropene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Trichloroethene	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.5	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
Ethylene Dibromide	ND		0.69	0.35	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
2-Butanone (MEK)	ND		6.9	3.5	ug/Kg		01/29/19 19:00	02/05/19 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.7	ug/Kg		01/29/19 19:00	02/05/19 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 12:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*01/29/19 19:00*	*02/05/19 12:53*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		49	24	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Acenaphthene	ND		24	14	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Acenaphthylene	ND		24	12	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Anthracene	ND		24	9.8	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Benzo[a]anthracene	ND		24	7.3	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Benzo[a]pyrene	**17**	**J B**	24	9.3	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Benzo[b]fluoranthene	**15**	**J**	24	10	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Benzo[g,h,i]perylene	ND		24	21	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Benzo[k]fluoranthene	**13**	**J B**	24	10	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Chrysene	**7.0**	**J**	24	6.8	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Dibenz(a,h)anthracene	ND		24	17	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Fluoranthene	**9.5**	**J**	24	6.8	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Fluorene	ND		24	11	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Indeno[1,2,3-cd]pyrene	ND		24	21	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Naphthalene	ND		24	17	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Phenanthrene	ND		24	8.8	ug/Kg		02/01/19 10:22	02/13/19 07:33	5
Pyrene	**20**	**J**	24	8.3	ug/Kg		02/01/19 10:22	02/13/19 07:33	5

Client Sample ID: DG-AJ13S-3.5-4
Date Collected: 01/29/19 09:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-5
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		33 - 120	02/01/19 10:22	02/13/19 07:33	5
Terphenyl-d14	143		35 - 146	02/01/19 10:22	02/13/19 07:33	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	130		3.9	1.5	mg/Kg		02/01/19 12:44	02/11/19 15:07	2
Motor Oil Range Organics [C24-C36]	280		98	20	mg/Kg		02/01/19 12:44	02/11/19 15:07	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	103		40 - 130	02/01/19 12:44	02/11/19 15:07	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Chlordane (technical)	ND		39	3.2	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 11:12	02/10/19 00:25	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/10/19 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		21 - 136	02/01/19 11:12	02/10/19 00:25	1
Tetrachloro-m-xylene	93	p	21 - 145	02/01/19 11:12	02/10/19 00:25	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:02	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:02	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:02	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:02	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:02	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:02	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AJ13S-3.5-4

Date Collected: 01/29/19 09:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-5

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	61		45 - 120	02/04/19 13:17	02/05/19 18:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.8	0.29	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Arsenic	33		3.5	0.30	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Barium	150		1.8	0.25	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Beryllium	0.14	J	0.35	0.11	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Cadmium	0.36	J	0.44	0.044	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Chromium	8.4		1.8	0.19	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Cobalt	10		0.70	0.070	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Copper	220		5.3	2.5	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Lead	52		1.8	0.37	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Molybdenum	ND		1.8	0.22	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Nickel	10		1.8	0.18	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Selenium	ND		3.5	0.53	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Silver	0.35	J	0.88	0.18	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Thallium	ND		1.8	0.51	mg/Kg		01/31/19 09:30	02/05/19 16:28	4
Vanadium	77		1.8	0.24	mg/Kg		01/31/19 09:30	02/01/19 18:13	4
Zinc	380		5.3	2.2	mg/Kg		01/31/19 09:30	02/01/19 18:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.015	0.0021	mg/Kg		02/11/19 17:38	02/12/19 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-AL13S-0.5-1 Lab Sample ID: 720-91069-6

Date Collected: 01/29/19 09:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	49	ug/Kg		01/29/19 19:00	02/05/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/29/19 19:00*	*02/05/19 13:18*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/29/19 19:00*	*02/05/19 13:18*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 13:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,1,1-Trichloroethane	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,1,2-Trichloroethane	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,1-Dichloroethane	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,1-Dichloropropene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,2,4-Trichlorobenzene	ND	*	3.5	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,2,4-Trimethylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,2-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,2-Dichloroethane	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,2-Dichloropropane	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,3,5-Trimethylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,3-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,3-Dichloropropane	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,4-Dichlorobenzene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
2,2-Dichloropropane	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
2-Chlorotoluene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
2-Hexanone	ND		7.1	3.5	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
4-Chlorotoluene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
4-Isopropyltoluene	ND	*	0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Benzene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Bromoform	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Carbon tetrachloride	ND	*	1.4	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Chlorobenzene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Chloroform	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
cis-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
cis-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Chlorodibromomethane	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Dibromomethane	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Dichlorobromomethane	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1

Client Sample ID: DG-AL13S-0.5-1 Lab Sample ID: 720-91069-6

Date Collected: 01/29/19 09:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Ethylbenzene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Hexachlorobutadiene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Isopropylbenzene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Methylene Chloride	ND		7.1	3.5	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
n-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
N-Propylbenzene	ND	*	0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
sec-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Styrene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
tert-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Tetrachloroethene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Toluene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
trans-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
trans-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Trichloroethene	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.5	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Xylenes, Total	ND		1.4	0.92	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
Ethylene Dibromide	ND		0.71	0.35	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
2-Butanone (MEK)	ND		7.1	3.5	ug/Kg		01/29/19 19:00	02/05/19 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		01/29/19 19:00	02/05/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 13:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*01/29/19 19:00*	*02/05/19 13:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		20	9.8	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Acenaphthene	ND		9.8	5.5	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Acenaphthylene	**7.0**	**J**	9.8	4.7	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Anthracene	**8.6**	**J**	9.8	3.9	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Benzo[a]anthracene	**20**		9.8	2.9	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Benzo[a]pyrene	**26**	**B**	9.8	3.7	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Benzo[b]fluoranthene	**43**		9.8	4.1	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Benzo[g,h,i]perylene	**18**		9.8	8.4	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Benzo[k]fluoranthene	**18**	**B**	9.8	4.1	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Chrysene	**17**		9.8	2.7	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Dibenz(a,h)anthracene	**7.5**	**J**	9.8	6.9	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Fluoranthene	**30**		9.8	2.7	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Fluorene	ND		9.8	4.3	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Indeno[1,2,3-cd]pyrene	**13**		9.8	8.2	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Naphthalene	ND		9.8	6.9	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Phenanthrene	**9.1**	**J**	9.8	3.5	ug/Kg		02/01/19 10:22	02/13/19 07:56	2
Pyrene	**39**		9.8	3.3	ug/Kg		02/01/19 10:22	02/13/19 07:56	2

Client Sample ID: DG-AL13S-0.5-1
Date Collected: 01/29/19 09:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-6
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*02/01/19 10:22*	*02/13/19 07:56*	*2*
Terphenyl-d14	*116*		*35 - 146*	*02/01/19 10:22*	*02/13/19 07:56*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**60**		4.0	1.5	mg/Kg		02/01/19 12:44	02/11/19 15:36	2
Motor Oil Range Organics [C24-C36]	**170**		99	20	mg/Kg		02/01/19 12:44	02/11/19 15:36	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*40 - 130*	*02/01/19 12:44*	*02/11/19 15:36*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Chlordane (technical)	ND		39	3.1	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Endosulfan I	ND		2.0	0.31	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Endrin ketone	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 11:12	02/10/19 00:41	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/10/19 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*	*p*	*21 - 136*	*02/01/19 11:12*	*02/10/19 00:41*	*1*
Tetrachloro-m-xylene	*97*		*21 - 145*	*02/01/19 11:12*	*02/10/19 00:41*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:15	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:15	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:15	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:15	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:15	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:15	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AL13S-0.5-1

Date Collected: 01/29/19 09:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*02/04/19 13:17*	*02/05/19 18:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.93**	**J**	1.2	0.19	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Arsenic	**7.5**		2.3	0.20	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Barium	**38**		1.2	0.17	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Beryllium	**0.12**	**J**	0.23	0.076	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Cadmium	**0.29**		0.29	0.029	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Chromium	**14**		1.2	0.12	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Cobalt	**15**		0.47	0.047	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Copper	**120**		3.5	1.7	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Lead	**52**		1.2	0.24	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Molybdenum	**0.28**	**J**	1.2	0.15	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Nickel	**18**		1.2	0.12	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Selenium	**0.98**	**J**	2.3	0.35	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Silver	ND		0.58	0.12	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Thallium	ND		1.2	0.34	mg/Kg		01/31/19 09:30	02/05/19 16:33	4
Vanadium	**91**		1.2	0.16	mg/Kg		01/31/19 09:30	02/01/19 18:18	4
Zinc	**110**		3.5	1.5	mg/Kg		01/31/19 09:30	02/01/19 18:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-AL13S-3.5-4 Lab Sample ID: 720-91069-7

Date Collected: 01/29/19 09:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		68	48	ug/Kg		01/29/19 19:00	02/05/19 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*	*01/29/19 19:00*	*02/05/19 13:42*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/29/19 19:00*	*02/05/19 13:42*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 13:42*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.8	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,1,1-Trichloroethane	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,1,2-Trichloroethane	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,1-Dichloroethane	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,1-Dichloropropene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,2,3-Trichlorobenzene	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,2,4-Trichlorobenzene	ND	*	3.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,2,4-Trimethylbenzene	ND	*	1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,2-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,2-Dichloroethane	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,2-Dichloropropane	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,3,5-Trimethylbenzene	ND	*	1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,3-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,3-Dichloropropane	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,4-Dichlorobenzene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
2,2-Dichloropropane	ND	*	1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
2-Chlorotoluene	ND	*	1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
2-Hexanone	ND		6.8	3.4	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
4-Chlorotoluene	ND	*	1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
4-Isopropyltoluene	ND	*	0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Benzene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Bromobenzene	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Bromoform	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Bromomethane	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Carbon disulfide	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Carbon tetrachloride	ND	*	1.4	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Chlorobenzene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Chlorobromomethane	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Chloroethane	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Chloroform	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Chloromethane	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
cis-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
cis-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Chlorodibromomethane	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Dibromomethane	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Dichlorobromomethane	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1

Client Sample ID: DG-AL13S-3.5-4 Lab Sample ID: 720-91069-7

Date Collected: 01/29/19 09:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Ethylbenzene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Hexachlorobutadiene	ND	*	1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Isopropylbenzene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Methylene Chloride	ND		6.8	3.4	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Methyl tert-butyl ether	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Naphthalene	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
n-Butylbenzene	ND	*	1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
N-Propylbenzene	ND	*	0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
sec-Butylbenzene	ND	*	1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Styrene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
tert-Butylbenzene	ND	*	1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Tetrachloroethene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Toluene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
trans-1,2-Dichloroethene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
trans-1,3-Dichloropropene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Trichloroethene	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Trichlorofluoromethane	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.8	3.4	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Vinyl acetate	ND		5.4	2.7	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Vinyl chloride	ND		1.4	0.68	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Xylenes, Total	ND		1.4	0.88	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
Ethylene Dibromide	ND		0.68	0.34	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
2-Butanone (MEK)	ND		6.8	3.4	ug/Kg		01/29/19 19:00	02/05/19 13:42	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/29/19 19:00	02/05/19 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 13:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*01/29/19 19:00*	*02/05/19 13:42*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	5.0	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Acenaphthene	ND		5.0	2.8	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Anthracene	**2.2**	**J**	5.0	2.0	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Benzo[a]pyrene	**4.7**	**J B**	5.0	1.9	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Benzo[b]fluoranthene	**4.7**	**J**	5.0	2.1	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Benzo[g,h,i]perylene	**5.1**		5.0	4.3	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Benzo[k]fluoranthene	**2.7**	**J B**	5.0	2.1	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Chrysene	**2.5**	**J**	5.0	1.4	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Fluoranthene	**3.8**	**J**	5.0	1.4	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Fluorene	ND		5.0	2.2	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Naphthalene	ND		5.0	3.5	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Phenanthrene	ND		5.0	1.8	ug/Kg		02/01/19 10:22	02/12/19 01:12	1
Pyrene	**6.3**		5.0	1.7	ug/Kg		02/01/19 10:22	02/12/19 01:12	1

Client Sample ID: DG-AL13S-3.5-4
Lab Sample ID: 720-91069-7

Date Collected: 01/29/19 09:50
Matrix: Solid
Date Received: 01/29/19 18:25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*33 - 120*	*02/01/19 10:22*	*02/12/19 01:12*	*1*
Terphenyl-d14	*119*		*35 - 146*	*02/01/19 10:22*	*02/12/19 01:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6.3		1.9	0.73	mg/Kg		02/01/19 12:44	02/11/19 12:41	1
Motor Oil Range Organics [C24-C36]	17	J	49	9.7	mg/Kg		02/01/19 12:44	02/11/19 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*105*		*40 - 130*	*02/01/19 12:44*	*02/11/19 12:41*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Chlordane (technical)	ND		39	3.2	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 11:12	02/10/19 00:58	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/10/19 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*21 - 136*	*02/01/19 11:12*	*02/10/19 00:58*	*1*
Tetrachloro-m-xylene	*98*		*21 - 145*	*02/01/19 11:12*	*02/10/19 00:58*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:29	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:29	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:29	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:29	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:29	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:29	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 18:29	1

Client Sample ID: DG-AL13S-3.5-4 Lab Sample ID: 720-91069-7

Date Collected: 01/29/19 09:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*02/04/19 13:17*	*02/05/19 18:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.23	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Arsenic	**0.86**	**J**	2.8	0.23	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Barium	**26**		1.4	0.20	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Beryllium	**0.15**	**J**	0.28	0.090	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Cadmium	ND		0.34	0.034	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Chromium	**7.9**		1.4	0.15	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Cobalt	**8.8**		0.55	0.055	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Copper	**89**		4.1	2.0	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Lead	**4.8**		1.4	0.29	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Nickel	**3.8**		1.4	0.14	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Selenium	ND		2.8	0.41	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Silver	ND		0.69	0.14	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Thallium	ND		1.4	0.40	mg/Kg		01/31/19 09:30	02/05/19 16:38	4
Vanadium	**78**		1.4	0.19	mg/Kg		01/31/19 09:30	02/01/19 18:22	4
Zinc	**35**		4.1	1.8	mg/Kg		01/31/19 09:30	02/01/19 18:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.014	0.0021	mg/Kg		02/11/19 17:38	02/12/19 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.05	%			01/30/19 14:39	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AC11S-0.5-1
Lab Sample ID: 720-91069-8
Date Collected: 01/29/19 10:50
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	220000		37000	26000	ug/Kg		01/31/19 17:44	02/07/19 16:59	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*55 - 140*	*01/31/19 17:44*	*02/07/19 16:59*	*500*
4-Bromofluorobenzene (Surr)	*100*		*65 - 140*	*01/31/19 17:44*	*02/07/19 16:59*	*500*
Toluene-d8 (Surr)	*100*		*60 - 140*	*01/31/19 17:44*	*02/07/19 16:59*	*500*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1900	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,1,1,2-Tetrachloroethane	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,1,1-Trichloroethane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,1,2,2-Tetrachloroethane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,1,2-Trichloroethane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,1-Dichloroethane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,1-Dichloroethene	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,1-Dichloropropene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,2,3-Trichlorobenzene	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,2,4-Trichlorobenzene	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,2,4-Trimethylbenzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,2-Dibromo-3-Chloropropane	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,2-Dichlorobenzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,2-Dichloroethane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,2-Dichloropropane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,3,5-Trimethylbenzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,3-Dichlorobenzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,3-Dichloropropane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,4-Dichlorobenzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
2,2-Dichloropropane	ND		740	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
2-Chlorotoluene	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
2-Hexanone	ND		4600	1900	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
4-Chlorotoluene	ND		930	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
4-Isopropyltoluene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Benzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Bromobenzene	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Bromoform	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Bromomethane	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Carbon disulfide	ND		930	460	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Carbon tetrachloride	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Chlorobenzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Chlorobromomethane	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Chloroethane	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Chloroform	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Chloromethane	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
cis-1,2-Dichloroethene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
cis-1,3-Dichloropropene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Chlorodibromomethane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Dibromomethane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Dichlorobromomethane	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500

Client Sample ID: DG-AC11S-0.5-1 **Lab Sample ID: 720-91069-8**
Date Collected: 01/29/19 10:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Ethylbenzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Hexachlorobutadiene	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Isopropylbenzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Methylene Chloride	ND		3700	1900	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Methyl tert-butyl ether	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Naphthalene	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
n-Butylbenzene	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
N-Propylbenzene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
sec-Butylbenzene	ND		930	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Styrene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
tert-Butylbenzene	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Tetrachloroethene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Toluene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
trans-1,2-Dichloroethene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
trans-1,3-Dichloropropene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Trichloroethene	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Trichlorofluoromethane	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1900	740	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Vinyl acetate	ND		1900	930	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Vinyl chloride	ND		930	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Xylenes, Total	ND		740	370	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
Ethylene Dibromide	ND		370	190	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
2-Butanone (MEK)	ND		3700	1900	ug/Kg		01/31/19 17:44	02/07/19 16:59	500
4-Methyl-2-pentanone (MIBK)	ND		1900	740	ug/Kg		01/31/19 17:44	02/07/19 16:59	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*60 - 140*	*01/31/19 17:44*	*02/07/19 16:59*	*500*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*01/31/19 17:44*	*02/07/19 16:59*	*500*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	F1	390	200	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Acenaphthene	**130**	**J**	200	110	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Acenaphthylene	ND		200	94	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Anthracene	**140**	**J**	200	78	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Benzo[a]anthracene	ND	F1	200	59	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Benzo[a]pyrene	**110**	**J F1 ***	200	74	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Benzo[b]fluoranthene	**100**	**J F1 ***	200	82	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Benzo[g,h,i]perylene	ND	*	200	170	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Benzo[k]fluoranthene	**85**	**J F1 B ***	200	82	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Chrysene	ND	F1	200	55	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Dibenz(a,h)anthracene	ND	*	200	140	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Fluoranthene	**57**	**J**	200	55	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Fluorene	ND		200	86	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Indeno[1,2,3-cd]pyrene	ND	*	200	160	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Naphthalene	ND	F1	200	140	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Phenanthrene	**190**	**J**	200	70	ug/Kg		02/01/19 14:01	02/11/19 15:47	40
Pyrene	**190**	**J**	200	67	ug/Kg		02/01/19 14:01	02/11/19 15:47	40

Client Sample ID: DG-AC11S-0.5-1
Date Collected: 01/29/19 10:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-8
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		33 - 120	02/01/19 14:01	02/11/19 15:47	40
Terphenyl-d14	118		35 - 146	02/01/19 14:01	02/11/19 15:47	40

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5000		39	15	mg/Kg		02/01/19 12:44	02/10/19 01:42	20
Motor Oil Range Organics [C24-C36]	910	J	970	190	mg/Kg		02/01/19 12:44	02/10/19 01:42	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	02/01/19 12:44	02/10/19 01:42	20

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	4.2	p	2.0	0.60	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
4,4'-DDE	1.8	J	2.0	0.41	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Chlordane (technical)	ND		39	3.1	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Endosulfan I	ND		2.0	0.31	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Endrin ketone	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 11:12	02/10/19 01:14	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/10/19 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		21 - 136	02/01/19 11:12	02/10/19 01:14	1
Tetrachloro-m-xylene	95		21 - 145	02/01/19 11:12	02/10/19 01:14	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:34	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:34	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:34	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:34	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:34	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:34	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:34	1

Client Sample ID: DG-AC11S-0.5-1 Lab Sample ID: 720-91069-8

Date Collected: 01/29/19 10:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*02/04/19 13:17*	*02/06/19 21:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.17	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Arsenic	**1.2**	**J**	2.1	0.18	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Barium	**17**		1.0	0.15	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Beryllium	**0.14**	**J**	0.21	0.068	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Cadmium	**0.088**	**J**	0.26	0.026	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Chromium	**15**		1.0	0.11	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Cobalt	**11**		0.42	0.042	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Copper	**62**		3.1	1.5	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Lead	**16**		1.0	0.22	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Molybdenum	**0.45**	**J**	1.0	0.13	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Nickel	**9.1**		1.0	0.11	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Selenium	ND		2.1	0.31	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Silver	ND		0.52	0.11	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Thallium	ND		1.0	0.30	mg/Kg		01/31/19 09:30	02/05/19 16:42	4
Vanadium	**79**		1.0	0.14	mg/Kg		01/31/19 09:30	02/01/19 18:27	4
Zinc	**50**		3.1	1.3	mg/Kg		01/31/19 09:30	02/01/19 18:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**		0.014	0.0021	mg/Kg		02/11/19 17:38	02/12/19 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-AC11S-3.5-4 — Lab Sample ID: 720-91069-9

Date Collected: 01/29/19 10:50 — **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	99		71	50	ug/Kg		01/29/19 19:00	02/05/19 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/29/19 19:00*	*02/05/19 14:07*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/29/19 19:00*	*02/05/19 14:07*	*1*
Toluene-d8 (Surr)	*94*		*79 - 123*	*01/29/19 19:00*	*02/05/19 14:07*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,1,1-Trichloroethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,1,2-Trichloroethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,1-Dichloroethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,1-Dichloropropene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,2,4-Trichlorobenzene	ND	*	3.6	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,2,4-Trimethylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,2-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,2-Dichloroethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,2-Dichloropropane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,3,5-Trimethylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,3-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,3-Dichloropropane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,4-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
2,2-Dichloropropane	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
2-Chlorotoluene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
2-Hexanone	ND		7.1	3.6	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
4-Chlorotoluene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
4-Isopropyltoluene	ND	*	0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Benzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Bromoform	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Carbon tetrachloride	ND	*	1.4	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Chlorobenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Chloroform	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
cis-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
cis-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Chlorodibromomethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Dibromomethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Dichlorobromomethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1

Client Sample ID: DG-AC11S-3.5-4 Lab Sample ID: 720-91069-9

Date Collected: 01/29/19 10:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Ethylbenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Hexachlorobutadiene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Isopropylbenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Methylene Chloride	ND		7.1	3.6	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
n-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
N-Propylbenzene	ND	*	0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
sec-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Styrene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
tert-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Tetrachloroethene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Toluene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
trans-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
trans-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Trichloroethene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.6	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Vinyl acetate	ND		5.7	2.8	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Xylenes, Total	ND		1.4	0.92	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
Ethylene Dibromide	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
2-Butanone (MEK)	**6.9**	**J**	7.1	3.6	ug/Kg		01/29/19 19:00	02/05/19 14:07	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/29/19 19:00	02/05/19 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*79 - 123*	*01/29/19 19:00*	*02/05/19 14:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*01/29/19 19:00*	*02/05/19 14:07*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		2000	990	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Acenaphthene	**730**	**J**	990	560	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Acenaphthylene	ND		990	480	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Anthracene	**610**	**J**	990	400	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Benzo[a]anthracene	**350**	**J**	990	300	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Benzo[a]pyrene	**1200**		990	380	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Benzo[b]fluoranthene	**840**	**J**	990	420	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Benzo[g,h,i]perylene	**900**	**J**	990	850	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Benzo[k]fluoranthene	**520**	**J B**	990	420	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Chrysene	**650**	**J**	990	280	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Dibenz(a,h)anthracene	ND		990	690	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Fluoranthene	**380**	**J**	990	280	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Fluorene	**610**	**J**	990	440	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Indeno[1,2,3-cd]pyrene	ND		990	830	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Naphthalene	ND		990	690	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Phenanthrene	**420**	**J**	990	360	ug/Kg		02/01/19 14:01	02/12/19 12:32	200
Pyrene	**3200**		990	340	ug/Kg		02/01/19 14:01	02/12/19 12:32	200

Client Sample ID: DG-AC11S-3.5-4
Date Collected: 01/29/19 10:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-9
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X*	*33 - 120*	*02/01/19 14:01*	*02/12/19 12:32*	*200*
Terphenyl-d14	*0*	*X*	*35 - 146*	*02/01/19 14:01*	*02/12/19 12:32*	*200*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5400**		99	37	mg/Kg		02/01/19 12:44	02/10/19 02:11	20
Motor Oil Range Organics [C24-C36]	**9500**		2500	490	mg/Kg		02/01/19 12:44	02/10/19 02:11	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/01/19 12:44*	*02/10/19 02:11*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.0	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
4,4'-DDE	ND		20	4.1	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
4,4'-DDT	ND		20	4.0	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Aldrin	ND		20	4.9	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
alpha-BHC	ND		20	5.4	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
alpha-Chlordane	ND		20	3.9	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
beta-BHC	ND		20	3.5	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Chlordane (technical)	ND		390	31	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
delta-BHC	ND		20	4.3	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Dieldrin	ND		20	5.8	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Endosulfan I	ND		20	3.1	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Endosulfan II	ND		20	4.8	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Endosulfan sulfate	ND		20	3.7	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Endrin	ND		20	4.5	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Endrin aldehyde	ND		20	6.2	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Endrin ketone	ND		20	3.2	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
gamma-BHC (Lindane)	ND		20	6.2	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
gamma-Chlordane	ND		20	4.5	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Heptachlor	ND		20	4.5	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Heptachlor epoxide	ND		20	3.4	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Methoxychlor	ND		20	6.7	ug/Kg		02/01/19 11:12	02/10/19 01:30	10
Toxaphene	ND		390	67	ug/Kg		02/01/19 11:12	02/10/19 01:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*02/01/19 11:12*	*02/10/19 01:30*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*02/01/19 11:12*	*02/10/19 01:30*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:47	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:47	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:47	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:47	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:47	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:47	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 21:47	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AC11S-3.5-4

Date Collected: 01/29/19 10:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*41*	*X*	*45 - 120*	*02/04/19 13:17*	*02/06/19 21:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	1.9	0.31	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Arsenic	17		3.8	0.32	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Barium	55		1.9	0.27	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Beryllium	0.44		0.38	0.12	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Cadmium	0.19	J	0.47	0.047	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Chromium	26		1.9	0.20	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Cobalt	13		0.75	0.075	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Copper	86		5.7	2.7	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Lead	67		1.9	0.40	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Nickel	37		1.9	0.19	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Selenium	1.3	J	3.8	0.57	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Silver	ND		0.94	0.19	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Thallium	ND		1.9	0.55	mg/Kg		01/31/19 09:30	02/05/19 16:47	4
Vanadium	54		1.9	0.26	mg/Kg		01/31/19 09:30	02/01/19 18:32	4
Zinc	80		5.7	2.4	mg/Kg		01/31/19 09:30	02/01/19 18:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.5		0.16	0.023	mg/Kg		02/11/19 17:38	02/12/19 12:31	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			01/30/19 14:39	1

Client Sample ID: DG-AC11S-8.5-9 Lab Sample ID: 720-91069-10

Date Collected: 01/29/19 10:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	50	ug/Kg		01/29/19 19:00	02/05/19 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/29/19 19:00*	*02/05/19 14:32*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/29/19 19:00*	*02/05/19 14:32*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/29/19 19:00*	*02/05/19 14:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,1,1-Trichloroethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,1,2-Trichloroethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,1-Dichloroethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,1-Dichloropropene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,2,4-Trichlorobenzene	ND	*	3.6	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,2,4-Trimethylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,2-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,2-Dichloroethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,2-Dichloropropane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,3,5-Trimethylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,3-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,3-Dichloropropane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,4-Dichlorobenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
2,2-Dichloropropane	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
2-Chlorotoluene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
2-Hexanone	ND		7.1	3.6	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
4-Chlorotoluene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
4-Isopropyltoluene	ND	*	0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Benzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Bromobenzene	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Bromoform	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Bromomethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Carbon disulfide	**2.7**		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Carbon tetrachloride	ND	*	1.4	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Chlorobenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Chloroethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Chloroform	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Chloromethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
cis-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
cis-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Chlorodibromomethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Dibromomethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Dichlorobromomethane	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1

Client Sample ID: DG-AC11S-8.5-9 Lab Sample ID: 720-91069-10

Date Collected: 01/29/19 10:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Ethylbenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Hexachlorobutadiene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Isopropylbenzene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Methylene Chloride	ND		7.1	3.6	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Naphthalene	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
n-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
N-Propylbenzene	ND	*	0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
sec-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Styrene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
tert-Butylbenzene	ND	*	1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Tetrachloroethene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Toluene	**0.60**	**J**	0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
trans-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
trans-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Trichloroethene	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.6	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Vinyl acetate	ND		5.7	2.8	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Xylenes, Total	ND		1.4	0.93	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
Ethylene Dibromide	ND		0.71	0.36	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
2-Butanone (MEK)	ND		7.1	3.6	ug/Kg		01/29/19 19:00	02/05/19 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/29/19 19:00	02/05/19 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/29/19 19:00*	*02/05/19 14:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	98	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Acenaphthene	ND		98	55	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Acenaphthylene	ND		98	47	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Anthracene	**43**	**J**	98	39	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Benzo[a]anthracene	ND		98	30	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Benzo[a]pyrene	**95**	**J**	98	37	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Benzo[b]fluoranthene	**100**		98	41	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Benzo[g,h,i]perylene	**89**	**J**	98	85	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Benzo[k]fluoranthene	**53**	**J B**	98	41	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Chrysene	**57**	**J**	98	28	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Dibenz(a,h)anthracene	ND		98	69	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Fluoranthene	**87**	**J**	98	28	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Fluorene	ND		98	43	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Indeno[1,2,3-cd]pyrene	ND		98	83	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Naphthalene	ND		98	69	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Phenanthrene	**85**	**J**	98	35	ug/Kg		02/01/19 14:01	02/12/19 12:55	20
Pyrene	**190**		98	33	ug/Kg		02/01/19 14:01	02/12/19 12:55	20

Client Sample ID: DG-AC11S-8.5-9
Lab Sample ID: 720-91069-10

Date Collected: 01/29/19 10:50
Matrix: Solid
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		33 - 120	02/01/19 14:01	02/12/19 12:55	20
Terphenyl-d14	121		35 - 146	02/01/19 14:01	02/12/19 12:55	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	770		20	7.3	mg/Kg		02/01/19 12:44	02/11/19 16:05	10
Motor Oil Range Organics [C24-C36]	1100		490	98	mg/Kg		02/01/19 12:44	02/11/19 16:05	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	D X	40 - 130	02/01/19 12:44	02/11/19 16:05	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.59	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
4,4'-DDE	ND		1.9	0.41	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
4,4'-DDT	ND		1.9	0.40	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Aldrin	ND		1.9	0.49	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
alpha-BHC	ND		1.9	0.54	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
alpha-Chlordane	ND		1.9	0.39	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
beta-BHC	ND		1.9	0.35	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Chlordane (technical)	ND		39	3.1	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
delta-BHC	ND		1.9	0.43	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Dieldrin	ND		1.9	0.57	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Endosulfan I	ND		1.9	0.31	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Endosulfan II	ND		1.9	0.48	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Endosulfan sulfate	ND		1.9	0.37	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Endrin	ND		1.9	0.45	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Endrin aldehyde	ND		1.9	0.61	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Endrin ketone	ND		1.9	0.32	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
gamma-BHC (Lindane)	ND		1.9	0.61	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
gamma-Chlordane	ND		1.9	0.45	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Heptachlor	ND		1.9	0.45	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Methoxychlor	ND		1.9	0.66	ug/Kg		02/01/19 11:12	02/10/19 01:46	1
Toxaphene	ND		39	6.6	ug/Kg		02/01/19 11:12	02/10/19 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		21 - 136	02/01/19 11:12	02/10/19 01:46	1
Tetrachloro-m-xylene	90		21 - 145	02/01/19 11:12	02/10/19 01:46	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:01	1
Aroclor 1221	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:01	1
Aroclor 1232	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:01	1
Aroclor 1242	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:01	1
Aroclor 1248	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:01	1
Aroclor 1254	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:01	1
Aroclor 1260	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AC11S-8.5-9

Date Collected: 01/29/19 10:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-10

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*02/04/19 13:17*	*02/06/19 22:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.26**	**J**	1.1	0.19	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Arsenic	**6.2**		2.3	0.19	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Barium	**130**		1.1	0.16	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Beryllium	**0.22**	**J**	0.23	0.074	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Cadmium	**0.17**	**J**	0.28	0.028	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Chromium	**39**		1.1	0.12	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Cobalt	**8.1**		0.45	0.045	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Copper	**15**		3.4	1.6	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Lead	**24**		1.1	0.24	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Molybdenum	ND		1.1	0.15	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Nickel	**32**		1.1	0.12	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Selenium	ND		2.3	0.34	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Silver	ND		0.57	0.11	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Thallium	ND		1.1	0.33	mg/Kg		01/31/19 09:30	02/05/19 16:52	4
Vanadium	**33**		1.1	0.15	mg/Kg		01/31/19 09:30	02/01/19 18:37	4
Zinc	**61**		3.4	1.4	mg/Kg		01/31/19 09:30	02/01/19 18:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.9**		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-AA11S-0.5-1 Lab Sample ID: 720-91069-11

Date Collected: 01/29/19 11:10 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		01/29/19 19:00	02/05/19 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/29/19 19:00*	*02/05/19 14:57*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/29/19 19:00*	*02/05/19 14:57*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/29/19 19:00*	*02/05/19 14:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,2,4-Trichlorobenzene	ND	*	3.7	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,2,4-Trimethylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,3,5-Trimethylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
2,2-Dichloropropane	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
2-Chlorotoluene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
4-Chlorotoluene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
4-Isopropyltoluene	ND	*	0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Benzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Bromoform	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Carbon tetrachloride	ND	*	1.5	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Chloroform	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1

Client Sample ID: DG-AA11S-0.5-1 Lab Sample ID: 720-91069-11

Date Collected: 01/29/19 11:10 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Hexachlorobutadiene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
n-Butylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
N-Propylbenzene	ND	*	0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
sec-Butylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Styrene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
tert-Butylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Toluene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Vinyl acetate	ND		5.9	3.0	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		01/29/19 19:00	02/05/19 14:57	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/29/19 19:00	02/05/19 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/29/19 19:00*	*02/05/19 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/29/19 19:00*	*02/05/19 14:57*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		49	24	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Acenaphthene	ND		24	14	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Acenaphthylene	ND		24	12	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Anthracene	**33**		24	9.8	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Benzo[a]anthracene	**42**		24	7.3	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Benzo[a]pyrene	**74**		24	9.3	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Benzo[b]fluoranthene	**63**		24	10	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Benzo[g,h,i]perylene	**64**		24	21	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Benzo[k]fluoranthene	**25**	**B**	24	10	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Chrysene	**35**		24	6.9	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Dibenz(a,h)anthracene	ND		24	17	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Fluoranthene	**140**		24	6.9	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Fluorene	ND		24	11	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Indeno[1,2,3-cd]pyrene	**42**		24	21	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Naphthalene	ND		24	17	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Phenanthrene	ND		24	8.8	ug/Kg		02/01/19 14:01	02/12/19 13:18	5
Pyrene	**190**		24	8.3	ug/Kg		02/01/19 14:01	02/12/19 13:18	5

Client Sample ID: DG-AA11S-0.5-1 Lab Sample ID: 720-91069-11

Date Collected: 01/29/19 11:10 **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		33 - 120	02/01/19 14:01	02/12/19 13:18	5
Terphenyl-d14	134		35 - 146	02/01/19 14:01	02/12/19 13:18	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	310		2.0	0.74	mg/Kg		02/01/19 12:44	02/10/19 02:40	1
Motor Oil Range Organics [C24-C36]	290		49	9.9	mg/Kg		02/01/19 12:44	02/10/19 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	80		40 - 130	02/01/19 12:44	02/10/19 02:40	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Aldrin	ND		2.0	0.50	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
alpha-BHC	ND		2.0	0.55	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Chlordane (technical)	ND		40	3.2	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
delta-BHC	ND		2.0	0.44	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Dieldrin	ND		2.0	0.59	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Endosulfan II	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Endrin	ND		2.0	0.46	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Heptachlor	ND		2.0	0.46	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Methoxychlor	ND		2.0	0.68	ug/Kg		02/01/19 11:12	02/10/19 02:02	1
Toxaphene	ND		40	6.8	ug/Kg		02/01/19 11:12	02/10/19 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		21 - 136	02/01/19 11:12	02/10/19 02:02	1
Tetrachloro-m-xylene	101		21 - 145	02/01/19 11:12	02/10/19 02:02	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:14	1
Aroclor 1221	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:14	1
Aroclor 1232	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:14	1
Aroclor 1242	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:14	1
Aroclor 1248	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:14	1
Aroclor 1254	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:14	1
Aroclor 1260	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 22:14	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AA11S-0.5-1

Date Collected: 01/29/19 11:10
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*02/04/19 13:17*	*02/06/19 22:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.38**	**J**	1.2	0.20	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Arsenic	**0.35**	**J**	2.4	0.21	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Barium	**7.8**		1.2	0.17	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Beryllium	ND		0.24	0.079	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Cadmium	**0.077**	**J**	0.30	0.030	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Chromium	**18**		1.2	0.13	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Cobalt	**10**		0.49	0.049	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Copper	**51**		3.7	1.7	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Lead	**3.7**		1.2	0.26	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Molybdenum	ND		1.2	0.16	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Nickel	**7.5**		1.2	0.12	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Selenium	ND		2.4	0.37	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Silver	ND		0.61	0.12	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Thallium	ND		1.2	0.35	mg/Kg		01/31/19 09:30	02/05/19 16:57	4
Vanadium	**67**		1.2	0.17	mg/Kg		01/31/19 09:30	02/01/19 18:42	4
Zinc	**36**		3.7	1.5	mg/Kg		01/31/19 09:30	02/01/19 18:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.076**		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-AA11S-3.5-4 **Lab Sample ID: 720-91069-12**
Date Collected: 01/29/19 11:10 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	390000		43000	30000	ug/Kg		01/31/19 17:44	02/07/19 17:24	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*55 - 140*	*01/31/19 17:44*	*02/07/19 17:24*	*500*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*	*01/31/19 17:44*	*02/07/19 17:24*	*500*
Toluene-d8 (Surr)	*99*		*60 - 140*	*01/31/19 17:44*	*02/07/19 17:24*	*500*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		2100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,1,1,2-Tetrachloroethane	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,1,1-Trichloroethane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,1,2,2-Tetrachloroethane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,1,2-Trichloroethane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,1-Dichloroethane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,1-Dichloroethene	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,1-Dichloropropene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,2,3-Trichlorobenzene	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,2,4-Trichlorobenzene	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,2,4-Trimethylbenzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,2-Dibromo-3-Chloropropane	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,2-Dichlorobenzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,2-Dichloroethane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,2-Dichloropropane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,3,5-Trimethylbenzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,3-Dichlorobenzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,3-Dichloropropane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,4-Dichlorobenzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
2,2-Dichloropropane	ND		850	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
2-Chlorotoluene	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
2-Hexanone	ND		5300	2100	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
4-Chlorotoluene	ND		1100	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
4-Isopropyltoluene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Benzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Bromobenzene	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Bromoform	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Bromomethane	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Carbon disulfide	ND		1100	530	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Carbon tetrachloride	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Chlorobenzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Chlorobromomethane	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Chloroethane	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Chloroform	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Chloromethane	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
cis-1,2-Dichloroethene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
cis-1,3-Dichloropropene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Chlorodibromomethane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Dibromomethane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Dichlorobromomethane	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500

Client Sample ID: DG-AA11S-3.5-4 Lab Sample ID: 720-91069-12

Date Collected: 01/29/19 11:10 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Ethylbenzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Hexachlorobutadiene	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Isopropylbenzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Methylene Chloride	ND		4300	2100	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Methyl tert-butyl ether	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Naphthalene	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
n-Butylbenzene	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
N-Propylbenzene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
sec-Butylbenzene	ND		1100	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Styrene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
tert-Butylbenzene	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Tetrachloroethene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Toluene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
trans-1,2-Dichloroethene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
trans-1,3-Dichloropropene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Trichloroethene	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Trichlorofluoromethane	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2100	850	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Vinyl acetate	ND		2100	1100	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Vinyl chloride	ND		1100	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Xylenes, Total	ND		850	430	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
Ethylene Dibromide	ND		430	210	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
2-Butanone (MEK)	ND		4300	2100	ug/Kg		01/31/19 17:44	02/07/19 17:24	500
4-Methyl-2-pentanone (MIBK)	ND		2100	850	ug/Kg		01/31/19 17:44	02/07/19 17:24	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*60 - 140*	*01/31/19 17:44*	*02/07/19 17:24*	*500*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*	*01/31/19 17:44*	*02/07/19 17:24*	*500*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		240	120	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Acenaphthene	**220**		120	68	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Acenaphthylene	**73**	**J**	120	58	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Anthracene	**110**	**J**	120	49	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Benzo[a]anthracene	ND		120	37	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Benzo[a]pyrene	**54**	**J**	120	46	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Benzo[b]fluoranthene	**53**	**J**	120	51	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Benzo[g,h,i]perylene	ND		120	100	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Benzo[k]fluoranthene	**52**	**J B**	120	51	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Chrysene	ND		120	34	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Dibenz(a,h)anthracene	ND		120	85	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Fluoranthene	**51**	**J**	120	34	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Fluorene	**230**		120	54	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Indeno[1,2,3-cd]pyrene	ND		120	100	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Naphthalene	**90**	**J**	120	85	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Phenanthrene	**290**		120	44	ug/Kg		02/01/19 14:01	02/12/19 13:42	25
Pyrene	**110**	**J**	120	41	ug/Kg		02/01/19 14:01	02/12/19 13:42	25

Client Sample ID: DG-AA11S-3.5-4 Lab Sample ID: 720-91069-12

Date Collected: 01/29/19 11:10 **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		33 - 120	02/01/19 14:01	02/12/19 13:42	25
Terphenyl-d14	115		35 - 146	02/01/19 14:01	02/12/19 13:42	25

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400		9.9	3.7	mg/Kg		02/01/19 12:44	02/10/19 03:09	5
Motor Oil Range Organics [C24-C36]	270		250	49	mg/Kg		02/01/19 12:44	02/10/19 03:09	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	02/01/19 12:44	02/10/19 03:09	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Chlordane (technical)	ND		39	3.2	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 11:12	02/10/19 02:18	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/10/19 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		21 - 136	02/01/19 11:12	02/10/19 02:18	1
Tetrachloro-m-xylene	103		21 - 145	02/01/19 11:12	02/10/19 02:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 22:28	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 22:28	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 22:28	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 22:28	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 22:28	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 22:28	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/06/19 22:28	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AA11S-3.5-4

Date Collected: 01/29/19 11:10
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*02/04/19 13:17*	*02/06/19 22:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.21	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Arsenic	**0.48**	**J**	2.6	0.22	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Barium	**19**		1.3	0.18	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Beryllium	ND		0.26	0.084	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Cadmium	**0.052**	**J**	0.32	0.032	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Chromium	**9.0**		1.3	0.14	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Cobalt	**11**		0.52	0.052	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Copper	**88**		3.9	1.8	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Lead	**22**		1.3	0.27	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Molybdenum	**0.35**	**J**	1.3	0.17	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Nickel	**4.1**		1.3	0.13	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Selenium	ND		2.6	0.39	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Silver	ND		0.65	0.13	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Thallium	ND		1.3	0.37	mg/Kg		01/31/19 09:30	02/05/19 17:11	4
Vanadium	**93**		1.3	0.18	mg/Kg		01/31/19 09:30	02/01/19 18:46	4
Zinc	**55**		3.9	1.6	mg/Kg		01/31/19 09:30	02/01/19 18:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**		0.014	0.0021	mg/Kg		02/11/19 17:38	02/12/19 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-W11S-0.5-1 Lab Sample ID: 720-91069-13

Date Collected: 01/29/19 11:30 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	51	ug/Kg		01/29/19 19:00	02/05/19 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/29/19 19:00*	*02/05/19 15:21*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/29/19 19:00*	*02/05/19 15:21*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 15:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,2,4-Trichlorobenzene	ND	*	3.7	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,2,4-Trimethylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,3,5-Trimethylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
2,2-Dichloropropane	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
2-Chlorotoluene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
4-Chlorotoluene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
4-Isopropyltoluene	ND	*	0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Benzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Bromoform	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Carbon tetrachloride	ND	*	1.5	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Chloroform	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1

Client Sample ID: DG-W11S-0.5-1 Lab Sample ID: 720-91069-13

Date Collected: 01/29/19 11:30 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Hexachlorobutadiene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
n-Butylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
N-Propylbenzene	ND	*	0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
sec-Butylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Styrene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
tert-Butylbenzene	ND	*	1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Toluene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Vinyl acetate	ND		5.9	2.9	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		01/29/19 19:00	02/05/19 15:21	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.8	ug/Kg		01/29/19 19:00	02/05/19 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 15:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/29/19 19:00*	*02/05/19 15:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	98	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Acenaphthene	ND		98	55	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Acenaphthylene	**140**		98	47	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Anthracene	**120**		98	39	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Benzo[a]anthracene	**250**		98	29	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Benzo[a]pyrene	**460**		98	37	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Benzo[b]fluoranthene	**550**		98	41	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Benzo[g,h,i]perylene	**290**		98	84	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Benzo[k]fluoranthene	**210**	**B**	98	41	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Chrysene	**290**		98	27	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Dibenz(a,h)anthracene	**89**	**J**	98	69	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Fluoranthene	**380**		98	27	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Fluorene	ND		98	43	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Indeno[1,2,3-cd]pyrene	**230**		98	82	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Naphthalene	**86**	**J**	98	69	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Phenanthrene	**170**		98	35	ug/Kg		02/01/19 14:01	02/12/19 14:06	20
Pyrene	**650**		98	33	ug/Kg		02/01/19 14:01	02/12/19 14:06	20

Client Sample ID: DG-W11S-0.5-1 Lab Sample ID: 720-91069-13

Date Collected: 01/29/19 11:30 **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		33 - 120	02/01/19 14:01	02/12/19 14:06	20
Terphenyl-d14	127		35 - 146	02/01/19 14:01	02/12/19 14:06	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	240		9.7	3.7	mg/Kg		02/08/19 09:05	02/12/19 12:07	5
Motor Oil Range Organics [C24-C36]	620		240	49	mg/Kg		02/08/19 09:05	02/12/19 12:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	02/08/19 09:05	02/12/19 12:07	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	1.2	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
4,4'-DDE	ND		3.9	0.82	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
4,4'-DDT	ND		3.9	0.80	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Aldrin	ND		3.9	0.97	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
alpha-BHC	ND		3.9	1.1	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
alpha-Chlordane	ND		3.9	0.78	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
beta-BHC	ND		3.9	0.70	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Chlordane (technical)	ND		78	6.2	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
delta-BHC	ND		3.9	0.86	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Dieldrin	ND		3.9	1.2	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Endosulfan I	ND		3.9	0.62	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Endosulfan II	ND		3.9	0.96	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Endosulfan sulfate	ND		3.9	0.74	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Endrin	ND		3.9	0.90	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Endrin ketone	ND		3.9	0.64	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
gamma-Chlordane	ND		3.9	0.90	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Heptachlor	ND		3.9	0.90	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Heptachlor epoxide	ND		3.9	0.68	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Methoxychlor	ND		3.9	1.3	ug/Kg		02/01/19 11:12	02/09/19 22:24	2
Toxaphene	ND		78	13	ug/Kg		02/01/19 11:12	02/09/19 22:24	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		21 - 136	02/01/19 11:12	02/09/19 22:24	2
Tetrachloro-m-xylene	79		21 - 145	02/01/19 11:12	02/09/19 22:24	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 19:49	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 19:49	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 19:49	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 19:49	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 19:49	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 19:49	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 19:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-W11S-0.5-1

Lab Sample ID: 720-91069-13

Date Collected: 01/29/19 11:30

Matrix: Solid

Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	72		45 - 120	02/04/19 13:17	02/05/19 19:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	10		1.6	0.26	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Arsenic	50		3.1	0.27	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Barium	29		1.6	0.22	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Beryllium	ND		0.31	0.10	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Cadmium	0.21	J	0.39	0.039	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Chromium	11		1.6	0.17	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Cobalt	5.0		0.63	0.063	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Copper	91		4.7	2.2	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Lead	360		1.6	0.33	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Molybdenum	0.60	J	1.6	0.20	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Nickel	20		1.6	0.16	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Selenium	0.55	J	3.1	0.47	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Silver	ND		0.79	0.16	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Thallium	ND		1.6	0.46	mg/Kg		01/31/19 09:30	02/05/19 17:16	4
Vanadium	29		1.6	0.21	mg/Kg		01/31/19 09:30	02/01/19 18:51	4
Zinc	60		4.7	2.0	mg/Kg		01/31/19 09:30	02/01/19 18:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-W11S-3.5-4 Lab Sample ID: 720-91069-14

Date Collected: 01/29/19 11:30 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		77	54	ug/Kg		01/29/19 19:00	02/05/19 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/29/19 19:00*	*02/05/19 15:46*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/29/19 19:00*	*02/05/19 15:46*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 15:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.7	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,1,1-Trichloroethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,1,2-Trichloroethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,1-Dichloroethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,1-Dichloropropene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,2,3-Trichlorobenzene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,2,4-Trichlorobenzene	ND	*	3.8	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,2,4-Trimethylbenzene	ND	*	1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,2-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,2-Dichloroethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,2-Dichloropropane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,3,5-Trimethylbenzene	ND	*	1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,3-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,3-Dichloropropane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,4-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
2,2-Dichloropropane	ND	*	1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
2-Chlorotoluene	ND	*	1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
2-Hexanone	ND		7.7	3.8	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
4-Chlorotoluene	ND	*	1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
4-Isopropyltoluene	ND	*	0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Benzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Bromobenzene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Bromoform	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Bromomethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Carbon tetrachloride	ND	*	1.5	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Chlorobenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Chloroethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Chloroform	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Chloromethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
cis-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
cis-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Chlorodibromomethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Dibromomethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Dichlorobromomethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1

Client Sample ID: DG-W11S-3.5-4 — Lab Sample ID: 720-91069-14

Date Collected: 01/29/19 11:30 — **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Ethylbenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Hexachlorobutadiene	ND	*	1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Isopropylbenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Methylene Chloride	ND		7.7	3.8	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Naphthalene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
n-Butylbenzene	ND	*	1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
N-Propylbenzene	ND	*	0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
sec-Butylbenzene	ND	*	1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Styrene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
tert-Butylbenzene	ND	*	1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Tetrachloroethene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Toluene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
trans-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
trans-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Trichloroethene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.8	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
Ethylene Dibromide	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
2-Butanone (MEK)	ND		7.7	3.8	ug/Kg		01/29/19 19:00	02/05/19 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/29/19 19:00	02/05/19 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 15:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/29/19 19:00*	*02/05/19 15:46*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.8	4.9	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Acenaphthene	ND		4.9	2.7	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Anthracene	**2.4**	**J**	4.9	2.0	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Benzo[a]pyrene	**5.1**		4.9	1.9	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Benzo[b]fluoranthene	**5.6**		4.9	2.1	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Benzo[g,h,i]perylene	**4.6**	**J**	4.9	4.2	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Benzo[k]fluoranthene	**3.1**	**J B**	4.9	2.1	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Chrysene	**2.3**	**J**	4.9	1.4	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Fluoranthene	**4.3**	**J**	4.9	1.4	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Fluorene	ND		4.9	2.2	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Indeno[1,2,3-cd]pyrene	**4.1**	**J**	4.9	4.1	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Naphthalene	ND		4.9	3.4	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Phenanthrene	**3.2**	**J**	4.9	1.8	ug/Kg		02/01/19 14:01	02/12/19 01:36	1
Pyrene	**7.2**		4.9	1.7	ug/Kg		02/01/19 14:01	02/12/19 01:36	1

Client Sample ID: DG-W11S-3.5-4
Lab Sample ID: 720-91069-14

Date Collected: 01/29/19 11:30
Matrix: Solid
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		33 - 120	02/01/19 14:01	02/12/19 01:36	1
Terphenyl-d14	112		35 - 146	02/01/19 14:01	02/12/19 01:36	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.4**	**J**	1.9	0.71	mg/Kg		02/08/19 09:05	02/12/19 13:05	1
Motor Oil Range Organics [C24-C36]	ND		48	9.5	mg/Kg		02/08/19 09:05	02/12/19 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	106		40 - 130	02/08/19 09:05	02/12/19 13:05	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Chlordane (technical)	ND		39	3.1	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Endosulfan I	ND		2.0	0.31	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Endrin ketone	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 11:12	02/09/19 22:41	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/09/19 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		21 - 136	02/01/19 11:12	02/09/19 22:41	1
Tetrachloro-m-xylene	73		21 - 145	02/01/19 11:12	02/09/19 22:41	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:02	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:02	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:02	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:02	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:02	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:02	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-W11S-3.5-4

Date Collected: 01/29/19 11:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*02/04/19 13:17*	*02/05/19 20:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.32**	**J**	1.3	0.22	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Arsenic	**100**		2.6	0.22	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Barium	**42**		1.3	0.19	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Beryllium	**0.11**	**J**	0.26	0.086	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Cadmium	ND		0.33	0.033	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Chromium	**46**		1.3	0.14	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Cobalt	**7.2**		0.53	0.053	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Copper	**5.4**		3.9	1.9	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Lead	**1.7**		1.3	0.28	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Molybdenum	ND		1.3	0.17	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Nickel	**37**		1.3	0.13	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Selenium	**0.53**	**J**	2.6	0.39	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Silver	ND		0.66	0.13	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Thallium	ND		1.3	0.38	mg/Kg		01/31/19 09:30	02/05/19 17:21	4
Vanadium	**35**		1.3	0.18	mg/Kg		01/31/19 09:30	02/01/19 18:56	4
Zinc	**19**		3.9	1.7	mg/Kg		01/31/19 09:30	02/01/19 18:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.016	0.0023	mg/Kg		02/11/19 17:38	02/12/19 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.3**		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-W7S-0.5-1 Lab Sample ID: 720-91069-15

Date Collected: 01/29/19 13:20 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	50	ug/Kg		01/29/19 19:00	02/05/19 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/29/19 19:00*	*02/05/19 16:11*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/29/19 19:00*	*02/05/19 16:11*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 16:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,2,4-Trichlorobenzene	ND	*	3.6	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,2,4-Trimethylbenzene	ND	*	1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,3,5-Trimethylbenzene	ND	*	1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
2,2-Dichloropropane	ND	*	1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
2-Chlorotoluene	ND	*	1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
2-Hexanone	ND		7.2	3.6	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
4-Chlorotoluene	ND	*	1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
4-Isopropyltoluene	ND	*	0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Benzene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Bromobenzene	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Bromoform	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Bromomethane	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Carbon tetrachloride	ND	*	1.4	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Chloroethane	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Chloroform	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Chloromethane	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Dibromomethane	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1

Client Sample ID: DG-W7S-0.5-1 Lab Sample ID: 720-91069-15

Date Collected: 01/29/19 13:20 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Hexachlorobutadiene	ND	*	1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Naphthalene	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
n-Butylbenzene	ND	*	1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
N-Propylbenzene	ND	*	0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
sec-Butylbenzene	ND	*	1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Styrene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
tert-Butylbenzene	ND	*	1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Tetrachloroethene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Toluene	**0.40**	**J**	0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Trichloroethene	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Xylenes, Total	ND		1.4	0.94	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
2-Butanone (MEK)	ND		7.2	3.6	ug/Kg		01/29/19 19:00	02/05/19 16:11	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/29/19 19:00	02/05/19 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 16:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*01/29/19 19:00*	*02/05/19 16:11*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**42**	**J**	49	25	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Acenaphthene	ND		25	14	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Acenaphthylene	**29**		25	12	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Anthracene	**52**		25	9.8	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Benzo[a]anthracene	**39**		25	7.4	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Benzo[a]pyrene	**57**		25	9.4	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Benzo[b]fluoranthene	**100**		25	10	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Benzo[g,h,i]perylene	**67**		25	21	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Benzo[k]fluoranthene	**33**	**B**	25	10	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Chrysene	**36**		25	6.9	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Dibenz(a,h)anthracene	**21**	**J**	25	17	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Fluoranthene	**66**		25	6.9	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Fluorene	ND		25	11	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Indeno[1,2,3-cd]pyrene	**48**		25	21	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Naphthalene	**42**		25	17	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Phenanthrene	**50**		25	8.9	ug/Kg		02/01/19 14:01	02/12/19 14:29	5
Pyrene	**63**		25	8.4	ug/Kg		02/01/19 14:01	02/12/19 14:29	5

Client Sample ID: DG-W7S-0.5-1 — Lab Sample ID: 720-91069-15

Date Collected: 01/29/19 13:20 — **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		33 - 120	02/01/19 14:01	02/12/19 14:29	5
Terphenyl-d14	138		35 - 146	02/01/19 14:01	02/12/19 14:29	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	32		2.0	0.73	mg/Kg		02/08/19 09:05	02/12/19 14:04	1
Motor Oil Range Organics [C24-C36]	74		49	9.8	mg/Kg		02/08/19 09:05	02/12/19 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	90		40 - 130	02/08/19 09:05	02/12/19 14:04	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Chlordane (technical)	ND		40	3.2	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
delta-BHC	ND		2.0	0.44	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Endrin	ND		2.0	0.46	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Heptachlor	ND		2.0	0.46	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 11:12	02/09/19 22:59	1
Toxaphene	ND		40	6.7	ug/Kg		02/01/19 11:12	02/09/19 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		21 - 136	02/01/19 11:12	02/09/19 22:59	1
Tetrachloro-m-xylene	71		21 - 145	02/01/19 11:12	02/09/19 22:59	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 20:15	1
Aroclor 1221	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 20:15	1
Aroclor 1232	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 20:15	1
Aroclor 1242	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 20:15	1
Aroclor 1248	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 20:15	1
Aroclor 1254	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 20:15	1
Aroclor 1260	47	J	50	17	ug/Kg		02/04/19 13:17	02/05/19 20:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-W7S-0.5-1

Date Collected: 01/29/19 13:20
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*45 - 120*	*02/04/19 13:17*	*02/05/19 20:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.19	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Arsenic	2.7		2.3	0.20	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Barium	62		1.2	0.17	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Beryllium	0.086	J	0.23	0.076	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Cadmium	0.44		0.29	0.029	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Chromium	14		1.2	0.12	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Cobalt	6.9		0.47	0.047	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Copper	68		3.5	1.7	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Lead	56		1.2	0.25	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Molybdenum	0.47	J	1.2	0.15	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Nickel	22		1.2	0.12	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Selenium	0.37	J	2.3	0.35	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Silver	ND		0.58	0.12	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Thallium	ND		1.2	0.34	mg/Kg		01/31/19 09:30	02/05/19 17:25	4
Vanadium	42		1.2	0.16	mg/Kg		01/31/19 09:30	02/01/19 19:10	4
Zinc	98		3.5	1.5	mg/Kg		01/31/19 09:30	02/01/19 19:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.096		0.016	0.0023	mg/Kg		02/11/19 17:38	02/12/19 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-W7S-3.5-4 Lab Sample ID: 720-91069-16

Date Collected: 01/29/19 13:20 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		87	61	ug/Kg		01/29/19 19:00	02/05/19 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/29/19 19:00*	*02/05/19 16:36*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/29/19 19:00*	*02/05/19 16:36*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/29/19 19:00*	*02/05/19 16:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,1,1-Trichloroethane	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,1,2-Trichloroethane	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,1-Dichloroethane	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,1-Dichloropropene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,2,3-Trichlorobenzene	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,2,4-Trichlorobenzene	ND	*	4.3	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,2,4-Trimethylbenzene	ND	*	1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,2-Dichlorobenzene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,2-Dichloroethane	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,2-Dichloropropane	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,3,5-Trimethylbenzene	ND	*	1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,3-Dichlorobenzene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,3-Dichloropropane	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,4-Dichlorobenzene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
2,2-Dichloropropane	ND	*	1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
2-Chlorotoluene	ND	*	1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
2-Hexanone	ND		8.7	4.3	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
4-Chlorotoluene	ND	*	1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
4-Isopropyltoluene	ND	*	0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Benzene	**0.46**	**J**	0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Bromobenzene	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Bromoform	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Bromomethane	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Carbon disulfide	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Carbon tetrachloride	ND	*	1.7	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Chlorobenzene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Chlorobromomethane	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Chloroethane	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Chloroform	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Chloromethane	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
cis-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
cis-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Chlorodibromomethane	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Dibromomethane	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Dichlorobromomethane	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1

Client Sample ID: DG-W7S-3.5-4 Lab Sample ID: 720-91069-16

Date Collected: 01/29/19 13:20 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Ethylbenzene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Hexachlorobutadiene	ND	*	1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Isopropylbenzene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Methylene Chloride	ND		8.7	4.3	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Methyl tert-butyl ether	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Naphthalene	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
n-Butylbenzene	ND	*	1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
N-Propylbenzene	ND	*	0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
sec-Butylbenzene	ND	*	1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Styrene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
tert-Butylbenzene	ND	*	1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Tetrachloroethene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Toluene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
trans-1,2-Dichloroethene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
trans-1,3-Dichloropropene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Trichloroethene	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Trichlorofluoromethane	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.7	4.3	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Vinyl acetate	ND		6.9	3.5	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Vinyl chloride	ND		1.7	0.87	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
Ethylene Dibromide	ND		0.87	0.43	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
2-Butanone (MEK)	ND		8.7	4.3	ug/Kg		01/29/19 19:00	02/05/19 16:36	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.2	ug/Kg		01/29/19 19:00	02/05/19 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/29/19 19:00*	*02/05/19 16:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/29/19 19:00*	*02/05/19 16:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**22**		20	9.8	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Acenaphthene	ND		9.8	5.5	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Acenaphthylene	**7.4**	**J**	9.8	4.7	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Anthracene	**7.2**	**J**	9.8	3.9	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Benzo[a]anthracene	**13**		9.8	2.9	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Benzo[a]pyrene	**14**		9.8	3.7	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Benzo[b]fluoranthene	**43**		9.8	4.1	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Benzo[g,h,i]perylene	**12**		9.8	8.4	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Benzo[k]fluoranthene	**14**	**B**	9.8	4.1	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Chrysene	**37**		9.8	2.7	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Dibenz(a,h)anthracene	**7.0**	**J**	9.8	6.8	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Fluoranthene	**59**		9.8	2.7	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Fluorene	ND		9.8	4.3	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Indeno[1,2,3-cd]pyrene	**11**		9.8	8.2	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Naphthalene	**69**		9.8	6.8	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Phenanthrene	**81**		9.8	3.5	ug/Kg		02/01/19 14:01	02/12/19 14:53	2
Pyrene	**43**		9.8	3.3	ug/Kg		02/01/19 14:01	02/12/19 14:53	2

Client Sample ID: DG-W7S-3.5-4 — Lab Sample ID: 720-91069-16

Date Collected: 01/29/19 13:20 — **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		33 - 120	02/01/19 14:01	02/12/19 14:53	2
Terphenyl-d14	107		35 - 146	02/01/19 14:01	02/12/19 14:53	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	35		1.9	0.72	mg/Kg		02/08/19 09:05	02/12/19 13:34	1
Motor Oil Range Organics [C24-C36]	68		48	9.7	mg/Kg		02/08/19 09:05	02/12/19 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	90		40 - 130	02/08/19 09:05	02/12/19 13:34	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Chlordane (technical)	ND		39	3.1	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Endosulfan I	ND		2.0	0.31	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Endrin ketone	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Methoxychlor	ND		2.0	0.66	ug/Kg		02/01/19 11:12	02/09/19 23:17	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/09/19 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		21 - 136	02/01/19 11:12	02/09/19 23:17	1
Tetrachloro-m-xylene	65		21 - 145	02/01/19 11:12	02/09/19 23:17	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:53	1
Aroclor 1221	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:53	1
Aroclor 1232	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:53	1
Aroclor 1242	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:53	1
Aroclor 1248	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:53	1
Aroclor 1254	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:53	1
Aroclor 1260	ND		50	17	ug/Kg		02/04/19 13:17	02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-W7S-3.5-4

Date Collected: 01/29/19 13:20
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*54*		*45 - 120*	*02/04/19 13:17*	*02/06/19 20:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	65		3.2	0.53	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Arsenic	30		6.3	0.54	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Barium	1300		3.2	0.45	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Beryllium	ND		0.63	0.21	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Cadmium	3.5		0.79	0.078	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Chromium	70		3.2	0.34	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Cobalt	15		1.3	0.13	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Copper	1100		9.5	4.5	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Lead	4900		3.2	0.66	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Molybdenum	1.5	J	3.2	0.41	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Nickel	72		3.2	0.32	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Selenium	2.1	J	6.3	0.95	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Silver	7.0		1.6	0.32	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Thallium	0.96	J	3.2	0.92	mg/Kg		01/31/19 09:30	02/05/19 17:30	10
Vanadium	35		3.2	0.43	mg/Kg		01/31/19 09:30	02/01/19 19:15	10
Zinc	2200		9.5	4.0	mg/Kg		01/31/19 09:30	02/01/19 19:15	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.52		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.4		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-R5S-0.5-1 — Lab Sample ID: 720-91069-17

Date Collected: 01/29/19 14:00 — **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		90	63	ug/Kg		01/29/19 19:00	02/05/19 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*60 - 120*	*01/29/19 19:00*	*02/05/19 17:00*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/29/19 19:00*	*02/05/19 17:00*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 17:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.0	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,1,1-Trichloroethane	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,1,2-Trichloroethane	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,1-Dichloroethane	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,1-Dichloroethene	ND		1.8	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,1-Dichloropropene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,2,3-Trichlorobenzene	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,2,4-Trichlorobenzene	ND	*	4.5	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,2,4-Trimethylbenzene	ND	*	1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,2-Dibromo-3-Chloropropane	ND		4.5	1.8	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,2-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,2-Dichloroethane	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,2-Dichloropropane	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,3,5-Trimethylbenzene	ND	*	1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,3-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,3-Dichloropropane	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,4-Dichlorobenzene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
2,2-Dichloropropane	ND	*	1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
2-Chlorotoluene	ND	*	1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
2-Hexanone	ND		9.0	4.5	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
4-Chlorotoluene	ND	*	1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
4-Isopropyltoluene	ND	*	0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Benzene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Bromobenzene	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Bromoform	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Bromomethane	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Carbon disulfide	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Carbon tetrachloride	ND	*	1.8	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Chlorobenzene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Chlorobromomethane	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Chloroethane	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Chloroform	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Chloromethane	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
cis-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
cis-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Chlorodibromomethane	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Dibromomethane	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Dichlorobromomethane	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1

Client Sample ID: DG-R5S-0.5-1 — Lab Sample ID: 720-91069-17

Date Collected: 01/29/19 14:00 — **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Ethylbenzene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Hexachlorobutadiene	ND	*	1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Isopropylbenzene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Methylene Chloride	ND		9.0	4.5	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Methyl tert-butyl ether	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Naphthalene	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
n-Butylbenzene	ND	*	1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
N-Propylbenzene	ND	*	0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
sec-Butylbenzene	ND	*	1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Styrene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
tert-Butylbenzene	ND	*	1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Tetrachloroethene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Toluene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
trans-1,2-Dichloroethene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
trans-1,3-Dichloropropene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Trichloroethene	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Trichlorofluoromethane	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.0	4.5	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Vinyl acetate	ND		7.2	3.6	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Vinyl chloride	ND		1.8	0.90	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
Ethylene Dibromide	ND		0.90	0.45	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
2-Butanone (MEK)	ND		9.0	4.5	ug/Kg		01/29/19 19:00	02/05/19 17:00	1
4-Methyl-2-pentanone (MIBK)	ND		4.5	2.2	ug/Kg		01/29/19 19:00	02/05/19 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/29/19 19:00*	*02/05/19 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/29/19 19:00*	*02/05/19 17:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**73**		49	24	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Acenaphthene	ND		24	14	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Acenaphthylene	**32**		24	12	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Anthracene	**48**		24	9.8	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Benzo[a]anthracene	**230**		24	7.3	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Benzo[a]pyrene	**280**		24	9.3	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Benzo[b]fluoranthene	**440**		24	10	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Benzo[g,h,i]perylene	**130**		24	21	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Benzo[k]fluoranthene	**140**	**B**	24	10	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Chrysene	**240**		24	6.9	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Dibenz(a,h)anthracene	**46**		24	17	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Fluoranthene	**330**		24	6.9	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Fluorene	ND		24	11	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Indeno[1,2,3-cd]pyrene	**120**		24	21	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Naphthalene	**70**		24	17	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Phenanthrene	**140**		24	8.8	ug/Kg		02/01/19 14:01	02/12/19 15:16	5
Pyrene	**300**		24	8.3	ug/Kg		02/01/19 14:01	02/12/19 15:16	5

Client Sample ID: DG-R5S-0.5-1 — Lab Sample ID: 720-91069-17

Date Collected: 01/29/19 14:00 — **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		33 - 120	02/01/19 14:01	02/12/19 15:16	5
Terphenyl-d14	145		35 - 146	02/01/19 14:01	02/12/19 15:16	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**62**		3.8	1.4	mg/Kg		02/08/19 09:05	02/12/19 13:05	2
Motor Oil Range Organics [C24-C36]	**150**		95	19	mg/Kg		02/08/19 09:05	02/12/19 13:05	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	88		40 - 130	02/08/19 09:05	02/12/19 13:05	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**1.5**	**J p**	2.0	0.60	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
4,4'-DDE	**18**		2.0	0.41	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
4,4'-DDT	**17**		2.0	0.40	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Chlordane (technical)	ND		39	3.1	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Endosulfan I	ND		2.0	0.31	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Endrin ketone	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Methoxychlor	ND		2.0	0.66	ug/Kg		02/01/19 11:12	02/09/19 23:35	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/09/19 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	114		21 - 136	02/01/19 11:12	02/09/19 23:35	1
Tetrachloro-m-xylene	79		21 - 145	02/01/19 11:12	02/09/19 23:35	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:42	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:42	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:42	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:42	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:42	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:42	1
Aroclor 1260	**89**		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:42	1

Client Sample ID: DG-R5S-0.5-1 Lab Sample ID: 720-91069-17

Date Collected: 01/29/19 14:00 **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*02/04/19 13:17*	*02/05/19 20:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.2	0.20	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Arsenic	53		2.5	0.21	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Barium	99		1.2	0.18	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Beryllium	ND		0.25	0.080	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Cadmium	1.0		0.31	0.031	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Chromium	16		1.2	0.13	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Cobalt	11		0.49	0.049	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Copper	110		3.7	1.8	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Lead	230		1.2	0.26	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Molybdenum	0.47	J	1.2	0.16	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Nickel	14		1.2	0.13	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Selenium	0.93	J	2.5	0.37	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Silver	0.15	J	0.62	0.12	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Thallium	ND		1.2	0.36	mg/Kg		01/31/19 09:30	02/05/19 17:35	4
Vanadium	78		1.2	0.17	mg/Kg		01/31/19 09:30	02/01/19 19:20	4
Zinc	310		3.7	1.6	mg/Kg		01/31/19 09:30	02/01/19 19:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.015	0.0023	mg/Kg		02/11/19 17:38	02/12/19 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-R5S-3.5-4 Lab Sample ID: 720-91069-18

Date Collected: 01/29/19 14:00 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	54	ug/Kg		01/29/19 19:00	02/05/19 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*60 - 120*	*01/29/19 19:00*	*02/05/19 17:25*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/29/19 19:00*	*02/05/19 17:25*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 17:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.6	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,2,3-Trichlorobenzene	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,2,4-Trichlorobenzene	ND	*	3.8	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,2,4-Trimethylbenzene	ND	*	1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,2-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,3,5-Trimethylbenzene	ND	*	1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,3-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,4-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
2,2-Dichloropropane	ND	*	1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
2-Chlorotoluene	ND	*	1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
2-Hexanone	ND		7.6	3.8	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
4-Chlorotoluene	ND	*	1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
4-Isopropyltoluene	ND	*	0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Benzene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Bromobenzene	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Bromoform	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Bromomethane	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Carbon tetrachloride	ND	*	1.5	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Chloroethane	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Chloroform	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Chloromethane	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Dibromomethane	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1

Client Sample ID: DG-R5S-3.5-4 Lab Sample ID: 720-91069-18

Date Collected: 01/29/19 14:00 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Hexachlorobutadiene	ND	*	1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Naphthalene	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
n-Butylbenzene	ND	*	1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
N-Propylbenzene	ND	*	0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
sec-Butylbenzene	ND	*	1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Styrene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
tert-Butylbenzene	ND	*	1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Toluene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Trichloroethene	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Xylenes, Total	ND		1.5	0.99	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
2-Butanone (MEK)	ND		7.6	3.8	ug/Kg		01/29/19 19:00	02/05/19 17:25	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/29/19 19:00	02/05/19 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/05/19 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*01/29/19 19:00*	*02/05/19 17:25*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**10**	**J**	19	9.7	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Acenaphthene	ND		9.7	5.5	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Acenaphthylene	**19**		9.7	4.7	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Anthracene	**12**		9.7	3.9	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Benzo[a]anthracene	**82**		9.7	2.9	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Benzo[a]pyrene	**110**		9.7	3.7	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Benzo[b]fluoranthene	**140**		9.7	4.1	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Benzo[g,h,i]perylene	**56**		9.7	8.4	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Benzo[k]fluoranthene	**33**	**B**	9.7	4.1	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Chrysene	**110**		9.7	2.7	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Dibenz(a,h)anthracene	**18**		9.7	6.8	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Fluoranthene	**110**		9.7	2.7	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Fluorene	ND		9.7	4.3	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Indeno[1,2,3-cd]pyrene	**49**		9.7	8.2	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Naphthalene	**12**		9.7	6.8	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Phenanthrene	**45**		9.7	3.5	ug/Kg		02/01/19 14:01	02/12/19 02:46	2
Pyrene	**140**		9.7	3.3	ug/Kg		02/01/19 14:01	02/12/19 02:46	2

Client Sample ID: DG-R5S-3.5-4 Lab Sample ID: 720-91069-18

Date Collected: 01/29/19 14:00 **Matrix: Solid**
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		33 - 120	02/01/19 14:01	02/12/19 02:46	2
Terphenyl-d14	114		35 - 146	02/01/19 14:01	02/12/19 02:46	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		1.9	0.73	mg/Kg		02/08/19 09:05	02/12/19 14:04	1
Motor Oil Range Organics [C24-C36]	32	J	48	9.7	mg/Kg		02/08/19 09:05	02/12/19 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	110		40 - 130	02/08/19 09:05	02/12/19 14:04	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Chlordane (technical)	ND		39	3.1	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Endosulfan I	ND		2.0	0.31	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Endrin ketone	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 11:12	02/09/19 23:52	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/09/19 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	61		21 - 136	02/01/19 11:12	02/09/19 23:52	1
Tetrachloro-m-xylene	83		21 - 145	02/01/19 11:12	02/09/19 23:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:55	1
Aroclor 1221	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:55	1
Aroclor 1232	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:55	1
Aroclor 1242	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:55	1
Aroclor 1248	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:55	1
Aroclor 1254	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:55	1
Aroclor 1260	ND		49	17	ug/Kg		02/04/19 13:17	02/05/19 20:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-R5S-3.5-4

Date Collected: 01/29/19 14:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-18

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	60		45 - 120	02/04/19 13:17	02/05/19 20:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.1	0.18	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Arsenic	170		2.2	0.18	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Barium	75		1.1	0.15	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Beryllium	0.095	J	0.22	0.070	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Cadmium	0.63		0.27	0.027	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Chromium	28		1.1	0.11	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Cobalt	8.1		0.43	0.043	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Copper	65		3.2	1.5	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Lead	370		1.1	0.23	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Molybdenum	0.18	J	1.1	0.14	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Nickel	43		1.1	0.11	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Selenium	0.54	J	2.2	0.32	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Silver	0.32	J	0.54	0.11	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Thallium	ND		1.1	0.31	mg/Kg		01/31/19 09:30	02/05/19 17:40	4
Vanadium	37		1.1	0.15	mg/Kg		01/31/19 09:30	02/01/19 19:25	4
Zinc	190		3.2	1.4	mg/Kg		01/31/19 09:30	02/01/19 19:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.077		0.016	0.0024	mg/Kg		02/11/19 17:38	02/12/19 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-AB5S-0.5-1 Lab Sample ID: 720-91069-19

Date Collected: 01/29/19 14:40 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		64	45	ug/Kg		01/29/19 19:00	02/05/19 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*60 - 120*	*01/29/19 19:00*	*02/05/19 17:49*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/29/19 19:00*	*02/05/19 17:49*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 17:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.4	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,1,1-Trichloroethane	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,1,2-Trichloroethane	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,1-Dichloroethane	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,1-Dichloropropene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,2,3-Trichlorobenzene	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,2,4-Trichlorobenzene	ND	*	3.2	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,2,4-Trimethylbenzene	ND	*	1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,2-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,2-Dichloroethane	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,2-Dichloropropane	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,3,5-Trimethylbenzene	ND	*	1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,3-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,3-Dichloropropane	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,4-Dichlorobenzene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
2,2-Dichloropropane	ND	*	1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
2-Chlorotoluene	ND	*	1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
2-Hexanone	ND		6.4	3.2	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
4-Chlorotoluene	ND	*	1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
4-Isopropyltoluene	ND	*	0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Benzene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Bromobenzene	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Bromoform	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Bromomethane	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Carbon disulfide	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Carbon tetrachloride	ND	*	1.3	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Chlorobenzene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Chlorobromomethane	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Chloroethane	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Chloroform	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Chloromethane	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
cis-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
cis-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Chlorodibromomethane	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Dibromomethane	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Dichlorobromomethane	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1

Client Sample ID: DG-AB5S-0.5-1 Lab Sample ID: 720-91069-19

Date Collected: 01/29/19 14:40 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Ethylbenzene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Hexachlorobutadiene	ND	*	1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Isopropylbenzene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Methylene Chloride	ND		6.4	3.2	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Methyl tert-butyl ether	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Naphthalene	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
n-Butylbenzene	ND	*	1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
N-Propylbenzene	ND	*	0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
sec-Butylbenzene	ND	*	1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Styrene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
tert-Butylbenzene	ND	*	1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Tetrachloroethene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Toluene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
trans-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
trans-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Trichloroethene	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Trichlorofluoromethane	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	3.2	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Vinyl acetate	ND		5.1	2.5	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Vinyl chloride	ND		1.3	0.64	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Xylenes, Total	ND		1.3	0.83	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
Ethylene Dibromide	ND		0.64	0.32	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
2-Butanone (MEK)	ND		6.4	3.2	ug/Kg		01/29/19 19:00	02/05/19 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		01/29/19 19:00	02/05/19 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/05/19 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/29/19 19:00*	*02/05/19 17:49*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**79**		49	25	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Acenaphthene	ND		25	14	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Acenaphthylene	**130**		25	12	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Anthracene	**56**		25	9.9	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Benzo[a]anthracene	**550**		25	7.4	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Benzo[a]pyrene	**770**		25	9.4	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Benzo[b]fluoranthene	**740**		25	10	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Benzo[g,h,i]perylene	**290**		25	21	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Benzo[k]fluoranthene	**290**	**B**	25	10	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Chrysene	**600**		25	6.9	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Dibenz(a,h)anthracene	**81**		25	17	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Fluoranthene	**480**		25	6.9	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Fluorene	ND		25	11	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Indeno[1,2,3-cd]pyrene	**250**		25	21	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Naphthalene	**100**		25	17	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Phenanthrene	**140**		25	8.9	ug/Kg		02/01/19 14:01	02/12/19 15:40	5
Pyrene	**1000**		25	8.4	ug/Kg		02/01/19 14:01	02/12/19 15:40	5

Client Sample ID: DG-AB5S-0.5-1
Lab Sample ID: 720-91069-19

Date Collected: 01/29/19 14:40
Matrix: Solid
Date Received: 01/29/19 18:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		33 - 120	02/01/19 14:01	02/12/19 15:40	5
Terphenyl-d14	134		35 - 146	02/01/19 14:01	02/12/19 15:40	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	51		4.0	1.5	mg/Kg		02/08/19 14:54	02/12/19 13:34	2
Motor Oil Range Organics [C24-C36]	150		99	20	mg/Kg		02/08/19 14:54	02/12/19 13:34	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	85		40 - 130	02/08/19 14:54	02/12/19 13:34	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Chlordane (technical)	ND		40	3.2	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
delta-BHC	ND		2.0	0.44	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 11:12	02/10/19 00:10	1
Toxaphene	ND		40	6.7	ug/Kg		02/01/19 11:12	02/10/19 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		21 - 136	02/01/19 11:12	02/10/19 00:10	1
Tetrachloro-m-xylene	88		21 - 145	02/01/19 11:12	02/10/19 00:10	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 13:46	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 13:46	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 13:46	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 13:46	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 13:46	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 13:46	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 13:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AB5S-0.5-1

Date Collected: 01/29/19 14:40
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-19

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*02/05/19 13:19*	*02/08/19 13:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1		1.1	0.19	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Arsenic	200		2.2	0.19	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Barium	62		1.1	0.16	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Beryllium	0.079	J	0.22	0.073	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Cadmium	0.51		0.28	0.028	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Chromium	8.3		1.1	0.12	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Cobalt	8.4		0.45	0.045	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Copper	94		3.4	1.6	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Lead	140		1.1	0.23	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Nickel	9.7		1.1	0.11	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Selenium	0.68	J	2.2	0.34	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Silver	0.15	J	0.56	0.11	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Thallium	ND		1.1	0.32	mg/Kg		01/31/19 09:30	02/05/19 17:44	4
Vanadium	58		1.1	0.15	mg/Kg		01/31/19 09:30	02/01/19 19:29	4
Zinc	150		3.4	1.4	mg/Kg		01/31/19 09:30	02/01/19 19:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.016	0.0024	mg/Kg		02/11/19 17:38	02/12/19 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.05	%			01/31/19 08:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AB5S-3.5-4

Date Collected: 01/29/19 14:40
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		77	54	ug/Kg		01/29/19 19:00	02/05/19 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*60 - 120*	*01/29/19 19:00*	*02/05/19 21:55*	*1*
4-Bromofluorobenzene (Surr)	*114*		*79 - 120*	*01/29/19 19:00*	*02/05/19 21:55*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*01/29/19 19:00*	*02/05/19 21:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.7	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,1,1-Trichloroethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,1,2-Trichloroethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,1-Dichloroethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,1-Dichloropropene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,2,3-Trichlorobenzene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,2,4-Trichlorobenzene	ND		3.8	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,2,4-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,2-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,2-Dichloroethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,2-Dichloropropane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,3,5-Trimethylbenzene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,3-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,3-Dichloropropane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,4-Dichlorobenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
2,2-Dichloropropane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
2-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
2-Hexanone	ND		7.7	3.8	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
4-Chlorotoluene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
4-Isopropyltoluene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Benzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Bromobenzene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Bromoform	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Bromomethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Chlorobenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Chloroethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Chloroform	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Chloromethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
cis-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
cis-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Chlorodibromomethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Dibromomethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Dichlorobromomethane	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1

Client Sample ID: DG-AB5S-3.5-4 **Lab Sample ID: 720-91069-20**
Date Collected: 01/29/19 14:40 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Ethylbenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Hexachlorobutadiene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Isopropylbenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Methylene Chloride	ND		7.7	3.8	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Naphthalene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
n-Butylbenzene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
N-Propylbenzene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
sec-Butylbenzene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Styrene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
tert-Butylbenzene	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Tetrachloroethene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Toluene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
trans-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
trans-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Trichloroethene	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.8	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
Ethylene Dibromide	ND		0.77	0.38	ug/Kg		01/29/19 19:00	02/05/19 21:55	1
2-Butanone (MEK)	ND		7.7	3.8	ug/Kg		01/29/19 19:00	02/05/19 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*79 - 123*	*01/29/19 19:00*	*02/05/19 21:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*	*01/29/19 19:00*	*02/05/19 21:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND	H	3.6	1.8	ug/Kg		01/29/19 19:00	02/06/19 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/29/19 19:00*	*02/06/19 16:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*01/29/19 19:00*	*02/06/19 16:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.7	4.9	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Acenaphthene	ND		4.9	2.7	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Acenaphthylene	ND		4.9	2.3	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Anthracene	**2.2**	**J**	4.9	1.9	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Benzo[a]anthracene	**5.6**		4.9	1.5	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Benzo[a]pyrene	**12**		4.9	1.9	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Benzo[b]fluoranthene	**16**		4.9	2.0	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Benzo[g,h,i]perylene	**11**		4.9	4.2	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Benzo[k]fluoranthene	**6.6**	**B**	4.9	2.0	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Chrysene	**8.0**		4.9	1.4	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Dibenz(a,h)anthracene	**3.9**	**J**	4.9	3.4	ug/Kg		02/01/19 14:01	02/09/19 11:50	1

Client Sample ID: DG-AB5S-3.5-4 Lab Sample ID: 720-91069-20

Date Collected: 01/29/19 14:40 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**12**		4.9	1.4	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Fluorene	ND		4.9	2.1	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Indeno[1,2,3-cd]pyrene	**8.7**		4.9	4.1	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Naphthalene	ND		4.9	3.4	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Phenanthrene	**6.3**		4.9	1.8	ug/Kg		02/01/19 14:01	02/09/19 11:50	1
Pyrene	**13**		4.9	1.7	ug/Kg		02/01/19 14:01	02/09/19 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*33 - 120*	*02/01/19 14:01*	*02/09/19 11:50*	*1*
Terphenyl-d14	*115*		*35 - 146*	*02/01/19 14:01*	*02/09/19 11:50*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.8**		1.9	0.71	mg/Kg		02/08/19 14:54	02/12/19 15:31	1
Motor Oil Range Organics [C24-C36]	**24**	**J**	48	9.5	mg/Kg		02/08/19 14:54	02/12/19 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*102*		*40 - 130*	*02/08/19 14:54*	*02/12/19 15:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Chlordane (technical)	ND		39	3.1	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Endosulfan I	ND		2.0	0.31	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Endrin ketone	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Methoxychlor	ND		2.0	0.66	ug/Kg		02/01/19 11:12	02/10/19 00:27	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 11:12	02/10/19 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*21 - 136*	*02/01/19 11:12*	*02/10/19 00:27*	*1*
Tetrachloro-m-xylene	*72*		*21 - 145*	*02/01/19 11:12*	*02/10/19 00:27*	*1*

Client Sample ID: DG-AB5S-3.5-4 — Lab Sample ID: 720-91069-20

Date Collected: 01/29/19 14:40 — **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:36	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:36	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:36	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:36	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:36	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:36	1
Aroclor 1260	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*02/05/19 13:19*	*02/06/19 20:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**J**	1.7	0.28	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Arsenic	**54**		3.4	0.29	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Barium	**31**		1.7	0.24	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Beryllium	ND		0.34	0.11	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Cadmium	**0.24**	**J**	0.42	0.042	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Chromium	**21**		1.7	0.18	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Cobalt	**3.6**		0.68	0.068	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Copper	**13**		5.1	2.4	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Lead	**11**		1.7	0.36	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Molybdenum	**0.22**	**J**	1.7	0.22	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Nickel	**17**		1.7	0.17	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Selenium	**0.98**	**J**	3.4	0.51	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Silver	ND		0.85	0.17	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Thallium	ND		1.7	0.49	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Vanadium	**17**		1.7	0.23	mg/Kg		01/30/19 11:00	02/07/19 22:48	4
Zinc	**27**		5.1	2.2	mg/Kg		01/30/19 11:00	02/07/19 22:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.017	0.0025	mg/Kg		02/11/19 17:38	02/12/19 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.4**		0.1	0.05	%			01/31/19 08:56	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: FB-01.29.19
Lab Sample ID: 720-91069-21

Date Collected: 01/29/19 00:00
Matrix: Water
Date Received: 01/29/19 18:25

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/09/19 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/09/19 17:37*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/09/19 17:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/09/19 17:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Acetone	**52**		20	10	ug/L			02/09/19 17:37	1
Benzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Bromobenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Bromoform	ND		1.0	0.40	ug/L			02/09/19 17:37	1
Bromomethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/09/19 17:37	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/09/19 17:37	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/09/19 17:37	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Chloroethane	ND		1.0	0.40	ug/L			02/09/19 17:37	1
Chloroform	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Chloromethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/09/19 17:37	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Dibromomethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/09/19 17:37	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/09/19 17:37	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: FB-01.29.19
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/09/19 17:37	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/09/19 17:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/09/19 17:37	1
Naphthalene	ND		1.0	0.40	ug/L			02/09/19 17:37	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Styrene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Toluene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/09/19 17:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/09/19 17:37	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Trichloroethene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/09/19 17:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/09/19 17:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/09/19 17:37	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/09/19 17:37	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/09/19 17:37	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/09/19 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*02/09/19 17:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/09/19 17:37*	*1*

Client Sample ID: DUP-31
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-22
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		62	44	ug/Kg		01/29/19 19:00	02/05/19 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*01/29/19 19:00*	*02/05/19 22:23*	*1*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*	*01/29/19 19:00*	*02/05/19 22:23*	*1*
Toluene-d8 (Surr)	*106*		*79 - 123*	*01/29/19 19:00*	*02/05/19 22:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,1,1,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,1,1-Trichloroethane	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,1,2-Trichloroethane	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,1-Dichloroethane	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,1-Dichloroethene	ND		1.2	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,1-Dichloropropene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,2,3-Trichlorobenzene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,2,4-Trichlorobenzene	ND		3.1	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,2,4-Trimethylbenzene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,2-Dibromo-3-Chloropropane	ND		3.1	1.2	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,2-Dichlorobenzene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,2-Dichloroethane	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,2-Dichloropropane	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,3,5-Trimethylbenzene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,3-Dichlorobenzene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,3-Dichloropropane	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,4-Dichlorobenzene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
2,2-Dichloropropane	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
2-Chlorotoluene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
2-Hexanone	ND		6.2	3.1	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
4-Chlorotoluene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
4-Isopropyltoluene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Benzene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Bromobenzene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Bromoform	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Bromomethane	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Carbon disulfide	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Carbon tetrachloride	ND		1.2	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Chlorobenzene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Chlorobromomethane	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Chloroethane	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Chloroform	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Chloromethane	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
cis-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
cis-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Chlorodibromomethane	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Dibromomethane	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Dichlorobromomethane	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1

Client Sample ID: DUP-31
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-22
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Ethylbenzene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Hexachlorobutadiene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Isopropylbenzene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Methylene Chloride	ND		6.2	3.1	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Methyl tert-butyl ether	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Naphthalene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
n-Butylbenzene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
N-Propylbenzene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
sec-Butylbenzene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Styrene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
tert-Butylbenzene	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Tetrachloroethene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Toluene	**0.45**	**J**	0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
trans-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
trans-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Trichloroethene	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Trichlorofluoromethane	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	3.1	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Vinyl acetate	ND		5.0	2.5	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Vinyl chloride	ND		1.2	0.62	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Xylenes, Total	ND		1.2	0.81	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
Ethylene Dibromide	ND		0.62	0.31	ug/Kg		01/29/19 19:00	02/05/19 22:23	1
2-Butanone (MEK)	ND		6.2	3.1	ug/Kg		01/29/19 19:00	02/05/19 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*79 - 123*	*01/29/19 19:00*	*02/05/19 22:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*	*01/29/19 19:00*	*02/05/19 22:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND	H	3.4	1.7	ug/Kg		01/29/19 19:00	02/06/19 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/29/19 19:00*	*02/06/19 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*01/29/19 19:00*	*02/06/19 17:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**26**	**J**	49	25	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Acenaphthene	ND		25	14	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Acenaphthylene	**23**	**J**	25	12	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Anthracene	**21**	**J**	25	9.9	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Benzo[a]anthracene	**53**		25	7.4	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Benzo[a]pyrene	**84**		25	9.4	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Benzo[b]fluoranthene	**99**		25	10	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Benzo[g,h,i]perylene	**49**		25	21	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Benzo[k]fluoranthene	**36**	**B**	25	10	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Chrysene	**56**		25	6.9	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Dibenz(a,h)anthracene	**18**	**J**	25	17	ug/Kg		02/01/19 14:01	02/12/19 16:03	5

Client Sample ID: DUP-31
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-22
Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**91**		25	6.9	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Fluorene	ND		25	11	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Indeno[1,2,3-cd]pyrene	**40**		25	21	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Naphthalene	**22**	**J**	25	17	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Phenanthrene	**42**		25	8.9	ug/Kg		02/01/19 14:01	02/12/19 16:03	5
Pyrene	**120**		25	8.4	ug/Kg		02/01/19 14:01	02/12/19 16:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*33 - 120*	*02/01/19 14:01*	*02/12/19 16:03*	*5*
Terphenyl-d14	*152*	*X*	*35 - 146*	*02/01/19 14:01*	*02/12/19 16:03*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**38**		2.0	0.74	mg/Kg		02/01/19 12:44	02/05/19 18:09	1
Motor Oil Range Organics [C24-C36]	**91**		49	9.8	mg/Kg		02/01/19 12:44	02/05/19 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*91*		*40 - 130*	*02/01/19 12:44*	*02/05/19 18:09*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Aldrin	ND		2.0	0.49	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
alpha-BHC	ND		2.0	0.54	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
beta-BHC	ND		2.0	0.35	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Chlordane (technical)	ND		39	3.1	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
delta-BHC	ND		2.0	0.43	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Dieldrin	ND		2.0	0.58	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Endosulfan I	ND		2.0	0.31	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Endosulfan II	ND		2.0	0.48	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Endrin	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Endrin ketone	ND		2.0	0.32	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Heptachlor	ND		2.0	0.45	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Methoxychlor	ND		2.0	0.66	ug/Kg		01/31/19 09:29	02/08/19 12:48	1
Toxaphene	ND		39	6.7	ug/Kg		01/31/19 09:29	02/08/19 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*21 - 136*	*01/31/19 09:29*	*02/08/19 12:48*	*1*
Tetrachloro-m-xylene	*110*		*21 - 145*	*01/31/19 09:29*	*02/08/19 12:48*	*1*

Client Sample ID: DUP-31
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-22
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 20:50	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 20:50	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 20:50	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 20:50	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 20:50	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 20:50	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*02/05/19 13:19*	*02/06/19 20:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.1**		1.6	0.26	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Arsenic	**180**		3.1	0.27	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Barium	**58**		1.6	0.22	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Beryllium	ND		0.31	0.10	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Cadmium	**0.60**		0.39	0.039	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Chromium	**15**		1.6	0.17	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Cobalt	**9.8**		0.63	0.063	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Copper	**100**		4.7	2.2	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Lead	**93**		1.6	0.33	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Molybdenum	**0.32**	**J**	1.6	0.20	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Nickel	**14**		1.6	0.16	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Selenium	**1.8**	**J**	3.1	0.47	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Silver	ND		0.78	0.16	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Thallium	ND		1.6	0.45	mg/Kg		01/30/19 11:00	03/12/19 11:15	4
Vanadium	**68**		1.6	0.21	mg/Kg		01/30/19 11:00	02/07/19 22:53	4
Zinc	**100**		4.7	2.0	mg/Kg		01/30/19 11:00	02/07/19 22:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.016	0.0023	mg/Kg		02/11/19 17:38	02/12/19 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.05	%			01/31/19 08:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DUP-29

Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-23

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		73	51	ug/Kg		01/29/19 19:00	02/05/19 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*60 - 120*	*01/29/19 19:00*	*02/05/19 22:52*	*1*
4-Bromofluorobenzene (Surr)	*119*		*79 - 120*	*01/29/19 19:00*	*02/05/19 22:52*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*01/29/19 19:00*	*02/05/19 22:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,1,1-Trichloroethane	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,1,2-Trichloroethane	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,1-Dichloroethane	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,1-Dichloropropene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,2,4-Trichlorobenzene	ND		3.7	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,2-Dichlorobenzene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,2-Dichloroethane	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,2-Dichloropropane	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,3-Dichlorobenzene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,3-Dichloropropane	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,4-Dichlorobenzene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
2-Hexanone	ND		7.3	3.7	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
4-Isopropyltoluene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Benzene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Bromoform	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Chlorobenzene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Chloroform	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
cis-1,2-Dichloroethene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
cis-1,3-Dichloropropene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Chlorodibromomethane	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Dibromomethane	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Dichlorobromomethane	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1

Client Sample ID: DUP-29
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-23
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Ethylbenzene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Isopropylbenzene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Methylene Chloride	ND		7.3	3.7	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
N-Propylbenzene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Styrene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Tetrachloroethene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Toluene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
trans-1,2-Dichloroethene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
trans-1,3-Dichloropropene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Trichloroethene	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.7	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Vinyl acetate	ND		5.9	2.9	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Xylenes, Total	ND		1.5	0.95	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
Ethylene Dibromide	ND		0.73	0.37	ug/Kg		01/29/19 19:00	02/05/19 22:52	1
2-Butanone (MEK)	ND		7.3	3.7	ug/Kg		01/29/19 19:00	02/05/19 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*79 - 123*	*01/29/19 19:00*	*02/05/19 22:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*	*01/29/19 19:00*	*02/05/19 22:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND	H	3.7	1.8	ug/Kg		01/29/19 19:00	02/06/19 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/29/19 19:00*	*02/06/19 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*01/29/19 19:00*	*02/06/19 17:25*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**14**	**J**	20	9.8	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Acenaphthene	ND		9.8	5.5	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Acenaphthylene	**21**		9.8	4.7	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Anthracene	**21**		9.8	3.9	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Benzo[a]anthracene	**73**		9.8	2.9	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Benzo[a]pyrene	**97**		9.8	3.7	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Benzo[b]fluoranthene	**150**		9.8	4.1	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Benzo[g,h,i]perylene	**48**		9.8	8.4	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Benzo[k]fluoranthene	**47**	**B**	9.8	4.1	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Chrysene	**100**		9.8	2.7	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Dibenz(a,h)anthracene	**16**		9.8	6.8	ug/Kg		02/01/19 14:01	02/12/19 16:27	2

Client Sample ID: DUP-29

Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-23

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**110**		9.8	2.7	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Fluorene	ND		9.8	4.3	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Indeno[1,2,3-cd]pyrene	**40**		9.8	8.2	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Naphthalene	**14**		9.8	6.8	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Phenanthrene	**53**		9.8	3.5	ug/Kg		02/01/19 14:01	02/12/19 16:27	2
Pyrene	**130**		9.8	3.3	ug/Kg		02/01/19 14:01	02/12/19 16:27	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*33 - 120*	*02/01/19 14:01*	*02/12/19 16:27*	*2*
Terphenyl-d14	*135*		*35 - 146*	*02/01/19 14:01*	*02/12/19 16:27*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10**		1.9	0.71	mg/Kg		02/08/19 14:54	02/12/19 14:33	1
Motor Oil Range Organics [C24-C36]	**35**	**J**	47	9.4	mg/Kg		02/08/19 14:54	02/12/19 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*108*		*40 - 130*	*02/08/19 14:54*	*02/12/19 14:33*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Chlordane (technical)	ND		39	3.2	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 15:48	02/07/19 19:17	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 15:48	02/07/19 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*21 - 136*	*02/01/19 15:48*	*02/07/19 19:17*	*1*
Tetrachloro-m-xylene	*87*		*21 - 145*	*02/01/19 15:48*	*02/07/19 19:17*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DUP-29

Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-23

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:03	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:03	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:03	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:03	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:03	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:03	1
Aroclor 1260	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*02/05/19 13:19*	*02/06/19 21:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.69**	**J**	1.5	0.25	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Arsenic	**22**		3.0	0.25	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Barium	**30**		1.5	0.21	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Beryllium	ND		0.30	0.097	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Cadmium	**0.21**	**J**	0.37	0.037	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Chromium	**7.3**		1.5	0.16	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Cobalt	**7.9**		0.60	0.060	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Copper	**96**		4.5	2.1	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Lead	**53**		1.5	0.31	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Molybdenum	ND		1.5	0.19	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Nickel	**4.2**		1.5	0.15	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Selenium	ND		3.0	0.45	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Silver	**0.15**	**J**	0.75	0.15	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Thallium	ND		1.5	0.43	mg/Kg		01/30/19 11:00	03/12/19 11:19	4
Vanadium	**69**		1.5	0.20	mg/Kg		01/30/19 11:00	02/07/19 22:57	4
Zinc	**69**		4.5	1.9	mg/Kg		01/30/19 11:00	02/07/19 22:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.089**		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.4**		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DUP-75
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-24
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		01/29/19 19:00	02/05/19 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*01/29/19 19:00*	*02/05/19 23:20*	*1*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*	*01/29/19 19:00*	*02/05/19 23:20*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*	*01/29/19 19:00*	*02/05/19 23:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Benzene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Bromoform	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Chloroform	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1

Client Sample ID: DUP-75
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-24
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Styrene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Toluene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/29/19 19:00	02/05/19 23:20	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/29/19 19:00	02/05/19 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*79 - 123*	*01/29/19 19:00*	*02/05/19 23:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*	*01/29/19 19:00*	*02/05/19 23:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND	H	3.8	1.9	ug/Kg		01/29/19 19:00	02/06/19 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/29/19 19:00*	*02/06/19 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*01/29/19 19:00*	*02/06/19 17:49*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Acenaphthene	ND		4.9	2.8	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Anthracene	**2.3**	**J**	4.9	2.0	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Benzo[a]pyrene	**5.4**		4.9	1.9	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Benzo[b]fluoranthene	**5.5**		4.9	2.1	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Benzo[g,h,i]perylene	**4.8**	**J**	4.9	4.2	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Benzo[k]fluoranthene	**3.2**	**J B**	4.9	2.1	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Chrysene	**2.0**	**J**	4.9	1.4	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		02/01/19 14:01	02/12/19 01:59	1

Client Sample ID: DUP-75
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-24
Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**4.0**	**J**	4.9	1.4	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Fluorene	ND		4.9	2.2	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Indeno[1,2,3-cd]pyrene	**4.3**	**J**	4.9	4.1	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Naphthalene	ND		4.9	3.4	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Phenanthrene	**3.3**	**J**	4.9	1.8	ug/Kg		02/01/19 14:01	02/12/19 01:59	1
Pyrene	**6.5**		4.9	1.7	ug/Kg		02/01/19 14:01	02/12/19 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*02/01/19 14:01*	*02/12/19 01:59*	*1*
Terphenyl-d14	*106*		*35 - 146*	*02/01/19 14:01*	*02/12/19 01:59*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.4**		2.0	0.74	mg/Kg		02/08/19 14:54	02/12/19 15:02	1
Motor Oil Range Organics [C24-C36]	**13**	**J**	49	9.9	mg/Kg		02/08/19 14:54	02/12/19 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*108*		*40 - 130*	*02/08/19 14:54*	*02/12/19 15:02*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Aldrin	ND		2.0	0.49	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Chlordane (technical)	ND		39	3.2	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Endrin	ND		2.0	0.45	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
gamma-BHC (Lindane)	ND	F2	2.0	0.62	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/01/19 15:48	02/07/19 19:00	1
Toxaphene	ND		39	6.7	ug/Kg		02/01/19 15:48	02/07/19 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*21 - 136*	*02/01/19 15:48*	*02/07/19 19:00*	*1*
Tetrachloro-m-xylene	*83*		*21 - 145*	*02/01/19 15:48*	*02/07/19 19:00*	*1*

Client: Geosyntec Consultants, Inc.
Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-75
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-24
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:16	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:16	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:16	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:16	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:16	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:16	1
Aroclor 1260	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*02/05/19 13:19*	*02/06/19 21:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.6**		1.7	0.27	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Arsenic	**89**		3.3	0.28	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Barium	**38**		1.7	0.23	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Beryllium	ND		0.33	0.11	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Cadmium	**0.11**	**J**	0.41	0.041	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Chromium	**50**		1.7	0.18	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Cobalt	**5.9**		0.66	0.066	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Copper	**7.2**		5.0	2.4	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Lead	**5.3**		1.7	0.35	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Molybdenum	ND		1.7	0.21	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Nickel	**37**		1.7	0.17	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Selenium	**0.57**	**J**	3.3	0.50	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Silver	ND		0.83	0.17	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Thallium	ND		1.7	0.48	mg/Kg		01/30/19 11:00	03/12/19 11:24	4
Vanadium	**29**		1.7	0.22	mg/Kg		01/30/19 11:00	02/07/19 23:02	4
Zinc	**21**		5.0	2.1	mg/Kg		01/30/19 11:00	02/07/19 23:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0049**	**J**	0.015	0.0023	mg/Kg		02/11/19 17:38	02/12/19 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.0**		0.1	0.05	%			01/31/19 08:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: TB-01.29-19

Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-25

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/09/19 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*02/09/19 18:03*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/09/19 18:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/09/19 18:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Acetone	ND		20	10	ug/L			02/09/19 18:03	1
Benzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Bromobenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Bromoform	ND		1.0	0.40	ug/L			02/09/19 18:03	1
Bromomethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/09/19 18:03	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/09/19 18:03	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/09/19 18:03	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Chloroethane	ND		1.0	0.40	ug/L			02/09/19 18:03	1
Chloroform	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Chloromethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/09/19 18:03	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Dibromomethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/09/19 18:03	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/09/19 18:03	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: TB-01.29-19
Lab Sample ID: 720-91069-25
Date Collected: 01/29/19 00:00
Matrix: Water
Date Received: 01/29/19 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/09/19 18:03	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/09/19 18:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/09/19 18:03	1
Naphthalene	ND		1.0	0.40	ug/L			02/09/19 18:03	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Styrene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Toluene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/09/19 18:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/09/19 18:03	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Trichloroethene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/09/19 18:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/09/19 18:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/09/19 18:03	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/09/19 18:03	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/09/19 18:03	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/09/19 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*02/09/19 18:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/09/19 18:03*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCA (70-130)	TOL (79-123)
440-231210-A-2 MS	Matrix Spike	121	98
440-231210-A-2 MSD	Matrix Spike Duplicate	123	102
720-91069-1	DG-AH13S-0.5-1	103	99
720-91069-2	DG-AH13S-3.5-4	104	102
720-91069-4	DG-AJ13S-0.5-1	97	99
720-91069-5	DG-AJ13S-3.5-4	99	99
720-91069-6	DG-AL13S-0.5-1	102	98
720-91069-7	DG-AL13S-3.5-4	97	99
720-91069-9	DG-AC11S-3.5-4	108	94
720-91069-10	DG-AC11S-8.5-9	103	98
720-91069-11	DG-AA11S-0.5-1	101	100
720-91069-13	DG-W11S-0.5-1	104	98
720-91069-14	DG-W11S-3.5-4	101	98
720-91069-15	DG-W7S-0.5-1	100	98
720-91069-16	DG-W7S-3.5-4	101	100
720-91069-17	DG-R5S-0.5-1	101	100
720-91069-18	DG-R5S-3.5-4	100	99
720-91069-19	DG-AB5S-0.5-1	105	98
720-91069-20	DG-AB5S-3.5-4	121	111
720-91069-20 - RA	DG-AB5S-3.5-4	98	99
720-91069-22	DUP-31	119	106
720-91069-22 - RA	DUP-31	97	98
720-91069-23	DUP-29	125	110
720-91069-23 - RA	DUP-29	96	100
720-91069-24	DUP-75	121	103
720-91069-24 - RA	DUP-75	97	100
720-91089-A-9-A MSD	Matrix Spike Duplicate	96	98
720-91089-A-9-B MS	Matrix Spike	97	101
LCS 440-526749/6	Lab Control Sample	98	97
LCS 440-526919/8	Lab Control Sample	110	96
LCS 440-526931/27	Lab Control Sample	96	98
LCS 440-526986/6	Lab Control Sample	97	97
LCSD 440-526749/9	Lab Control Sample Dup	94	98
LCSD 440-526986/13	Lab Control Sample Dup	96	99
MB 440-526749/5	Method Blank	99	100
MB 440-526919/7	Method Blank	112	105
MB 440-526931/4	Method Blank	101	99
MB 440-526986/5	Method Blank	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TOL (60-140)	DCA (60-140)
720-91069-3	DG-AH13S-7.5-8	100	97

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)
720-91069-8	DG-AC11S-0.5-1	100	99
720-91069-12	DG-AA11S-3.5-4	99	96
LCS 440-527268/6	Lab Control Sample	97	104
LCSD 440-527268/7	Lab Control Sample Dup	99	104
MB 440-527268/5	Method Blank	97	105

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-232121-C-2 MS	Matrix Spike	106	98
440-232121-C-2 MSD	Matrix Spike Duplicate	106	97
720-91069-21	FB-01.29.19	105	100
720-91069-25	TB-01.29-19	104	102
LCS 440-527777/6	Lab Control Sample	99	97
MB 440-527777/5	Method Blank	101	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
440-231210-A-2 MS	Matrix Spike	109	109	98
440-231210-A-2 MSD	Matrix Spike Duplicate	110	107	102
720-91069-1	DG-AH13S-0.5-1	101	114	99
720-91069-2	DG-AH13S-3.5-4	103	110	102
720-91069-4	DG-AJ13S-0.5-1	100	108	99
720-91069-5	DG-AJ13S-3.5-4	100	106	99
720-91069-6	DG-AL13S-0.5-1	100	106	98
720-91069-7	DG-AL13S-3.5-4	99	105	99
720-91069-9	DG-AC11S-3.5-4	103	104	94
720-91069-10	DG-AC11S-8.5-9	101	104	97
720-91069-11	DG-AA11S-0.5-1	100	107	100
720-91069-13	DG-W11S-0.5-1	101	106	98
720-91069-14	DG-W11S-3.5-4	100	103	98
720-91069-15	DG-W7S-0.5-1	100	105	98
720-91069-16	DG-W7S-3.5-4	100	107	100
720-91069-17	DG-R5S-0.5-1	97	105	99
720-91069-18	DG-R5S-3.5-4	96	106	99
720-91069-19	DG-AB5S-0.5-1	95	104	98
720-91069-20	DG-AB5S-3.5-4	113	114	111

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-91069-22	DUP-31	110	113	106
720-91069-23	DUP-29	116	119	110
720-91069-24	DUP-75	109	112	103
720-91089-A-9-A MSD	Matrix Spike Duplicate	101	100	98
720-91089-A-9-B MS	Matrix Spike	102	101	101
LCS 440-526750/7	Lab Control Sample	100	103	98
LCS 440-526921/11	Lab Control Sample	109	106	104
LCS 440-526932/6	Lab Control Sample	102	99	99
LCSD 440-526750/10	Lab Control Sample Dup	99	103	100
MB 440-526750/5	Method Blank	101	104	100
MB 440-526921/7	Method Blank	111	109	105
MB 440-526932/4	Method Blank	102	97	99

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
720-91069-3	DG-AH13S-7.5-8	99	97	100
720-91069-8	DG-AC11S-0.5-1	100	100	100
720-91069-12	DG-AA11S-3.5-4	100	96	99
LCS 440-527269/8	Lab Control Sample	101	98	100
LCSD 440-527269/9	Lab Control Sample Dup	103	95	99
MB 440-527269/5	Method Blank	104	97	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-232121-C-2 MS	Matrix Spike	105	95	98
440-232121-C-2 MSD	Matrix Spike Duplicate	106	94	97
720-91069-21	FB-01.29.19	104	94	100
720-91069-25	TB-01.29-19	105	94	102
LCS 440-527778/29	Lab Control Sample	103	94	101
MB 440-527778/5	Method Blank	102	95	100

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)								
720-91016-A-16-G MS	Matrix Spike	80	125								
720-91016-A-16-H MSD	Matrix Spike Duplicate	85	130								
720-91069-1	DG-AH13S-0.5-1	89	128								
720-91069-2	DG-AH13S-3.5-4	87	137								
720-91069-3	DG-AH13S-7.5-8	0 X	0 X								
720-91069-4	DG-AJ13S-0.5-1	67	103								
720-91069-5	DG-AJ13S-3.5-4	99	143								
720-91069-6	DG-AL13S-0.5-1	78	116								
720-91069-7	DG-AL13S-3.5-4	92	119								
720-91069-8	DG-AC11S-0.5-1	89	118								
720-91069-8 MS	DG-AC11S-0.5-1	94	119								
720-91069-8 MSD	DG-AC11S-0.5-1	92	116								
720-91069-9	DG-AC11S-3.5-4	0 X	0 X								
720-91069-10	DG-AC11S-8.5-9	82	121								
720-91069-11	DG-AA11S-0.5-1	96	134								
720-91069-12	DG-AA11S-3.5-4	81	115								
720-91069-13	DG-W11S-0.5-1	88	127								
720-91069-14	DG-W11S-3.5-4	91	112								
720-91069-15	DG-W7S-0.5-1	95	138								
720-91069-16	DG-W7S-3.5-4	82	107								
720-91069-17	DG-R5S-0.5-1	102	145								
720-91069-18	DG-R5S-3.5-4	83	114								
720-91069-19	DG-AB5S-0.5-1	99	134								
720-91069-20	DG-AB5S-3.5-4	94	115								
720-91069-22	DUP-31	99	152 X								
720-91069-23	DUP-29	102	135								
720-91069-24	DUP-75	87	106								
LCS 720-259639/2-A	Lab Control Sample	84	119								
LCS 720-259667/2-A	Lab Control Sample	90	121								
MB 720-259639/1-A	Method Blank	87	120								
MB 720-259667/1-A	Method Blank	93	120								

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TPH1 (40-130)									
720-91069-1	DG-AH13S-0.5-1	0 X D									
720-91069-2	DG-AH13S-3.5-4	0 X D									
720-91069-3	DG-AH13S-7.5-8	0 D X									
720-91069-4	DG-AJ13S-0.5-1	0 D X									
720-91069-5	DG-AJ13S-3.5-4	103									
720-91069-6	DG-AL13S-0.5-1	97									
720-91069-7	DG-AL13S-3.5-4	105									

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-91069-8	DG-AC11S-0.5-1	0 X D
720-91069-9	DG-AC11S-3.5-4	0 X D
720-91069-10	DG-AC11S-8.5-9	0 D X
720-91069-11	DG-AA11S-0.5-1	80
720-91069-12	DG-AA11S-3.5-4	0 X D
720-91069-13	DG-W11S-0.5-1	0 X D
720-91069-14	DG-W11S-3.5-4	106
720-91069-15	DG-W7S-0.5-1	90
720-91069-16	DG-W7S-3.5-4	90
720-91069-17	DG-R5S-0.5-1	88
720-91069-18	DG-R5S-3.5-4	110
720-91069-19	DG-AB5S-0.5-1	85
720-91069-20	DG-AB5S-3.5-4	102
720-91069-22	DUP-31	91
720-91069-22 MS	DUP-31	100
720-91069-22 MSD	DUP-31	106
720-91069-23	DUP-29	108
720-91069-24	DUP-75	108
720-91218-A-24-G MS	Matrix Spike	103
720-91218-A-24-H MSD	Matrix Spike Duplicate	93
LCS 720-259655/2-A	Lab Control Sample	115
LCS 720-260029/2-A	Lab Control Sample	127
MB 720-259655/1-A	Method Blank	118
MB 720-260029/1-A	Method Blank	105

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX1 (21-145)
720-91069-1	DG-AH13S-0.5-1	82	77
720-91069-7	DG-AL13S-3.5-4	104	98
720-91069-10	DG-AC11S-8.5-9	104	90
720-91069-12	DG-AA11S-3.5-4	100	103
720-91069-17	DG-R5S-0.5-1	114	79
720-91069-19	DG-AB5S-0.5-1	75	88
720-91069-24 MS	DUP-75	65	98

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX2 (21-145)
720-91069-1 MSD	DG-AH13S-0.5-1	106	93
720-91069-24	DUP-75	60	83
720-91069-24 MSD	DUP-75	59	88
LCS 720-259541/2-A	Lab Control Sample	111	97
LCS 720-259644/2-A	Lab Control Sample	93	92
LCS 720-259684/2-A	Lab Control Sample	115	94
MB 720-259541/1-A	Method Blank	112	92
MB 720-259644/1-A	Method Blank	99	93
MB 720-259684/1-A	Method Blank	112	91

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX2 (21-145)
720-91048-E-19-G MS	Matrix Spike	91	92
720-91069-15	DG-W7S-0.5-1	64	71
720-91069-23	DUP-29	63	87

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX1 (21-145)
720-91048-E-19-H MSD	Matrix Spike Duplicate	92	104
720-91069-1 MS	DG-AH13S-0.5-1	67 p	96
720-91069-2	DG-AH13S-3.5-4	0 X D	0 X D
720-91069-3	DG-AH13S-7.5-8	0 X D	0 X D
720-91069-4	DG-AJ13S-0.5-1	0 X D	0 X D
720-91069-5	DG-AJ13S-3.5-4	84	93 p
720-91069-6	DG-AL13S-0.5-1	73 p	97
720-91069-8	DG-AC11S-0.5-1	95	95
720-91069-9	DG-AC11S-3.5-4	0 X D	0 X D
720-91069-11	DG-AA11S-0.5-1	96	101
720-91069-13	DG-W11S-0.5-1	100	79
720-91069-14	DG-W11S-3.5-4	57	73
720-91069-16	DG-W7S-3.5-4	68	65
720-91069-18	DG-R5S-3.5-4	61	83
720-91069-20	DG-AB5S-3.5-4	77	72
720-91069-22	DUP-31	84	110

Surrogate Legend

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
720-91069-1	DG-AH13S-0.5-1	28 X
720-91069-1 MS	DG-AH13S-0.5-1	48
720-91069-1 MSD	DG-AH13S-0.5-1	38 X
720-91069-2	DG-AH13S-3.5-4	37 X
720-91069-3	DG-AH13S-7.5-8	66
720-91069-4	DG-AJ13S-0.5-1	37 X
720-91069-5	DG-AJ13S-3.5-4	61
720-91069-6	DG-AL13S-0.5-1	60
720-91069-7	DG-AL13S-3.5-4	58
720-91069-8	DG-AC11S-0.5-1	68
720-91069-9	DG-AC11S-3.5-4	41 X
720-91069-10	DG-AC11S-8.5-9	51
720-91069-11	DG-AA11S-0.5-1	58
720-91069-12	DG-AA11S-3.5-4	64
720-91069-13	DG-W11S-0.5-1	72
720-91069-14	DG-W11S-3.5-4	48
720-91069-15	DG-W7S-0.5-1	67
720-91069-16	DG-W7S-3.5-4	54
720-91069-17	DG-R5S-0.5-1	58
720-91069-18	DG-R5S-3.5-4	60
720-91069-19	DG-AB5S-0.5-1	80
720-91069-20	DG-AB5S-3.5-4	74
720-91069-22	DUP-31	85
720-91069-23	DUP-29	81
720-91069-24	DUP-75	80
720-91089-E-9-I MS	Matrix Spike	86
720-91089-E-9-J MSD	Matrix Spike Duplicate	69
LCS 440-526661/2-A	Lab Control Sample	81
LCS 440-526869/2-A	Lab Control Sample	91
MB 440-526661/1-A	Method Blank	90
MB 440-526869/1-A	Method Blank	88

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 720-91089-A-9-A MSD
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		14.8	13.3		ug/Kg		90	60 - 135	10	25
1,2-Dichlorobenzene	ND		14.8	12.6		ug/Kg		86	70 - 130	14	25
1,3-Dichlorobenzene	ND		14.8	12.9		ug/Kg		87	70 - 130	16	25
4-Chlorotoluene	ND		14.8	13.1		ug/Kg		89	65 - 135	14	25
1,4-Dichlorobenzene	ND		14.8	12.1		ug/Kg		82	70 - 130	12	25
1,3-Dichloropropane	ND		14.8	13.8		ug/Kg		94	65 - 140	1	25
Benzene	ND		14.8	14.3		ug/Kg		97	65 - 130	3	20
1,1-Dichloropropene	ND		14.8	13.0		ug/Kg		88	65 - 135	4	20
Bromobenzene	ND		14.8	13.8		ug/Kg		94	65 - 140	11	25
1,2-Dibromo-3-Chloropropane	ND		14.8	11.1		ug/Kg		75	40 - 150	12	30
Bromoform	ND		14.8	11.5		ug/Kg		78	50 - 145	1	30
Bromomethane	ND		14.8	15.4		ug/Kg		104	60 - 155	6	25
Carbon disulfide	ND		14.8	13.0		ug/Kg		88	40 - 140	8	20
Carbon tetrachloride	ND		14.8	12.0		ug/Kg		81	60 - 145	5	25
1,1-Dichloroethane	ND		14.8	14.0		ug/Kg		95	65 - 135	1	25
Chlorobenzene	ND		14.8	13.6		ug/Kg		92	70 - 130	6	25
1,2-Dichloroethane	ND		14.8	13.5		ug/Kg		91	60 - 150	1	25
Chlorobromomethane	ND		14.8	15.1		ug/Kg		102	65 - 145	4	25
1,1-Dichloroethene	ND		14.8	14.2		ug/Kg		96	65 - 135	7	25
Chloroethane	ND		14.8	14.3		ug/Kg		97	60 - 150	7	25
Chloroform	ND		14.8	14.7		ug/Kg		100	65 - 135	6	20
Chloromethane	ND		14.8	13.7		ug/Kg		93	40 - 145	6	25
1,2-Dichloropropane	ND		14.8	14.5		ug/Kg		98	65 - 130	3	20
cis-1,2-Dichloroethene	ND		14.8	14.4		ug/Kg		98	65 - 135	1	25
cis-1,3-Dichloropropene	ND		14.8	13.4		ug/Kg		91	70 - 135	2	25
Chlorodibromomethane	ND		14.8	13.2		ug/Kg		90	60 - 145	4	25
Dibromomethane	ND		14.8	14.1		ug/Kg		95	65 - 140	4	25
Dichlorobromomethane	ND		14.8	13.4		ug/Kg		91	65 - 145	4	20
2-Hexanone	ND		14.8	12.8		ug/Kg		87	35 - 160	2	40
Dichlorodifluoromethane	ND		14.8	12.5		ug/Kg		85	30 - 160	6	35
Ethylbenzene	ND		14.8	12.8		ug/Kg		86	70 - 135	4	25
4-Isopropyltoluene	ND		14.8	12.7		ug/Kg		86	60 - 140	11	25
Hexachlorobutadiene	ND		14.8	9.79		ug/Kg		66	50 - 145	17	35
Isopropylbenzene	ND		14.8	12.7		ug/Kg		86	70 - 145	9	25
Methylene Chloride	ND		14.8	12.7		ug/Kg		86	55 - 145	6	25
Methyl tert-butyl ether	ND		14.8	14.4		ug/Kg		98	55 - 155	2	35
Naphthalene	ND		14.8	10.8		ug/Kg		73	40 - 150	12	40
1,1,1,2-Tetrachloroethane	ND		14.8	13.6		ug/Kg		92	65 - 145	4	20
n-Butylbenzene	ND		14.8	11.6		ug/Kg		79	55 - 145	12	30
1,1,2,2-Tetrachloroethane	ND		14.8	13.9		ug/Kg		94	40 - 160	2	30
N-Propylbenzene	ND		14.8	12.7		ug/Kg		86	65 - 140	9	25
sec-Butylbenzene	ND		14.8	12.5		ug/Kg		85	60 - 135	10	25
1,2,3-Trichlorobenzene	ND		14.8	10.0		ug/Kg		68	45 - 145	24	30
Styrene	ND		14.8	12.1		ug/Kg		82	70 - 140	8	25
1,2,4-Trichlorobenzene	ND		14.8	10.1		ug/Kg		68	50 - 140	24	30
tert-Butylbenzene	ND		14.8	13.4		ug/Kg		91	60 - 140	8	25
1,1,1-Trichloroethane	ND		14.8	13.3		ug/Kg		90	65 - 145	4	20
Tetrachloroethene	ND		14.8	12.6		ug/Kg		85	65 - 135	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91089-A-9-A MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526931 **Prep Batch: 526365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		14.8	14.3		ug/Kg		97	65 - 140	1	30
Toluene	ND		14.8	13.2		ug/Kg		89	70 - 130	2	20
trans-1,2-Dichloroethene	ND		14.8	14.4		ug/Kg		98	70 - 135	8	25
1,2,3-Trichloropropane	ND		14.8	15.5		ug/Kg		105	50 - 150	0	30
trans-1,3-Dichloropropene	ND		14.8	12.2		ug/Kg		83	60 - 145	2	25
Trichloroethene	ND		14.8	14.2		ug/Kg		96	65 - 140	8	25
1,2,4-Trimethylbenzene	ND		14.8	13.2		ug/Kg		90	65 - 140	10	25
Trichlorofluoromethane	ND		14.8	13.4		ug/Kg		91	55 - 155	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14.8	13.0		ug/Kg		88	60 - 140	1	40
1,3,5-Trimethylbenzene	ND		14.8	13.2		ug/Kg		90	65 - 135	9	25
Vinyl acetate	ND	F2 F1	14.8	4.46	J F2 F1	ug/Kg		30	40 - 150	32	30
Vinyl chloride	ND		14.8	14.2		ug/Kg		96	55 - 140	5	30
m-Xylene & p-Xylene	ND		14.8	13.2		ug/Kg		89	70 - 130	5	25
Ethylene Dibromide	ND		14.8	13.9		ug/Kg		94	65 - 140	1	25
o-Xylene	ND		14.8	13.8		ug/Kg		93	65 - 130	7	25
2-Butanone (MEK)	ND		14.8	13.9		ug/Kg		94	25 - 170	9	40
4-Methyl-2-pentanone (MIBK)	ND		14.8	11.8		ug/Kg		80	40 - 155	8	40
2,2-Dichloropropane	ND		14.8	12.8		ug/Kg		87	65 - 150	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-91089-A-9-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526931 **Prep Batch: 526365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		14.7	12.0		ug/Kg		82	60 - 135
1,2-Dichlorobenzene	ND		14.7	11.0		ug/Kg		75	70 - 130
1,3-Dichlorobenzene	ND		14.7	11.0		ug/Kg		75	70 - 130
4-Chlorotoluene	ND		14.7	11.4		ug/Kg		78	65 - 135
1,4-Dichlorobenzene	ND		14.7	10.7		ug/Kg		73	70 - 130
1,3-Dichloropropane	ND		14.7	14.0		ug/Kg		95	65 - 140
Benzene	ND		14.7	13.9		ug/Kg		95	65 - 130
1,1-Dichloropropene	ND		14.7	12.4		ug/Kg		85	65 - 135
Bromobenzene	ND		14.7	12.4		ug/Kg		85	65 - 140
1,2-Dibromo-3-Chloropropane	ND		14.7	12.5		ug/Kg		85	40 - 150
Bromoform	ND		14.7	11.4		ug/Kg		78	50 - 145
Bromomethane	ND		14.7	14.6		ug/Kg		100	60 - 155
Carbon disulfide	ND		14.7	12.0		ug/Kg		82	40 - 140
Carbon tetrachloride	ND		14.7	11.5		ug/Kg		78	60 - 145
1,1-Dichloroethane	ND		14.7	13.8		ug/Kg		94	65 - 135
Chlorobenzene	ND		14.7	12.7		ug/Kg		87	70 - 130
1,2-Dichloroethane	ND		14.7	13.3		ug/Kg		91	60 - 150
Chlorobromomethane	ND		14.7	14.6		ug/Kg		99	65 - 145
1,1-Dichloroethene	ND		14.7	13.3		ug/Kg		91	65 - 135
Chloroethane	ND		14.7	13.4		ug/Kg		91	60 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91089-A-9-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526931 **Prep Batch: 526365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	ND		14.7	13.9		ug/Kg		95	65 - 135
Chloromethane	ND		14.7	13.0		ug/Kg		88	40 - 145
1,2-Dichloropropane	ND		14.7	14.1		ug/Kg		96	65 - 130
cis-1,2-Dichloroethene	ND		14.7	14.3		ug/Kg		97	65 - 135
cis-1,3-Dichloropropene	ND		14.7	13.1		ug/Kg		89	70 - 135
Chlorodibromomethane	ND		14.7	12.7		ug/Kg		86	60 - 145
Dibromomethane	ND		14.7	13.6		ug/Kg		93	65 - 140
Dichlorobromomethane	ND		14.7	12.9		ug/Kg		88	65 - 145
2-Hexanone	ND		14.7	13.1		ug/Kg		89	35 - 160
Dichlorodifluoromethane	ND		14.7	11.8		ug/Kg		81	30 - 160
Ethylbenzene	ND		14.7	12.2		ug/Kg		83	70 - 135
4-Isopropyltoluene	ND		14.7	11.4		ug/Kg		78	60 - 140
Hexachlorobutadiene	ND		14.7	8.22		ug/Kg		56	50 - 145
Isopropylbenzene	ND		14.7	11.6		ug/Kg		79	70 - 145
Methylene Chloride	ND		14.7	12.0		ug/Kg		82	55 - 145
Methyl tert-butyl ether	ND		14.7	14.1		ug/Kg		96	55 - 155
Naphthalene	ND		14.7	9.56		ug/Kg		65	40 - 150
1,1,1,2-Tetrachloroethane	ND		14.7	13.1		ug/Kg		89	65 - 145
n-Butylbenzene	ND		14.7	10.3		ug/Kg		70	55 - 145
1,1,2,2-Tetrachloroethane	ND		14.7	14.1		ug/Kg		96	40 - 160
N-Propylbenzene	ND		14.7	11.6		ug/Kg		79	65 - 140
sec-Butylbenzene	ND		14.7	11.3		ug/Kg		77	60 - 135
1,2,3-Trichlorobenzene	ND		14.7	7.86		ug/Kg		54	45 - 145
Styrene	ND		14.7	11.1		ug/Kg		76	70 - 140
1,2,4-Trichlorobenzene	ND		14.7	7.98		ug/Kg		54	50 - 140
tert-Butylbenzene	ND		14.7	12.3		ug/Kg		84	60 - 140
1,1,1-Trichloroethane	ND		14.7	12.8		ug/Kg		87	65 - 145
Tetrachloroethene	ND		14.7	12.4		ug/Kg		84	65 - 135
1,1,2-Trichloroethane	ND		14.7	14.5		ug/Kg		99	65 - 140
Toluene	ND		14.7	13.0		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	ND		14.7	13.4		ug/Kg		91	70 - 135
1,2,3-Trichloropropane	ND		14.7	15.4		ug/Kg		105	50 - 150
trans-1,3-Dichloropropene	ND		14.7	12.0		ug/Kg		82	60 - 145
Trichloroethene	ND		14.7	13.1		ug/Kg		89	65 - 140
1,2,4-Trimethylbenzene	ND		14.7	12.0		ug/Kg		82	65 - 140
Trichlorofluoromethane	ND		14.7	13.2		ug/Kg		90	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14.7	12.9		ug/Kg		88	60 - 140
1,3,5-Trimethylbenzene	ND		14.7	12.1		ug/Kg		82	65 - 135
Vinyl acetate	ND	F2 F1	14.7	3.22	J F1	ug/Kg		22	40 - 150
Vinyl chloride	ND		14.7	13.4		ug/Kg		92	55 - 140
m-Xylene & p-Xylene	ND		14.7	12.6		ug/Kg		86	70 - 130
Ethylene Dibromide	ND		14.7	14.1		ug/Kg		96	65 - 140
o-Xylene	ND		14.7	12.9		ug/Kg		88	65 - 130
2-Butanone (MEK)	ND		14.7	12.7		ug/Kg		87	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		14.7	12.8		ug/Kg		87	40 - 155
2,2-Dichloropropane	ND		14.7	12.1		ug/Kg		82	65 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91089-A-9-B MS
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526365

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: MB 440-526749/5
Matrix: Solid
Analysis Batch: 526749

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Benzene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/05/19 09:36	1
Bromoform	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/05/19 09:36	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/05/19 09:36	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Chloroform	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
2-Hexanone	ND		10	5.0	ug/Kg			02/05/19 09:36	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/05/19 09:36	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526749/5
Matrix: Solid
Analysis Batch: 526749

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Styrene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/05/19 09:36	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Toluene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/05/19 09:36	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/05/19 09:36	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/05/19 09:36	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/05/19 09:36	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/05/19 09:36	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/05/19 09:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/05/19 09:36	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/05/19 09:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/05/19 09:36*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/05/19 09:36*	*1*

Lab Sample ID: LCS 440-526749/6
Matrix: Solid
Analysis Batch: 526749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	18.4		ug/Kg		92	70 - 125
1,2-Dichlorobenzene	20.0	17.9		ug/Kg		90	75 - 120
1,3-Dichlorobenzene	20.0	17.8		ug/Kg		89	75 - 125
4-Chlorotoluene	20.0	18.5		ug/Kg		92	75 - 125
1,4-Dichlorobenzene	20.0	17.5		ug/Kg		88	75 - 120
1,3-Dichloropropane	20.0	18.8		ug/Kg		94	70 - 125
Benzene	20.0	18.7		ug/Kg		94	65 - 120
1,1-Dichloropropene	20.0	18.6		ug/Kg		93	70 - 130
Bromobenzene	20.0	18.8		ug/Kg		94	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	17.3		ug/Kg		86	50 - 135
Bromoform	20.0	18.8		ug/Kg		94	55 - 135
Bromomethane	20.0	19.1		ug/Kg		95	60 - 145
Carbon disulfide	20.0	18.2		ug/Kg		91	50 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526749/6
Matrix: Solid
Analysis Batch: 526749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	20.0	17.8		ug/Kg		89	65 - 140
1,1-Dichloroethane	20.0	18.5		ug/Kg		93	70 - 130
Chlorobenzene	20.0	18.2		ug/Kg		91	75 - 120
1,2-Dichloroethane	20.0	17.1		ug/Kg		86	60 - 140
Chlorobromomethane	20.0	19.3		ug/Kg		96	70 - 135
1,1-Dichloroethene	20.0	18.8		ug/Kg		94	70 - 125
Chloroethane	20.0	18.5		ug/Kg		92	60 - 140
Chloroform	20.0	18.3		ug/Kg		91	70 - 130
Chloromethane	20.0	17.4		ug/Kg		87	45 - 145
1,2-Dichloropropane	20.0	19.6		ug/Kg		98	70 - 130
cis-1,2-Dichloroethene	20.0	18.7		ug/Kg		94	70 - 125
cis-1,3-Dichloropropene	20.0	18.8		ug/Kg		94	75 - 125
Chlorodibromomethane	20.0	18.5		ug/Kg		92	65 - 140
Dibromomethane	20.0	18.6		ug/Kg		93	70 - 130
Dichlorobromomethane	20.0	18.6		ug/Kg		93	70 - 135
2-Hexanone	20.0	17.4		ug/Kg		87	40 - 150
Dichlorodifluoromethane	20.0	17.4		ug/Kg		87	35 - 160
Ethylbenzene	20.0	18.0		ug/Kg		90	70 - 125
4-Isopropyltoluene	20.0	18.8		ug/Kg		94	75 - 125
Hexachlorobutadiene	20.0	17.5		ug/Kg		87	60 - 135
Isopropylbenzene	20.0	18.5		ug/Kg		92	75 - 130
Methylene Chloride	20.0	15.7		ug/Kg		78	55 - 135
Methyl tert-butyl ether	20.0	18.3		ug/Kg		92	60 - 140
Naphthalene	20.0	16.9		ug/Kg		85	55 - 135
1,1,1,2-Tetrachloroethane	20.0	18.2		ug/Kg		91	70 - 130
n-Butylbenzene	20.0	18.2		ug/Kg		91	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/Kg		98	55 - 140
N-Propylbenzene	20.0	18.8		ug/Kg		94	70 - 130
sec-Butylbenzene	20.0	18.8		ug/Kg		94	70 - 125
1,2,3-Trichlorobenzene	20.0	17.8		ug/Kg		89	60 - 130
Styrene	20.0	16.9		ug/Kg		84	75 - 130
1,2,4-Trichlorobenzene	20.0	18.0		ug/Kg		90	70 - 135
tert-Butylbenzene	20.0	18.0		ug/Kg		90	70 - 125
1,1,1-Trichloroethane	20.0	17.8		ug/Kg		89	65 - 135
Tetrachloroethene	20.0	17.8		ug/Kg		89	70 - 125
1,1,2-Trichloroethane	20.0	18.4		ug/Kg		92	65 - 135
Toluene	20.0	18.4		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	20.0	18.5		ug/Kg		93	70 - 125
1,2,3-Trichloropropane	20.0	18.7		ug/Kg		93	60 - 135
trans-1,3-Dichloropropene	20.0	18.1		ug/Kg		90	70 - 135
Trichloroethene	20.0	18.7		ug/Kg		94	70 - 125
1,2,4-Trimethylbenzene	20.0	18.1		ug/Kg		90	70 - 125
Trichlorofluoromethane	20.0	18.8		ug/Kg		94	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9		ug/Kg		94	60 - 140
1,3,5-Trimethylbenzene	20.0	18.4		ug/Kg		92	70 - 125
Vinyl acetate	20.0	19.0		ug/Kg		95	45 - 145
Vinyl chloride	20.0	18.4		ug/Kg		92	55 - 135
m-Xylene & p-Xylene	20.0	17.7		ug/Kg		89	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526749/6
Matrix: Solid
Analysis Batch: 526749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	20.0	18.3		ug/Kg		92	70 - 130
o-Xylene	20.0	18.1		ug/Kg		90	70 - 125
2-Butanone (MEK)	20.0	18.0		ug/Kg		90	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	17.3		ug/Kg		87	40 - 145
2,2-Dichloropropane	20.0	18.0		ug/Kg		90	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-526749/9
Matrix: Solid
Analysis Batch: 526749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	20.0	22.6	*	ug/Kg		113	70 - 125	21	20
1,2-Dichlorobenzene	20.0	21.5		ug/Kg		108	75 - 120	18	20
1,3-Dichlorobenzene	20.0	21.5		ug/Kg		107	75 - 125	19	20
4-Chlorotoluene	20.0	22.8	*	ug/Kg		114	75 - 125	21	20
1,4-Dichlorobenzene	20.0	21.1		ug/Kg		105	75 - 120	18	20
1,3-Dichloropropane	20.0	21.4		ug/Kg		107	70 - 125	13	20
Benzene	20.0	21.9		ug/Kg		110	65 - 120	16	20
1,1-Dichloropropene	20.0	22.7		ug/Kg		114	70 - 130	20	20
Bromobenzene	20.0	22.8		ug/Kg		114	75 - 120	19	20
1,2-Dibromo-3-Chloropropane	20.0	19.9		ug/Kg		99	50 - 135	14	30
Bromoform	20.0	20.4		ug/Kg		102	55 - 135	8	25
Bromomethane	20.0	21.1		ug/Kg		105	60 - 145	10	20
Carbon disulfide	20.0	21.9		ug/Kg		110	50 - 130	18	20
Carbon tetrachloride	20.0	21.9	*	ug/Kg		110	65 - 140	21	20
1,1-Dichloroethane	20.0	21.7		ug/Kg		108	70 - 130	16	20
Chlorobenzene	20.0	21.6		ug/Kg		108	75 - 120	17	20
1,2-Dichloroethane	20.0	19.7		ug/Kg		99	60 - 140	14	20
Chlorobromomethane	20.0	22.4		ug/Kg		112	70 - 135	15	20
1,1-Dichloroethene	20.0	22.6		ug/Kg		113	70 - 125	18	20
Chloroethane	20.0	21.6		ug/Kg		108	60 - 140	15	25
Chloroform	20.0	21.2		ug/Kg		106	70 - 130	15	20
Chloromethane	20.0	18.9		ug/Kg		95	45 - 145	8	25
1,2-Dichloropropane	20.0	22.8		ug/Kg		114	70 - 130	15	20
cis-1,2-Dichloroethene	20.0	21.7		ug/Kg		109	70 - 125	15	20
cis-1,3-Dichloropropene	20.0	22.0		ug/Kg		110	75 - 125	16	20
Chlorodibromomethane	20.0	21.0		ug/Kg		105	65 - 140	13	20
Dibromomethane	20.0	21.2		ug/Kg		106	70 - 130	13	20
Dichlorobromomethane	20.0	21.4		ug/Kg		107	70 - 135	14	20
2-Hexanone	20.0	18.5		ug/Kg		92	40 - 150	6	35
Dichlorodifluoromethane	20.0	19.6		ug/Kg		98	35 - 160	12	30
Ethylbenzene	20.0	21.9		ug/Kg		109	70 - 125	19	20
4-Isopropyltoluene	20.0	23.8	*	ug/Kg		119	75 - 125	24	20
Hexachlorobutadiene	20.0	21.7	*	ug/Kg		109	60 - 135	22	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526749/9
Matrix: Solid
Analysis Batch: 526749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	20.0	22.4		ug/Kg		112	75 - 130	19	20
Methylene Chloride	20.0	18.6		ug/Kg		93	55 - 135	17	20
Methyl tert-butyl ether	20.0	20.4		ug/Kg		102	60 - 140	10	25
Naphthalene	20.0	19.2		ug/Kg		96	55 - 135	13	25
1,1,1,2-Tetrachloroethane	20.0	21.3		ug/Kg		107	70 - 130	16	20
n-Butylbenzene	20.0	23.1	*	ug/Kg		116	70 - 130	24	20
1,1,2,2-Tetrachloroethane	20.0	22.2		ug/Kg		111	55 - 140	13	30
N-Propylbenzene	20.0	23.7	*	ug/Kg		118	70 - 130	23	20
sec-Butylbenzene	20.0	23.8	*	ug/Kg		119	70 - 125	23	20
1,2,3-Trichlorobenzene	20.0	20.7		ug/Kg		104	60 - 130	15	20
Styrene	20.0	20.0		ug/Kg		100	75 - 130	17	20
1,2,4-Trichlorobenzene	20.0	22.5	*	ug/Kg		112	70 - 135	22	20
tert-Butylbenzene	20.0	22.8	*	ug/Kg		114	70 - 125	24	20
1,1,1-Trichloroethane	20.0	21.7		ug/Kg		109	65 - 135	20	20
Tetrachloroethene	20.0	21.7		ug/Kg		108	70 - 125	20	20
1,1,2-Trichloroethane	20.0	21.2		ug/Kg		106	65 - 135	14	20
Toluene	20.0	21.8		ug/Kg		109	70 - 125	17	20
trans-1,2-Dichloroethene	20.0	22.4		ug/Kg		112	70 - 125	19	20
1,2,3-Trichloropropane	20.0	20.6		ug/Kg		103	60 - 135	10	25
trans-1,3-Dichloropropene	20.0	21.1		ug/Kg		106	70 - 135	16	20
Trichloroethene	20.0	22.8		ug/Kg		114	70 - 125	20	20
1,2,4-Trimethylbenzene	20.0	22.3	*	ug/Kg		111	70 - 125	21	20
Trichlorofluoromethane	20.0	23.0		ug/Kg		115	60 - 145	20	25
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.8		ug/Kg		114	60 - 140	19	40
1,3,5-Trimethylbenzene	20.0	22.7	*	ug/Kg		113	70 - 125	21	20
Vinyl acetate	20.0	21.1		ug/Kg		106	45 - 145	11	20
Vinyl chloride	20.0	20.7		ug/Kg		103	55 - 135	11	25
m-Xylene & p-Xylene	20.0	21.4		ug/Kg		107	70 - 125	19	20
Ethylene Dibromide	20.0	20.7		ug/Kg		103	70 - 130	12	20
o-Xylene	20.0	21.4		ug/Kg		107	70 - 125	17	20
2-Butanone (MEK)	20.0	19.8		ug/Kg		99	40 - 145	10	35
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/Kg		93	40 - 145	7	35
2,2-Dichloropropane	20.0	22.1	*	ug/Kg		111	60 - 145	21	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-526919/7
Matrix: Solid
Analysis Batch: 526919

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526919/7
Matrix: Solid
Analysis Batch: 526919

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Benzene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/05/19 19:04	1
Bromoform	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/05/19 19:04	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/05/19 19:04	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Chloroform	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
2-Hexanone	ND		10	5.0	ug/Kg			02/05/19 19:04	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/05/19 19:04	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Styrene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/05/19 19:04	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Toluene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/05/19 19:04	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526919/7
Matrix: Solid
Analysis Batch: 526919

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/05/19 19:04	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/05/19 19:04	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/05/19 19:04	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/05/19 19:04	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/05/19 19:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/05/19 19:04	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/05/19 19:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*02/05/19 19:04*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*		*02/05/19 19:04*	*1*

Lab Sample ID: LCS 440-526919/8
Matrix: Solid
Analysis Batch: 526919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	50.0	46.1		ug/Kg		92	70 - 125
1,2-Dichlorobenzene	50.0	52.6		ug/Kg		105	75 - 120
1,3-Dichlorobenzene	50.0	53.2		ug/Kg		106	75 - 125
4-Chlorotoluene	50.0	50.6		ug/Kg		101	75 - 125
1,4-Dichlorobenzene	50.0	50.7		ug/Kg		101	75 - 120
1,3-Dichloropropane	50.0	51.5		ug/Kg		103	70 - 125
Benzene	50.0	52.8		ug/Kg		106	65 - 120
1,1-Dichloropropene	50.0	53.3		ug/Kg		107	70 - 130
Bromobenzene	50.0	51.9		ug/Kg		104	75 - 120
1,2-Dibromo-3-Chloropropane	50.0	60.4		ug/Kg		121	50 - 135
Bromoform	50.0	56.5		ug/Kg		113	55 - 135
Bromomethane	50.0	50.0		ug/Kg		100	60 - 145
Carbon disulfide	50.0	46.9		ug/Kg		94	50 - 130
Carbon tetrachloride	50.0	51.6		ug/Kg		103	65 - 140
1,1-Dichloroethane	50.0	53.8		ug/Kg		108	70 - 130
Chlorobenzene	50.0	49.7		ug/Kg		99	75 - 120
1,2-Dichloroethane	50.0	61.3		ug/Kg		123	60 - 140
Chlorobromomethane	50.0	55.7		ug/Kg		111	70 - 135
1,1-Dichloroethene	50.0	50.1		ug/Kg		100	70 - 125
Chloroethane	50.0	49.0		ug/Kg		98	60 - 140
Chloroform	50.0	48.5		ug/Kg		97	70 - 130
Chloromethane	50.0	42.7		ug/Kg		85	45 - 145
1,2-Dichloropropane	50.0	56.5		ug/Kg		113	70 - 130
cis-1,2-Dichloroethene	50.0	54.5		ug/Kg		109	70 - 125
cis-1,3-Dichloropropene	50.0	56.5		ug/Kg		113	75 - 125
Chlorodibromomethane	50.0	56.8		ug/Kg		114	65 - 140
Dibromomethane	50.0	53.7		ug/Kg		107	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526919/8
Matrix: Solid
Analysis Batch: 526919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	50.0	56.8		ug/Kg		114	70 - 135
2-Hexanone	50.0	54.9		ug/Kg		110	40 - 150
Dichlorodifluoromethane	50.0	42.3		ug/Kg		85	35 - 160
Ethylbenzene	50.0	48.1		ug/Kg		96	70 - 125
4-Isopropyltoluene	50.0	52.3		ug/Kg		105	75 - 125
Hexachlorobutadiene	50.0	55.1		ug/Kg		110	60 - 135
Isopropylbenzene	50.0	50.4		ug/Kg		101	75 - 130
Methylene Chloride	50.0	46.7		ug/Kg		93	55 - 135
Methyl tert-butyl ether	50.0	57.3		ug/Kg		115	60 - 140
Naphthalene	50.0	56.0		ug/Kg		112	55 - 135
1,1,1,2-Tetrachloroethane	50.0	53.1		ug/Kg		106	70 - 130
n-Butylbenzene	50.0	53.6		ug/Kg		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/Kg		106	55 - 140
N-Propylbenzene	50.0	50.6		ug/Kg		101	70 - 130
sec-Butylbenzene	50.0	49.9		ug/Kg		100	70 - 125
1,2,3-Trichlorobenzene	50.0	59.9		ug/Kg		120	60 - 130
Styrene	50.0	50.9		ug/Kg		102	75 - 130
1,2,4-Trichlorobenzene	50.0	54.0		ug/Kg		108	70 - 135
tert-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 125
1,1,1-Trichloroethane	50.0	53.0		ug/Kg		106	65 - 135
Tetrachloroethene	50.0	51.6		ug/Kg		103	70 - 125
1,1,2-Trichloroethane	50.0	56.2		ug/Kg		112	65 - 135
Toluene	50.0	49.0		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	70 - 125
1,2,3-Trichloropropane	50.0	51.4		ug/Kg		103	60 - 135
trans-1,3-Dichloropropene	50.0	58.1		ug/Kg		116	70 - 135
Trichloroethene	50.0	52.6		ug/Kg		105	70 - 125
1,2,4-Trimethylbenzene	50.0	51.9		ug/Kg		104	70 - 125
Trichlorofluoromethane	50.0	50.0		ug/Kg		100	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.2		ug/Kg		94	60 - 140
1,3,5-Trimethylbenzene	50.0	51.1		ug/Kg		102	70 - 125
Vinyl acetate	50.0	63.4		ug/Kg		127	45 - 145
Vinyl chloride	50.0	42.6		ug/Kg		85	55 - 135
m-Xylene & p-Xylene	50.0	51.8		ug/Kg		104	70 - 125
Ethylene Dibromide	50.0	54.8		ug/Kg		110	70 - 130
o-Xylene	50.0	51.4		ug/Kg		103	70 - 125
2-Butanone (MEK)	50.0	54.2		ug/Kg		108	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	54.5		ug/Kg		109	40 - 145
2,2-Dichloropropane	50.0	53.8		ug/Kg		108	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*96*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231210-A-2 MS
Matrix: Solid
Analysis Batch: 526919

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		48.9	49.4		ug/Kg		101	60 - 135
1,2-Dichlorobenzene	ND		48.9	52.6		ug/Kg		108	70 - 130
1,3-Dichlorobenzene	ND		48.9	53.0		ug/Kg		108	70 - 130
4-Chlorotoluene	ND		48.9	52.5		ug/Kg		107	65 - 135
1,4-Dichlorobenzene	ND		48.9	52.0		ug/Kg		106	70 - 130
1,3-Dichloropropane	ND		48.9	53.8		ug/Kg		110	65 - 140
Benzene	ND		48.9	52.0		ug/Kg		106	65 - 130
1,1-Dichloropropene	ND		48.9	54.1		ug/Kg		111	65 - 135
Bromobenzene	ND		48.9	52.9		ug/Kg		108	65 - 140
1,2-Dibromo-3-Chloropropane	ND		48.9	55.7		ug/Kg		114	40 - 150
Bromoform	ND		48.9	53.4		ug/Kg		109	50 - 145
Bromomethane	ND		48.9	52.2		ug/Kg		107	60 - 155
Carbon disulfide	ND		48.9	48.7		ug/Kg		99	40 - 140
Carbon tetrachloride	ND		48.9	54.3		ug/Kg		111	60 - 145
1,1-Dichloroethane	ND		48.9	54.2		ug/Kg		111	65 - 135
Chlorobenzene	ND		48.9	49.3		ug/Kg		101	70 - 130
1,2-Dichloroethane	ND		48.9	57.7		ug/Kg		118	60 - 150
Chlorobromomethane	ND		48.9	58.6		ug/Kg		120	65 - 145
1,1-Dichloroethene	ND		48.9	50.6		ug/Kg		103	65 - 135
Chloroethane	ND		48.9	53.6		ug/Kg		110	60 - 150
Chloroform	ND		48.9	47.2		ug/Kg		97	65 - 135
Chloromethane	ND		48.9	45.6		ug/Kg		93	40 - 145
1,2-Dichloropropane	ND		48.9	55.2		ug/Kg		113	65 - 130
cis-1,2-Dichloroethene	ND		48.9	55.9		ug/Kg		114	65 - 135
cis-1,3-Dichloropropene	ND		48.9	57.7		ug/Kg		118	70 - 135
Chlorodibromomethane	ND		48.9	56.3		ug/Kg		115	60 - 145
Dibromomethane	ND		48.9	53.2		ug/Kg		109	65 - 140
Dichlorobromomethane	ND		48.9	57.3		ug/Kg		117	65 - 145
2-Hexanone	ND		48.9	51.5		ug/Kg		105	35 - 160
Dichlorodifluoromethane	ND		48.9	47.7		ug/Kg		98	30 - 160
Ethylbenzene	ND		48.9	49.4		ug/Kg		101	70 - 135
4-Isopropyltoluene	ND		48.9	51.2		ug/Kg		105	60 - 140
Hexachlorobutadiene	ND		48.9	39.9		ug/Kg		82	50 - 145
Isopropylbenzene	ND		48.9	50.6		ug/Kg		103	70 - 145
Methylene Chloride	ND		48.9	47.0		ug/Kg		96	55 - 145
Methyl tert-butyl ether	ND		48.9	64.9		ug/Kg		133	55 - 155
Naphthalene	ND		48.9	49.7		ug/Kg		102	40 - 150
1,1,1,2-Tetrachloroethane	ND		48.9	53.0		ug/Kg		108	65 - 145
n-Butylbenzene	ND		48.9	50.7		ug/Kg		104	55 - 145
1,1,2,2-Tetrachloroethane	ND		48.9	55.2		ug/Kg		113	40 - 160
N-Propylbenzene	ND		48.9	52.5		ug/Kg		107	65 - 140
sec-Butylbenzene	ND		48.9	49.7		ug/Kg		102	60 - 135
1,2,3-Trichlorobenzene	ND		48.9	46.3		ug/Kg		95	45 - 145
Styrene	ND		48.9	50.3		ug/Kg		103	70 - 140
1,2,4-Trichlorobenzene	ND		48.9	45.2		ug/Kg		92	50 - 140
tert-Butylbenzene	ND		48.9	51.5		ug/Kg		105	60 - 140
1,1,1-Trichloroethane	ND		48.9	56.4		ug/Kg		115	65 - 145
Tetrachloroethene	ND		48.9	50.7		ug/Kg		104	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231210-A-2 MS
Matrix: Solid
Analysis Batch: 526919

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	ND		48.9	57.3		ug/Kg		117	65 - 140
Toluene	ND		48.9	51.5		ug/Kg		105	70 - 130
trans-1,2-Dichloroethene	ND		48.9	55.9		ug/Kg		114	70 - 135
1,2,3-Trichloropropane	ND		48.9	53.3		ug/Kg		109	50 - 150
trans-1,3-Dichloropropene	ND		48.9	58.2		ug/Kg		119	60 - 145
Trichloroethene	ND		48.9	52.4		ug/Kg		107	65 - 140
1,2,4-Trimethylbenzene	ND		48.9	53.8		ug/Kg		110	65 - 140
Trichlorofluoromethane	ND		48.9	53.9		ug/Kg		110	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.9	50.1		ug/Kg		102	60 - 140
1,3,5-Trimethylbenzene	ND		48.9	53.1		ug/Kg		108	65 - 135
Vinyl acetate	ND	F2 F1	48.9	19.3	F1	ug/Kg		39	40 - 150
Vinyl chloride	ND		48.9	49.6		ug/Kg		101	55 - 140
m-Xylene & p-Xylene	ND		48.9	52.0		ug/Kg		106	70 - 130
Ethylene Dibromide	ND		48.9	52.7		ug/Kg		108	65 - 140
o-Xylene	ND		48.9	52.1		ug/Kg		107	65 - 130
2-Butanone (MEK)	ND		48.9	51.7		ug/Kg		106	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		48.9	51.8		ug/Kg		106	40 - 155
2,2-Dichloropropane	ND		48.9	60.5		ug/Kg		124	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 440-231210-A-2 MSD
Matrix: Solid
Analysis Batch: 526919

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		48.6	47.5		ug/Kg		98	60 - 135	4	25
1,2-Dichlorobenzene	ND		48.6	51.7		ug/Kg		106	70 - 130	2	25
1,3-Dichlorobenzene	ND		48.6	52.7		ug/Kg		108	70 - 130	1	25
4-Chlorotoluene	ND		48.6	51.1		ug/Kg		105	65 - 135	3	25
1,4-Dichlorobenzene	ND		48.6	51.3		ug/Kg		105	70 - 130	1	25
1,3-Dichloropropane	ND		48.6	55.5		ug/Kg		114	65 - 140	3	25
Benzene	ND		48.6	51.8		ug/Kg		106	65 - 130	0	20
1,1-Dichloropropene	ND		48.6	51.5		ug/Kg		106	65 - 135	5	20
Bromobenzene	ND		48.6	53.7		ug/Kg		110	65 - 140	2	25
1,2-Dibromo-3-Chloropropane	ND		48.6	52.5		ug/Kg		108	40 - 150	6	30
Bromoform	ND		48.6	55.7		ug/Kg		115	50 - 145	4	30
Bromomethane	ND		48.6	48.7		ug/Kg		100	60 - 155	7	25
Carbon disulfide	ND		48.6	47.0		ug/Kg		97	40 - 140	3	20
Carbon tetrachloride	ND		48.6	51.6		ug/Kg		106	60 - 145	5	25
1,1-Dichloroethane	ND		48.6	53.1		ug/Kg		109	65 - 135	2	25
Chlorobenzene	ND		48.6	48.7		ug/Kg		100	70 - 130	1	25
1,2-Dichloroethane	ND		48.6	59.2		ug/Kg		122	60 - 150	3	25
Chlorobromomethane	ND		48.6	56.6		ug/Kg		116	65 - 145	4	25
1,1-Dichloroethene	ND		48.6	49.5		ug/Kg		102	65 - 135	2	25
Chloroethane	ND		48.6	51.7		ug/Kg		106	60 - 150	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231210-A-2 MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526919

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		48.6	47.7		ug/Kg		98	65 - 135	1	20
Chloromethane	ND		48.6	41.9		ug/Kg		86	40 - 145	9	25
1,2-Dichloropropane	ND		48.6	56.7		ug/Kg		117	65 - 130	3	20
cis-1,2-Dichloroethene	ND		48.6	53.4		ug/Kg		110	65 - 135	4	25
cis-1,3-Dichloropropene	ND		48.6	57.6		ug/Kg		118	70 - 135	0	25
Chlorodibromomethane	ND		48.6	56.6		ug/Kg		116	60 - 145	1	25
Dibromomethane	ND		48.6	52.5		ug/Kg		108	65 - 140	1	25
Dichlorobromomethane	ND		48.6	54.7		ug/Kg		112	65 - 145	5	20
2-Hexanone	ND		48.6	54.0		ug/Kg		111	35 - 160	5	40
Dichlorodifluoromethane	ND		48.6	43.4		ug/Kg		89	30 - 160	9	35
Ethylbenzene	ND		48.6	48.3		ug/Kg		99	70 - 135	2	25
4-Isopropyltoluene	ND		48.6	50.4		ug/Kg		104	60 - 140	2	25
Hexachlorobutadiene	ND		48.6	41.6		ug/Kg		86	50 - 145	4	35
Isopropylbenzene	ND		48.6	49.9		ug/Kg		103	70 - 145	1	25
Methylene Chloride	ND		48.6	48.1		ug/Kg		99	55 - 145	2	25
Methyl tert-butyl ether	ND		48.6	67.8		ug/Kg		139	55 - 155	4	35
Naphthalene	ND		48.6	49.1		ug/Kg		101	40 - 150	1	40
1,1,1,2-Tetrachloroethane	ND		48.6	52.4		ug/Kg		108	65 - 145	1	20
n-Butylbenzene	ND		48.6	50.4		ug/Kg		104	55 - 145	1	30
1,1,2,2-Tetrachloroethane	ND		48.6	53.4		ug/Kg		110	40 - 160	3	30
N-Propylbenzene	ND		48.6	50.9		ug/Kg		105	65 - 140	3	25
sec-Butylbenzene	ND		48.6	48.3		ug/Kg		99	60 - 135	3	25
1,2,3-Trichlorobenzene	ND		48.6	48.6		ug/Kg		100	45 - 145	5	30
Styrene	ND		48.6	50.5		ug/Kg		104	70 - 140	0	25
1,2,4-Trichlorobenzene	ND		48.6	45.5		ug/Kg		94	50 - 140	1	30
tert-Butylbenzene	ND		48.6	49.9		ug/Kg		103	60 - 140	3	25
1,1,1-Trichloroethane	ND		48.6	53.0		ug/Kg		109	65 - 145	6	20
Tetrachloroethene	ND		48.6	50.9		ug/Kg		105	65 - 135	0	25
1,1,2-Trichloroethane	ND		48.6	59.6		ug/Kg		122	65 - 140	4	30
Toluene	ND		48.6	49.5		ug/Kg		102	70 - 130	4	20
trans-1,2-Dichloroethene	ND		48.6	54.4		ug/Kg		112	70 - 135	3	25
1,2,3-Trichloropropane	ND		48.6	51.6		ug/Kg		106	50 - 150	3	30
trans-1,3-Dichloropropene	ND		48.6	59.4		ug/Kg		122	60 - 145	2	25
Trichloroethene	ND		48.6	51.1		ug/Kg		105	65 - 140	2	25
1,2,4-Trimethylbenzene	ND		48.6	52.0		ug/Kg		107	65 - 140	3	25
Trichlorofluoromethane	ND		48.6	50.2		ug/Kg		103	55 - 155	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.6	47.9		ug/Kg		99	60 - 140	5	40
1,3,5-Trimethylbenzene	ND		48.6	50.9		ug/Kg		105	65 - 135	4	25
Vinyl acetate	ND	F2 F1	48.6	7.13	J F2 F1	ug/Kg		15	40 - 150	92	30
Vinyl chloride	ND		48.6	46.6		ug/Kg		96	55 - 140	6	30
m-Xylene & p-Xylene	ND		48.6	53.3		ug/Kg		110	70 - 130	2	25
Ethylene Dibromide	ND		48.6	55.0		ug/Kg		113	65 - 140	4	25
o-Xylene	ND		48.6	51.3		ug/Kg		105	65 - 130	2	25
2-Butanone (MEK)	ND		48.6	46.7		ug/Kg		96	25 - 170	10	40
4-Methyl-2-pentanone (MIBK)	ND		48.6	52.4		ug/Kg		108	40 - 155	1	40
2,2-Dichloropropane	ND		48.6	57.0		ug/Kg		117	65 - 150	6	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231210-A-2 MSD
Matrix: Solid
Analysis Batch: 526919

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: MB 440-526931/4
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Benzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/05/19 19:25	1
Bromoform	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/05/19 19:25	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/05/19 19:25	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Chloroform	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
2-Hexanone	ND		10	5.0	ug/Kg			02/05/19 19:25	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/05/19 19:25	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526931/4
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Styrene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/05/19 19:25	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Toluene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/05/19 19:25	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/05/19 19:25	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/05/19 19:25	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/05/19 19:25	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/05/19 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/05/19 19:25	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/05/19 19:25*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*		*02/05/19 19:25*	*1*

Lab Sample ID: LCS 440-526931/27
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	10.0	10.3		ug/Kg		103	70 - 125
1,2-Dichlorobenzene	10.0	10.7		ug/Kg		107	75 - 120
1,3-Dichlorobenzene	10.0	10.8		ug/Kg		108	75 - 125
4-Chlorotoluene	10.0	10.3		ug/Kg		103	75 - 125
1,4-Dichlorobenzene	10.0	10.5		ug/Kg		105	75 - 120
1,3-Dichloropropane	10.0	10.1		ug/Kg		101	70 - 125
Benzene	10.0	10.2		ug/Kg		102	65 - 120
1,1-Dichloropropene	10.0	10.3		ug/Kg		103	70 - 130
Bromobenzene	10.0	10.6		ug/Kg		106	75 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.82		ug/Kg		88	50 - 135
Bromoform	10.0	8.65		ug/Kg		87	55 - 135
Bromomethane	10.0	10.8		ug/Kg		108	60 - 145
Carbon disulfide	10.0	10.0		ug/Kg		100	50 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526931/27
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	9.10		ug/Kg		91	65 - 140
1,1-Dichloroethane	10.0	9.96		ug/Kg		100	70 - 130
Chlorobenzene	10.0	10.3		ug/Kg		103	75 - 120
1,2-Dichloroethane	10.0	9.68		ug/Kg		97	60 - 140
Chlorobromomethane	10.0	10.6		ug/Kg		106	70 - 135
1,1-Dichloroethene	10.0	10.3		ug/Kg		103	70 - 125
Chloroethane	10.0	10.1		ug/Kg		101	60 - 140
Chloroform	10.0	10.1		ug/Kg		101	70 - 130
Chloromethane	10.0	9.80		ug/Kg		98	45 - 145
1,2-Dichloropropane	10.0	10.3		ug/Kg		103	70 - 130
cis-1,2-Dichloroethene	10.0	10.4		ug/Kg		104	70 - 125
cis-1,3-Dichloropropene	10.0	9.80		ug/Kg		98	75 - 125
Chlorodibromomethane	10.0	9.25		ug/Kg		93	65 - 140
Dibromomethane	10.0	10.5		ug/Kg		105	70 - 130
Dichlorobromomethane	10.0	9.61		ug/Kg		96	70 - 135
2-Hexanone	10.0	9.33		ug/Kg		93	40 - 150
Dichlorodifluoromethane	10.0	9.65		ug/Kg		96	35 - 160
Ethylbenzene	10.0	9.81		ug/Kg		98	70 - 125
4-Isopropyltoluene	10.0	10.7		ug/Kg		107	75 - 125
Hexachlorobutadiene	10.0	10.9		ug/Kg		109	60 - 135
Isopropylbenzene	10.0	9.88		ug/Kg		99	75 - 130
Methylene Chloride	10.0	9.08		ug/Kg		91	55 - 135
Methyl tert-butyl ether	10.0	9.66		ug/Kg		97	60 - 140
Naphthalene	10.0	10.1		ug/Kg		101	55 - 135
1,1,1,2-Tetrachloroethane	10.0	9.28		ug/Kg		93	70 - 130
n-Butylbenzene	10.0	10.7		ug/Kg		107	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/Kg		104	55 - 140
N-Propylbenzene	10.0	10.2		ug/Kg		102	70 - 130
sec-Butylbenzene	10.0	10.5		ug/Kg		105	70 - 125
1,2,3-Trichlorobenzene	10.0	10.3		ug/Kg		103	60 - 130
Styrene	10.0	9.71		ug/Kg		97	75 - 130
1,2,4-Trichlorobenzene	10.0	10.8		ug/Kg		108	70 - 135
tert-Butylbenzene	10.0	10.5		ug/Kg		105	70 - 125
1,1,1-Trichloroethane	10.0	9.69		ug/Kg		97	65 - 135
Tetrachloroethene	10.0	10.3		ug/Kg		103	70 - 125
1,1,2-Trichloroethane	10.0	10.6		ug/Kg		106	65 - 135
Toluene	10.0	9.65		ug/Kg		96	70 - 125
trans-1,2-Dichloroethene	10.0	10.6		ug/Kg		106	70 - 125
1,2,3-Trichloropropane	10.0	11.1		ug/Kg		111	60 - 135
trans-1,3-Dichloropropene	10.0	9.41		ug/Kg		94	70 - 135
Trichloroethene	10.0	10.6		ug/Kg		106	70 - 125
1,2,4-Trimethylbenzene	10.0	10.4		ug/Kg		104	70 - 125
Trichlorofluoromethane	10.0	10.7		ug/Kg		107	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.5		ug/Kg		105	60 - 140
1,3,5-Trimethylbenzene	10.0	10.3		ug/Kg		103	70 - 125
Vinyl acetate	10.0	9.19		ug/Kg		92	45 - 145
Vinyl chloride	10.0	10.6		ug/Kg		106	55 - 135
m-Xylene & p-Xylene	10.0	9.99		ug/Kg		100	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526931/27 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	10.0	10.1		ug/Kg		101	70 - 130
o-Xylene	10.0	10.1		ug/Kg		101	70 - 125
2-Butanone (MEK)	10.0	10.3		ug/Kg		103	40 - 145
4-Methyl-2-pentanone (MIBK)	10.0	8.54		ug/Kg		85	40 - 145
2,2-Dichloropropane	10.0	9.96		ug/Kg		100	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-526986/5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/06/19 08:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/06/19 08:47*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/06/19 08:47*	*1*

Lab Sample ID: LCS 440-526986/6 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/Kg		93	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-526986/13 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526986

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	20.0	18.3		ug/Kg		91	40 - 145	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527268/5
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,2-Dichlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
4-Chlorotoluene	ND		250	50	ug/Kg			02/07/19 08:54	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,3-Dichloropropane	ND		100	50	ug/Kg			02/07/19 08:54	100
Benzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,1-Dichloropropene	ND		100	50	ug/Kg			02/07/19 08:54	100
Bromobenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			02/07/19 08:54	100
Bromoform	ND		250	100	ug/Kg			02/07/19 08:54	100
Bromomethane	ND		250	100	ug/Kg			02/07/19 08:54	100
Carbon disulfide	ND		250	130	ug/Kg			02/07/19 08:54	100
Carbon tetrachloride	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1-Dichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Chlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2-Dichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Chlorobromomethane	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1-Dichloroethene	ND		250	100	ug/Kg			02/07/19 08:54	100
Chloroethane	ND		250	100	ug/Kg			02/07/19 08:54	100
Chloroform	ND		100	50	ug/Kg			02/07/19 08:54	100
Chloromethane	ND		250	100	ug/Kg			02/07/19 08:54	100
1,2-Dichloropropane	ND		100	50	ug/Kg			02/07/19 08:54	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			02/07/19 08:54	100
Chlorodibromomethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Dibromomethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Dichlorobromomethane	ND		100	50	ug/Kg			02/07/19 08:54	100
2-Hexanone	ND		1300	500	ug/Kg			02/07/19 08:54	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			02/07/19 08:54	100
Ethylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
4-Isopropyltoluene	ND		100	50	ug/Kg			02/07/19 08:54	100
Hexachlorobutadiene	ND		250	100	ug/Kg			02/07/19 08:54	100
Isopropylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
Methylene Chloride	ND		1000	500	ug/Kg			02/07/19 08:54	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			02/07/19 08:54	100
Naphthalene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			02/07/19 08:54	100
n-Butylbenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
N-Propylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
sec-Butylbenzene	ND		250	50	ug/Kg			02/07/19 08:54	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
Styrene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
tert-Butylbenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Tetrachloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527268/5
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Toluene	ND		100	50	ug/Kg			02/07/19 08:54	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2,3-Trichloropropane	ND		500	100	ug/Kg			02/07/19 08:54	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			02/07/19 08:54	100
Trichloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
Trichlorofluoromethane	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			02/07/19 08:54	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
Vinyl acetate	ND		500	250	ug/Kg			02/07/19 08:54	100
Vinyl chloride	ND		250	100	ug/Kg			02/07/19 08:54	100
Ethylene Dibromide	ND		100	50	ug/Kg			02/07/19 08:54	100
2-Butanone (MEK)	ND		1000	500	ug/Kg			02/07/19 08:54	100
Xylenes, Total	ND		200	100	ug/Kg			02/07/19 08:54	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			02/07/19 08:54	100
2,2-Dichloropropane	ND		200	100	ug/Kg			02/07/19 08:54	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*02/07/19 08:54*	*100*
Toluene-d8 (Surr)	*97*		*60 - 140*		*02/07/19 08:54*	*100*

Lab Sample ID: LCS 440-527268/6
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	1000	980		ug/Kg		98	70 - 125
1,2-Dichlorobenzene	1000	1010		ug/Kg		101	70 - 120
1,3-Dichlorobenzene	1000	1030		ug/Kg		103	70 - 125
4-Chlorotoluene	1000	982		ug/Kg		98	70 - 125
1,4-Dichlorobenzene	1000	1010		ug/Kg		101	70 - 125
1,3-Dichloropropane	1000	1000		ug/Kg		100	65 - 130
Benzene	1000	1010		ug/Kg		101	65 - 120
1,1-Dichloropropene	1000	1030		ug/Kg		103	70 - 130
Bromobenzene	1000	992		ug/Kg		99	70 - 120
1,2-Dibromo-3-Chloropropane	1000	822		ug/Kg		82	45 - 135
Bromoform	1000	792		ug/Kg		79	50 - 130
Bromomethane	1000	883		ug/Kg		88	30 - 140
Carbon disulfide	1000	885		ug/Kg		88	50 - 130
Carbon tetrachloride	1000	960		ug/Kg		96	65 - 145
1,1-Dichloroethane	1000	1010		ug/Kg		101	65 - 130
Chlorobenzene	1000	1000		ug/Kg		100	70 - 125
1,2-Dichloroethane	1000	1000		ug/Kg		100	60 - 145
Chlorobromomethane	1000	1050		ug/Kg		105	65 - 125
1,1-Dichloroethene	1000	987		ug/Kg		99	75 - 140
Chloroethane	1000	885		ug/Kg		88	40 - 140
Chloroform	1000	1050		ug/Kg		105	75 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527268/6
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	1000	707		ug/Kg		71	30 - 140
1,2-Dichloropropane	1000	1040		ug/Kg		104	75 - 125
cis-1,2-Dichloroethene	1000	1030		ug/Kg		103	65 - 130
cis-1,3-Dichloropropene	1000	923		ug/Kg		92	70 - 130
Chlorodibromomethane	1000	888		ug/Kg		89	65 - 140
Dibromomethane	1000	1020		ug/Kg		102	65 - 130
Dichlorobromomethane	1000	947		ug/Kg		95	65 - 135
2-Hexanone	1000	755	J	ug/Kg		75	35 - 140
Dichlorodifluoromethane	1000	464		ug/Kg		46	10 - 155
Ethylbenzene	1000	967		ug/Kg		97	80 - 120
4-Isopropyltoluene	1000	1050		ug/Kg		105	70 - 125
Hexachlorobutadiene	1000	1030		ug/Kg		103	60 - 135
Isopropylbenzene	1000	995		ug/Kg		100	70 - 125
Methylene Chloride	1000	863	J	ug/Kg		86	60 - 140
Methyl tert-butyl ether	1000	937		ug/Kg		94	55 - 145
Naphthalene	1000	912		ug/Kg		91	50 - 140
1,1,1,2-Tetrachloroethane	1000	927		ug/Kg		93	70 - 140
n-Butylbenzene	1000	1040		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	1000	957		ug/Kg		96	55 - 135
N-Propylbenzene	1000	979		ug/Kg		98	70 - 130
sec-Butylbenzene	1000	1010		ug/Kg		101	70 - 125
1,2,3-Trichlorobenzene	1000	976		ug/Kg		98	60 - 135
Styrene	1000	902		ug/Kg		90	70 - 135
1,2,4-Trichlorobenzene	1000	1020		ug/Kg		102	65 - 135
tert-Butylbenzene	1000	1010		ug/Kg		101	70 - 125
1,1,1-Trichloroethane	1000	1040		ug/Kg		104	65 - 140
Tetrachloroethene	1000	1010		ug/Kg		101	65 - 125
1,1,2-Trichloroethane	1000	992		ug/Kg		99	65 - 130
Toluene	1000	960		ug/Kg		96	80 - 120
trans-1,2-Dichloroethene	1000	1040		ug/Kg		104	65 - 130
1,2,3-Trichloropropane	1000	1050		ug/Kg		105	55 - 130
trans-1,3-Dichloropropene	1000	902		ug/Kg		90	65 - 135
Trichloroethene	1000	1080		ug/Kg		108	70 - 130
1,2,4-Trimethylbenzene	1000	990		ug/Kg		99	70 - 125
Trichlorofluoromethane	1000	1070		ug/Kg		107	50 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	1030		ug/Kg		103	60 - 140
1,3,5-Trimethylbenzene	1000	990		ug/Kg		99	70 - 125
Vinyl acetate	1000	864		ug/Kg		86	25 - 145
Vinyl chloride	1000	774		ug/Kg		77	10 - 120
m-Xylene & p-Xylene	1000	988		ug/Kg		99	70 - 125
Ethylene Dibromide	1000	1000		ug/Kg		100	70 - 130
o-Xylene	1000	1010		ug/Kg		101	70 - 125
2-Butanone (MEK)	1000	631	J	ug/Kg		63	40 - 145
4-Methyl-2-pentanone (MIBK)	1000	681		ug/Kg		68	40 - 145
2,2-Dichloropropane	1000	1030		ug/Kg		103	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527268/6
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*97*		*60 - 140*

Lab Sample ID: LCSD 440-527268/7
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene			1000	1010		ug/Kg		101	70 - 125	3	20
1,2-Dichlorobenzene			1000	1030		ug/Kg		103	70 - 120	2	20
1,3-Dichlorobenzene			1000	1050		ug/Kg		105	70 - 125	3	20
4-Chlorotoluene			1000	986		ug/Kg		99	70 - 125	0	20
1,4-Dichlorobenzene			1000	1030		ug/Kg		103	70 - 125	3	20
1,3-Dichloropropane			1000	1010		ug/Kg		101	65 - 130	1	20
Benzene			1000	1010		ug/Kg		101	65 - 120	0	20
1,1-Dichloropropene			1000	1050		ug/Kg		105	70 - 130	2	20
Bromobenzene			1000	1010		ug/Kg		101	70 - 120	1	20
1,2-Dibromo-3-Chloropropane			1000	807		ug/Kg		81	45 - 135	2	25
Bromoform			1000	855		ug/Kg		85	50 - 130	8	25
Bromomethane			1000	907		ug/Kg		91	30 - 140	3	30
Carbon disulfide			1000	878		ug/Kg		88	50 - 130	1	20
Carbon tetrachloride			1000	981		ug/Kg		98	65 - 145	2	20
1,1-Dichloroethane			1000	1020		ug/Kg		102	65 - 130	1	20
Chlorobenzene			1000	1050		ug/Kg		105	70 - 125	4	20
1,2-Dichloroethane			1000	981		ug/Kg		98	60 - 145	2	20
Chlorobromomethane			1000	1040		ug/Kg		104	65 - 125	1	20
1,1-Dichloroethene			1000	995		ug/Kg		99	75 - 140	1	20
Chloroethane			1000	867		ug/Kg		87	40 - 140	2	25
Chloroform			1000	1060		ug/Kg		106	75 - 130	1	20
Chloromethane			1000	713		ug/Kg		71	30 - 140	1	25
1,2-Dichloropropane			1000	1040		ug/Kg		104	75 - 125	1	20
cis-1,2-Dichloroethene			1000	1040		ug/Kg		104	65 - 130	1	20
cis-1,3-Dichloropropene			1000	969		ug/Kg		97	70 - 130	5	20
Chlorodibromomethane			1000	926		ug/Kg		93	65 - 140	4	20
Dibromomethane			1000	1050		ug/Kg		105	65 - 130	3	20
Dichlorobromomethane			1000	946		ug/Kg		95	65 - 135	0	20
2-Hexanone			1000	715	J	ug/Kg		72	35 - 140	5	30
Dichlorodifluoromethane			1000	463		ug/Kg		46	10 - 155	0	30
Ethylbenzene			1000	998		ug/Kg		100	80 - 120	3	20
4-Isopropyltoluene			1000	1080		ug/Kg		108	70 - 125	2	20
Hexachlorobutadiene			1000	1070		ug/Kg		107	60 - 135	4	20
Isopropylbenzene			1000	1030		ug/Kg		103	70 - 125	4	20
Methylene Chloride			1000	865	J	ug/Kg		87	60 - 140	0	20
Methyl tert-butyl ether			1000	906		ug/Kg		91	55 - 145	3	25
Naphthalene			1000	911		ug/Kg		91	50 - 140	0	25
1,1,1,2-Tetrachloroethane			1000	972		ug/Kg		97	70 - 140	5	20
n-Butylbenzene			1000	1070		ug/Kg		107	70 - 130	3	20
1,1,2,2-Tetrachloroethane			1000	922		ug/Kg		92	55 - 135	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527268/7
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene			1000	1010		ug/Kg		101	70 - 130	3	20
sec-Butylbenzene			1000	1040		ug/Kg		104	70 - 125	3	20
1,2,3-Trichlorobenzene			1000	981		ug/Kg		98	60 - 135	0	20
Styrene			1000	938		ug/Kg		94	70 - 135	4	20
1,2,4-Trichlorobenzene			1000	1020		ug/Kg		102	65 - 135	0	20
tert-Butylbenzene			1000	1070		ug/Kg		107	70 - 125	6	20
1,1,1-Trichloroethane			1000	1030		ug/Kg		103	65 - 140	1	20
Tetrachloroethene			1000	1060		ug/Kg		106	65 - 125	5	20
1,1,2-Trichloroethane			1000	1020		ug/Kg		102	65 - 130	3	20
Toluene			1000	985		ug/Kg		98	80 - 120	3	20
trans-1,2-Dichloroethene			1000	1050		ug/Kg		105	65 - 130	1	20
1,2,3-Trichloropropane			1000	1020		ug/Kg		102	55 - 130	3	25
trans-1,3-Dichloropropene			1000	920		ug/Kg		92	65 - 135	2	20
Trichloroethene			1000	1080		ug/Kg		108	70 - 130	1	20
1,2,4-Trimethylbenzene			1000	1010		ug/Kg		101	70 - 125	2	20
Trichlorofluoromethane			1000	1060		ug/Kg		106	50 - 145	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane			1000	1120		ug/Kg		112	60 - 140	8	40
1,3,5-Trimethylbenzene			1000	1020		ug/Kg		102	70 - 125	3	20
Vinyl acetate			1000	848		ug/Kg		85	25 - 145	2	25
Vinyl chloride			1000	764		ug/Kg		76	10 - 120	1	30
m-Xylene & p-Xylene			1000	1030		ug/Kg		103	70 - 125	4	20
Ethylene Dibromide			1000	970		ug/Kg		97	70 - 130	3	20
o-Xylene			1000	1050		ug/Kg		105	70 - 125	4	20
2-Butanone (MEK)			1000	692	J	ug/Kg		69	40 - 145	9	30
4-Methyl-2-pentanone (MIBK)			1000	661		ug/Kg		66	40 - 145	3	30
2,2-Dichloropropane			1000	1030		ug/Kg		103	60 - 145	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 440-527777/5
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			02/09/19 14:39	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Benzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Bromobenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/09/19 14:39	1
Bromoform	ND		1.0	0.40	ug/L			02/09/19 14:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527777/5
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/09/19 14:39	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Chloroethane	ND		1.0	0.40	ug/L			02/09/19 14:39	1
Chloroform	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Chloromethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Dibromomethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
2-Hexanone	ND		5.0	2.5	ug/L			02/09/19 14:39	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/09/19 14:39	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/09/19 14:39	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Naphthalene	ND		1.0	0.40	ug/L			02/09/19 14:39	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/09/19 14:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/09/19 14:39	1
Styrene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/09/19 14:39	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Toluene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/09/19 14:39	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Trichloroethene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/09/19 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/09/19 14:39	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/09/19 14:39	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/09/19 14:39	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/09/19 14:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527777/5
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/09/19 14:39	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/09/19 14:39	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/09/19 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/09/19 14:39	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/09/19 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/09/19 14:39*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/09/19 14:39*	*1*

Lab Sample ID: LCS 440-527777/6
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10.0	ND		ug/L		63	10 - 150
2-Chlorotoluene	10.0	10.8		ug/L		108	70 - 130
1,2-Dichlorobenzene	10.0	11.1		ug/L		111	70 - 130
1,3-Dichlorobenzene	10.0	11.3		ug/L		113	70 - 130
4-Chlorotoluene	10.0	10.8		ug/L		108	70 - 130
1,4-Dichlorobenzene	10.0	11.1		ug/L		111	70 - 130
1,3-Dichloropropane	10.0	10.8		ug/L		108	70 - 130
Benzene	10.0	10.7		ug/L		107	68 - 130
1,1-Dichloropropene	10.0	10.7		ug/L		107	70 - 130
Bromobenzene	10.0	11.3		ug/L		113	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	9.43		ug/L		94	52 - 140
Bromoform	10.0	9.85		ug/L		98	60 - 148
Bromomethane	10.0	10.5		ug/L		105	64 - 139
Carbon disulfide	10.0	9.80		ug/L		98	52 - 136
Carbon tetrachloride	10.0	10.1		ug/L		101	60 - 150
1,1-Dichloroethane	10.0	10.6		ug/L		106	64 - 130
Chlorobenzene	10.0	11.1		ug/L		111	70 - 130
1,2-Dichloroethane	10.0	10.8		ug/L		108	57 - 138
Chlorobromomethane	10.0	11.3		ug/L		113	70 - 130
1,1-Dichloroethene	10.0	10.5		ug/L		105	70 - 130
Chloroethane	10.0	9.83		ug/L		98	64 - 135
Chloroform	10.0	10.8		ug/L		108	70 - 130
Chloromethane	10.0	8.94		ug/L		89	47 - 140
1,2-Dichloropropane	10.0	11.0		ug/L		110	67 - 130
cis-1,2-Dichloroethene	10.0	11.1		ug/L		111	70 - 133
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	70 - 133
Chlorodibromomethane	10.0	10.5		ug/L		105	69 - 145
Dibromomethane	10.0	11.3		ug/L		113	70 - 130
Dichlorobromomethane	10.0	9.92		ug/L		99	70 - 132
2-Hexanone	10.0	9.75		ug/L		98	10 - 150
Dichlorodifluoromethane	10.0	8.62		ug/L		86	29 - 150
Ethylbenzene	10.0	10.5		ug/L		105	70 - 130
4-Isopropyltoluene	10.0	11.3		ug/L		113	70 - 132

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527777/6
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	10.0	11.3		ug/L		113	10 - 150
Isopropylbenzene	10.0	10.5		ug/L		105	70 - 136
Methylene Chloride	10.0	9.00		ug/L		90	52 - 130
Methyl tert-butyl ether	10.0	10.2		ug/L		102	63 - 131
Naphthalene	10.0	10.2		ug/L		102	60 - 140
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	60 - 141
n-Butylbenzene	10.0	10.8		ug/L		108	65 - 150
1,1,2,2-Tetrachloroethane	10.0	10.8		ug/L		108	63 - 130
N-Propylbenzene	10.0	10.6		ug/L		106	67 - 139
sec-Butylbenzene	10.0	10.7		ug/L		107	70 - 138
1,2,3-Trichlorobenzene	10.0	10.9		ug/L		109	60 - 140
Styrene	10.0	10.1		ug/L		101	70 - 134
1,2,4-Trichlorobenzene	10.0	11.1		ug/L		111	60 - 140
tert-Butylbenzene	10.0	11.0		ug/L		110	70 - 130
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	70 - 130
Tetrachloroethene	10.0	11.0		ug/L		110	70 - 130
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	70 - 130
Toluene	10.0	10.2		ug/L		102	70 - 130
trans-1,2-Dichloroethene	10.0	10.9		ug/L		109	70 - 130
1,2,3-Trichloropropane	10.0	12.3		ug/L		123	63 - 130
trans-1,3-Dichloropropene	10.0	10.4		ug/L		104	70 - 132
Trichloroethene	10.0	11.2		ug/L		112	70 - 130
1,2,4-Trimethylbenzene	10.0	10.7		ug/L		107	70 - 135
Trichlorofluoromethane	10.0	11.1		ug/L		111	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.6		ug/L		106	60 - 140
1,3,5-Trimethylbenzene	10.0	10.8		ug/L		108	70 - 136
Vinyl acetate	10.0	9.03		ug/L		90	48 - 140
Vinyl chloride	10.0	9.65		ug/L		97	59 - 133
m-Xylene & p-Xylene	10.0	10.7		ug/L		107	70 - 130
Ethylene Dibromide	10.0	11.2		ug/L		112	70 - 130
o-Xylene	10.0	11.1		ug/L		111	70 - 130
2-Butanone (MEK)	10.0	9.18		ug/L		92	44 - 150
4-Methyl-2-pentanone (MIBK)	10.0	9.02		ug/L		90	59 - 149
2,2-Dichloropropane	10.0	10.4		ug/L		104	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 440-232121-C-2 MS
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND	F1	10.0	11.3	J	ug/L		113	10 - 150
2-Chlorotoluene	ND		10.0	9.87		ug/L		99	70 - 130
1,2-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.7		ug/L		107	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232121-C-2 MS
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	ND		10.0	9.92		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130
1,3-Dichloropropane	ND		10.0	11.3		ug/L		113	70 - 130
Benzene	ND		10.0	10.2		ug/L		102	66 - 130
1,1-Dichloropropene	ND		10.0	10.2		ug/L		102	64 - 130
Bromobenzene	ND		10.0	10.5		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	9.88		ug/L		99	48 - 140
Bromoform	ND		10.0	10.2		ug/L		102	59 - 150
Bromomethane	ND		10.0	9.75		ug/L		98	62 - 131
Carbon disulfide	ND		10.0	9.29		ug/L		93	49 - 140
Carbon tetrachloride	ND		10.0	9.57		ug/L		96	60 - 150
1,1-Dichloroethane	ND		10.0	10.2		ug/L		102	65 - 130
Chlorobenzene	ND		10.0	10.7		ug/L		107	70 - 130
1,2-Dichloroethane	ND		10.0	10.7		ug/L		107	56 - 146
Chlorobromomethane	ND		10.0	11.7		ug/L		117	70 - 130
1,1-Dichloroethene	ND		10.0	9.89		ug/L		99	70 - 130
Chloroethane	ND		10.0	8.92		ug/L		89	68 - 130
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130
Chloromethane	ND		10.0	8.46		ug/L		85	39 - 144
1,2-Dichloropropane	ND		10.0	10.7		ug/L		107	69 - 130
cis-1,2-Dichloroethene	ND		10.0	10.6		ug/L		106	70 - 130
cis-1,3-Dichloropropene	ND		10.0	10.5		ug/L		105	70 - 133
Chlorodibromomethane	ND		10.0	10.7		ug/L		107	70 - 148
Dibromomethane	ND		10.0	11.3		ug/L		113	70 - 130
Dichlorobromomethane	ND		10.0	9.98		ug/L		100	70 - 138
2-Hexanone	ND		10.0	11.0		ug/L		110	10 - 150
Dichlorodifluoromethane	ND		10.0	8.46		ug/L		85	25 - 142
Ethylbenzene	ND		10.0	9.83		ug/L		98	70 - 130
4-Isopropyltoluene	ND		10.0	10.5		ug/L		105	70 - 130
Hexachlorobutadiene	ND		10.0	11.1		ug/L		111	10 - 150
Isopropylbenzene	ND		10.0	10.1		ug/L		101	70 - 132
Methylene Chloride	ND		10.0	8.96		ug/L		90	52 - 130
Methyl tert-butyl ether	ND		10.0	10.7		ug/L		107	70 - 130
Naphthalene	ND		10.0	11.1		ug/L		111	60 - 140
1,1,1,2-Tetrachloroethane	ND		10.0	10.1		ug/L		101	60 - 149
n-Butylbenzene	ND		10.0	10.3		ug/L		103	61 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	11.2		ug/L		112	63 - 130
N-Propylbenzene	ND		10.0	9.68		ug/L		97	66 - 135
sec-Butylbenzene	ND		10.0	10.1		ug/L		101	67 - 134
1,2,3-Trichlorobenzene	ND		10.0	11.2		ug/L		112	60 - 140
Styrene	ND		10.0	8.11		ug/L		81	29 - 150
1,2,4-Trichlorobenzene	ND		10.0	10.8		ug/L		108	60 - 140
tert-Butylbenzene	ND		10.0	10.4		ug/L		104	70 - 130
1,1,1-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130
Tetrachloroethene	ND		10.0	10.4		ug/L		104	70 - 137
1,1,2-Trichloroethane	ND		10.0	11.6		ug/L		116	70 - 130
Toluene	ND		10.0	9.82		ug/L		98	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130
1,2,3-Trichloropropane	ND		10.0	12.0		ug/L		120	60 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232121-C-2 MS
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		10.0	10.3		ug/L		103	70 - 138
Trichloroethene	ND		10.0	10.8		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	ND		10.0	9.79		ug/L		98	70 - 130
Trichlorofluoromethane	ND		10.0	10.6		ug/L		106	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.1		ug/L		101	60 - 140
1,3,5-Trimethylbenzene	ND		10.0	9.97		ug/L		100	70 - 130
Vinyl acetate	ND		10.0	10.0		ug/L		100	23 - 150
Vinyl chloride	ND		10.0	9.03		ug/L		90	50 - 137
m-Xylene & p-Xylene	ND		10.0	10.2		ug/L		102	70 - 133
Ethylene Dibromide	ND		10.0	11.5		ug/L		115	70 - 131
o-Xylene	ND		10.0	10.6		ug/L		106	70 - 133
2-Butanone (MEK)	ND		10.0	10.8		ug/L		108	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		10.0	10.1		ug/L		101	52 - 150
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-232121-C-2 MSD
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150	NC	35
2-Chlorotoluene	ND		10.0	10.2		ug/L		102	70 - 130	3	20
1,2-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	0	20
1,3-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130	2	20
4-Chlorotoluene	ND		10.0	10.5		ug/L		105	70 - 130	5	20
1,4-Dichlorobenzene	ND		10.0	10.6		ug/L		106	70 - 130	2	20
1,3-Dichloropropane	ND		10.0	11.5		ug/L		115	70 - 130	2	25
Benzene	ND		10.0	10.7		ug/L		107	66 - 130	5	20
1,1-Dichloropropene	ND		10.0	11.0		ug/L		110	64 - 130	8	20
Bromobenzene	ND		10.0	10.9		ug/L		109	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	ND		10.0	10.4		ug/L		104	48 - 140	5	30
Bromoform	ND		10.0	10.5		ug/L		105	59 - 150	3	25
Bromomethane	ND		10.0	10.3		ug/L		103	62 - 131	6	25
Carbon disulfide	ND		10.0	9.95		ug/L		100	49 - 140	7	20
Carbon tetrachloride	ND		10.0	10.4		ug/L		104	60 - 150	8	25
1,1-Dichloroethane	ND		10.0	10.5		ug/L		105	65 - 130	3	20
Chlorobenzene	ND		10.0	11.1		ug/L		111	70 - 130	3	20
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	56 - 146	3	20
Chlorobromomethane	ND		10.0	11.7		ug/L		117	70 - 130	0	25
1,1-Dichloroethene	ND		10.0	10.7		ug/L		107	70 - 130	8	20
Chloroethane	ND		10.0	9.60		ug/L		96	68 - 130	7	25
Chloroform	ND		10.0	10.8		ug/L		108	70 - 130	3	20
Chloromethane	ND		10.0	8.75		ug/L		88	39 - 144	3	25
1,2-Dichloropropane	ND		10.0	11.2		ug/L		112	69 - 130	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232121-C-2 MSD
Matrix: Water
Analysis Batch: 527777

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		10.0	10.9		ug/L		109	70 - 130	2	20
cis-1,3-Dichloropropene	ND		10.0	10.5		ug/L		105	70 - 133	0	20
Chlorodibromomethane	ND		10.0	10.9		ug/L		109	70 - 148	2	25
Dibromomethane	ND		10.0	11.7		ug/L		117	70 - 130	4	25
Dichlorobromomethane	ND		10.0	10.5		ug/L		105	70 - 138	5	20
2-Hexanone	ND		10.0	11.1		ug/L		111	10 - 150	1	35
Dichlorodifluoromethane	ND		10.0	9.22		ug/L		92	25 - 142	9	30
Ethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130	5	20
4-Isopropyltoluene	ND		10.0	10.9		ug/L		109	70 - 130	4	20
Hexachlorobutadiene	ND		10.0	11.1		ug/L		111	10 - 150	0	20
Isopropylbenzene	ND		10.0	10.6		ug/L		106	70 - 132	5	20
Methylene Chloride	ND		10.0	9.09		ug/L		91	52 - 130	1	20
Methyl tert-butyl ether	ND		10.0	11.0		ug/L		110	70 - 130	2	25
Naphthalene	ND		10.0	11.0		ug/L		110	60 - 140	0	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.5		ug/L		105	60 - 149	3	20
n-Butylbenzene	ND		10.0	10.6		ug/L		106	61 - 149	4	20
1,1,2,2-Tetrachloroethane	ND		10.0	11.1		ug/L		111	63 - 130	1	30
N-Propylbenzene	ND		10.0	10.1		ug/L		101	66 - 135	4	20
sec-Butylbenzene	ND		10.0	10.4		ug/L		104	67 - 134	3	20
1,2,3-Trichlorobenzene	ND		10.0	11.1		ug/L		111	60 - 140	1	20
Styrene	ND		10.0	7.93		ug/L		79	29 - 150	2	35
1,2,4-Trichlorobenzene	ND		10.0	11.0		ug/L		110	60 - 140	2	20
tert-Butylbenzene	ND		10.0	10.8		ug/L		108	70 - 130	4	20
1,1,1-Trichloroethane	ND		10.0	10.7		ug/L		107	70 - 130	5	20
Tetrachloroethene	ND		10.0	11.2		ug/L		112	70 - 137	7	20
1,1,2-Trichloroethane	ND		10.0	12.1		ug/L		121	70 - 130	4	25
Toluene	ND		10.0	10.0		ug/L		100	70 - 130	2	20
trans-1,2-Dichloroethene	ND		10.0	11.1		ug/L		111	70 - 130	7	20
1,2,3-Trichloropropane	ND		10.0	12.9		ug/L		129	60 - 130	7	30
trans-1,3-Dichloropropene	ND		10.0	10.5		ug/L		105	70 - 138	2	25
Trichloroethene	ND		10.0	11.5		ug/L		115	70 - 130	6	20
1,2,4-Trimethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130	3	25
Trichlorofluoromethane	ND		10.0	11.6		ug/L		116	60 - 150	9	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.7		ug/L		117	60 - 140	15	20
1,3,5-Trimethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130	3	20
Vinyl acetate	ND		10.0	9.92		ug/L		99	23 - 150	1	30
Vinyl chloride	ND		10.0	9.55		ug/L		96	50 - 137	6	30
m-Xylene & p-Xylene	ND		10.0	10.9		ug/L		109	70 - 133	7	25
Ethylene Dibromide	ND		10.0	11.6		ug/L		116	70 - 131	1	25
o-Xylene	ND		10.0	10.9		ug/L		109	70 - 133	2	20
2-Butanone (MEK)	ND		10.0	12.8		ug/L		128	48 - 140	17	40
4-Methyl-2-pentanone (MIBK)	ND		10.0	10.3		ug/L		103	52 - 150	1	35
2,2-Dichloropropane	ND		10.0	10.7		ug/L		107	69 - 138	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: 720-91089-A-9-A MSD
Matrix: Solid
Analysis Batch: 526932

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1020	830		ug/Kg		81	55 - 140	8	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-91089-A-9-B MS
Matrix: Solid
Analysis Batch: 526932

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1010	765		ug/Kg		76	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: MB 440-526750/5
Matrix: Solid
Analysis Batch: 526750

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/05/19 09:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*02/05/19 09:36*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*02/05/19 09:36*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/05/19 09:36*	*1*

Lab Sample ID: LCS 440-526750/7
Matrix: Solid
Analysis Batch: 526750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	826		ug/Kg		83	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 440-526750/10 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526750

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	897		ug/Kg		90	60 - 135	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: MB 440-526921/7 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/05/19 19:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*60 - 120*		*02/05/19 19:04*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*		*02/05/19 19:04*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*		*02/05/19 19:04*	*1*

Lab Sample ID: LCS 440-526921/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526921

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			1000	874		ug/Kg		87	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*60 - 120*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Toluene-d8 (Surr)	*104*		*79 - 123*

Lab Sample ID: 440-231210-A-2 MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		3380	3280		ug/Kg		97	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*60 - 120*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-231210-A-2 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3360	3350		ug/Kg		100	55 - 140	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*60 - 120*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: MB 440-526932/4 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/05/19 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*02/05/19 19:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*		*02/05/19 19:25*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*		*02/05/19 19:25*	*1*

Lab Sample ID: LCS 440-526932/6 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	927		ug/Kg		93	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: MB 440-527269/5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			02/07/19 08:54	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*		*02/07/19 08:54*	*100*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*		*02/07/19 08:54*	*100*
Toluene-d8 (Surr)	*97*		*60 - 140*		*02/07/19 08:54*	*100*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-527269/8
Matrix: Solid
Analysis Batch: 527269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			50000	47300		ug/Kg		95	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*55 - 140*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

Lab Sample ID: LCSD 440-527269/9
Matrix: Solid
Analysis Batch: 527269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			50000	49700		ug/Kg		99	60 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*55 - 140*
4-Bromofluorobenzene (Surr)	*95*		*65 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 440-527778/5
Matrix: Water
Analysis Batch: 527778

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/09/19 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/09/19 14:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/09/19 14:39*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/09/19 14:39*	*1*

Lab Sample ID: LCS 440-527778/29
Matrix: Water
Analysis Batch: 527778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	478		ug/L		96	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-232121-C-2 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 527778

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		690	709		ug/L		103	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-232121-C-2 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 527778

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		690	752		ug/L		109	50 - 145	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-259639/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259858 — **Prep Batch: 259639**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Acenaphthene	ND		5.0	2.8	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Anthracene	ND		5.0	2.0	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Benzo[a]pyrene	2.21	J	5.0	1.9	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Benzo[k]fluoranthene	2.26	J	5.0	2.1	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Chrysene	ND		5.0	1.4	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Fluoranthene	ND		5.0	1.4	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Fluorene	ND		5.0	2.2	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Naphthalene	ND		5.0	3.5	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Phenanthrene	ND		5.0	1.8	ug/Kg		02/01/19 10:22	02/06/19 01:10	1
Pyrene	ND		5.0	1.7	ug/Kg		02/01/19 10:22	02/06/19 01:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*02/01/19 10:22*	*02/06/19 01:10*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-259639/1-A
Matrix: Solid
Analysis Batch: 259858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259639

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	120		35 - 146	02/01/19 10:22	02/06/19 01:10	1

Lab Sample ID: LCS 720-259639/2-A
Matrix: Solid
Analysis Batch: 259858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	572		ug/Kg		86	38 - 110
Acenaphthene	667	527		ug/Kg		79	37 - 106
Acenaphthylene	667	584		ug/Kg		88	38 - 102
Anthracene	667	575		ug/Kg		86	43 - 103
Benzo[a]anthracene	667	734		ug/Kg		110	49 - 117
Benzo[a]pyrene	667	709		ug/Kg		106	49 - 118
Benzo[b]fluoranthene	667	686		ug/Kg		103	50 - 115
Benzo[g,h,i]perylene	667	679		ug/Kg		102	39 - 122
Benzo[k]fluoranthene	667	700		ug/Kg		105	45 - 115
Chrysene	667	797		ug/Kg		120	39 - 123
Dibenz(a,h)anthracene	667	654		ug/Kg		98	43 - 121
Fluoranthene	667	650		ug/Kg		97	47 - 109
Fluorene	667	575		ug/Kg		86	40 - 106
Indeno[1,2,3-cd]pyrene	667	663		ug/Kg		100	43 - 120
Naphthalene	667	542		ug/Kg		81	35 - 110
Phenanthrene	667	509		ug/Kg		76	42 - 110
Pyrene	667	720		ug/Kg		108	45 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	84		33 - 120
Terphenyl-d14	119		35 - 146

Lab Sample ID: 720-91016-A-16-G MS
Matrix: Solid
Analysis Batch: 259941

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		654	538		ug/Kg		82	46 - 110
Acenaphthene	ND		654	541		ug/Kg		83	46 - 106
Acenaphthylene	ND		654	527		ug/Kg		81	46 - 108
Anthracene	13	J	654	533		ug/Kg		80	55 - 103
Benzo[a]anthracene	ND	F1	654	740	F1	ug/Kg		113	54 - 110
Benzo[a]pyrene	16	J B F1	654	741		ug/Kg		111	62 - 111
Benzo[b]fluoranthene	27	F1	654	865	F1	ug/Kg		128	60 - 109
Benzo[g,h,i]perylene	ND	F1	654	335	F1	ug/Kg		51	52 - 114
Benzo[k]fluoranthene	14	J B F1	654	730	F1	ug/Kg		110	58 - 109
Chrysene	9.3	J	654	632		ug/Kg		95	54 - 108
Dibenz(a,h)anthracene	ND		654	392		ug/Kg		60	58 - 112
Fluoranthene	25		654	664		ug/Kg		98	59 - 109
Fluorene	ND		654	584		ug/Kg		89	52 - 106
Indeno[1,2,3-cd]pyrene	ND		654	385		ug/Kg		59	55 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91016-A-16-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259941 — **Prep Batch: 259639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		654	513		ug/Kg		78	49 - 110
Phenanthrene	24	J	654	511		ug/Kg		74	57 - 110
Pyrene	24	J	654	721		ug/Kg		107	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*33 - 120*
Terphenyl-d14	*125*		*35 - 146*

Lab Sample ID: 720-91016-A-16-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259941 — **Prep Batch: 259639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		655	570		ug/Kg		87	46 - 110	6	35
Acenaphthene	ND		655	564		ug/Kg		86	46 - 106	4	35
Acenaphthylene	ND		655	569		ug/Kg		87	46 - 108	8	35
Anthracene	13	J	655	557		ug/Kg		83	55 - 103	4	35
Benzo[a]anthracene	ND	F1	655	774	F1	ug/Kg		118	54 - 110	4	35
Benzo[a]pyrene	16	J B F1	655	783	F1	ug/Kg		117	62 - 111	6	35
Benzo[b]fluoranthene	27	F1	655	963	F1	ug/Kg		143	60 - 109	11	35
Benzo[g,h,i]perylene	ND	F1	655	341		ug/Kg		52	52 - 114	2	35
Benzo[k]fluoranthene	14	J B F1	655	746	F1	ug/Kg		112	58 - 109	2	35
Chrysene	9.3	J	655	667		ug/Kg		100	54 - 108	5	35
Dibenz(a,h)anthracene	ND		655	402		ug/Kg		61	58 - 112	3	35
Fluoranthene	25		655	693		ug/Kg		102	59 - 109	4	35
Fluorene	ND		655	611		ug/Kg		93	52 - 106	4	35
Indeno[1,2,3-cd]pyrene	ND		655	395		ug/Kg		60	55 - 120	3	35
Naphthalene	ND		655	544		ug/Kg		83	49 - 110	6	35
Phenanthrene	24	J	655	530		ug/Kg		77	57 - 110	4	35
Pyrene	24	J	655	754		ug/Kg		111	50 - 120	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*33 - 120*
Terphenyl-d14	*130*		*35 - 146*

Lab Sample ID: MB 720-259667/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260119 — **Prep Batch: 259667**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Acenaphthene	ND		5.0	2.8	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Anthracene	ND		5.0	2.0	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		02/01/19 14:01	02/11/19 15:00	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-259667/1-A
Matrix: Solid
Analysis Batch: 260119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	2.11	J	5.0	2.1	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Chrysene	ND		5.0	1.4	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Fluoranthene	ND		5.0	1.4	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Fluorene	ND		5.0	2.2	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Naphthalene	ND		5.0	3.5	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Phenanthrene	ND		5.0	1.8	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Pyrene	ND		5.0	1.7	ug/Kg		02/01/19 14:01	02/11/19 15:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*33 - 120*	*02/01/19 14:01*	*02/11/19 15:00*	*1*
Terphenyl-d14	*120*		*35 - 146*	*02/01/19 14:01*	*02/11/19 15:00*	*1*

Lab Sample ID: LCS 720-259667/2-A
Matrix: Solid
Analysis Batch: 260053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	590		ug/Kg		89	38 - 110
Acenaphthene	667	564		ug/Kg		85	37 - 106
Acenaphthylene	667	613		ug/Kg		92	38 - 102
Anthracene	667	594		ug/Kg		89	43 - 103
Benzo[a]anthracene	667	730		ug/Kg		110	49 - 117
Benzo[a]pyrene	667	701		ug/Kg		105	49 - 118
Benzo[b]fluoranthene	667	704		ug/Kg		106	50 - 115
Benzo[g,h,i]perylene	667	639		ug/Kg		96	39 - 122
Benzo[k]fluoranthene	667	677		ug/Kg		102	45 - 115
Chrysene	667	798		ug/Kg		120	39 - 123
Dibenz(a,h)anthracene	667	606		ug/Kg		91	43 - 121
Fluoranthene	667	671		ug/Kg		101	47 - 109
Fluorene	667	602		ug/Kg		90	40 - 106
Indeno[1,2,3-cd]pyrene	667	629		ug/Kg		94	43 - 120
Naphthalene	667	565		ug/Kg		85	35 - 110
Phenanthrene	667	534		ug/Kg		80	42 - 110
Pyrene	667	759		ug/Kg		114	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*33 - 120*
Terphenyl-d14	*121*		*35 - 146*

Lab Sample ID: 720-91069-8 MS
Matrix: Solid
Analysis Batch: 260119

Client Sample ID: DG-AC11S-0.5-1
Prep Type: Total/NA
Prep Batch: 259667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND	F1	653	715		ug/Kg		110	46 - 110
Acenaphthene	130	J	653	657		ug/Kg		81	46 - 106

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91069-8 MS **Client Sample ID: DG-AC11S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260119 **Prep Batch: 259667**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		653	619		ug/Kg		95	46 - 108
Anthracene	140	J	653	650		ug/Kg		78	55 - 103
Benzo[a]anthracene	ND	F1	653	907	F1	ug/Kg		139	54 - 110
Benzo[a]pyrene	110	J F1 *	653	1010	F1 *	ug/Kg		138	62 - 111
Benzo[b]fluoranthene	100	J F1 *	653	1100	F1 *	ug/Kg		153	60 - 109
Benzo[g,h,i]perylene	ND	*	653	372	*	ug/Kg		57	52 - 114
Benzo[k]fluoranthene	85	J F1 B *	653	966	F1 *	ug/Kg		135	58 - 109
Chrysene	ND	F1	653	733	F1	ug/Kg		112	54 - 108
Dibenz(a,h)anthracene	ND	*	653	474	*	ug/Kg		73	58 - 112
Fluoranthene	57	J	653	612		ug/Kg		85	59 - 109
Fluorene	ND		653	541		ug/Kg		83	52 - 106
Indeno[1,2,3-cd]pyrene	ND	*	653	452	*	ug/Kg		69	55 - 120
Naphthalene	ND	F1	653	699		ug/Kg		107	49 - 110
Phenanthrene	190	J	653	592		ug/Kg		62	57 - 110
Pyrene	190	J	653	785		ug/Kg		91	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*33 - 120*
Terphenyl-d14	*119*		*35 - 146*

Lab Sample ID: 720-91069-8 MSD **Client Sample ID: DG-AC11S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260119 **Prep Batch: 259667**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND	F1	654	755	F1	ug/Kg		115	46 - 110	5	35
Acenaphthene	130	J	654	625		ug/Kg		76	46 - 106	5	35
Acenaphthylene	ND		654	623		ug/Kg		95	46 - 108	1	35
Anthracene	140	J	654	656		ug/Kg		79	55 - 103	1	35
Benzo[a]anthracene	ND	F1	654	898	F1	ug/Kg		137	54 - 110	1	35
Benzo[a]pyrene	110	J F1 *	654	1020	F1 *	ug/Kg		139	62 - 111	1	35
Benzo[b]fluoranthene	100	J F1 *	654	1100	F1 *	ug/Kg		153	60 - 109	0	35
Benzo[g,h,i]perylene	ND	*	654	368	*	ug/Kg		56	52 - 114	1	35
Benzo[k]fluoranthene	85	J F1 B *	654	961	F1 *	ug/Kg		134	58 - 109	1	35
Chrysene	ND	F1	654	717	F1	ug/Kg		110	54 - 108	2	35
Dibenz(a,h)anthracene	ND	*	654	466	*	ug/Kg		71	58 - 112	2	35
Fluoranthene	57	J	654	611		ug/Kg		85	59 - 109	0	35
Fluorene	ND		654	550		ug/Kg		84	52 - 106	2	35
Indeno[1,2,3-cd]pyrene	ND	*	654	437	*	ug/Kg		67	55 - 120	3	35
Naphthalene	ND	F1	654	725	F1	ug/Kg		111	49 - 110	4	35
Phenanthrene	190	J	654	614		ug/Kg		65	57 - 110	4	35
Pyrene	190	J	654	779		ug/Kg		90	50 - 120	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*33 - 120*
Terphenyl-d14	*116*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-259655/1-A
Matrix: Solid
Analysis Batch: 259794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		02/01/19 12:44	02/05/19 13:47	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		02/01/19 12:44	02/05/19 13:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*118*		*40 - 130*	*02/01/19 12:44*	*02/05/19 13:47*	*1*

Lab Sample ID: LCS 720-259655/2-A
Matrix: Solid
Analysis Batch: 259794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	139		mg/Kg		83	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*115*		*40 - 130*

Lab Sample ID: 720-91069-22 MS
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: DUP-31
Prep Type: Total/NA
Prep Batch: 259655

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	38		164	201		mg/Kg		100	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*100*		*40 - 130*

Lab Sample ID: 720-91069-22 MSD
Matrix: Solid
Analysis Batch: 259793

Client Sample ID: DUP-31
Prep Type: Total/NA
Prep Batch: 259655

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	38		164	219		mg/Kg		110	50 - 150	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*106*		*40 - 130*

Lab Sample ID: MB 720-260029/1-A
Matrix: Solid
Analysis Batch: 260186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		02/08/19 09:05	02/12/19 12:07	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		02/08/19 09:05	02/12/19 12:07	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-260029/1-A
Matrix: Solid
Analysis Batch: 260186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260029

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	105		40 - 130	02/08/19 09:05	02/12/19 12:07	1

Lab Sample ID: LCS 720-260029/2-A
Matrix: Solid
Analysis Batch: 260187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260029

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	171		mg/Kg		102	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	127		40 - 130

Lab Sample ID: 720-91218-A-24-G MS
Matrix: Solid
Analysis Batch: 260186

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 260029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	10		165	172		mg/Kg		98	50 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	103		40 - 130

Lab Sample ID: 720-91218-A-24-H MSD
Matrix: Solid
Analysis Batch: 260186

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 260029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	10		162	169		mg/Kg		98	50 - 150	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	93		40 - 130

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-259541/1-A
Matrix: Solid
Analysis Batch: 259778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Aldrin	ND		2.0	0.50	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
alpha-BHC	ND		2.0	0.55	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
beta-BHC	ND		2.0	0.36	ug/Kg		01/31/19 09:29	02/05/19 04:46	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-259541/1-A
Matrix: Solid
Analysis Batch: 259778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		40	3.2	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
delta-BHC	ND		2.0	0.44	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Dieldrin	ND		2.0	0.59	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endosulfan I	ND		2.0	0.32	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endosulfan II	ND		2.0	0.49	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endrin	ND		2.0	0.46	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Endrin ketone	ND		2.0	0.33	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Heptachlor	ND		2.0	0.46	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Methoxychlor	ND		2.0	0.68	ug/Kg		01/31/19 09:29	02/05/19 04:46	1
Toxaphene	ND		40	6.8	ug/Kg		01/31/19 09:29	02/05/19 04:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*21 - 136*	*01/31/19 09:29*	*02/05/19 04:46*	*1*
Tetrachloro-m-xylene	*92*		*21 - 145*	*01/31/19 09:29*	*02/05/19 04:46*	*1*

Lab Sample ID: LCS 720-259541/2-A
Matrix: Solid
Analysis Batch: 259778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	17.4		ug/Kg		104	75 - 128
4,4'-DDE	16.7	16.8		ug/Kg		101	76 - 126
4,4'-DDT	16.7	16.4		ug/Kg		98	63 - 127
Aldrin	16.7	14.5		ug/Kg		87	65 - 120
alpha-BHC	16.7	15.2		ug/Kg		91	46 - 122
alpha-Chlordane	16.7	16.7		ug/Kg		100	70 - 120
beta-BHC	16.7	17.6		ug/Kg		106	78 - 136
delta-BHC	16.7	17.5		ug/Kg		105	43 - 125
Dieldrin	16.7	16.6		ug/Kg		100	72 - 120
Endosulfan I	16.7	16.9		ug/Kg		101	62 - 120
Endosulfan II	16.7	17.7		ug/Kg		106	65 - 120
Endosulfan sulfate	16.7	17.6		ug/Kg		106	72 - 121
Endrin	16.7	17.5		ug/Kg		105	68 - 120
Endrin aldehyde	16.7	19.3		ug/Kg		116	68 - 120
Endrin ketone	16.7	17.8		ug/Kg		107	75 - 136
gamma-BHC (Lindane)	16.7	15.8		ug/Kg		95	72 - 120
gamma-Chlordane	16.7	16.6		ug/Kg		99	68 - 120
Heptachlor	16.7	16.0		ug/Kg		96	69 - 120
Heptachlor epoxide	16.7	16.7		ug/Kg		100	68 - 120
Methoxychlor	16.7	18.2		ug/Kg		109	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*111*		*21 - 136*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-259541/2-A
Matrix: Solid
Analysis Batch: 259778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259541

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*97*		*21 - 145*

Lab Sample ID: 720-91048-E-19-G MS
Matrix: Solid
Analysis Batch: 259779

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.4	14.7		ug/Kg		89	40 - 120
4,4'-DDE	ND		16.4	13.3		ug/Kg		81	40 - 120
4,4'-DDT	ND	F2	16.4	17.2		ug/Kg		105	17 - 144
Aldrin	ND		16.4	12.7		ug/Kg		77	53 - 120
alpha-BHC	ND		16.4	14.1		ug/Kg		86	40 - 120
alpha-Chlordane	ND		16.4	12.9		ug/Kg		79	40 - 120
beta-BHC	ND		16.4	12.9		ug/Kg		78	40 - 120
delta-BHC	ND		16.4	13.0		ug/Kg		79	40 - 120
Dieldrin	ND		16.4	12.4		ug/Kg		76	46 - 130
Endosulfan I	ND	F2	16.4	14.8		ug/Kg		90	40 - 120
Endosulfan II	ND		16.4	16.5		ug/Kg		100	40 - 120
Endosulfan sulfate	ND	F2	16.4	10.3		ug/Kg		63	40 - 120
Endrin	ND	F2	16.4	16.3		ug/Kg		99	32 - 143
Endrin aldehyde	ND	*	16.4	10.0		ug/Kg		61	40 - 120
Endrin ketone	ND		16.4	12.2		ug/Kg		74	40 - 120
gamma-BHC (Lindane)	ND		16.4	13.6		ug/Kg		83	58 - 120
gamma-Chlordane	ND	F2	16.4	16.2		ug/Kg		98	40 - 120
Heptachlor	ND		16.4	14.1		ug/Kg		86	52 - 120
Heptachlor epoxide	ND		16.4	13.6		ug/Kg		83	40 - 120
Methoxychlor	ND		16.4	11.0		ug/Kg		67	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*21 - 136*
Tetrachloro-m-xylene	*92*		*21 - 145*

Lab Sample ID: 720-91048-E-19-H MSD
Matrix: Solid
Analysis Batch: 259779

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.4	14.6		ug/Kg		89	40 - 120	1	20
4,4'-DDE	ND		16.4	11.5		ug/Kg		70	40 - 120	14	20
4,4'-DDT	ND	F2	16.4	13.1	F2	ug/Kg		80	17 - 144	27	20
Aldrin	ND		16.4	12.5		ug/Kg		76	53 - 120	2	20
alpha-BHC	ND		16.4	13.2		ug/Kg		80	40 - 120	7	20
alpha-Chlordane	ND		16.4	13.8		ug/Kg		84	40 - 120	7	20
beta-BHC	ND		16.4	12.4		ug/Kg		76	40 - 120	4	20
delta-BHC	ND		16.4	13.2		ug/Kg		81	40 - 120	2	20
Dieldrin	ND		16.4	10.3	p	ug/Kg		63	46 - 130	18	20
Endosulfan I	ND	F2	16.4	10.9	F2	ug/Kg		66	40 - 120	31	20
Endosulfan II	ND		16.4	13.2		ug/Kg		81	40 - 120	22	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91048-E-19-H MSD
Matrix: Solid
Analysis Batch: 259779

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan sulfate	ND	F2	16.4	7.96	p F2	ug/Kg		49	40 - 120	26	20
Endrin	ND	F2	16.4	12.4	F2	ug/Kg		76	32 - 143	27	20
Endrin aldehyde	ND	*	16.4	8.52		ug/Kg		52	40 - 120	16	20
Endrin ketone	ND		16.4	10.5		ug/Kg		64	40 - 120	15	20
gamma-BHC (Lindane)	ND		16.4	12.6		ug/Kg		77	58 - 120	8	20
gamma-Chlordane	ND	F2	16.4	13.1	F2	ug/Kg		80	40 - 120	21	20
Heptachlor	ND		16.4	13.8		ug/Kg		84	52 - 120	2	20
Heptachlor epoxide	ND		16.4	13.7		ug/Kg		84	40 - 120	1	20
Methoxychlor	ND		16.4	11.5		ug/Kg		70	40 - 120	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*21 - 136*
Tetrachloro-m-xylene	*104*		*21 - 145*

Lab Sample ID: MB 720-259644/1-A
Matrix: Solid
Analysis Batch: 260083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Aldrin	ND		2.0	0.50	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
alpha-BHC	ND		2.0	0.55	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Chlordane (technical)	ND		40	3.2	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
delta-BHC	ND		2.0	0.44	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Dieldrin	ND		2.0	0.59	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Endosulfan II	ND		2.0	0.49	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Endrin	ND		2.0	0.46	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Heptachlor	ND		2.0	0.46	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Methoxychlor	ND		2.0	0.68	ug/Kg		02/01/19 11:12	02/09/19 21:11	1
Toxaphene	ND		40	6.8	ug/Kg		02/01/19 11:12	02/09/19 21:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*21 - 136*	*02/01/19 11:12*	*02/09/19 21:11*	*1*
Tetrachloro-m-xylene	*93*		*21 - 145*	*02/01/19 11:12*	*02/09/19 21:11*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-259644/2-A
Matrix: Solid
Analysis Batch: 260083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	15.0		ug/Kg		90	75 - 128
4,4'-DDE	16.7	14.7		ug/Kg		88	76 - 126
4,4'-DDT	16.7	14.3		ug/Kg		86	63 - 127
Aldrin	16.7	14.4		ug/Kg		86	65 - 120
alpha-BHC	16.7	14.7		ug/Kg		88	46 - 122
alpha-Chlordane	16.7	15.1		ug/Kg		91	70 - 120
beta-BHC	16.7	17.2		ug/Kg		103	78 - 136
delta-BHC	16.7	16.8		ug/Kg		101	43 - 125
Dieldrin	16.7	14.9		ug/Kg		90	72 - 120
Endosulfan I	16.7	15.4		ug/Kg		92	62 - 120
Endosulfan II	16.7	15.9		ug/Kg		95	65 - 120
Endosulfan sulfate	16.7	15.5		ug/Kg		93	72 - 121
Endrin	16.7	15.6		ug/Kg		93	68 - 120
Endrin aldehyde	16.7	15.9		ug/Kg		96	68 - 120
Endrin ketone	16.7	15.8		ug/Kg		95	75 - 136
gamma-BHC (Lindane)	16.7	15.4		ug/Kg		93	72 - 120
gamma-Chlordane	16.7	15.0		ug/Kg		90	68 - 120
Heptachlor	16.7	15.1		ug/Kg		91	69 - 120
Heptachlor epoxide	16.7	15.5		ug/Kg		93	68 - 120
Methoxychlor	16.7	15.9		ug/Kg		96	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*93*		*21 - 136*
Tetrachloro-m-xylene	*92*		*21 - 145*

Lab Sample ID: 720-91069-1 MS
Matrix: Solid
Analysis Batch: 260083

Client Sample ID: DG-AH13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259644

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.5	17.1		ug/Kg		104	40 - 120
4,4'-DDE	ND		16.5	12.5		ug/Kg		76	40 - 120
4,4'-DDT	ND	F1 F2	16.5	3.55	J	ug/Kg		21	17 - 144
Aldrin	ND		16.5	12.5		ug/Kg		76	53 - 120
alpha-BHC	ND		16.5	12.2		ug/Kg		74	40 - 120
alpha-Chlordane	ND		16.5	10.3		ug/Kg		63	40 - 120
beta-BHC	ND	F2	16.5	7.78		ug/Kg		47	40 - 120
delta-BHC	ND		16.5	9.35		ug/Kg		57	40 - 120
Dieldrin	ND		16.5	12.0		ug/Kg		73	46 - 130
Endosulfan I	ND		16.5	12.4		ug/Kg		75	40 - 120
Endosulfan II	ND		16.5	9.43		ug/Kg		57	40 - 120
Endosulfan sulfate	ND	F1	16.5	ND	F1	ug/Kg		0	40 - 120
Endrin	ND		16.5	11.7		ug/Kg		71	32 - 143
Endrin aldehyde	ND	F1	16.5	5.75	F1	ug/Kg		35	40 - 120
Endrin ketone	ND	F1 F2	16.5	6.19	F1	ug/Kg		38	40 - 120
gamma-BHC (Lindane)	ND		16.5	11.5		ug/Kg		70	58 - 120
gamma-Chlordane	ND		16.5	11.2		ug/Kg		68	40 - 120
Heptachlor	ND		16.5	11.4		ug/Kg		69	52 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91069-1 MS
Matrix: Solid
Analysis Batch: 260083

Client Sample ID: DG-AH13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259644

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	ND		16.5	12.1		ug/Kg		73	40 - 120
Methoxychlor	ND	F1	16.5	3.85	J F1	ug/Kg		23	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*	*p*	*21 - 136*
Tetrachloro-m-xylene	*96*		*21 - 145*

Lab Sample ID: 720-91069-1 MSD
Matrix: Solid
Analysis Batch: 260083

Client Sample ID: DG-AH13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259644

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.5	15.1		ug/Kg		92	40 - 120	13	20
4,4'-DDE	ND		16.5	12.0		ug/Kg		73	40 - 120	4	20
4,4'-DDT	ND	F1 F2	16.5	2.06	J p F1 F2	ug/Kg		12	17 - 144	53	20
Aldrin	ND		16.5	13.3		ug/Kg		80	53 - 120	6	20
alpha-BHC	ND		16.5	13.3		ug/Kg		81	40 - 120	9	20
alpha-Chlordane	ND		16.5	10.9		ug/Kg		66	40 - 120	5	20
beta-BHC	ND	F2	16.5	10.8	F2	ug/Kg		66	40 - 120	33	20
delta-BHC	ND		16.5	10.9		ug/Kg		66	40 - 120	15	20
Dieldrin	ND		16.5	12.2		ug/Kg		74	46 - 130	2	20
Endosulfan I	ND		16.5	12.9		ug/Kg		79	40 - 120	5	20
Endosulfan II	ND		16.5	12.2		ug/Kg		74	40 - 120	26	30
Endosulfan sulfate	ND	F1	16.5	8.83		ug/Kg		54	40 - 120	NC	20
Endrin	ND		16.5	11.5		ug/Kg		70	32 - 143	2	20
Endrin aldehyde	ND	F1	16.5	6.65		ug/Kg		40	40 - 120	14	20
Endrin ketone	ND	F1 F2	16.5	6.96	p	ug/Kg		42	40 - 120	12	20
gamma-BHC (Lindane)	ND		16.5	11.7		ug/Kg		71	58 - 120	2	20
gamma-Chlordane	ND		16.5	12.5		ug/Kg		76	40 - 120	11	20
Heptachlor	ND		16.5	10.6		ug/Kg		64	52 - 120	8	20
Heptachlor epoxide	ND		16.5	11.8		ug/Kg		71	40 - 120	3	20
Methoxychlor	ND	F1	16.5	4.30	F1	ug/Kg		26	40 - 120	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*21 - 136*
Tetrachloro-m-xylene	*93*		*21 - 145*

Lab Sample ID: MB 720-259684/1-A
Matrix: Solid
Analysis Batch: 259940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Aldrin	ND		2.0	0.50	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
alpha-BHC	ND		2.0	0.55	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		02/01/19 15:48	02/07/19 15:10	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-259684/1-A
Matrix: Solid
Analysis Batch: 259940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		2.0	0.36	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Chlordane (technical)	ND		40	3.2	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
delta-BHC	ND		2.0	0.44	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Dieldrin	ND		2.0	0.59	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Endosulfan II	ND		2.0	0.49	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Endrin	ND		2.0	0.46	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Heptachlor	ND		2.0	0.46	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Methoxychlor	ND		2.0	0.68	ug/Kg		02/01/19 15:48	02/07/19 15:10	1
Toxaphene	ND		40	6.8	ug/Kg		02/01/19 15:48	02/07/19 15:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*21 - 136*	*02/01/19 15:48*	*02/07/19 15:10*	*1*
Tetrachloro-m-xylene	*91*		*21 - 145*	*02/01/19 15:48*	*02/07/19 15:10*	*1*

Lab Sample ID: LCS 720-259684/2-A
Matrix: Solid
Analysis Batch: 259940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	17.7		ug/Kg		106	75 - 128
4,4'-DDE	16.7	17.3		ug/Kg		104	76 - 126
4,4'-DDT	16.7	17.3		ug/Kg		104	63 - 127
Aldrin	16.7	15.9		ug/Kg		95	65 - 120
alpha-BHC	16.7	15.5		ug/Kg		93	46 - 122
alpha-Chlordane	16.7	17.1		ug/Kg		102	70 - 120
beta-BHC	16.7	18.1		ug/Kg		109	78 - 136
delta-BHC	16.7	17.5		ug/Kg		105	43 - 125
Dieldrin	16.7	17.2		ug/Kg		103	72 - 120
Endosulfan I	16.7	17.4		ug/Kg		104	62 - 120
Endosulfan II	16.7	18.5		ug/Kg		111	65 - 120
Endosulfan sulfate	16.7	18.3		ug/Kg		110	72 - 121
Endrin	16.7	18.0		ug/Kg		108	68 - 120
Endrin aldehyde	16.7	18.9		ug/Kg		113	68 - 120
Endrin ketone	16.7	18.0		ug/Kg		108	75 - 136
gamma-BHC (Lindane)	16.7	16.1		ug/Kg		97	72 - 120
gamma-Chlordane	16.7	16.9		ug/Kg		101	68 - 120
Heptachlor	16.7	16.4		ug/Kg		98	69 - 120
Heptachlor epoxide	16.7	17.0		ug/Kg		102	68 - 120
Methoxychlor	16.7	19.2		ug/Kg		115	71 - 132

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-259684/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259940 **Prep Batch: 259684**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	115		21 - 136
Tetrachloro-m-xylene	94		21 - 145

Lab Sample ID: 720-91069-24 MS **Client Sample ID: DUP-75**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259940 **Prep Batch: 259684**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		16.5	14.7		ug/Kg		89	40 - 120
4,4'-DDE	ND		16.5	13.5		ug/Kg		82	40 - 120
4,4'-DDT	ND		16.5	8.30		ug/Kg		50	17 - 144
Aldrin	ND		16.5	13.9		ug/Kg		84	53 - 120
alpha-BHC	ND		16.5	15.4		ug/Kg		94	40 - 120
alpha-Chlordane	ND		16.5	14.0		ug/Kg		85	40 - 120
beta-BHC	ND		16.5	15.4		ug/Kg		93	40 - 120
delta-BHC	ND		16.5	15.9		ug/Kg		97	40 - 120
Dieldrin	ND		16.5	13.8		ug/Kg		83	46 - 130
Endosulfan I	ND		16.5	14.3		ug/Kg		86	40 - 120
Endosulfan II	ND		16.5	13.6		ug/Kg		82	40 - 120
Endosulfan sulfate	ND		16.5	12.7		ug/Kg		77	40 - 120
Endrin	ND		16.5	14.3		ug/Kg		86	32 - 143
Endrin aldehyde	ND		16.5	10.9		ug/Kg		66	40 - 120
Endrin ketone	ND		16.5	11.1		ug/Kg		68	40 - 120
gamma-BHC (Lindane)	ND	F2	16.5	15.3		ug/Kg		93	58 - 120
gamma-Chlordane	ND		16.5	14.4		ug/Kg		87	40 - 120
Heptachlor	ND		16.5	14.2		ug/Kg		86	52 - 120
Heptachlor epoxide	ND		16.5	14.3		ug/Kg		87	40 - 120
Methoxychlor	ND		16.5	8.89		ug/Kg		54	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	65		21 - 136
Tetrachloro-m-xylene	98		21 - 145

Lab Sample ID: 720-91069-24 MSD **Client Sample ID: DUP-75**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259940 **Prep Batch: 259684**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.5	13.2		ug/Kg		80	40 - 120	11	20
4,4'-DDE	ND		16.5	12.0		ug/Kg		73	40 - 120	11	20
4,4'-DDT	ND		16.5	7.91		ug/Kg		48	17 - 144	5	20
Aldrin	ND		16.5	12.4		ug/Kg		75	53 - 120	11	20
alpha-BHC	ND		16.5	14.1		ug/Kg		86	40 - 120	9	20
alpha-Chlordane	ND		16.5	12.6		ug/Kg		76	40 - 120	10	20
beta-BHC	ND		16.5	14.5		ug/Kg		88	40 - 120	6	20
delta-BHC	ND		16.5	14.3		ug/Kg		86	40 - 120	11	20
Dieldrin	ND		16.5	12.4		ug/Kg		75	46 - 130	11	20
Endosulfan I	ND		16.5	12.7		ug/Kg		77	40 - 120	11	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91069-24 MSD **Client Sample ID: DUP-75**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259940 **Prep Batch: 259684**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan II	ND		16.5	11.7		ug/Kg		71	40 - 120	15	30
Endosulfan sulfate	ND		16.5	11.7		ug/Kg		71	40 - 120	8	20
Endrin	ND		16.5	12.7		ug/Kg		77	32 - 143	12	20
Endrin aldehyde	ND		16.5	10.2		ug/Kg		62	40 - 120	7	20
Endrin ketone	ND		16.5	10.5		ug/Kg		64	40 - 120	6	20
gamma-BHC (Lindane)	ND	F2	16.5	13.6		ug/Kg		82	58 - 120	12	20
gamma-Chlordane	ND		16.5	12.3		ug/Kg		75	40 - 120	15	20
Heptachlor	ND		16.5	12.8		ug/Kg		77	52 - 120	10	20
Heptachlor epoxide	ND		16.5	12.8		ug/Kg		78	40 - 120	11	20
Methoxychlor	ND		16.5	8.40		ug/Kg		51	40 - 120	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*21 - 136*
Tetrachloro-m-xylene	*88*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-526661/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526901 **Prep Batch: 526661**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 16:16	1
Aroclor 1221	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 16:16	1
Aroclor 1232	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 16:16	1
Aroclor 1242	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 16:16	1
Aroclor 1248	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 16:16	1
Aroclor 1254	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 16:16	1
Aroclor 1260	ND		50	17	ug/Kg		02/04/19 13:17	02/05/19 16:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*	*02/04/19 13:17*	*02/05/19 16:16*	*1*

Lab Sample ID: LCS 440-526661/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 526901 **Prep Batch: 526661**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	217		ug/Kg		81	65 - 115		
Aroclor 1260			267	244		ug/Kg		92	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-91069-1 MS — **Client Sample ID: DG-AH13S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526901 — **Prep Batch: 526661**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND	F1	267	131	F1	ug/Kg		49	50 - 120
Aroclor 1260	ND	F1	267	134		ug/Kg		50	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*

Lab Sample ID: 720-91069-1 MSD — **Client Sample ID: DG-AH13S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526901 — **Prep Batch: 526661**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	F1	266	102	F1	ug/Kg		39	50 - 120	25	30
Aroclor 1260	ND	F1	266	105	F1	ug/Kg		40	50 - 125	24	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*38*	*X*	*45 - 120*

Lab Sample ID: MB 440-526869/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527127 — **Prep Batch: 526869**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*02/05/19 13:19*	*02/06/19 16:10*	*1*

Lab Sample ID: LCS 440-526869/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527127 — **Prep Batch: 526869**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	239		ug/Kg		90	65 - 115
Aroclor 1260	267	267		ug/Kg		100	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-91089-E-9-I MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527127 — **Prep Batch: 526869**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	200		ug/Kg		75	50 - 120
Aroclor 1260	22	J	266	228		ug/Kg		77	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*

Lab Sample ID: 720-91089-E-9-J MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527127 — **Prep Batch: 526869**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		263	166		ug/Kg		63	50 - 120	19	30
Aroclor 1260	22	J	263	180		ug/Kg		60	50 - 125	23	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259462/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259700 — **Prep Batch: 259462**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Arsenic	ND		1.0	0.085	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Barium	ND		0.50	0.071	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Beryllium	ND		0.10	0.033	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Cadmium	ND		0.13	0.012	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Chromium	ND		0.50	0.053	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Cobalt	ND		0.20	0.020	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Copper	ND		1.5	0.71	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Lead	ND		0.50	0.11	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Nickel	ND		0.50	0.051	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Selenium	ND		1.0	0.15	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Silver	ND		0.25	0.051	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Vanadium	ND		0.50	0.068	mg/Kg		01/31/19 09:30	02/01/19 17:16	1
Zinc	ND		1.5	0.64	mg/Kg		01/31/19 09:30	02/01/19 17:16	1

Lab Sample ID: MB 720-259462/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 261796 — **Prep Batch: 259462**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.15	mg/Kg		01/31/19 09:30	03/12/19 09:59	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259462/2-A
Matrix: Solid
Analysis Batch: 259700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.6		mg/Kg		99	80 - 120
Arsenic	50.0	50.4		mg/Kg		101	80 - 120
Barium	50.0	51.0		mg/Kg		102	80 - 120
Beryllium	50.0	47.6		mg/Kg		95	80 - 120
Cadmium	50.0	51.7		mg/Kg		103	80 - 120
Chromium	50.0	49.9		mg/Kg		100	80 - 120
Cobalt	50.0	52.4		mg/Kg		105	80 - 120
Copper	50.0	50.3		mg/Kg		101	80 - 120
Lead	50.0	53.8		mg/Kg		108	80 - 120
Molybdenum	50.0	51.2		mg/Kg		102	80 - 120
Nickel	50.0	54.3		mg/Kg		109	80 - 120
Selenium	50.0	51.5		mg/Kg		103	80 - 120
Silver	25.0	25.0		mg/Kg		100	80 - 120
Vanadium	50.0	50.6		mg/Kg		101	80 - 120
Zinc	50.0	53.0		mg/Kg		106	80 - 120

Lab Sample ID: LCS 720-259462/2-A
Matrix: Solid
Analysis Batch: 261796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	49.6		mg/Kg		99	80 - 120

Lab Sample ID: 720-91069-4 MS
Matrix: Solid
Analysis Batch: 259700

Client Sample ID: DG-AJ13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.50	J F1	46.3	10.3	F1	mg/Kg		21	75 - 125
Arsenic	190	F1	46.3	286	4	mg/Kg		214	75 - 125
Barium	44	F1	46.3	104	F1	mg/Kg		130	75 - 125
Beryllium	ND		46.3	46.5		mg/Kg		100	75 - 125
Cadmium	0.21	J	46.3	47.8		mg/Kg		103	75 - 125
Chromium	10		46.3	57.5		mg/Kg		102	75 - 125
Cobalt	11		46.3	59.0		mg/Kg		104	75 - 125
Copper	81	F1	46.3	140	F1	mg/Kg		128	75 - 125
Lead	83	F1	46.3	107	F1	mg/Kg		52	75 - 125
Molybdenum	ND		46.3	44.4		mg/Kg		96	75 - 125
Nickel	15		46.3	64.0		mg/Kg		106	75 - 125
Selenium	0.70	J	46.3	49.1		mg/Kg		104	75 - 125
Silver	0.63	J	23.1	24.1		mg/Kg		101	75 - 125
Vanadium	68	F1	46.3	127	F1	mg/Kg		126	75 - 125
Zinc	70	F1	46.3	142	F1	mg/Kg		154	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91069-4 MS
Matrix: Solid
Analysis Batch: 261796

Client Sample ID: DG-AJ13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		46.3	43.1		mg/Kg		93	75 - 125

Lab Sample ID: 720-91069-4 MSD
Matrix: Solid
Analysis Batch: 259700

Client Sample ID: DG-AJ13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.50	J F1	47.2	11.1	F1	mg/Kg		23	75 - 125	8	20
Arsenic	190	F1	47.2	323	F1	mg/Kg		288	75 - 125	12	20
Barium	44	F1	47.2	106	F1	mg/Kg		131	75 - 125	2	20
Beryllium	ND		47.2	45.7		mg/Kg		97	75 - 125	2	20
Cadmium	0.21	J	47.2	47.4		mg/Kg		100	75 - 125	1	20
Chromium	10		47.2	58.7		mg/Kg		102	75 - 125	2	20
Cobalt	11		47.2	57.6		mg/Kg		99	75 - 125	2	20
Copper	81	F1	47.2	127		mg/Kg		99	75 - 125	9	20
Lead	83	F1	47.2	102	F1	mg/Kg		40	75 - 125	5	20
Molybdenum	ND		47.2	43.9		mg/Kg		93	75 - 125	1	20
Nickel	15		47.2	64.7		mg/Kg		106	75 - 125	1	20
Selenium	0.70	J	47.2	48.3		mg/Kg		101	75 - 125	2	20
Silver	0.63	J	23.6	24.0		mg/Kg		99	75 - 125	0	20
Vanadium	68	F1	47.2	121		mg/Kg		113	75 - 125	4	20
Zinc	70	F1	47.2	131	F1	mg/Kg		128	75 - 125	8	20

Lab Sample ID: 720-91069-4 MSD
Matrix: Solid
Analysis Batch: 261796

Client Sample ID: DG-AJ13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		47.2	45.7		mg/Kg		97	75 - 125	6	20

Lab Sample ID: MB 720-259477/1-A
Matrix: Solid
Analysis Batch: 260152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Arsenic	ND		1.0	0.085	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Barium	ND		0.50	0.071	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Beryllium	ND		0.10	0.033	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Cadmium	ND		0.13	0.012	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Chromium	ND		0.50	0.053	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Cobalt	ND		0.20	0.020	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Copper	ND		1.5	0.71	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Lead	ND		0.50	0.11	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Nickel	ND		0.50	0.051	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Selenium	ND		1.0	0.15	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Silver	ND		0.25	0.051	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Thallium	ND		0.50	0.15	mg/Kg		01/30/19 11:00	02/11/19 14:32	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259477/1-A
Matrix: Solid
Analysis Batch: 260152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.50	0.068	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Zinc	ND		1.5	0.64	mg/Kg		01/30/19 11:00	02/11/19 14:32	1

Lab Sample ID: MB 720-259477/1-A
Matrix: Solid
Analysis Batch: 261797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		2.0	0.58	mg/Kg		01/30/19 11:00	03/12/19 10:42	4

Lab Sample ID: LCS 720-259477/2-A
Matrix: Solid
Analysis Batch: 260051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.5		mg/Kg		103	80 - 120
Arsenic	50.0	51.1		mg/Kg		102	80 - 120
Barium	50.0	51.1		mg/Kg		102	80 - 120
Beryllium	50.0	52.0		mg/Kg		104	80 - 120
Cadmium	50.0	52.3		mg/Kg		105	80 - 120
Chromium	50.0	52.5		mg/Kg		105	80 - 120
Cobalt	50.0	53.5		mg/Kg		107	80 - 120
Copper	50.0	52.4		mg/Kg		105	80 - 120
Lead	50.0	53.8		mg/Kg		108	80 - 120
Molybdenum	50.0	52.1		mg/Kg		104	80 - 120
Nickel	50.0	52.7		mg/Kg		105	80 - 120
Selenium	50.0	50.8		mg/Kg		102	80 - 120
Silver	25.0	25.7		mg/Kg		103	80 - 120
Vanadium	50.0	52.1		mg/Kg		104	80 - 120
Zinc	50.0	51.9		mg/Kg		104	80 - 120

Lab Sample ID: LCS 720-259477/2-A
Matrix: Solid
Analysis Batch: 261797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	52.1		mg/Kg		104	80 - 120

Lab Sample ID: 720-91070-A-17-A MS
Matrix: Solid
Analysis Batch: 260051

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	12	F1	34.7	10.1	F1	mg/Kg		-5	75 - 125
Arsenic	5.5	J	34.7	35.3		mg/Kg		86	75 - 125
Barium	760	F2	34.7	289	4	mg/Kg		-1369	75 - 125
Beryllium	ND		34.7	35.6		mg/Kg		103	75 - 125
Cadmium	4.4		34.7	35.9		mg/Kg		91	75 - 125
Chromium	54	F1	34.7	49.9	F1	mg/Kg		-11	75 - 125
Cobalt	35	F1	34.7	42.6	F1	mg/Kg		21	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91070-A-17-A MS
Matrix: Solid
Analysis Batch: 260051

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	700	F2	34.7	220	4	mg/Kg		-1369	75 - 125
Lead	1300	F2	34.7	385	4	mg/Kg		-2679	75 - 125
Molybdenum	1.2	J	34.7	32.3		mg/Kg		90	75 - 125
Nickel	30	F1	34.7	46.5	F1	mg/Kg		47	75 - 125
Selenium	ND		34.7	33.8		mg/Kg		97	75 - 125
Silver	2.0	J	17.4	17.8		mg/Kg		91	75 - 125
Vanadium	280		34.7	91.3	4	mg/Kg		-538	75 - 125
Zinc	980	F2	34.7	328	4	mg/Kg		-1882	75 - 125

Lab Sample ID: 720-91070-A-17-A MS
Matrix: Solid
Analysis Batch: 261797

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		34.7	27.0		mg/Kg		78	75 - 125

Lab Sample ID: 720-91070-A-17-B MSD
Matrix: Solid
Analysis Batch: 260051

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	12	F1	34.2	12.4	F1	mg/Kg		2	75 - 125	20	20
Arsenic	5.5	J	34.2	35.9		mg/Kg		89	75 - 125	2	20
Barium	760	F2	34.2	187	4 F2	mg/Kg		-1685	75 - 125	43	20
Beryllium	ND		34.2	36.7		mg/Kg		107	75 - 125	3	20
Cadmium	4.4		34.2	35.9		mg/Kg		92	75 - 125	0	20
Chromium	54	F1	34.2	45.5	F1	mg/Kg		-24	75 - 125	9	20
Cobalt	35	F1	34.2	41.6	F1	mg/Kg		18	75 - 125	2	20
Copper	700	F2	34.2	272	4 F2	mg/Kg		-1236	75 - 125	21	20
Lead	1300	F2	34.2	279	4 F2	mg/Kg		-3027	75 - 125	32	20
Molybdenum	1.2	J	34.2	33.1		mg/Kg		93	75 - 125	3	20
Nickel	30	F1	34.2	40.8	F1	mg/Kg		31	75 - 125	13	20
Selenium	ND		34.2	34.4		mg/Kg		101	75 - 125	2	20
Silver	2.0	J	17.1	17.8		mg/Kg		92	75 - 125	0	20
Vanadium	280		34.2	79.1	4	mg/Kg		-582	75 - 125	14	20
Zinc	980	F2	34.2	248	4 F2	mg/Kg		-2144	75 - 125	28	20

Lab Sample ID: 720-91070-A-17-B MSD
Matrix: Solid
Analysis Batch: 261797

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		34.2	28.9		mg/Kg		84	75 - 125	7	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259463/1-A
Matrix: Solid
Analysis Batch: 260218
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/11/19 17:38	02/12/19 11:26	1

Lab Sample ID: LCS 720-259463/2-A
Matrix: Solid
Analysis Batch: 260218
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.858		mg/Kg		103	80 - 120

Lab Sample ID: 720-91069-4 MS
Matrix: Solid
Analysis Batch: 260218
Client Sample ID: DG-AJ13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.046		0.725	0.867		mg/Kg		113	75 - 125

Lab Sample ID: 720-91069-4 MSD
Matrix: Solid
Analysis Batch: 260218
Client Sample ID: DG-AJ13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.046		0.735	0.876		mg/Kg		113	75 - 125	1	20

Lab Sample ID: MB 720-259478/1-A
Matrix: Solid
Analysis Batch: 260224
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/11/19 17:38	02/12/19 12:44	1

Lab Sample ID: LCS 720-259478/2-A
Matrix: Solid
Analysis Batch: 260224
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.864		mg/Kg		104	80 - 120

Lab Sample ID: 720-91070-A-17-D MS
Matrix: Solid
Analysis Batch: 260224
Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259478

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.26		0.820	1.01		mg/Kg		91	75 - 125

Lab Sample ID: 720-91070-A-17-E MSD
Matrix: Solid
Analysis Batch: 260224
Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259478

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.26		0.806	1.04		mg/Kg		96	75 - 125	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91048-E-20 DU **Client Sample ID: Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259498

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.8			15.0		%				1	20

Lab Sample ID: 720-91069-10 DU **Client Sample ID: DG-AC11S-8.5-9**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259536

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.9			13.2		%				5	20

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Prep Batch: 526206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	5035	
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	5035	
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	5035	

Prep Batch: 526365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	5035	
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	5035	
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	5035	
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	5035	
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	5035	
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	5035	
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	5035	
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	5035	
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	5035	
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	5035	
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	5035	
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	5035	
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	5035	
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	5035	
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	5035	
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	5035	
720-91069-22	DUP-31	Total/NA	Solid	5035	
720-91069-23	DUP-29	Total/NA	Solid	5035	
720-91069-24	DUP-75	Total/NA	Solid	5035	
720-91089-A-9-A MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
720-91089-A-9-B MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 526749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	8260B	526365
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	8260B	526365
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	8260B	526365
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	8260B	526365
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	8260B	526365
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	8260B	526365
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	8260B	526365
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	8260B	526365
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	8260B	526365
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	8260B	526365
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	8260B	526365
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	8260B	526365
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	8260B	526365
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	8260B	526365
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	8260B	526365
MB 440-526749/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-526749/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526749/9	Lab Control Sample Dup	Total/NA	Solid	8260B	

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Analysis Batch: 526750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
MB 440-526750/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526750/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-526750/10	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 526919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	8260B	526365
720-91069-22	DUP-31	Total/NA	Solid	8260B	526365
720-91069-23	DUP-29	Total/NA	Solid	8260B	526365
720-91069-24	DUP-75	Total/NA	Solid	8260B	526365
MB 440-526919/7	Method Blank	Total/NA	Solid	8260B	
LCS 440-526919/8	Lab Control Sample	Total/NA	Solid	8260B	
440-231210-A-2 MS	Matrix Spike	Total/NA	Solid	8260B	
440-231210-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 526921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-22	DUP-31	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91069-23	DUP-29	Total/NA	Solid	8260B/CA_LUFT MS	526365

GC/MS VOA (Continued)

Analysis Batch: 526921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-24	DUP-75	Total/NA	Solid	8260B/CA_LUFT MS	526365
MB 440-526921/7	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526921/11	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-231210-A-2 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-231210-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 526931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	8260B	526955
MB 440-526931/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526931/27	Lab Control Sample	Total/NA	Solid	8260B	
720-91089-A-9-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	526365
720-91089-A-9-B MS	Matrix Spike	Total/NA	Solid	8260B	526365

Analysis Batch: 526932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526955
MB 440-526932/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526932/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-91089-A-9-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-A-9-B MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	526365

Prep Batch: 526955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 526986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-20 - RA	DG-AB5S-3.5-4	Total/NA	Solid	8260B	527129
720-91069-22 - RA	DUP-31	Total/NA	Solid	8260B	527129
720-91069-23 - RA	DUP-29	Total/NA	Solid	8260B	527129
720-91069-24 - RA	DUP-75	Total/NA	Solid	8260B	527129
MB 440-526986/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-526986/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526986/13	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 527129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-20 - RA	DG-AB5S-3.5-4	Total/NA	Solid	5035	
720-91069-22 - RA	DUP-31	Total/NA	Solid	5035	
720-91069-23 - RA	DUP-29	Total/NA	Solid	5035	
720-91069-24 - RA	DUP-75	Total/NA	Solid	5035	

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Analysis Batch: 527268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	8260B	526206
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	8260B	526206
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	8260B	526206
MB 440-527268/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-527268/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-527268/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 527269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	526206
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526206
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526206
MB 440-527269/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-527269/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-527269/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 527777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-21	FB-01.29.19	Total/NA	Water	8260B	
720-91069-25	TB-01.29-19	Total/NA	Water	8260B	
MB 440-527777/5	Method Blank	Total/NA	Water	8260B	
LCS 440-527777/6	Lab Control Sample	Total/NA	Water	8260B	
440-232121-C-2 MS	Matrix Spike	Total/NA	Water	8260B	
440-232121-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 527778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-21	FB-01.29.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91069-25	TB-01.29-19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-527778/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-527778/29	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-232121-C-2 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-232121-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 259639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	3546	
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	3546	
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	3546	
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 259639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	3546	
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	3546	
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	3546	
MB 720-259639/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259639/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91016-A-16-G MS	Matrix Spike	Total/NA	Solid	3546	
720-91016-A-16-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 259667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	3546	
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	3546	
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	3546	
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	3546	
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	3546	
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	3546	
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	3546	
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	3546	
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	3546	
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	3546	
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	3546	
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	3546	
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	3546	
720-91069-22	DUP-31	Total/NA	Solid	3546	
720-91069-23	DUP-29	Total/NA	Solid	3546	
720-91069-24	DUP-75	Total/NA	Solid	3546	
MB 720-259667/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259667/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91069-8 MS	DG-AC11S-0.5-1	Total/NA	Solid	3546	
720-91069-8 MSD	DG-AC11S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 259858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259639/1-A	Method Blank	Total/NA	Solid	8270C SIM	259639
LCS 720-259639/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259639

Analysis Batch: 259941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91016-A-16-G MS	Matrix Spike	Total/NA	Solid	8270C SIM	259639
720-91016-A-16-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	259639

Analysis Batch: 260053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-259667/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259667

Analysis Batch: 260088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	8270C SIM	259667

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Analysis Batch: 260119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	8270C SIM	259667
MB 720-259667/1-A	Method Blank	Total/NA	Solid	8270C SIM	259667
720-91069-8 MS	DG-AC11S-0.5-1	Total/NA	Solid	8270C SIM	259667
720-91069-8 MSD	DG-AC11S-0.5-1	Total/NA	Solid	8270C SIM	259667

Analysis Batch: 260175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	8270C SIM	259639
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	8270C SIM	259667
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	8270C SIM	259667
720-91069-24	DUP-75	Total/NA	Solid	8270C SIM	259667

Analysis Batch: 260198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	8270C SIM	259639
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	8270C SIM	259639
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	8270C SIM	259639
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	8270C SIM	259667
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	8270C SIM	259667
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	8270C SIM	259667
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	8270C SIM	259667
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	8270C SIM	259667
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	8270C SIM	259667
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	8270C SIM	259667
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	8270C SIM	259667
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	8270C SIM	259667
720-91069-22	DUP-31	Total/NA	Solid	8270C SIM	259667
720-91069-23	DUP-29	Total/NA	Solid	8270C SIM	259667

Analysis Batch: 260252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	8270C SIM	259639
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	8270C SIM	259639
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	8270C SIM	259639

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Prep Batch: 259541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-22	DUP-31	Total/NA	Solid	3546	
MB 720-259541/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259541/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91048-E-19-G MS	Matrix Spike	Total/NA	Solid	3546	
720-91048-E-19-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 259644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	3546	
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	3546	
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	3546	
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 259644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	3546	
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	3546	
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	3546	
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	3546	
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	3546	
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	3546	
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	3546	
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	3546	
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	3546	
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	3546	
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	3546	
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	3546	
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	3546	
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	3546	
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	3546	
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	3546	
MB 720-259644/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259644/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91069-1 MS	DG-AH13S-0.5-1	Total/NA	Solid	3546	
720-91069-1 MSD	DG-AH13S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 259655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	3546	
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	3546	
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	3546	
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	3546	
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	3546	
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	3546	
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	3546	
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	3546	
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	3546	
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	3546	
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	3546	
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	3546	
720-91069-22	DUP-31	Total/NA	Solid	3546	
MB 720-259655/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259655/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91069-22 MS	DUP-31	Total/NA	Solid	3546	
720-91069-22 MSD	DUP-31	Total/NA	Solid	3546	

Prep Batch: 259684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-23	DUP-29	Total/NA	Solid	3546	
720-91069-24	DUP-75	Total/NA	Solid	3546	
MB 720-259684/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259684/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91069-24 MS	DUP-75	Total/NA	Solid	3546	
720-91069-24 MSD	DUP-75	Total/NA	Solid	3546	

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Analysis Batch: 259778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259541/1-A	Method Blank	Total/NA	Solid	8081A	259541
LCS 720-259541/2-A	Lab Control Sample	Total/NA	Solid	8081A	259541

Analysis Batch: 259779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91048-E-19-G MS	Matrix Spike	Total/NA	Solid	8081A	259541
720-91048-E-19-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	259541

Analysis Batch: 259793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-22	DUP-31	Total/NA	Solid	8015B	259655
720-91069-22 MS	DUP-31	Total/NA	Solid	8015B	259655
720-91069-22 MSD	DUP-31	Total/NA	Solid	8015B	259655

Analysis Batch: 259794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259655/1-A	Method Blank	Total/NA	Solid	8015B	259655
LCS 720-259655/2-A	Lab Control Sample	Total/NA	Solid	8015B	259655

Analysis Batch: 259940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-23	DUP-29	Total/NA	Solid	8081A	259684
720-91069-24	DUP-75	Total/NA	Solid	8081A	259684
MB 720-259684/1-A	Method Blank	Total/NA	Solid	8081A	259684
LCS 720-259684/2-A	Lab Control Sample	Total/NA	Solid	8081A	259684
720-91069-24 MS	DUP-75	Total/NA	Solid	8081A	259684
720-91069-24 MSD	DUP-75	Total/NA	Solid	8081A	259684

Analysis Batch: 260007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-22	DUP-31	Total/NA	Solid	8081A	259541

Prep Batch: 260029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	3546	
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	3546	
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	3546	
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	3546	
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	3546	
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	3546	
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	3546	
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	3546	
720-91069-23	DUP-29	Total/NA	Solid	3546	
720-91069-24	DUP-75	Total/NA	Solid	3546	
MB 720-260029/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-260029/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91218-A-24-G MS	Matrix Spike	Total/NA	Solid	3546	
720-91218-A-24-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

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Analysis Batch: 260083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	8081A	259644
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	8081A	259644
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	8081A	259644
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	8081A	259644
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	8081A	259644
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	8081A	259644
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	8081A	259644
MB 720-259644/1-A	Method Blank	Total/NA	Solid	8081A	259644
LCS 720-259644/2-A	Lab Control Sample	Total/NA	Solid	8081A	259644
720-91069-1 MS	DG-AH13S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-1 MSD	DG-AH13S-0.5-1	Total/NA	Solid	8081A	259644

Analysis Batch: 260084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	8081A	259644
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	8081A	259644
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	8081A	259644
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	8081A	259644
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	8081A	259644

Analysis Batch: 260086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	8015B	259655
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	8015B	259655
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	8015B	259655
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	8015B	259655
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	8015B	259655
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	8015B	259655

Analysis Batch: 260115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	8015B	259655
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	8015B	259655
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	8015B	259655
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	8015B	259655
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	8015B	259655

Analysis Batch: 260116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	8015B	259655

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Analysis Batch: 260186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	8015B	260029
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	8015B	260029
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	8015B	260029
MB 720-260029/1-A	Method Blank	Total/NA	Solid	8015B	260029
720-91218-A-24-G MS	Matrix Spike	Total/NA	Solid	8015B	260029
720-91218-A-24-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	260029

Analysis Batch: 260187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	8015B	260029
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	8015B	260029
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	8015B	260029
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	8015B	260029
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	8015B	260029
720-91069-23	DUP-29	Total/NA	Solid	8015B	260029
720-91069-24	DUP-75	Total/NA	Solid	8015B	260029
LCS 720-260029/2-A	Lab Control Sample	Total/NA	Solid	8015B	260029

Prep Batch: 526661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	3546	
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	3546	
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	3546	
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	3546	
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	3546	
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	3546	
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	3546	
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	3546	
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	3546	
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	3546	
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	3546	
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	3546	
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	3546	
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	3546	
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	3546	
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	3546	
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	3546	
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	3546	
MB 440-526661/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526661/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91069-1 MS	DG-AH13S-0.5-1	Total/NA	Solid	3546	
720-91069-1 MSD	DG-AH13S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 526869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	3546	
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	3546	
720-91069-22	DUP-31	Total/NA	Solid	3546	
720-91069-23	DUP-29	Total/NA	Solid	3546	
720-91069-24	DUP-75	Total/NA	Solid	3546	
MB 440-526869/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 526869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-526869/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91089-E-9-I MS	Matrix Spike	Total/NA	Solid	3546	
720-91089-E-9-J MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 526901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	8082	526661
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	8082	526661
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	8082	526661
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	8082	526661
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	8082	526661
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	8082	526661
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	8082	526661
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	8082	526661
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	8082	526661
MB 440-526661/1-A	Method Blank	Total/NA	Solid	8082	526661
LCS 440-526661/2-A	Lab Control Sample	Total/NA	Solid	8082	526661
720-91069-1 MS	DG-AH13S-0.5-1	Total/NA	Solid	8082	526661
720-91069-1 MSD	DG-AH13S-0.5-1	Total/NA	Solid	8082	526661

Analysis Batch: 527127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	8082	526869
720-91069-22	DUP-31	Total/NA	Solid	8082	526869
720-91069-23	DUP-29	Total/NA	Solid	8082	526869
720-91069-24	DUP-75	Total/NA	Solid	8082	526869
MB 440-526869/1-A	Method Blank	Total/NA	Solid	8082	526869
LCS 440-526869/2-A	Lab Control Sample	Total/NA	Solid	8082	526869
720-91089-E-9-I MS	Matrix Spike	Total/NA	Solid	8082	526869
720-91089-E-9-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	526869

Analysis Batch: 527199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	8082	526661
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	8082	526661
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	8082	526661
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	8082	526661
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	8082	526661
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	8082	526661
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	8082	526661
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	8082	526661
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	8082	526661

Analysis Batch: 527620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	8082	526869

Metals

Prep Batch: 259462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	3050B	
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	3050B	
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	3050B	
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	3050B	
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	3050B	
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	3050B	
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	3050B	
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	3050B	
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	3050B	
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	3050B	
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	3050B	
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	3050B	
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	3050B	
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	3050B	
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	3050B	
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	3050B	
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	3050B	
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	3050B	
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	3050B	
MB 720-259462/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259462/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91069-4 MS	DG-AJ13S-0.5-1	Total/NA	Solid	3050B	
720-91069-4 MSD	DG-AJ13S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	7471A	
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	7471A	
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	7471A	
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	7471A	
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	7471A	
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	7471A	
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	7471A	
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	7471A	
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	7471A	
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	7471A	
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	7471A	
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	7471A	
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	7471A	
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	7471A	
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	7471A	
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	7471A	
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	7471A	
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	7471A	
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	7471A	
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	7471A	
MB 720-259463/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259463/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91069-4 MS	DG-AJ13S-0.5-1	Total/NA	Solid	7471A	
720-91069-4 MSD	DG-AJ13S-0.5-1	Total/NA	Solid	7471A	

Metals

Prep Batch: 259477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	3050B	
720-91069-22	DUP-31	Total/NA	Solid	3050B	
720-91069-23	DUP-29	Total/NA	Solid	3050B	
720-91069-24	DUP-75	Total/NA	Solid	3050B	
MB 720-259477/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259477/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91070-A-17-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-91070-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-22	DUP-31	Total/NA	Solid	7471A	
720-91069-23	DUP-29	Total/NA	Solid	7471A	
720-91069-24	DUP-75	Total/NA	Solid	7471A	
MB 720-259478/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259478/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91070-A-17-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-91070-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 259700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	6010B	259462
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	6010B	259462
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	6010B	259462
MB 720-259462/1-A	Method Blank	Total/NA	Solid	6010B	259462
LCS 720-259462/2-A	Lab Control Sample	Total/NA	Solid	6010B	259462
720-91069-4 MS	DG-AJ13S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-4 MSD	DG-AJ13S-0.5-1	Total/NA	Solid	6010B	259462

Analysis Batch: 259869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	6010B	259462
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	6010B	259462

Metals (Continued)

Analysis Batch: 259869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	6010B	259462
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	6010B	259462
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	6010B	259462

Analysis Batch: 260051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	6010B	259477
720-91069-22	DUP-31	Total/NA	Solid	6010B	259477
720-91069-23	DUP-29	Total/NA	Solid	6010B	259477
720-91069-24	DUP-75	Total/NA	Solid	6010B	259477
LCS 720-259477/2-A	Lab Control Sample	Total/NA	Solid	6010B	259477
720-91070-A-17-A MS	Matrix Spike	Total/NA	Solid	6010B	259477
720-91070-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259477

Analysis Batch: 260152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259477/1-A	Method Blank	Total/NA	Solid	6010B	259477

Analysis Batch: 260218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	7471A	259463
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	7471A	259463
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	7471A	259463
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	7471A	259463
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	7471A	259463
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	7471A	259463
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	7471A	259463
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	7471A	259463
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	7471A	259463
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	7471A	259463
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	7471A	259463

Metals (Continued)

Analysis Batch: 260218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259463/1-A	Method Blank	Total/NA	Solid	7471A	259463
LCS 720-259463/2-A	Lab Control Sample	Total/NA	Solid	7471A	259463
720-91069-4 MS	DG-AJ13S-0.5-1	Total/NA	Solid	7471A	259463
720-91069-4 MSD	DG-AJ13S-0.5-1	Total/NA	Solid	7471A	259463

Analysis Batch: 260224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-22	DUP-31	Total/NA	Solid	7471A	259478
720-91069-23	DUP-29	Total/NA	Solid	7471A	259478
720-91069-24	DUP-75	Total/NA	Solid	7471A	259478
MB 720-259478/1-A	Method Blank	Total/NA	Solid	7471A	259478
LCS 720-259478/2-A	Lab Control Sample	Total/NA	Solid	7471A	259478
720-91070-A-17-D MS	Matrix Spike	Total/NA	Solid	7471A	259478
720-91070-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259478

Analysis Batch: 261796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	6010B	259462
MB 720-259462/1-A	Method Blank	Total/NA	Solid	6010B	259462
LCS 720-259462/2-A	Lab Control Sample	Total/NA	Solid	6010B	259462
720-91069-4 MS	DG-AJ13S-0.5-1	Total/NA	Solid	6010B	259462
720-91069-4 MSD	DG-AJ13S-0.5-1	Total/NA	Solid	6010B	259462

Analysis Batch: 261797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-22	DUP-31	Total/NA	Solid	6010B	259477
720-91069-23	DUP-29	Total/NA	Solid	6010B	259477
720-91069-24	DUP-75	Total/NA	Solid	6010B	259477
MB 720-259477/1-A	Method Blank	Total/NA	Solid	6010B	259477
LCS 720-259477/2-A	Lab Control Sample	Total/NA	Solid	6010B	259477
720-91070-A-17-A MS	Matrix Spike	Total/NA	Solid	6010B	259477
720-91070-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259477

Analysis Batch: 261960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	6010B	259477

General Chemistry

Analysis Batch: 259498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-1	DG-AH13S-0.5-1	Total/NA	Solid	Moisture	
720-91069-2	DG-AH13S-3.5-4	Total/NA	Solid	Moisture	
720-91069-3	DG-AH13S-7.5-8	Total/NA	Solid	Moisture	
720-91069-4	DG-AJ13S-0.5-1	Total/NA	Solid	Moisture	
720-91069-5	DG-AJ13S-3.5-4	Total/NA	Solid	Moisture	
720-91069-6	DG-AL13S-0.5-1	Total/NA	Solid	Moisture	
720-91069-7	DG-AL13S-3.5-4	Total/NA	Solid	Moisture	
720-91069-8	DG-AC11S-0.5-1	Total/NA	Solid	Moisture	
720-91069-9	DG-AC11S-3.5-4	Total/NA	Solid	Moisture	
720-91048-E-20 DU	Duplicate	Total/NA	Solid	Moisture	

General Chemistry

Analysis Batch: 259536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91069-10	DG-AC11S-8.5-9	Total/NA	Solid	Moisture	
720-91069-11	DG-AA11S-0.5-1	Total/NA	Solid	Moisture	
720-91069-12	DG-AA11S-3.5-4	Total/NA	Solid	Moisture	
720-91069-13	DG-W11S-0.5-1	Total/NA	Solid	Moisture	
720-91069-14	DG-W11S-3.5-4	Total/NA	Solid	Moisture	
720-91069-15	DG-W7S-0.5-1	Total/NA	Solid	Moisture	
720-91069-16	DG-W7S-3.5-4	Total/NA	Solid	Moisture	
720-91069-17	DG-R5S-0.5-1	Total/NA	Solid	Moisture	
720-91069-18	DG-R5S-3.5-4	Total/NA	Solid	Moisture	
720-91069-19	DG-AB5S-0.5-1	Total/NA	Solid	Moisture	
720-91069-20	DG-AB5S-3.5-4	Total/NA	Solid	Moisture	
720-91069-22	DUP-31	Total/NA	Solid	Moisture	
720-91069-23	DUP-29	Total/NA	Solid	Moisture	
720-91069-24	DUP-75	Total/NA	Solid	Moisture	
720-91069-10 DU	DG-AC11S-8.5-9	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AH13S-0.5-1

Lab Sample ID: 720-91069-1

Date Collected: 01/29/19 09:00
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 11:40	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 11:40	AYL	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		50	260198	02/12/19 16:50	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		20	260086	02/10/19 05:35	DCH	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		2	260083	02/09/19 23:20	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	526901	02/05/19 17:09	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 16:14	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 17:49	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 11:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-AH13S-3.5-4

Lab Sample ID: 720-91069-2

Date Collected: 01/29/19 09:00
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B		1	526931	02/05/19 23:14	GMA	TAL IRV
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526932	02/05/19 23:14	GMA	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		100	260198	02/12/19 17:14	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		20	260086	02/10/19 06:05	DCH	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		10	260083	02/09/19 23:36	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	527199	02/06/19 20:39	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 16:19	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 17:54	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 11:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AH13S-7.5-8

Date Collected: 01/29/19 09:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526206	01/31/19 17:44	WC	TAL IRV
Total/NA	Analysis	8260B		100	527268	02/07/19 16:33	AYL	TAL IRV
Total/NA	Prep	5035			526206	01/31/19 17:44	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	527269	02/07/19 16:33	AYL	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		200	260198	02/12/19 17:37	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		100	260115	02/11/19 14:08	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		10	260083	02/09/19 23:52	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	527199	02/06/19 21:06	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259869	02/05/19 16:23	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259700	02/01/19 17:59	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 11:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-AJ13S-0.5-1

Date Collected: 01/29/19 09:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 12:29	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 12:29	AYL	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		50	260252	02/13/19 07:09	MQL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		50	260115	02/11/19 14:38	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		10	260083	02/10/19 00:09	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	527199	02/06/19 21:20	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261796	03/12/19 10:27	BKR	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 17:44	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 11:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AJ13S-3.5-4

Lab Sample ID: 720-91069-5

Date Collected: 01/29/19 09:30
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 12:53	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 12:53	AYL	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260252	02/13/19 07:33	MQL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		2	260115	02/11/19 15:07	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260083	02/10/19 00:25	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	526901	02/05/19 18:02	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 16:28	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:13	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 11:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-AL13S-0.5-1

Lab Sample ID: 720-91069-6

Date Collected: 01/29/19 09:50
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 13:18	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 13:18	AYL	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	260252	02/13/19 07:56	MQL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		2	260115	02/11/19 15:36	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260083	02/10/19 00:41	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	526901	02/05/19 18:15	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 16:33	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:18	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 11:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AL13S-3.5-4

Lab Sample ID: 720-91069-7

Date Collected: 01/29/19 09:50
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 13:42	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 13:42	AYL	TAL IRV
Total/NA	Prep	3546			259639	02/01/19 10:22	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	260175	02/12/19 01:12	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		1	260116	02/11/19 12:41	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260083	02/10/19 00:58	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	526901	02/05/19 18:29	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 16:38	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:22	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 11:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-AC11S-0.5-1

Lab Sample ID: 720-91069-8

Date Collected: 01/29/19 10:50
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526206	01/31/19 17:44	WC	TAL IRV
Total/NA	Analysis	8260B		500	527268	02/07/19 16:59	AYL	TAL IRV
Total/NA	Prep	5035			526206	01/31/19 17:44	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		500	527269	02/07/19 16:59	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		40	260119	02/11/19 15:47	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		20	260086	02/10/19 01:42	DCH	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260083	02/10/19 01:14	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	527199	02/06/19 21:34	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 16:42	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:27	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 11:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-AC11S-3.5-4

Lab Sample ID: 720-91069-9

Date Collected: 01/29/19 10:50

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 14:07	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 14:07	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		200	260198	02/12/19 12:32	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		20	260086	02/10/19 02:11	DCH	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		10	260083	02/10/19 01:30	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	527199	02/06/19 21:47	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 16:47	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:32	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		10	260218	02/12/19 12:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259498	01/30/19 14:39	TNL	TAL PLS

Client Sample ID: DG-AC11S-8.5-9

Lab Sample ID: 720-91069-10

Date Collected: 01/29/19 10:50

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 14:32	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 14:32	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	260198	02/12/19 12:55	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		10	260115	02/11/19 16:05	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260083	02/10/19 01:46	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	527199	02/06/19 22:01	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 16:52	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:37	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:33	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AA11S-0.5-1

Lab Sample ID: 720-91069-11

Date Collected: 01/29/19 11:10
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 14:57	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 14:57	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260198	02/12/19 13:18	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		1	260086	02/10/19 02:40	DCH	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260083	02/10/19 02:02	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	527199	02/06/19 22:14	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 16:57	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:42	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-AA11S-3.5-4

Lab Sample ID: 720-91069-12

Date Collected: 01/29/19 11:10
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526206	01/31/19 17:44	WC	TAL IRV
Total/NA	Analysis	8260B		500	527268	02/07/19 17:24	AYL	TAL IRV
Total/NA	Prep	5035			526206	01/31/19 17:44	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		500	527269	02/07/19 17:24	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		25	260198	02/12/19 13:42	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		5	260086	02/10/19 03:09	DCH	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260083	02/10/19 02:18	JZT	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	527199	02/06/19 22:28	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 17:11	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:46	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-W11S-0.5-1

Lab Sample ID: 720-91069-13

Date Collected: 01/29/19 11:30
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 15:21	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 15:21	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	260198	02/12/19 14:06	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 09:05	KLM	TAL PLS
Total/NA	Analysis	8015B		5	260187	02/12/19 12:07	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		2	260084	02/09/19 22:24	MQL	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	526901	02/05/19 19:49	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 17:16	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:51	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-W11S-3.5-4

Lab Sample ID: 720-91069-14

Date Collected: 01/29/19 11:30
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 15:46	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 15:46	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	260175	02/12/19 01:36	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 09:05	KLM	TAL PLS
Total/NA	Analysis	8015B		1	260186	02/12/19 13:05	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260084	02/09/19 22:41	MQL	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	526901	02/05/19 20:02	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 17:21	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 18:56	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-W7S-0.5-1

Lab Sample ID: 720-91069-15

Date Collected: 01/29/19 13:20

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 16:11	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 16:11	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260198	02/12/19 14:29	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 09:05	KLM	TAL PLS
Total/NA	Analysis	8015B		1	260187	02/12/19 14:04	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260084	02/09/19 22:59	MQL	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	526901	02/05/19 20:15	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 17:25	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 19:10	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-W7S-3.5-4

Lab Sample ID: 720-91069-16

Date Collected: 01/29/19 13:20

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 16:36	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 16:36	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	260198	02/12/19 14:53	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 09:05	KLM	TAL PLS
Total/NA	Analysis	8015B		1	260186	02/12/19 13:34	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260084	02/09/19 23:17	MQL	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	527199	02/06/19 20:53	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259869	02/05/19 17:30	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259700	02/01/19 19:15	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-R5S-0.5-1

Lab Sample ID: 720-91069-17

Date Collected: 01/29/19 14:00

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 17:00	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 17:00	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260198	02/12/19 15:16	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 09:05	KLM	TAL PLS
Total/NA	Analysis	8015B		2	260187	02/12/19 13:05	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260084	02/09/19 23:35	MQL	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	526901	02/05/19 20:42	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 17:35	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 19:20	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-R5S-3.5-4

Lab Sample ID: 720-91069-18

Date Collected: 01/29/19 14:00

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 17:25	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 17:25	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	260175	02/12/19 02:46	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 09:05	KLM	TAL PLS
Total/NA	Analysis	8015B		1	260186	02/12/19 14:04	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260084	02/09/19 23:52	MQL	TAL PLS
Total/NA	Prep	3546			526661	02/04/19 13:17	EGC	TAL IRV
Total/NA	Analysis	8082		1	526901	02/05/19 20:55	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 17:40	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 19:25	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-AB5S-0.5-1

Lab Sample ID: 720-91069-19

Date Collected: 01/29/19 14:40

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526749	02/05/19 17:49	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526750	02/05/19 17:49	AYL	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260198	02/12/19 15:40	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 14:54	KLM	TAL PLS
Total/NA	Analysis	8015B		2	260187	02/12/19 13:34	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260084	02/10/19 00:10	MQL	TAL PLS
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 13:46	JM	TAL IRV
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259869	02/05/19 17:44	OBI	TAL PLS
Total/NA	Prep	3050B			259462	01/31/19 09:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259700	02/01/19 19:29	OBI	TAL PLS
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-AB5S-3.5-4

Lab Sample ID: 720-91069-20

Date Collected: 01/29/19 14:40

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		527129	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B	RA	1	526986	02/06/19 16:36	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526919	02/05/19 21:55	JB	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526921	02/05/19 21:55	JB	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	260088	02/09/19 11:50	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 14:54	KLM	TAL PLS
Total/NA	Analysis	8015B		1	260187	02/12/19 15:31	JXL	TAL PLS
Total/NA	Prep	3546			259644	02/01/19 11:12	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260084	02/10/19 00:27	MQL	TAL PLS
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 20:36	JM	TAL IRV
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 22:48	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/07/19 22:48	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DG-AB5S-3.5-4

Lab Sample ID: 720-91069-20

Date Collected: 01/29/19 14:40
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259463	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260218	02/12/19 12:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: FB-01.29.19

Lab Sample ID: 720-91069-21

Date Collected: 01/29/19 00:00
Matrix: Water
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527777	02/09/19 17:37	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527778	02/09/19 17:37	GMA	TAL IRV

Client Sample ID: DUP-31

Lab Sample ID: 720-91069-22

Date Collected: 01/29/19 00:00
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		527129	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B	RA	1	526986	02/06/19 17:00	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526919	02/05/19 22:23	JB	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526921	02/05/19 22:23	JB	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260198	02/12/19 16:03	LPL	TAL PLS
Total/NA	Prep	3546			259655	02/01/19 12:44	RAR	TAL PLS
Total/NA	Analysis	8015B		1	259793	02/05/19 18:09	JXL	TAL PLS
Total/NA	Prep	3546			259541	01/31/19 09:29	RAR	TAL PLS
Total/NA	Analysis	8081A		1	260007	02/08/19 12:48	JZT	TAL PLS
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 20:50	JM	TAL IRV
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261797	03/12/19 11:15	OBI	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 22:53	MAG	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 12:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Client Sample ID: DUP-29

Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		527129	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B	RA	1	526986	02/06/19 17:25	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526919	02/05/19 22:52	JB	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526921	02/05/19 22:52	JB	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	260198	02/12/19 16:27	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 14:54	KLM	TAL PLS
Total/NA	Analysis	8015B		1	260187	02/12/19 14:33	JXL	TAL PLS
Total/NA	Prep	3546			259684	02/01/19 15:48	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259940	02/07/19 19:17	JZT	TAL PLS
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 21:03	JM	TAL IRV
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261797	03/12/19 11:19	OBI	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 22:57	MAG	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 12:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DUP-75

Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91069-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		527129	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B	RA	1	526986	02/06/19 17:49	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526919	02/05/19 23:20	JB	TAL IRV
Total/NA	Prep	5035			526365	01/29/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526921	02/05/19 23:20	JB	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	260175	02/12/19 01:59	LPL	TAL PLS
Total/NA	Prep	3546			260029	02/08/19 14:54	KLM	TAL PLS
Total/NA	Analysis	8015B		1	260187	02/12/19 15:02	JXL	TAL PLS
Total/NA	Prep	3546			259684	02/01/19 15:48	RAR	TAL PLS
Total/NA	Analysis	8081A		1	259940	02/07/19 19:00	JZT	TAL PLS
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 21:16	JM	TAL IRV
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261797	03/12/19 11:24	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-75
Lab Sample ID: 720-91069-24
Date Collected: 01/29/19 00:00
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 23:02	MAG	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: TB-01.29-19
Lab Sample ID: 720-91069-25
Date Collected: 01/29/19 00:00
Matrix: Water
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527777	02/09/19 18:03	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527778	02/09/19 18:03	GMA	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91069-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91069-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91069-1	DG-AH13S-0.5-1	Solid	01/29/19 09:00	01/29/19 18:25
720-91069-2	DG-AH13S-3.5-4	Solid	01/29/19 09:00	01/29/19 18:25
720-91069-3	DG-AH13S-7.5-8	Solid	01/29/19 09:00	01/29/19 18:25
720-91069-4	DG-AJ13S-0.5-1	Solid	01/29/19 09:30	01/29/19 18:25
720-91069-5	DG-AJ13S-3.5-4	Solid	01/29/19 09:30	01/29/19 18:25
720-91069-6	DG-AL13S-0.5-1	Solid	01/29/19 09:50	01/29/19 18:25
720-91069-7	DG-AL13S-3.5-4	Solid	01/29/19 09:50	01/29/19 18:25
720-91069-8	DG-AC11S-0.5-1	Solid	01/29/19 10:50	01/29/19 18:25
720-91069-9	DG-AC11S-3.5-4	Solid	01/29/19 10:50	01/29/19 18:25
720-91069-10	DG-AC11S-8.5-9	Solid	01/29/19 10:50	01/29/19 18:25
720-91069-11	DG-AA11S-0.5-1	Solid	01/29/19 11:10	01/29/19 18:25
720-91069-12	DG-AA11S-3.5-4	Solid	01/29/19 11:10	01/29/19 18:25
720-91069-13	DG-W11S-0.5-1	Solid	01/29/19 11:30	01/29/19 18:25
720-91069-14	DG-W11S-3.5-4	Solid	01/29/19 11:30	01/29/19 18:25
720-91069-15	DG-W7S-0.5-1	Solid	01/29/19 13:20	01/29/19 18:25
720-91069-16	DG-W7S-3.5-4	Solid	01/29/19 13:20	01/29/19 18:25
720-91069-17	DG-R5S-0.5-1	Solid	01/29/19 14:00	01/29/19 18:25
720-91069-18	DG-R5S-3.5-4	Solid	01/29/19 14:00	01/29/19 18:25
720-91069-19	DG-AB5S-0.5-1	Solid	01/29/19 14:40	01/29/19 18:25
720-91069-20	DG-AB5S-3.5-4	Solid	01/29/19 14:40	01/29/19 18:25
720-91069-21	FB-01.29.19	Water	01/29/19 00:00	01/29/19 18:25
720-91069-22	DUP-31	Solid	01/29/19 00:00	01/29/19 18:25
720-91069-23	DUP-29	Solid	01/29/19 00:00	01/29/19 18:25
720-91069-24	DUP-75	Solid	01/29/19 00:00	01/29/19 18:25
720-91069-25	TB-01.29-19	Water	01/29/19 00:00	01/29/19 18:25

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: B190674
Received:01/31/2019
Reported:2/12/2019
Analyst: Mikaela Batta

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AH13S-0.5-1 (720-91069-1)	B10642	No	None Detected	0.00
DG-AH13S-3.5-4 (720-91069-2)	B10643	No	None Detected	0.00
DG-AH13S-7.5-8 (720-91069-3)	B10644	No	None Detected	0.00
DG-AJ13S-0.5-1 (720-91069-4)	B10645	No	None Detected	0.00
DG-AJ13S-3.5-4 (720-91069-5)	B10646	No	None Detected	0.00
DG-AL13S-0.5-1 (720-91069-6)	B10647	No	None Detected	0.00
DG-AL13S-3.5-4 (720-91069-7)	B10648	No	None Detected	0.00
DG-AC11S-0.5-1 (720-91069-8)	B10649	No	None Detected	0.00
DG-AC11S-3.5-4 (720-91069-9)	B10650	No	None Detected	0.00
DG-AC11S-8.5-9 (720-91069-10)	B10651	No	None Detected	0.00
DG-AA11S-0.5-1 (720-91069-11)	B10652	No	None Detected	0.00
DG-AA11S-3.5-4 (720-91069-12)	B10653	Yes	Chrysotile	0.50

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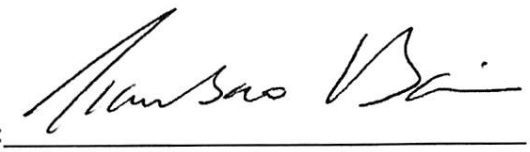
Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-W11S-0.5-1 (720-91069-13)	B10654	No	None Detected	0.00
DG-W11S-3.5-4 (720-91069-14)	B10655	No	None Detected	0.00
DG-W7S-0.5-1 (720-91069-15)	B10656	Yes	Amosite	<0.25
DG-W7S-3.5-4 (720-91069-16)	B10657	No	None Detected	0.00
DG-R5S-0.5-1 (720-91069-17)	B10658	Yes	Chrysotile Amosite	<0.25 <0.25
DG-R5S-3.5-4 (720-91069-18)	B10659	No	None Detected	0.00
DG-AB5S-0.5-1 (720-91069-19)	B10660	No	None Detected	0.00
DG-AB5S-3.5-4 (720-91069-20)	B10661	No	None Detected	0.00
DUP-31 (720-91069-22)	B10662	No	None Detected	0.00
DUP-29 (720-91069-23)	B10663	No	None Detected	0.00
DUP-75 (720-91069-24)	B10664	No	None Detected	0.00

REVIEWED BY: 

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

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Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

B10642 - B10664

B190674 (23)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40993.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/12/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AH13S-0.5-1 (720-91069-1)	1/29/19	09:00 Pacific		Solid			X	1	
DG-AH13S-3.5-4 (720-91069-2)	1/29/19	09:00 Pacific		Solid			X	1	
DG-AH13S-7.5-8 (720-91069-3)	1/29/19	09:00 Pacific		Solid			X	1	
DG-AJ13S-0.5-1 (720-91069-4)	1/29/19	09:30 Pacific		Solid			X	1	
DG-AJ13S-3.5-4 (720-91069-5)	1/29/19	09:30 Pacific		Solid			X	1	
DG-AL13S-0.5-1 (720-91069-6)	1/29/19	09:50 Pacific		Solid			X	1	
DG-AL13S-3.5-4 (720-91069-7)	1/29/19	09:50 Pacific		Solid			X	1	
DG-AC11S-0.5-1 (720-91069-8)	1/29/19	10:50 Pacific		Solid			X	1	
DG-AC11S-3.5-4 (720-91069-9)	1/29/19	10:50 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/30/19 1233	TAPLS		1/31 9:40	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: eurofins CEI Accept Samples

KC

Ver: 09/20/2016

B190674

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40993.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/12/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AC11S-8.5-9 (720-91069-10)	1/29/19	10:50 Pacific		Solid			X	1	
DG-AA11S-0.5-1 (720-91069-11)	1/29/19	11:10 Pacific		Solid			X	1	
DG-AA11S-3.5-4 (720-91069-12)	1/29/19	11:10 Pacific		Solid			X	1	
DG-W11S-0.5-1 (720-91069-13)	1/29/19	11:30 Pacific		Solid			X	1	
DG-W11S-3.5-4 (720-91069-14)	1/29/19	11:30 Pacific		Solid			X	1	
DG-W7S-0.5-1 (720-91069-15)	1/29/19	13:20 Pacific		Solid			X	1	
DG-W7S-3.5-4 (720-91069-16)	1/29/19	13:20 Pacific		Solid			X	1	
DG-R5S-0.5-1 (720-91069-17)	1/29/19	14:00 Pacific		Solid			X	1	
DG-R5S-3.5-4 (720-91069-18)	1/29/19	14:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/30/19 1233	Company TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

B190674

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40993.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/12/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AB5S-0.5-1 (720-91069-19)	1/29/19	14:40 Pacific		Solid			X	1	
DG-AB5S-3.5-4 (720-91069-20)	1/29/19	14:40 Pacific		Solid			X	1	
DUP-31 (720-91069-22)	1/29/19	Pacific		Solid			X	1	
DUP-29 (720-91069-23)	1/29/19	Pacific		Solid			X	1	
DUP-75 (720-91069-24)	1/29/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/30/19 1233	TAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schadman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91069 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1. DG-AH13s-0.5-1	29 Jan. 2019	0900	G	S	7	N		X	X	X	X	X	X	X	
2. DG-AH13s-3.5-4		0900													
3. DG-AH13s-7.5-8		0900													
4. DG-AJ13s-0.5-1		0930													
5. DG-AJ13s-3.5-4		0930													
6. DG-AL13s-0.5-1		0950													
7. DG-AL13s-3.5-4		0950													
8. DG-AC11s-0.5-1		1050													
9. DG-AC11s-3.5-4		1050													
10. DG-AC11s-8.5-9		1050													
11. DG-AA11s-0.5-1		1110													
12. DG-AA11s-3.5-4	↓	1110	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.5' 3.5' 0.5' 0.5' 1.5' 2.5'

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp (°C) Obs'd: ____ Corr'd: ____	Therm ID No.: ____
Relinquished by: [signature]	Company: Geosyntec	Date/Time: 29 January 2019	Received by: [signature] Company: TA-PLS Date/Time: 1-29-19 16:00
Relinquished by: [signature]	Company: TA-PLS	Date/Time: 1-29-19 18:25	Received by: Company: Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature] Company: TA-PLS Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
15826
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaltmann
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13. DG-W11S-0.5-1	29 Jan. 2019	1130	G	S	7	N		X	X	X	X	X	X	X	
14. DG-W11S-3.5-4		1130													
15. DG-W7S-0.5-1		1320													
16. DG-W7S-3.5-4		1320													
17. DG-R5S-0.5-1		1400													
18. DG-R5S-3.5-4		1400													
19. DG-AB5S-0.5-1		1440													
20. DG-AB5S-3.5-4		1440	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	
21. FB-01.29.19		—			2			X							
22. DUP-31		—	G	S	7	N		X	X	X	X	X	X	X	✓
23. DUP-29		—													
24. DUP-75	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company Geosyntec	Date/Time 29 Jan. 2019	Received by	Company TA-PLS	Date/Time 1-29-19 16:40
Relinquished by	Company TA-PLS	Date/Time 1-29-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925 600 3002

720-91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
180760
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaffman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
			G	S	7	N		X	X	X	X	X	X	X	
25. TB-01.29.19	29 Jan. 2019	—			2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company Geosyntec	Date/Time 29 Jan, 2019	Received by	Company TAP ACS	Date/Time 1-29-19 16:25
Relinquished by	Company TAP ACS	Date/Time 1-29-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-29-19 16:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645743079	COC No: 720-40994.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, BT=Tissue, Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AH13S-0.5-1 (720-91069-1)	1/29/19	09:00 Pacific		Solid	X	X	X		
DG-AH13S-3.5-4 (720-91069-2)	1/29/19	09:00 Pacific		Solid	X	X	X		
DG-AH13S-7.5-8 (720-91069-3)	1/29/19	09:00 Pacific		Solid	X	X	X		
DG-AJ13S-0.5-1 (720-91069-4)	1/29/19	09:30 Pacific		Solid	X	X	X		
DG-AJ13S-3.5-4 (720-91069-5)	1/29/19	09:30 Pacific		Solid	X	X	X		
DG-AL13S-0.5-1 (720-91069-6)	1/29/19	09:50 Pacific		Solid	X	X	X		
DG-AL13S-3.5-4 (720-91069-7)	1/29/19	09:50 Pacific		Solid	X	X	X		
DG-AC11S-0.5-1 (720-91069-8)	1/29/19	10:50 Pacific		Solid	X	X	X		
DG-AC11S-3.5-4 (720-91069-9)	1/29/19	10:50 Pacific		Solid	X	X	X		

720-91069 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O BY ROBERT RICH

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/29/19 16:45	TA-PLS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by	Date/Time: 1/30/19 1015	Company TA IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.2 9H 4.0/3.5

Ver: 09/20/2016

Encores or Terracores Frozen
Date: 01/30/19 Time: 14:55 Initials: DC

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40994.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Special Instructions/Note:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/Solid, BT=Tissue, A=Air)	Preservation Code:	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B_LL/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B/CA_LUFTMS/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons
DG-AC11S-8.5-9 (720-91069-10)	1/29/19	10:50 Pacific		Solid		X	X	X	
DG-AA11S-0.5-1 (720-91069-11)	1/29/19	11:10 Pacific		Solid		X	X	X	
DG-AA11S-3.5-4 (720-91069-12)	1/29/19	11:10 Pacific		Solid		X	X	X	
DG-W11S-0.5-1 (720-91069-13)	1/29/19	11:30 Pacific		Solid		X	X	X	
DG-W11S-3.5-4 (720-91069-14)	1/29/19	11:30 Pacific		Solid		X	X	X	
DG-W7S-0.5-1 (720-91069-15)	1/29/19	13:20 Pacific		Solid		X	X	X	
DG-W7S-3.5-4 (720-91069-16)	1/29/19	13:20 Pacific		Solid		X	X	X	
DG-R5S-0.5-1 (720-91069-17)	1/29/19	14:00 Pacific		Solid		X	X	X	
DG-R5S-3.5-4 (720-91069-18)	1/29/19	14:00 Pacific		Solid		X	X	X	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment: FEDEX D/O	
Relinquished by:	Date/Time: 1/29/19 1645	Company TA PLS	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/30/19 1015	Company TA IRV
Custody Seals Intact: ▲ Yes △ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40994.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air, etc.)	Perform MS/MSD (Y/N)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AB5S-0.5-1 (720-91069-19)	1/29/19	14:40 Pacific		Solid		X	X	X		
DG-AB5S-3.5-4 (720-91069-20)	1/29/19	14:40 Pacific		Solid		X	X	X		
FB-01.29.19 (720-91069-21)	1/29/19	Pacific		Water				X	X	check for 2 phases
DUP-31 (720-91069-22)	1/29/19	Pacific		Solid		X	X	X		
DUP-29 (720-91069-23)	1/29/19	Pacific		Solid		X	X	X		
DUP-75 (720-91069-24)	1/29/19	Pacific		Solid		X	X	X		
TB-01.29-19 (720-91069-25)	1/29/19	Pacific		Water				X	X	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/D

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/29/19 1645	TA-PLS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	1/30/19 1015	TA IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91069

Chain of Custody Record

7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

158160

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schaefer
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☑ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91069 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1. DG-AH13s-0.5-1	29 Jan. 2019	0900	G	S	7	N		X	X	X	X	X	X	X	
2. DG-AH13s-3.5-4		0900													
3. DG-AH13s-7.5-8		0900													
4. DG-AJ13s-0.5-1		0930													
5. DG-AJ13s-3.5-4		0930													
6. DG-AL13s-0.5-1		0950													
7. DG-AL13s-3.5-4		0950													
8. DG-AC11s-0.5-1		1050													
9. DG-AC11s-3.5-4		1050													
10. DG-AC11s-8.5-9		1050													
11. DG-AA11s-0.5-1		1110													
12. DG-AA11s-3.5-4	↓	1110	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

0.6°C, 0.3°C, 0.3°C, 0.9°C, 1.2°C 2.2°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd. _____ Corr'd: _____	Therm ID No.:

Relinquished by:	Company: Geosyntec	Date/Time: 29 January 2019	Received by:	Company: TA PLS	Date/Time: 1-27-19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 1-29-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#188160
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Scholfman
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkalvitis@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
13. DG-W11s-0.5-1	29 Jan. 2019	1130	G	S	7	N		X	X	X	X	X	X	X	
14. DG-W11s-3.5-4		1130													
15. DG-W7s-0.5-1		1320													
16. DG-W7s-3.5-4		1320													
17. DG-R5s-0.5-1		1400													
18. DG-R5s-3.5-4		1400													
19. DG-AB5s-0.5-1		1440													
20. DG-AB5s-3.5-4		1440	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
21. FB-01.29.19		—			2			X							
22. DUP-31		—	G	S	7	N		X	X	X	X	X	X	X	/
23. DUP-29		—													
24. DUP-75	↓	—	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Nate Foley	Company: Geosyntec	Date/Time: 16:00 29 Jan 2019	Received by:	Company: TA PLS	Date/Time: 1-29-19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 18:25 1-29-19	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

TAO 91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
288160
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schaffner
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
			G	S	7	N		X	X	X	X	X	X	X	
25. TB-01.29.19	29 Jan. 2019	—			2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by: Nikki Fuhrman	Company: Geosyntec	Date/Time: 29 Jan 2019	Received by:	Company: TA PLS	Date/Time: 1-29-19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 1-29-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3208	COC No: 720-40994.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_E_FW_T_8260(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_E_FW_T_8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X							
DG-AH13S-0.5-1 (720-91069-1)	1/29/19	09:00 Pacific		Solid			X	X	X				
DG-AH13S-3.5-4 (720-91069-2)	1/29/19	09:00 Pacific		Solid			X	X	X				
DG-AH13S-7.5-8 (720-91069-3)	1/29/19	09:00 Pacific		Solid			X	X	X				
DG-AJ13S-0.5-1 (720-91069-4)	1/29/19	09:30 Pacific		Solid			X	X	X				
DG-AJ13S-3.5-4 (720-91069-5)	1/29/19	09:30 Pacific		Solid			X	X	X				
DG-AL13S-0.5-1 (720-91069-6)	1/29/19	09:50 Pacific		Solid			X	X	X				
DG-AL13S-3.5-4 (720-91089-7)	1/29/19	09:50 Pacific		Solid			X	X	X				
DG-AC11S-0.5-1 (720-91069-8)	1/29/19	10:50 Pacific		Solid			X	X	X				
DG-AC11S-3.5-4 (720-91069-9)	1/29/19	10:50 Pacific		Solid			X	X	X				

1/29/19

1/29/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX ~~DELIVERY~~ BY ROBERT RICH 1/29/19			
Relinquished by:	Date/Time: 1/30/19 1233	Company: TRPLS	Received by:	Date/Time: 1/31/19 9:45	Company: TAIRJ	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact.	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
~~Δ~~ Yes Δ No		2.4/2.4 1k.88

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3208	COC No: 720-40994.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	82608/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035A 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Codes:										
DG-AC11S-8.5-9 (720-91069-10)	1/29/19	10:50 Pacific		Solid			X	X	X			1	
DG-AA11S-0.5-1 (720-91069-11)	1/29/19	11:10 Pacific		Solid			X	X	X			1	
DG-AA11S-3.5-4 (720-91069-12)	1/29/19	11:10 Pacific		Solid			X	X	X			1	
DG-W11S-0.5-1 (720-91069-13)	1/29/19	11:30 Pacific		Solid			X	X	X			1	
DG-W11S-3.5-4 (720-91069-14)	1/29/19	11.30 Pacific		Solid			X	X	X			1	
DG-W7S-0.5-1 (720-91069-15)	1/29/19	13:20 Pacific		Solid			X	X	X			1	
DG-W7S-3.5-4 (720-91069-16)	1/29/19	13:20 Pacific		Solid			X	X	X			1	
DG-R5S-0.5-1 (720-91069-17)	1/29/19	14:00 Pacific		Solid			X	X	X			1	
DG-R5S-3.5-4 (720-91069-18)	1/29/19	14:00 Pacific		Solid			X	X	X			1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		Date/Time: 1/30/19 1233	Company TAPL	Received by:		Date/Time: 1/31/19 9.45	Company TA/RV
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company
Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:		2.4/2.4 IR.85	

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3205	COC No: 720-40994.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:				
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
			Preservation Code:										
DG-AB5S-0.5-1 (720-91069-19)	1/29/19	14:40 Pacific		Solid			X	X	X			2	1
DG-AB5S-3.5-4 (720-91069-20)	1/29/19	14:40 Pacific		Solid			X	X	X			2	1
~~FB-01.29.19 (720-91069-21)~~	~~1/29/19~~	~~Pacific~~		~~Water~~						X	X	3	~~check for 2 phases~~
DUP-31 (720-91069-22)	1/29/19	Pacific		Solid			X	X	X			2	1
DUP-29 (720-91069-23)	1/29/19	Pacific		Solid			X	X	X			2	1
DUP-75 (720-91069-24)	1/29/19	Pacific		Solid			X	X	X			2	1
~~FB-01.29.19 (720-91069-25)~~	~~1/29/19~~	~~Pacific~~		~~Water~~						X	X	3	~~check for 2 phases~~

Note Since laboratory accreditations are subject to change, TestAmenca Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract leboratories. This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/30/19 1233	TAPL		1/31/19 9:45	TA IRV
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: ~~Δ Yes~~ Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.
		2.4 / 2.4 IR-88

Ver 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91069-1

Login Number: 91069
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91069-1

Login Number: 91069
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins TestAmerica, Irvine
List Creation: 01/30/19 02:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91069-E-20-C	DG-AB5S-3.5-4	6.6	ND
720-91069-E-22-A	DUP-31	27	ND
720-91069-E-23-A	DUP-29	28	ND
720-91069-E-24-A	DUP-75	11	ND
720-91069-E-4-C	DG-AJ13S-0.5-1	27	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa Brewer
Quality Assurance Manager

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91070-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 8:39:20 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91070-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91070-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 1/29/2019 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.3º C, 0.3º C, 0.6º C, 0.9º C, 1.2º C and 2.2º C.

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AI10S-0.5-1 (720-91070-1), DG-AI10S-3.5-4 (720-91070-2), DG-AC10S-0.5-1 (720-91070-3), DG-AC10S-3.5-4 (720-91070-4), DG-AB10S-0.5-1 (720-91070-5), DG-AB10S-3.5-4 (720-91070-6), DG-AA10S-0.5-1 (720-91070-7), DG-AA10S-3.5-4 (720-91070-8), DG-Z10S-0.5-1 (720-91070-9), DG-Z10S-3.5-4 (720-91070-10), DUP-68 (720-91070-11), DUP-69 (720-91070-12), DG-Y10S-0.5-1 (720-91070-13), DG-Y10S-3.5-4 (720-91070-14), DG-X10S-0.5-1 (720-91070-15), DG-X10S-3.5-4 (720-91070-16), DG-W10S-0.5-1 (720-91070-17), DG-W10S-0.5-1 (720-91070-17[MS]), DG-W10S-0.5-1 (720-91070-17[MSD]), (720-91070-A-17-C PDS), (720-91070-A-17-C SD), DG-W10S-3.5-4 (720-91070-18), DG-R10S-0.5-1 (720-91070-19), DG-R10S-3.5-4 (720-91070-20), DG-R8S-0.5-1 (720-91070-21), DG-R8S-3.5-4 (720-91070-22), DG-O8S-0.5-1 (720-91070-23), DG-O8S-3.5-4 (720-91070-24), DG-S8S-0.5-1 (720-91070-25), DG-S8S-3.5-4 (720-91070-26), DG-W8S-0.5-1 (720-91070-27), DG-W8S-3.5-4 (720-91070-28), DG-X8S-0.5-1 (720-91070-29), DG-X8S-3.5-4 (720-91070-30), DG-Y8S-0.5-1 (720-91070-31), DG-Y8S-3.5-4 (720-91070-32), DG-Z8S-0.5-1 (720-91070-33), DG-Z8S-3.5-4 (720-91070-34), DUP-52 (720-91070-35), DUP-53 (720-91070-36), DUP-54 (720-91070-37), DG-AA8S-0.5-1 (720-91070-38), DG-AA8S-3.5-4 (720-91070-39), DG-AA8S-3.5-4 (720-91070-39[MS]) and DG-AA8S-3.5-4 (720-91070-39[MSD]). Elevated reporting limits (RLs) are provided.

Method 6010B: The following sample was diluted to bring the concentration of target analyte Copper within the calibration range: DG-Y8S-3.5-4 (720-91070-32). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259491 and analytical batch 720-259577 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The post digestion spike % recoveries for Silver-133%, Arsenic-129%, Barium-180%, Beryllium- 13%, Cobalt 126%, Chromium- 147%, Copper- 140%, Molybdenum- 126%, Nickel- 144%, Lead- 126%, Antimony- 126%, Selenium- 127%, Vanadium- 147%, and Zinc-138% associated with batch 720-259577 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259577 was outside control limits for Barium-189%, Copper-40%, Chromium-36%, Nickel-32%, and Vanadium-33%: (720-91068-B-1-C SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259577 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a “^” symbol.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259491 and analytical batch 720-259577 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The method blank for preparation batch 720-259483 and analytical batch 720-260027 contained Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259483 and analytical batch 720-260027 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Job ID: 720-91070-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260027 was outside control limits for Cobalt-12%, Nickel-14%, Lead-15%, Antimony-19%, and Zinc-14%: (720-91070-A-27-C SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259477 and analytical batch 720-260051 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The post digestion spike % recoveries for Barium- -320%, Copper- -284%, Lead- -632%, Thallium-48%, Vanadium- -46%, and Zinc- -440 associated with batch 720-260051 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260051 was outside control limits for Thallium-111%, Vanadium-95%, Zinc-96%, Nickel-95%, Lead-95%, Antimony-94%, Cadmium-93%, Cobalt-95%, Chromium-95%, Copper-96%, Silver-84%, Arsenic-91%, and Barium95%: (720-91070-A-17-C SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-260051 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

Method 7471A: The following samples were diluted to bring the concentration of target analytes within the calibration range: DG-AB10S-0.5-1 (720-91070-5), DUP-68 (720-91070-11), and DG-W10S-3.5-4 (720-91070-18). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-AI10S-0.5-1 — Lab Sample ID: 720-91070-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	2.0	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	61		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.72		0.40	0.039	mg/Kg	4		6010B	Total/NA
Chromium	55		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	110		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	650		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.92	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	9.9		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.72	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	85		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	250		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI10S-3.5-4 — Lab Sample ID: 720-91070-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	3.5	J	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	45		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	11		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	3.8		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	19		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	18		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	11		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.57	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	24		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	28		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.0084	J	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC10S-0.5-1 — Lab Sample ID: 720-91070-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.7		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	3.8		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	150		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	16		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	210		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	180		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	3.5		1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	9.7		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.49	J	2.4	0.37	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.61	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.55	J	1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	440		3.7	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-AC10S-3.5-4 — Lab Sample ID: 720-91070-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.40	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Barium	31		1.4	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.054	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	7.5		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.5		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	110		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	29		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	2.8		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	26		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.061		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB10S-0.5-1 — Lab Sample ID: 720-91070-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	210		3.8	0.63	mg/Kg	10		6010B	Total/NA
Arsenic	25		7.6	0.64	mg/Kg	10		6010B	Total/NA
Barium	130		3.8	0.54	mg/Kg	10		6010B	Total/NA
Cadmium	2.4		0.95	0.094	mg/Kg	10		6010B	Total/NA
Chromium	34		3.8	0.40	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	670		11	5.4	mg/Kg	10		6010B	Total/NA
Lead	5200	^	3.8	0.80	mg/Kg	10		6010B	Total/NA
Molybdenum	1.5	J	3.8	0.48	mg/Kg	10		6010B	Total/NA
Nickel	34		3.8	0.39	mg/Kg	10		6010B	Total/NA
Selenium	3.3	J	7.6	1.1	mg/Kg	10		6010B	Total/NA
Silver	0.83	J	1.9	0.38	mg/Kg	10		6010B	Total/NA
Vanadium	52		3.8	0.52	mg/Kg	10		6010B	Total/NA
Zinc	840		11	4.8	mg/Kg	10		6010B	Total/NA
Mercury	6.9		0.15	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-AB10S-3.5-4 — Lab Sample ID: 720-91070-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.1		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	12		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	500		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.43		0.30	0.097	mg/Kg	4		6010B	Total/NA
Cadmium	1.8		0.37	0.037	mg/Kg	4		6010B	Total/NA
Chromium	41		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	3500		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	1100	^	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.56	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	34		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	2.8	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Silver	4.3		0.75	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	940		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.41		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-AA10S-0.5-1 — Lab Sample ID: 720-91070-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.9		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	47		1.2	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	0.47		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	9.3		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	120		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	150	^	1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.24	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	7.7		1.2	0.13	mg/Kg	4		6010B	Total/NA
Thallium	0.80	J	1.2	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	71		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	84		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.069		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA10S-3.5-4 — Lab Sample ID: 720-91070-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	45		3.9	0.64	mg/Kg	10		6010B	Total/NA
Arsenic	20		7.8	0.66	mg/Kg	10		6010B	Total/NA
Barium	1400		3.9	0.55	mg/Kg	10		6010B	Total/NA
Beryllium	0.35	J	0.78	0.25	mg/Kg	10		6010B	Total/NA
Cadmium	4.2		0.97	0.096	mg/Kg	10		6010B	Total/NA
Chromium	51		3.9	0.41	mg/Kg	10		6010B	Total/NA
Cobalt	5.8		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	880		12	5.5	mg/Kg	10		6010B	Total/NA
Lead	11000	^	3.9	0.81	mg/Kg	10		6010B	Total/NA
Nickel	41		3.9	0.40	mg/Kg	10		6010B	Total/NA
Selenium	3.4	J	7.8	1.2	mg/Kg	10		6010B	Total/NA
Silver	11		1.9	0.39	mg/Kg	10		6010B	Total/NA
Vanadium	29		3.9	0.53	mg/Kg	10		6010B	Total/NA
Zinc	3400		12	4.9	mg/Kg	10		6010B	Total/NA
Mercury	0.61		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z10S-0.5-1 — Lab Sample ID: 720-91070-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.6		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	110		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	80		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	2.3		0.29	0.028	mg/Kg	4		6010B	Total/NA
Chromium	410		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	8.5		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	160		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	250	^	1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1		1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	12		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.57	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.57	J	1.1	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	61		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	430		3.4	1.5	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-Z10S-0.5-1 (Continued)

Lab Sample ID: 720-91070-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.16		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z10S-3.5-4

Lab Sample ID: 720-91070-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	60		4.4	0.73	mg/Kg	10		6010B	Total/NA
Arsenic	24		8.8	0.75	mg/Kg	10		6010B	Total/NA
Barium	1400		4.4	0.63	mg/Kg	10		6010B	Total/NA
Cadmium	3.8		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	220		4.4	0.47	mg/Kg	10		6010B	Total/NA
Cobalt	10		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	1600		13	6.3	mg/Kg	10		6010B	Total/NA
Lead	16000	^	4.4	0.93	mg/Kg	10		6010B	Total/NA
Molybdenum	0.63	J	4.4	0.57	mg/Kg	10		6010B	Total/NA
Nickel	42		4.4	0.45	mg/Kg	10		6010B	Total/NA
Selenium	9.0		8.8	1.3	mg/Kg	10		6010B	Total/NA
Silver	11		2.2	0.45	mg/Kg	10		6010B	Total/NA
Vanadium	29		4.4	0.60	mg/Kg	10		6010B	Total/NA
Zinc	2700		13	5.6	mg/Kg	10		6010B	Total/NA
Mercury	1.0		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-68

Lab Sample ID: 720-91070-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	30		4.6	0.77	mg/Kg	10		6010B	Total/NA
Arsenic	17		9.3	0.79	mg/Kg	10		6010B	Total/NA
Barium	1300		4.6	0.66	mg/Kg	10		6010B	Total/NA
Beryllium	0.38	J	0.93	0.30	mg/Kg	10		6010B	Total/NA
Cadmium	7.2		1.2	0.11	mg/Kg	10		6010B	Total/NA
Chromium	77		4.6	0.49	mg/Kg	10		6010B	Total/NA
Cobalt	8.8		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	510		14	6.6	mg/Kg	10		6010B	Total/NA
Lead	3100	^	4.6	0.97	mg/Kg	10		6010B	Total/NA
Molybdenum	1.1	J	4.6	0.59	mg/Kg	10		6010B	Total/NA
Nickel	51		4.6	0.47	mg/Kg	10		6010B	Total/NA
Selenium	6.1	J	9.3	1.4	mg/Kg	10		6010B	Total/NA
Silver	13		2.3	0.47	mg/Kg	10		6010B	Total/NA
Vanadium	28		4.6	0.63	mg/Kg	10		6010B	Total/NA
Zinc	2100		14	5.9	mg/Kg	10		6010B	Total/NA
Mercury	1.9		0.064	0.0094	mg/Kg	4		7471A	Total/NA

Client Sample ID: DUP-69

Lab Sample ID: 720-91070-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	0.52	J	2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	33		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.30		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	14		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.9		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	110		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	67	^	1.1	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-69 (Continued) — Lab Sample ID: 720-91070-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.18	J	1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	3.7		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.59	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	47		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.031		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y10S-0.5-1 — Lab Sample ID: 720-91070-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.8		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	7.4		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	70		1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	2.5		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	20		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	140		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	250	^	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	12		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Silver	0.28	J	0.65	0.13	mg/Kg	4		6010B	Total/NA
Thallium	0.45	J	1.3	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	310		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y10S-3.5-4 — Lab Sample ID: 720-91070-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3		1.1	0.19	mg/Kg	4		6010B	Total/NA
Barium	18		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	7.6		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.9		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	83		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	20		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	3.1		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.60	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Thallium	0.46	J	1.1	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	57		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.037		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X10S-0.5-1 — Lab Sample ID: 720-91070-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Barium	24		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	6.8		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.68	0.068	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X10S-0.5-1 (Continued)
Lab Sample ID: 720-91070-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	110		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	53	^	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	2.9		1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	42		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.041		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X10S-3.5-4
Lab Sample ID: 720-91070-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	21		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	9.8		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	490		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.87		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	18		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	3.4		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	330		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	1800	B	1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.33	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	16		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	1.9		0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	12		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	700		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.62		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W10S-0.5-1
Lab Sample ID: 720-91070-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12	F1	7.0	1.2	mg/Kg	20		6010B	Total/NA
Arsenic	5.5	J	14	1.2	mg/Kg	20		6010B	Total/NA
Barium	760	F2	7.0	1.0	mg/Kg	20		6010B	Total/NA
Cadmium	4.4		1.8	0.17	mg/Kg	20		6010B	Total/NA
Chromium	54	F1	7.0	0.75	mg/Kg	20		6010B	Total/NA
Cobalt	35	F1	2.8	0.28	mg/Kg	20		6010B	Total/NA
Copper	700	F2	21	10	mg/Kg	20		6010B	Total/NA
Lead	1300	F2	7.0	1.5	mg/Kg	20		6010B	Total/NA
Molybdenum	1.2	J	7.0	0.90	mg/Kg	20		6010B	Total/NA
Nickel	30	F1	7.0	0.72	mg/Kg	20		6010B	Total/NA
Silver	2.0	J	3.5	0.71	mg/Kg	20		6010B	Total/NA
Vanadium	280		7.0	0.96	mg/Kg	20		6010B	Total/NA
Zinc	980	F2	21	8.9	mg/Kg	20		6010B	Total/NA
Mercury	0.26		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W10S-3.5-4
Lab Sample ID: 720-91070-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	77		4.0	0.66	mg/Kg	10		6010B	Total/NA
Arsenic	25		7.9	0.67	mg/Kg	10		6010B	Total/NA
Barium	1000		4.0	0.56	mg/Kg	10		6010B	Total/NA
Cadmium	5.5		0.99	0.098	mg/Kg	10		6010B	Total/NA
Chromium	41		4.0	0.42	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-W10S-3.5-4 (Continued)

Lab Sample ID: 720-91070-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.6		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	880		12	5.7	mg/Kg	10		6010B	Total/NA
Lead	5600	B	4.0	0.83	mg/Kg	10		6010B	Total/NA
Molybdenum	0.85	J	4.0	0.51	mg/Kg	10		6010B	Total/NA
Nickel	54		4.0	0.40	mg/Kg	10		6010B	Total/NA
Selenium	2.2	J	7.9	1.2	mg/Kg	10		6010B	Total/NA
Silver	12		2.0	0.40	mg/Kg	10		6010B	Total/NA
Vanadium	22		4.0	0.54	mg/Kg	10		6010B	Total/NA
Zinc	2800		12	5.0	mg/Kg	10		6010B	Total/NA
Mercury	2.3		0.066	0.0097	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-R10S-0.5-1

Lab Sample ID: 720-91070-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.75	J	4.2	0.69	mg/Kg	10		6010B	Total/NA
Arsenic	7.2	J	8.3	0.71	mg/Kg	10		6010B	Total/NA
Barium	130		4.2	0.59	mg/Kg	10		6010B	Total/NA
Beryllium	0.38	J	0.83	0.27	mg/Kg	10		6010B	Total/NA
Chromium	95		4.2	0.44	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	26		13	5.9	mg/Kg	10		6010B	Total/NA
Lead	45	B	4.2	0.88	mg/Kg	10		6010B	Total/NA
Nickel	59		4.2	0.43	mg/Kg	10		6010B	Total/NA
Silver	0.51	J	2.1	0.42	mg/Kg	10		6010B	Total/NA
Vanadium	83		4.2	0.57	mg/Kg	10		6010B	Total/NA
Zinc	100		13	5.3	mg/Kg	10		6010B	Total/NA
Mercury	0.053		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R10S-3.5-4

Lab Sample ID: 720-91070-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.1		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	21		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	51		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.86		0.31	0.10	mg/Kg	4		6010B	Total/NA
Chromium	28		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	33		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	36	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.34	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	29		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	91		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.052		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R8S-0.5-1

Lab Sample ID: 720-91070-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	34		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.29	J	0.35	0.11	mg/Kg	4		6010B	Total/NA
Chromium	9.4		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.70	0.070	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-R8S-0.5-1 (Continued)

Lab Sample ID: 720-91070-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	110		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	2.9	B	1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	4.6		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	84		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	37		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.082		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R8S-3.5-4

Lab Sample ID: 720-91070-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.36	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	1.6	J	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	29		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.22	0.071	mg/Kg	4		6010B	Total/NA
Chromium	6.7		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	5.1		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	73		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	220	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	2.7		1.1	0.11	mg/Kg	4		6010B	Total/NA
Silver	0.12	J	0.55	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	99		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.062		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O8S-0.5-1

Lab Sample ID: 720-91070-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	110		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	62		1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.78		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	17		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	180		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	330	B	1.9	0.41	mg/Kg	4		6010B	Total/NA
Nickel	19		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.64	J	3.9	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	200		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.23		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-O8S-3.5-4

Lab Sample ID: 720-91070-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.3	J	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	41		1.4	0.20	mg/Kg	4		6010B	Total/NA
Chromium	44		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	5.7		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	2.8	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	29		1.4	0.14	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-O8S-3.5-4 (Continued)
Lab Sample ID: 720-91070-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	34		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	17		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.011	J	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S8S-0.5-1
Lab Sample ID: 720-91070-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.51	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	32		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.23	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Chromium	13		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.3		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	110		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	12	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.33	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	4.1		1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	75		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	36		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-S8S-3.5-4
Lab Sample ID: 720-91070-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.76	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	3.7		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	30		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Chromium	7.2		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	91		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	33	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.18	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	4.9		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.65	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	0.20	J	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	81		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	54		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.059		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W8S-0.5-1
Lab Sample ID: 720-91070-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	17	F2 F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	7.6		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	690	F2	1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.99		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	22	F2	1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	5.9		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	150	F2 F1	5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	740	B	1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.9	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W8S-0.5-1 (Continued) — Lab Sample ID: 720-91070-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	23		1.9	0.20	mg/Kg	4		6010B	Total/NA
Silver	1.6		0.97	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	700	F2	5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.24		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W8S-3.5-4 — Lab Sample ID: 720-91070-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19		3.9	0.65	mg/Kg	10		6010B	Total/NA
Arsenic	11		7.8	0.66	mg/Kg	10		6010B	Total/NA
Barium	1200		3.9	0.55	mg/Kg	10		6010B	Total/NA
Beryllium	0.67	J	0.78	0.25	mg/Kg	10		6010B	Total/NA
Cadmium	1.5		0.98	0.097	mg/Kg	10		6010B	Total/NA
Chromium	28		3.9	0.41	mg/Kg	10		6010B	Total/NA
Cobalt	4.7		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	500		12	5.6	mg/Kg	10		6010B	Total/NA
Lead	2800	B	3.9	0.82	mg/Kg	10		6010B	Total/NA
Nickel	42		3.9	0.40	mg/Kg	10		6010B	Total/NA
Silver	6.3		2.0	0.39	mg/Kg	10		6010B	Total/NA
Vanadium	26		3.9	0.53	mg/Kg	10		6010B	Total/NA
Zinc	1500		12	5.0	mg/Kg	10		6010B	Total/NA
Mercury	0.39		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X8S-0.5-1 — Lab Sample ID: 720-91070-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	4.7		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	150		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.45		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	17		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	5.1		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	48		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	240	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	20		1.6	0.17	mg/Kg	4		6010B	Total/NA
Silver	1.3		0.82	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	190		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.080		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X8S-3.5-4 — Lab Sample ID: 720-91070-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	28		3.8	0.64	mg/Kg	10		6010B	Total/NA
Arsenic	34		7.7	0.65	mg/Kg	10		6010B	Total/NA
Barium	970		3.8	0.55	mg/Kg	10		6010B	Total/NA
Cadmium	5.9		0.96	0.095	mg/Kg	10		6010B	Total/NA
Chromium	38		3.8	0.41	mg/Kg	10		6010B	Total/NA
Cobalt	12		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	790		12	5.5	mg/Kg	10		6010B	Total/NA
Lead	9600	B	3.8	0.81	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-X8S-3.5-4 (Continued) Lab Sample ID: 720-91070-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	42		3.8	0.39	mg/Kg	10		6010B	Total/NA
Selenium	4.0	J	7.7	1.2	mg/Kg	10		6010B	Total/NA
Silver	4.8		1.9	0.39	mg/Kg	10		6010B	Total/NA
Vanadium	32		3.8	0.52	mg/Kg	10		6010B	Total/NA
Zinc	4000		12	4.9	mg/Kg	10		6010B	Total/NA
Mercury	0.19		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y8S-0.5-1 Lab Sample ID: 720-91070-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	95		4.5	0.74	mg/Kg	10		6010B	Total/NA
Arsenic	22		8.9	0.76	mg/Kg	10		6010B	Total/NA
Barium	2300		4.5	0.63	mg/Kg	10		6010B	Total/NA
Beryllium	0.52	J	0.89	0.29	mg/Kg	10		6010B	Total/NA
Cadmium	3.9		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	47		4.5	0.47	mg/Kg	10		6010B	Total/NA
Cobalt	7.2		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	1100		13	6.4	mg/Kg	10		6010B	Total/NA
Lead	7600	B	4.5	0.94	mg/Kg	10		6010B	Total/NA
Molybdenum	0.64	J	4.5	0.57	mg/Kg	10		6010B	Total/NA
Nickel	45		4.5	0.46	mg/Kg	10		6010B	Total/NA
Silver	6.9		2.2	0.45	mg/Kg	10		6010B	Total/NA
Vanadium	27		4.5	0.61	mg/Kg	10		6010B	Total/NA
Zinc	2900		13	5.7	mg/Kg	10		6010B	Total/NA
Mercury	0.61		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y8S-3.5-4 Lab Sample ID: 720-91070-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	79		3.0	0.50	mg/Kg	10		6010B	Total/NA
Arsenic	68		6.0	0.51	mg/Kg	10		6010B	Total/NA
Barium	1100		3.0	0.43	mg/Kg	10		6010B	Total/NA
Cadmium	5.2		0.75	0.075	mg/Kg	10		6010B	Total/NA
Chromium	44		3.0	0.32	mg/Kg	10		6010B	Total/NA
Cobalt	12		1.2	0.12	mg/Kg	10		6010B	Total/NA
Copper	15000		9.0	4.3	mg/Kg	10		6010B	Total/NA
Lead	5000	B	3.0	0.63	mg/Kg	10		6010B	Total/NA
Molybdenum	2.8	J	3.0	0.39	mg/Kg	10		6010B	Total/NA
Nickel	82		3.0	0.31	mg/Kg	10		6010B	Total/NA
Selenium	2.1	J	6.0	0.90	mg/Kg	10		6010B	Total/NA
Silver	9.1		1.5	0.30	mg/Kg	10		6010B	Total/NA
Thallium	1.0	J	3.0	0.87	mg/Kg	10		6010B	Total/NA
Vanadium	15		3.0	0.41	mg/Kg	10		6010B	Total/NA
Zinc	2800		9.0	3.8	mg/Kg	10		6010B	Total/NA
Mercury	0.70		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z8S-0.5-1 Lab Sample ID: 720-91070-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	13		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	550		1.3	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z8S-0.5-1 (Continued)

Lab Sample ID: 720-91070-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.25	J	0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	1.4		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	32		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	370		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	1900	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.33	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	38		1.3	0.14	mg/Kg	4		6010B	Total/NA
Silver	2.2		0.67	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	1200		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.60		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z8S-3.5-4

Lab Sample ID: 720-91070-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	44		4.2	0.69	mg/Kg	10		6010B	Total/NA
Arsenic	29		8.3	0.71	mg/Kg	10		6010B	Total/NA
Barium	1400		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.36		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	8.8		1.0	0.10	mg/Kg	10		6010B	Total/NA
Chromium	42		4.2	0.44	mg/Kg	10		6010B	Total/NA
Cobalt	8.7		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	760		13	5.9	mg/Kg	10		6010B	Total/NA
Lead	4900	B	4.2	0.88	mg/Kg	10		6010B	Total/NA
Molybdenum	0.64	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	44		4.2	0.43	mg/Kg	10		6010B	Total/NA
Selenium	1.5	J	8.3	1.3	mg/Kg	10		6010B	Total/NA
Silver	5.7		2.1	0.42	mg/Kg	10		6010B	Total/NA
Vanadium	26		4.2	0.57	mg/Kg	10		6010B	Total/NA
Zinc	2700		13	5.3	mg/Kg	10		6010B	Total/NA
Mercury	1.5		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-52

Lab Sample ID: 720-91070-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.64	J	3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	33		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Chromium	12		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	120		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	15	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	3.9		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	38		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-53

Lab Sample ID: 720-91070-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	26		1.5	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-53 (Continued)

Lab Sample ID: 720-91070-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	1500		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	1.0		0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	2.6		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	36		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	5.4		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	620		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	6600	B	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.84	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	38		1.5	0.15	mg/Kg	4		6010B	Total/NA
Silver	6.6		0.74	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	2200		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.46		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-54

Lab Sample ID: 720-91070-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	20		4.2	0.70	mg/Kg	10		6010B	Total/NA
Arsenic	17		8.5	0.72	mg/Kg	10		6010B	Total/NA
Barium	1000		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.30	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	3.5		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	28	B	4.2	0.45	mg/Kg	10		6010B	Total/NA
Cobalt	7.2		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	560		13	6.0	mg/Kg	10		6010B	Total/NA
Lead	2600		4.2	0.89	mg/Kg	10		6010B	Total/NA
Molybdenum	1.0	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	29		4.2	0.43	mg/Kg	10		6010B	Total/NA
Silver	2.5		2.1	0.43	mg/Kg	10		6010B	Total/NA
Vanadium	24		4.2	0.58	mg/Kg	10		6010B	Total/NA
Zinc	1500		13	5.4	mg/Kg	10		6010B	Total/NA
Mercury	1.1		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA8S-0.5-1

Lab Sample ID: 720-91070-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	13		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	26		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	740		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.27	0.089	mg/Kg	4		6010B	Total/NA
Cadmium	2.8		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	43	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	860		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	2000	^	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	1.0	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	38		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Silver	4.7		0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	1400		4.1	1.7	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AA8S-0.5-1 (Continued) Lab Sample ID: 720-91070-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.60		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA8S-3.5-4 Lab Sample ID: 720-91070-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	37	F1 F2	9.0	1.5	mg/Kg	20		6010B	Total/NA
Arsenic	33		18	1.5	mg/Kg	20		6010B	Total/NA
Barium	2600	F2	9.0	1.3	mg/Kg	20		6010B	Total/NA
Cadmium	28	F1 F2	2.3	0.22	mg/Kg	20		6010B	Total/NA
Chromium	310	B F2	9.0	0.95	mg/Kg	20		6010B	Total/NA
Cobalt	14	F2	3.6	0.36	mg/Kg	20		6010B	Total/NA
Copper	1500	F2	27	13	mg/Kg	20		6010B	Total/NA
Lead	12000	^ F2	9.0	1.9	mg/Kg	20		6010B	Total/NA
Nickel	57	F1	9.0	0.92	mg/Kg	20		6010B	Total/NA
Selenium	3.6	J F1 F2	18	2.7	mg/Kg	20		6010B	Total/NA
Silver	16	F1	4.5	0.91	mg/Kg	20		6010B	Total/NA
Vanadium	31	F1 F2	9.0	1.2	mg/Kg	20		6010B	Total/NA
Zinc	10000		27	11	mg/Kg	20		6010B	Total/NA
Mercury	0.022		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AI10S-0.5-1
Lab Sample ID: 720-91070-1
Date Collected: 01/29/19 07:55
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.6	0.26	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Arsenic	2.0	J	3.2	0.27	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Barium	61		1.6	0.23	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Beryllium	ND		0.32	0.10	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Cadmium	0.72		0.40	0.039	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Chromium	55		1.6	0.17	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Cobalt	9.6		0.63	0.063	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Copper	110		4.8	2.3	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Lead	650		1.6	0.33	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Molybdenum	0.92	J	1.6	0.20	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Nickel	9.9		1.6	0.16	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Selenium	0.72	J	3.2	0.48	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Silver	ND		0.79	0.16	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Thallium	ND		1.6	0.46	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Vanadium	85		1.6	0.22	mg/Kg		01/30/19 11:00	02/07/19 23:07	4
Zinc	250		4.8	2.0	mg/Kg		01/30/19 11:00	02/07/19 23:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.05	%			01/31/19 08:56	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AI10S-3.5-4
Lab Sample ID: 720-91070-2
Date Collected: 01/29/19 07:55
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.9	0.32	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Arsenic	3.5	J	3.8	0.32	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Barium	45		1.9	0.27	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Beryllium	ND		0.38	0.12	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Cadmium	0.13	J	0.48	0.047	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Chromium	11		1.9	0.20	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Cobalt	3.8		0.76	0.076	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Copper	19		5.7	2.7	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Lead	18		1.9	0.40	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Nickel	11		1.9	0.19	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Selenium	0.57	J	3.8	0.57	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Silver	ND		0.95	0.19	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Thallium	ND		1.9	0.55	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Vanadium	24		1.9	0.26	mg/Kg		01/30/19 11:00	02/07/19 23:12	4
Zinc	28		5.7	2.4	mg/Kg		01/30/19 11:00	02/07/19 23:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0084	J	0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.0		0.1	0.05	%			01/31/19 08:56	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AC10S-0.5-1
Lab Sample ID: 720-91070-3
Date Collected: 01/29/19 08:30
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.7		1.2	0.20	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Arsenic	3.8		2.4	0.21	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Barium	150		1.2	0.17	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Beryllium	ND		0.24	0.079	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Cadmium	1.6		0.30	0.030	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Chromium	16		1.2	0.13	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Cobalt	11		0.49	0.049	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Copper	210		3.7	1.7	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Lead	180		1.2	0.26	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Molybdenum	3.5		1.2	0.16	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Nickel	9.7		1.2	0.12	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Selenium	0.49	J	2.4	0.37	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Silver	0.13	J	0.61	0.12	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Thallium	0.55	J	1.2	0.35	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Vanadium	63		1.2	0.17	mg/Kg		01/30/19 11:00	02/07/19 23:17	4
Zinc	440		3.7	1.5	mg/Kg		01/30/19 11:00	02/07/19 23:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.017	0.0025	mg/Kg		02/11/19 17:38	02/12/19 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.0		0.1	0.05	%			01/31/19 08:56	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AC10S-3.5-4
Lab Sample ID: 720-91070-4
Date Collected: 01/29/19 08:30
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.40**	**J**	1.4	0.24	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Arsenic	ND		2.9	0.25	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Barium	**31**		1.4	0.21	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Beryllium	ND		0.29	0.094	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Cadmium	**0.054**	**J**	0.36	0.036	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Chromium	**7.5**		1.4	0.15	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Cobalt	**8.5**		0.58	0.058	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Copper	**110**		4.3	2.1	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Lead	**29**		1.4	0.30	mg/Kg		01/30/19 11:00	02/09/19 12:57	4
Molybdenum	ND		1.4	0.19	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Nickel	**2.8**		1.4	0.15	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Selenium	ND		2.9	0.43	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Silver	ND		0.72	0.15	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Thallium	ND		1.4	0.42	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Vanadium	**74**		1.4	0.20	mg/Kg		01/30/19 11:00	02/07/19 23:31	4
Zinc	**26**		4.3	1.8	mg/Kg		01/30/19 11:00	02/07/19 23:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**		0.016	0.0024	mg/Kg		02/11/19 17:38	02/12/19 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.0**		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-AB10S-0.5-1 Lab Sample ID: 720-91070-5

Date Collected: 01/29/19 08:35 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	210		3.8	0.63	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Arsenic	25		7.6	0.64	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Barium	130		3.8	0.54	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Beryllium	ND		0.76	0.25	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Cadmium	2.4		0.95	0.094	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Chromium	34		3.8	0.40	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Cobalt	11		1.5	0.15	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Copper	670		11	5.4	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Lead	5200	^	3.8	0.80	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Molybdenum	1.5	J	3.8	0.48	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Nickel	34		3.8	0.39	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Selenium	3.3	J	7.6	1.1	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Silver	0.83	J	1.9	0.38	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Thallium	ND		3.8	1.1	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Vanadium	52		3.8	0.52	mg/Kg		01/30/19 11:00	02/07/19 23:36	10
Zinc	840		11	4.8	mg/Kg		01/30/19 11:00	02/07/19 23:36	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.9		0.15	0.023	mg/Kg		02/11/19 17:38	02/12/19 13:56	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			01/31/19 08:56	1

Client Sample ID: DG-AB10S-3.5-4 Lab Sample ID: 720-91070-6

Date Collected: 01/29/19 08:35 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.1		1.5	0.25	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Arsenic	12		3.0	0.25	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Barium	500		1.5	0.21	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Beryllium	0.43		0.30	0.097	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Cadmium	1.8		0.37	0.037	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Chromium	41		1.5	0.16	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Cobalt	8.7		0.60	0.060	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Copper	3500		4.5	2.1	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Lead	1100	^	1.5	0.31	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Molybdenum	0.56	J	1.5	0.19	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Nickel	34		1.5	0.15	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Selenium	2.8	J	3.0	0.45	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Silver	4.3		0.75	0.15	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Thallium	ND		1.5	0.43	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Vanadium	39		1.5	0.20	mg/Kg		01/30/19 11:00	02/07/19 23:41	4
Zinc	940		4.5	1.9	mg/Kg		01/30/19 11:00	02/07/19 23:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.0		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AA10S-0.5-1
Lab Sample ID: 720-91070-7
Date Collected: 01/29/19 08:40
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.2	0.20	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Arsenic	2.9		2.5	0.21	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Barium	47		1.2	0.18	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Beryllium	ND		0.25	0.080	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Cadmium	0.47		0.31	0.031	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Chromium	9.3		1.2	0.13	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Cobalt	8.1		0.49	0.049	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Copper	120		3.7	1.8	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Lead	150	^	1.2	0.26	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Molybdenum	0.24	J	1.2	0.16	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Nickel	7.7		1.2	0.13	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Selenium	ND		2.5	0.37	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Silver	ND		0.62	0.12	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Thallium	0.80	J	1.2	0.36	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Vanadium	71		1.2	0.17	mg/Kg		01/30/19 11:00	02/07/19 23:46	4
Zinc	84		3.7	1.6	mg/Kg		01/30/19 11:00	02/07/19 23:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.014	0.0021	mg/Kg		02/11/19 17:38	02/12/19 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AA10S-3.5-4
Lab Sample ID: 720-91070-8
Date Collected: 01/29/19 08:40
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	45		3.9	0.64	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Arsenic	20		7.8	0.66	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Barium	1400		3.9	0.55	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Beryllium	0.35	J	0.78	0.25	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Cadmium	4.2		0.97	0.096	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Chromium	51		3.9	0.41	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Cobalt	5.8		1.6	0.16	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Copper	880		12	5.5	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Lead	11000	^	3.9	0.81	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Molybdenum	ND		3.9	0.50	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Nickel	41		3.9	0.40	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Selenium	3.4	J	7.8	1.2	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Silver	11		1.9	0.39	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Thallium	ND		3.9	1.1	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Vanadium	29		3.9	0.53	mg/Kg		01/30/19 11:00	02/07/19 23:50	10
Zinc	3400		12	4.9	mg/Kg		01/30/19 11:00	02/07/19 23:50	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61		0.016	0.0023	mg/Kg		02/11/19 17:38	02/12/19 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.1		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Z10S-0.5-1
Lab Sample ID: 720-91070-9
Date Collected: 01/29/19 08:50
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.6		1.1	0.19	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Arsenic	110		2.3	0.19	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Barium	80		1.1	0.16	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Beryllium	ND		0.23	0.074	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Cadmium	2.3		0.29	0.028	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Chromium	410		1.1	0.12	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Cobalt	8.5		0.46	0.046	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Copper	160		3.4	1.6	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Lead	250	^	1.1	0.24	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Molybdenum	1.1		1.1	0.15	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Nickel	12		1.1	0.12	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Selenium	1.1	J	2.3	0.34	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Silver	0.17	J	0.57	0.12	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Thallium	0.57	J	1.1	0.33	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Vanadium	61		1.1	0.16	mg/Kg		01/30/19 11:00	02/07/19 23:55	4
Zinc	430		3.4	1.5	mg/Kg		01/30/19 11:00	02/07/19 23:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.014	0.0021	mg/Kg		02/11/19 17:38	02/12/19 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.5		0.1	0.05	%			01/31/19 10:01	1

Client Sample ID: DG-Z10S-3.5-4 Lab Sample ID: 720-91070-10

Date Collected: 01/29/19 08:50 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	60		4.4	0.73	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Arsenic	24		8.8	0.75	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Barium	1400		4.4	0.63	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Beryllium	ND		0.88	0.29	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Cadmium	3.8		1.1	0.11	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Chromium	220		4.4	0.47	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Cobalt	10		1.8	0.18	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Copper	1600		13	6.3	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Lead	16000	^	4.4	0.93	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Molybdenum	0.63	J	4.4	0.57	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Nickel	42		4.4	0.45	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Selenium	9.0		8.8	1.3	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Silver	11		2.2	0.45	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Thallium	ND		4.4	1.3	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Vanadium	29		4.4	0.60	mg/Kg		01/30/19 11:00	02/08/19 00:00	10
Zinc	2700		13	5.6	mg/Kg		01/30/19 11:00	02/08/19 00:00	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.016	0.0024	mg/Kg		02/11/19 17:38	02/12/19 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.4		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DUP-68

Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	30		4.6	0.77	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Arsenic	17		9.3	0.79	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Barium	1300		4.6	0.66	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Beryllium	0.38	J	0.93	0.30	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Cadmium	7.2		1.2	0.11	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Chromium	77		4.6	0.49	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Cobalt	8.8		1.9	0.19	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Copper	510		14	6.6	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Lead	3100	^	4.6	0.97	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Molybdenum	1.1	J	4.6	0.59	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Nickel	51		4.6	0.47	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Selenium	6.1	J	9.3	1.4	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Silver	13		2.3	0.47	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Thallium	ND		4.6	1.3	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Vanadium	28		4.6	0.63	mg/Kg		01/30/19 11:00	02/08/19 00:05	10
Zinc	2100		14	5.9	mg/Kg		01/30/19 11:00	02/08/19 00:05	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.9		0.064	0.0094	mg/Kg		02/11/19 17:38	02/12/19 14:01	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.2		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DUP-69

Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.1	0.19	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Arsenic	0.52	J	2.3	0.20	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Barium	33		1.1	0.16	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Beryllium	ND		0.23	0.075	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Cadmium	0.30		0.29	0.029	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Chromium	14		1.1	0.12	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Cobalt	7.9		0.46	0.046	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Copper	110		3.4	1.6	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Lead	67	^	1.1	0.24	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Molybdenum	0.18	J	1.1	0.15	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Nickel	3.7		1.1	0.12	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Selenium	0.59	J	2.3	0.34	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Silver	ND		0.57	0.12	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Thallium	ND		1.1	0.33	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Vanadium	62		1.1	0.16	mg/Kg		01/30/19 11:00	02/08/19 00:09	4
Zinc	47		3.4	1.5	mg/Kg		01/30/19 11:00	02/08/19 00:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.017	0.0025	mg/Kg		02/11/19 17:38	02/12/19 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Y10S-0.5-1
Lab Sample ID: 720-91070-13
Date Collected: 01/29/19 09:10
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.8		1.3	0.22	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Arsenic	7.4		2.6	0.22	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Barium	70		1.3	0.18	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Beryllium	ND		0.26	0.084	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Cadmium	2.5		0.32	0.032	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Chromium	20		1.3	0.14	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Cobalt	9.8		0.52	0.052	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Copper	140		3.9	1.8	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Lead	250	^	1.3	0.27	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Molybdenum	1.1	J	1.3	0.17	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Nickel	12		1.3	0.13	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Selenium	1.3	J	2.6	0.39	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Silver	0.28	J	0.65	0.13	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Thallium	0.45	J	1.3	0.38	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Vanadium	63		1.3	0.18	mg/Kg		01/30/19 11:00	02/08/19 00:14	4
Zinc	310		3.9	1.6	mg/Kg		01/30/19 11:00	02/08/19 00:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.014	0.0021	mg/Kg		02/11/19 17:38	02/12/19 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Y10S-3.5-4
Lab Sample ID: 720-91070-14
Date Collected: 01/29/19 09:10
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3		1.1	0.19	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Arsenic	ND		2.3	0.20	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Barium	18		1.1	0.16	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Beryllium	ND		0.23	0.075	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Cadmium	0.21	J	0.29	0.029	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Chromium	7.6		1.1	0.12	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Cobalt	7.9		0.46	0.046	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Copper	83		3.4	1.6	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Lead	20		1.1	0.24	mg/Kg		01/30/19 11:00	02/12/19 14:06	4
Molybdenum	ND		1.1	0.15	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Nickel	3.1		1.1	0.12	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Selenium	0.60	J	2.3	0.34	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Silver	ND		0.57	0.12	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Thallium	0.46	J	1.1	0.33	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Vanadium	68		1.1	0.16	mg/Kg		01/30/19 11:00	02/08/19 00:29	4
Zinc	57		3.4	1.5	mg/Kg		01/30/19 11:00	02/08/19 00:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.015	0.0022	mg/Kg		02/11/19 17:38	02/12/19 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-X10S-0.5-1
Lab Sample ID: 720-91070-15

Date Collected: 01/29/19 09:15
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.7	0.28	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Arsenic	ND		3.4	0.29	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Barium	24		1.7	0.24	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Beryllium	ND		0.34	0.11	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Cadmium	0.12	J	0.43	0.042	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Chromium	6.8		1.7	0.18	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Cobalt	9.8		0.68	0.068	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Copper	110		5.1	2.4	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Lead	53	^	1.7	0.36	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Nickel	2.9		1.7	0.17	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Selenium	ND		3.4	0.51	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Silver	ND		0.85	0.17	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Thallium	ND		1.7	0.50	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Vanadium	87		1.7	0.23	mg/Kg		01/30/19 11:00	02/08/19 00:33	4
Zinc	42		5.1	2.2	mg/Kg		01/30/19 11:00	02/08/19 00:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.016	0.0024	mg/Kg		02/11/19 17:38	02/12/19 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-X10S-3.5-4
Date Collected: 01/29/19 09:15
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-16
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	21		1.8	0.29	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Arsenic	9.8		3.5	0.30	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Barium	490		1.8	0.25	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Beryllium	0.12	J	0.35	0.12	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Cadmium	0.87		0.44	0.044	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Chromium	18		1.8	0.19	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Cobalt	3.4		0.71	0.071	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Copper	330		5.3	2.5	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Lead	1800	B	1.8	0.37	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Molybdenum	0.33	J	1.8	0.23	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Nickel	16		1.8	0.18	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Selenium	ND		3.5	0.53	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Silver	1.9		0.88	0.18	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Thallium	ND		1.8	0.51	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Vanadium	12		1.8	0.24	mg/Kg		01/30/19 12:08	02/07/19 23:30	4
Zinc	700		5.3	2.2	mg/Kg		01/30/19 12:08	02/07/19 23:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.62		0.016	0.0023	mg/Kg		02/11/19 17:38	02/12/19 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.1		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-W10S-0.5-1
Lab Sample ID: 720-91070-17
Date Collected: 01/29/19 09:25
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12	F1	7.0	1.2	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Arsenic	5.5	J	14	1.2	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Barium	760	F2	7.0	1.0	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Beryllium	ND		1.4	0.46	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Cadmium	4.4		1.8	0.17	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Chromium	54	F1	7.0	0.75	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Cobalt	35	F1	2.8	0.28	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Copper	700	F2	21	10	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Lead	1300	F2	7.0	1.5	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Molybdenum	1.2	J	7.0	0.90	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Nickel	30	F1	7.0	0.72	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Selenium	ND		14	2.1	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Silver	2.0	J	3.5	0.71	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Thallium	ND		1.4	0.41	mg/Kg		01/30/19 11:00	03/12/19 11:10	4
Vanadium	280		7.0	0.96	mg/Kg		01/30/19 11:00	02/07/19 22:43	20
Zinc	980	F2	21	8.9	mg/Kg		01/30/19 11:00	02/07/19 22:43	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.016	0.0024	mg/Kg		02/11/19 17:38	02/12/19 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-W10S-3.5-4

Date Collected: 01/29/19 09:25
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	77		4.0	0.66	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Arsenic	25		7.9	0.67	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Barium	1000		4.0	0.56	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Beryllium	ND		0.79	0.26	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Cadmium	5.5		0.99	0.098	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Chromium	41		4.0	0.42	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Cobalt	8.6		1.6	0.16	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Copper	880		12	5.7	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Lead	5600	B	4.0	0.83	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Molybdenum	0.85	J	4.0	0.51	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Nickel	54		4.0	0.40	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Selenium	2.2	J	7.9	1.2	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Silver	12		2.0	0.40	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Thallium	ND		4.0	1.2	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Vanadium	22		4.0	0.54	mg/Kg		01/30/19 12:08	02/07/19 23:35	10
Zinc	2800		12	5.0	mg/Kg		01/30/19 12:08	02/07/19 23:35	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.3		0.066	0.0097	mg/Kg		02/11/19 16:16	02/11/19 18:40	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	37.7		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-R10S-0.5-1
Lab Sample ID: 720-91070-19

Date Collected: 01/29/19 10:10
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.75	J	4.2	0.69	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Arsenic	7.2	J	8.3	0.71	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Barium	130		4.2	0.59	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Beryllium	0.38	J	0.83	0.27	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Cadmium	ND		1.0	0.10	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Chromium	95		4.2	0.44	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Cobalt	15		1.7	0.17	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Copper	26		13	5.9	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Lead	45	B	4.2	0.88	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Molybdenum	ND		4.2	0.53	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Nickel	59		4.2	0.43	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Selenium	ND		8.3	1.3	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Silver	0.51	J	2.1	0.42	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Thallium	ND		4.2	1.2	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Vanadium	83		4.2	0.57	mg/Kg		01/30/19 12:08	02/07/19 23:39	10
Zinc	100		13	5.3	mg/Kg		01/30/19 12:08	02/07/19 23:39	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.014	0.0021	mg/Kg		02/11/19 16:16	02/11/19 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.1		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-R10S-3.5-4
Lab Sample ID: 720-91070-20
Date Collected: 01/29/19 10:10
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.1		1.6	0.26	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Arsenic	21		3.1	0.27	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Barium	51		1.6	0.22	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Beryllium	0.86		0.31	0.10	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Cadmium	ND		0.39	0.039	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Chromium	28		1.6	0.17	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Cobalt	16		0.63	0.063	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Copper	33		4.7	2.2	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Lead	36	B	1.6	0.33	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Molybdenum	0.34	J	1.6	0.20	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Nickel	29		1.6	0.16	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Selenium	ND		3.1	0.47	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Silver	ND		0.78	0.16	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Thallium	ND		1.6	0.45	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Vanadium	33		1.6	0.21	mg/Kg		01/30/19 12:08	02/07/19 23:44	4
Zinc	91		4.7	2.0	mg/Kg		01/30/19 12:08	02/07/19 23:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.016	0.0023	mg/Kg		02/11/19 16:16	02/11/19 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.3		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-R8S-0.5-1

Date Collected: 01/29/19 10:35
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.29	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Arsenic	ND		3.5	0.30	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Barium	**34**		1.8	0.25	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Beryllium	**0.29**	**J**	0.35	0.11	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Cadmium	ND		0.44	0.044	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Chromium	**9.4**		1.8	0.19	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Cobalt	**9.9**		0.70	0.070	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Copper	**110**		5.3	2.5	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Lead	**2.9**	**B**	1.8	0.37	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Molybdenum	ND		1.8	0.22	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Nickel	**4.6**		1.8	0.18	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Selenium	ND		3.5	0.53	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Silver	ND		0.88	0.18	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Thallium	ND		1.8	0.51	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Vanadium	**84**		1.8	0.24	mg/Kg		01/30/19 12:08	02/07/19 23:49	4
Zinc	**37**		5.3	2.2	mg/Kg		01/30/19 12:08	02/07/19 23:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.082**		0.015	0.0021	mg/Kg		02/11/19 16:16	02/11/19 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-R8S-3.5-4
Lab Sample ID: 720-91070-22

Date Collected: 01/29/19 10:35
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.18	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Arsenic	1.6	J	2.2	0.19	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Barium	29		1.1	0.16	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Beryllium	0.16	J	0.22	0.071	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Cadmium	ND		0.27	0.027	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Chromium	6.7		1.1	0.12	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Cobalt	5.1		0.44	0.044	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Copper	73		3.3	1.6	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Lead	220	B	1.1	0.23	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Nickel	2.7		1.1	0.11	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Selenium	ND		2.2	0.33	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Silver	0.12	J	0.55	0.11	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Thallium	ND		1.1	0.32	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Vanadium	51		1.1	0.15	mg/Kg		01/30/19 12:08	02/08/19 00:04	4
Zinc	99		3.3	1.4	mg/Kg		01/30/19 12:08	02/08/19 00:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.017	0.0025	mg/Kg		02/11/19 16:16	02/11/19 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.0		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-O8S-0.5-1
Lab Sample ID: 720-91070-23
Date Collected: 01/29/19 11:05
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.9	0.32	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Arsenic	110		3.9	0.33	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Barium	62		1.9	0.28	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Beryllium	0.20	J	0.39	0.13	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Cadmium	0.78		0.49	0.048	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Chromium	17		1.9	0.21	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Cobalt	10		0.78	0.078	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Copper	180		5.8	2.8	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Lead	330	B	1.9	0.41	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Molybdenum	ND		1.9	0.25	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Nickel	19		1.9	0.20	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Selenium	0.64	J	3.9	0.58	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Silver	ND		0.97	0.20	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Thallium	ND		1.9	0.56	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Vanadium	74		1.9	0.26	mg/Kg		01/30/19 12:08	02/08/19 00:08	4
Zinc	200		5.8	2.5	mg/Kg		01/30/19 12:08	02/08/19 00:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.016	0.0024	mg/Kg		02/11/19 16:16	02/11/19 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.1	0.05	%			01/31/19 10:01	1

Client Sample ID: DG-O8S-3.5-4 Lab Sample ID: 720-91070-24

Date Collected: 01/29/19 11:05 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.24	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Arsenic	**1.3**	**J**	2.8	0.24	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Barium	**41**		1.4	0.20	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Beryllium	ND		0.28	0.092	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Cadmium	ND		0.35	0.035	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Chromium	**44**		1.4	0.15	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Cobalt	**6.2**		0.57	0.057	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Copper	**5.7**		4.3	2.0	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Lead	**2.8**	**B**	1.4	0.30	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Nickel	**29**		1.4	0.14	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Selenium	ND		2.8	0.43	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Silver	ND		0.71	0.14	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Thallium	ND		1.4	0.41	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Vanadium	**34**		1.4	0.19	mg/Kg		01/30/19 12:08	02/08/19 00:13	4
Zinc	**17**		4.3	1.8	mg/Kg		01/30/19 12:08	02/08/19 00:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.015	0.0022	mg/Kg		02/11/19 16:16	02/11/19 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.05	%			01/31/19 10:01	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-S8S-0.5-1
Lab Sample ID: 720-91070-25
Date Collected: 01/29/19 11:40
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6	0.27	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Arsenic	**0.51**	**J**	3.2	0.27	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Barium	**32**		1.6	0.23	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Beryllium	**0.23**	**J**	0.32	0.10	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Cadmium	ND		0.40	0.040	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Chromium	**13**		1.6	0.17	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Cobalt	**8.3**		0.64	0.064	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Copper	**110**		4.8	2.3	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Lead	**12**	**B**	1.6	0.34	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Molybdenum	**0.33**	**J**	1.6	0.20	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Nickel	**4.1**		1.6	0.16	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Selenium	ND		3.2	0.48	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Silver	ND		0.80	0.16	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Thallium	ND		1.6	0.46	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Vanadium	**75**		1.6	0.22	mg/Kg		01/30/19 12:08	02/08/19 00:18	4
Zinc	**36**		4.8	2.0	mg/Kg		01/30/19 12:08	02/08/19 00:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.014	0.0021	mg/Kg		02/11/19 16:16	02/11/19 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-S8S-3.5-4
Lab Sample ID: 720-91070-26
Date Collected: 01/29/19 11:40
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.76	J	1.4	0.23	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Arsenic	3.7		2.8	0.24	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Barium	30		1.4	0.20	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Beryllium	0.19	J	0.28	0.090	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Cadmium	ND		0.35	0.034	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Chromium	7.2		1.4	0.15	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Cobalt	13		0.56	0.056	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Copper	91		4.2	2.0	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Lead	33	B	1.4	0.29	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Molybdenum	0.18	J	1.4	0.18	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Nickel	4.9		1.4	0.14	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Selenium	0.65	J	2.8	0.42	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Silver	0.20	J	0.69	0.14	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Thallium	ND		1.4	0.40	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Vanadium	81		1.4	0.19	mg/Kg		01/30/19 12:08	02/08/19 00:23	4
Zinc	54		4.2	1.8	mg/Kg		01/30/19 12:08	02/08/19 00:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.015	0.0022	mg/Kg		02/11/19 16:16	02/11/19 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-W8S-0.5-1

Date Collected: 01/29/19 13:15
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-27

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	17	F2 F1	1.9	0.32	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Arsenic	7.6		3.9	0.33	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Barium	690	F2	1.9	0.28	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Beryllium	0.16	J	0.39	0.13	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Cadmium	0.99		0.49	0.048	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Chromium	22	F2	1.9	0.21	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Cobalt	5.9		0.78	0.078	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Copper	150	F2 F1	5.8	2.8	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Lead	740	B	1.9	0.41	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Molybdenum	0.28	J	1.9	0.25	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Nickel	23		1.9	0.20	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Selenium	ND		3.9	0.58	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Silver	1.6		0.97	0.20	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Thallium	ND		1.9	0.56	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Vanadium	28		1.9	0.26	mg/Kg		01/30/19 12:08	02/07/19 23:25	4
Zinc	700	F2	5.8	2.5	mg/Kg		01/30/19 12:08	02/07/19 23:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.016	0.0023	mg/Kg		02/11/19 16:16	02/11/19 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-W8S-3.5-4

Date Collected: 01/29/19 13:15
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		3.9	0.65	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Arsenic	11		7.8	0.66	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Barium	1200		3.9	0.55	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Beryllium	0.67	J	0.78	0.25	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Cadmium	1.5		0.98	0.097	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Chromium	28		3.9	0.41	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Cobalt	4.7		1.6	0.16	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Copper	500		12	5.6	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Lead	2800	B	3.9	0.82	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Molybdenum	ND		3.9	0.50	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Nickel	42		3.9	0.40	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Selenium	ND		7.8	1.2	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Silver	6.3		2.0	0.39	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Thallium	ND		3.9	1.1	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Vanadium	26		3.9	0.53	mg/Kg		01/30/19 12:08	02/08/19 00:27	10
Zinc	1500		12	5.0	mg/Kg		01/30/19 12:08	02/08/19 00:27	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.39		0.016	0.0024	mg/Kg		02/11/19 16:16	02/11/19 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.1		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-X8S-0.5-1

Date Collected: 01/29/19 14:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.6	0.27	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Arsenic	4.7		3.3	0.28	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Barium	150		1.6	0.23	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Beryllium	ND		0.33	0.11	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Cadmium	0.45		0.41	0.041	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Chromium	17		1.6	0.17	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Cobalt	5.1		0.66	0.066	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Copper	48		4.9	2.3	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Lead	240	B	1.6	0.34	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Molybdenum	ND		1.6	0.21	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Nickel	20		1.6	0.17	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Selenium	ND		3.3	0.49	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Silver	1.3		0.82	0.17	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Thallium	ND		1.6	0.48	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Vanadium	26		1.6	0.22	mg/Kg		01/30/19 12:08	02/08/19 00:32	4
Zinc	190		4.9	2.1	mg/Kg		01/30/19 12:08	02/08/19 00:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080		0.015	0.0022	mg/Kg		02/11/19 16:16	02/11/19 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.7		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-X8S-3.5-4
Lab Sample ID: 720-91070-30
Date Collected: 01/29/19 14:00
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	28		3.8	0.64	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Arsenic	34		7.7	0.65	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Barium	970		3.8	0.55	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Beryllium	ND		0.77	0.25	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Cadmium	5.9		0.96	0.095	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Chromium	38		3.8	0.41	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Cobalt	12		1.5	0.15	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Copper	790		12	5.5	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Lead	9600	B	3.8	0.81	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Molybdenum	ND		3.8	0.49	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Nickel	42		3.8	0.39	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Selenium	4.0	J	7.7	1.2	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Silver	4.8		1.9	0.39	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Thallium	ND		3.8	1.1	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Vanadium	32		3.8	0.52	mg/Kg		01/30/19 12:08	02/08/19 00:37	10
Zinc	4000		12	4.9	mg/Kg		01/30/19 12:08	02/08/19 00:37	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.014	0.0021	mg/Kg		02/11/19 16:16	02/11/19 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.9		0.1	0.05	%			01/31/19 11:07	1

Client Sample ID: DG-Y8S-0.5-1 Lab Sample ID: 720-91070-31

Date Collected: 01/29/19 14:15 **Matrix: Solid**
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	95		4.5	0.74	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Arsenic	22		8.9	0.76	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Barium	2300		4.5	0.63	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Beryllium	0.52	J	0.89	0.29	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Cadmium	3.9		1.1	0.11	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Chromium	47		4.5	0.47	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Cobalt	7.2		1.8	0.18	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Copper	1100		13	6.4	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Lead	7600	B	4.5	0.94	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Molybdenum	0.64	J	4.5	0.57	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Nickel	45		4.5	0.46	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Selenium	ND		8.9	1.3	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Silver	6.9		2.2	0.45	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Thallium	ND		4.5	1.3	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Vanadium	27		4.5	0.61	mg/Kg		01/30/19 12:08	02/08/19 00:42	10
Zinc	2900		13	5.7	mg/Kg		01/30/19 12:08	02/08/19 00:42	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61		0.016	0.0023	mg/Kg		02/11/19 16:16	02/11/19 18:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.9		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Y8S-3.5-4
Lab Sample ID: 720-91070-32
Date Collected: 01/29/19 14:15
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	79		3.0	0.50	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Arsenic	68		6.0	0.51	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Barium	1100		3.0	0.43	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Beryllium	ND		0.60	0.20	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Cadmium	5.2		0.75	0.075	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Chromium	44		3.0	0.32	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Cobalt	12		1.2	0.12	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Copper	15000		9.0	4.3	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Lead	5000	B	3.0	0.63	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Molybdenum	2.8	J	3.0	0.39	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Nickel	82		3.0	0.31	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Selenium	2.1	J	6.0	0.90	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Silver	9.1		1.5	0.30	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Thallium	1.0	J	3.0	0.87	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Vanadium	15		3.0	0.41	mg/Kg		01/30/19 12:08	02/08/19 00:47	10
Zinc	2800		9.0	3.8	mg/Kg		01/30/19 12:08	02/08/19 00:47	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.70		0.015	0.0022	mg/Kg		02/11/19 16:16	02/11/19 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	43.9		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-Z8S-0.5-1
Lab Sample ID: 720-91070-33
Date Collected: 01/29/19 14:30
Matrix: Solid
Date Received: 01/29/19 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		1.3	0.22	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Arsenic	13		2.7	0.23	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Barium	550		1.3	0.19	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Beryllium	0.25	J	0.27	0.087	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Cadmium	1.4		0.33	0.033	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Chromium	32		1.3	0.14	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Cobalt	7.5		0.53	0.053	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Copper	370		4.0	1.9	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Lead	1900	B	1.3	0.28	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Molybdenum	0.33	J	1.3	0.17	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Nickel	38		1.3	0.14	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Selenium	ND		2.7	0.40	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Silver	2.2		0.67	0.13	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Thallium	ND		1.3	0.39	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Vanadium	30		1.3	0.18	mg/Kg		01/30/19 12:08	02/08/19 01:01	4
Zinc	1200		4.0	1.7	mg/Kg		01/30/19 12:08	02/08/19 01:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.60		0.015	0.0022	mg/Kg		02/11/19 16:16	02/11/19 18:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.2		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-Z8S-3.5-4

Date Collected: 01/29/19 14:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	44		4.2	0.69	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Arsenic	29		8.3	0.71	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Barium	1400		1.7	0.24	mg/Kg		01/30/19 12:08	02/08/19 01:06	4
Beryllium	0.36		0.33	0.11	mg/Kg		01/30/19 12:08	02/08/19 01:06	4
Cadmium	8.8		1.0	0.10	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Chromium	42		4.2	0.44	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Cobalt	8.7		1.7	0.17	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Copper	760		13	5.9	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Lead	4900	B	4.2	0.88	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Molybdenum	0.64	J	1.7	0.21	mg/Kg		01/30/19 12:08	02/08/19 01:06	4
Nickel	44		4.2	0.43	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Selenium	1.5	J	8.3	1.3	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Silver	5.7		2.1	0.42	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Thallium	ND		4.2	1.2	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Vanadium	26		4.2	0.57	mg/Kg		01/30/19 12:08	02/08/19 14:32	10
Zinc	2700		13	5.3	mg/Kg		01/30/19 12:08	02/08/19 14:32	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.5		0.016	0.0024	mg/Kg		02/11/19 16:16	02/11/19 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.7		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DUP-52

Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.31	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Arsenic	**0.64**	**J**	3.7	0.31	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Barium	**33**		1.9	0.26	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Beryllium	**0.17**	**J**	0.37	0.12	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Cadmium	ND		0.46	0.046	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Chromium	**12**		1.9	0.20	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Cobalt	**8.2**		0.74	0.074	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Copper	**120**		5.6	2.6	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Lead	**15**	**B**	1.9	0.39	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Nickel	**3.9**		1.9	0.19	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Selenium	ND		3.7	0.56	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Silver	ND		0.93	0.19	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Thallium	ND		1.9	0.54	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Vanadium	**70**		1.9	0.25	mg/Kg		01/30/19 12:08	02/08/19 01:11	4
Zinc	**38**		5.6	2.4	mg/Kg		01/30/19 12:08	02/08/19 01:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.016	0.0024	mg/Kg		02/11/19 16:16	02/11/19 18:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.0**		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-53
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-36
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	26		1.5	0.24	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Arsenic	14		2.9	0.25	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Barium	1500		1.5	0.21	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Beryllium	1.0		0.29	0.096	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Cadmium	2.6		0.37	0.036	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Chromium	36		1.5	0.16	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Cobalt	5.4		0.59	0.059	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Copper	620		4.4	2.1	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Lead	6600	B	1.5	0.31	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Molybdenum	0.84	J	1.5	0.19	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Nickel	38		1.5	0.15	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Selenium	ND		2.9	0.44	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Silver	6.6		0.74	0.15	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Thallium	ND		1.5	0.43	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Vanadium	31		1.5	0.20	mg/Kg		01/30/19 12:08	02/08/19 01:16	4
Zinc	2200		4.4	1.9	mg/Kg		01/30/19 12:08	02/08/19 01:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46		0.016	0.0023	mg/Kg		02/11/19 16:16	02/11/19 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	43.0		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-54
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-37
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20		4.2	0.70	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Arsenic	17		8.5	0.72	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Barium	1000		1.7	0.24	mg/Kg		01/30/19 17:11	01/31/19 12:09	4
Beryllium	0.30	J	0.34	0.11	mg/Kg		01/30/19 17:11	01/31/19 12:09	4
Cadmium	3.5		1.1	0.11	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Chromium	28	B	4.2	0.45	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Cobalt	7.2		1.7	0.17	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Copper	560		13	6.0	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Lead	2600		4.2	0.89	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Molybdenum	1.0	J	1.7	0.22	mg/Kg		01/30/19 17:11	01/31/19 12:09	4
Nickel	29		4.2	0.43	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Selenium	ND		8.5	1.3	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Silver	2.5		2.1	0.43	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Thallium	ND		4.2	1.2	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Vanadium	24		4.2	0.58	mg/Kg		01/30/19 17:11	01/31/19 16:04	10
Zinc	1500		13	5.4	mg/Kg		01/30/19 17:11	01/31/19 16:04	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.016	0.0023	mg/Kg		02/11/19 16:16	02/11/19 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.3		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-AA8S-0.5-1

Date Collected: 01/29/19 14:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-38

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	13		1.4	0.23	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Arsenic	26		2.7	0.23	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Barium	740		1.4	0.19	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Beryllium	0.24	J	0.27	0.089	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Cadmium	2.8		0.34	0.034	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Chromium	43	B	1.4	0.15	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Cobalt	11		0.55	0.055	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Copper	860		4.1	2.0	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Lead	2000	^	1.4	0.29	mg/Kg		01/30/19 17:11	01/31/19 13:44	4
Molybdenum	1.0	J	1.4	0.18	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Nickel	38		1.4	0.14	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Selenium	2.0	J	2.7	0.41	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Silver	4.7		0.68	0.14	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Thallium	ND		1.4	0.40	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Vanadium	32		1.4	0.19	mg/Kg		01/30/19 17:11	01/31/19 12:04	4
Zinc	1400		4.1	1.7	mg/Kg		01/30/19 17:11	01/31/19 12:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.60		0.017	0.0025	mg/Kg		01/31/19 10:10	01/31/19 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.0		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-AA8S-3.5-4

Date Collected: 01/29/19 14:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-39

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	37	F1 F2	9.0	1.5	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Arsenic	33		18	1.5	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Barium	2600	F2	9.0	1.3	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Beryllium	ND	F1 F2	1.8	0.59	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Cadmium	28	F1 F2	2.3	0.22	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Chromium	310	B F2	9.0	0.95	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Cobalt	14	F2	3.6	0.36	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Copper	1500	F2	27	13	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Lead	12000	^ F2	9.0	1.9	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Molybdenum	ND	F1 F2	9.0	1.2	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Nickel	57	F1	9.0	0.92	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Selenium	3.6	J F1 F2	18	2.7	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Silver	16	F1	4.5	0.91	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Thallium	ND	F1 F2	9.0	2.6	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Vanadium	31	F1 F2	9.0	1.2	mg/Kg		01/30/19 17:11	01/31/19 13:29	20
Zinc	10000		27	11	mg/Kg		01/30/19 17:11	01/31/19 13:29	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.015	0.0022	mg/Kg		01/31/19 10:10	01/31/19 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		0.1	0.05	%			01/31/19 11:07	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259477/1-A
Matrix: Solid
Analysis Batch: 260152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Arsenic	ND		1.0	0.085	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Barium	ND		0.50	0.071	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Beryllium	ND		0.10	0.033	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Cadmium	ND		0.13	0.012	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Chromium	ND		0.50	0.053	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Cobalt	ND		0.20	0.020	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Copper	ND		1.5	0.71	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Lead	ND		0.50	0.11	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Nickel	ND		0.50	0.051	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Selenium	ND		1.0	0.15	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Silver	ND		0.25	0.051	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Thallium	ND		0.50	0.15	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Vanadium	ND		0.50	0.068	mg/Kg		01/30/19 11:00	02/11/19 14:32	1
Zinc	ND		1.5	0.64	mg/Kg		01/30/19 11:00	02/11/19 14:32	1

Lab Sample ID: MB 720-259477/1-A
Matrix: Solid
Analysis Batch: 261797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		2.0	0.58	mg/Kg		01/30/19 11:00	03/12/19 10:42	4

Lab Sample ID: LCS 720-259477/2-A
Matrix: Solid
Analysis Batch: 260051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.5		mg/Kg		103	80 - 120
Arsenic	50.0	51.1		mg/Kg		102	80 - 120
Barium	50.0	51.1		mg/Kg		102	80 - 120
Beryllium	50.0	52.0		mg/Kg		104	80 - 120
Cadmium	50.0	52.3		mg/Kg		105	80 - 120
Chromium	50.0	52.5		mg/Kg		105	80 - 120
Cobalt	50.0	53.5		mg/Kg		107	80 - 120
Copper	50.0	52.4		mg/Kg		105	80 - 120
Lead	50.0	53.8		mg/Kg		108	80 - 120
Molybdenum	50.0	52.1		mg/Kg		104	80 - 120
Nickel	50.0	52.7		mg/Kg		105	80 - 120
Selenium	50.0	50.8		mg/Kg		102	80 - 120
Silver	25.0	25.7		mg/Kg		103	80 - 120
Vanadium	50.0	52.1		mg/Kg		104	80 - 120
Zinc	50.0	51.9		mg/Kg		104	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259477/2-A
Matrix: Solid
Analysis Batch: 261797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	52.1		mg/Kg		104	80 - 120

Lab Sample ID: 720-91070-17 MS
Matrix: Solid
Analysis Batch: 260051

Client Sample ID: DG-W10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	12	F1	34.7	10.1	F1	mg/Kg		-5	75 - 125
Arsenic	5.5	J	34.7	35.3		mg/Kg		86	75 - 125
Barium	760	F2	34.7	289	4	mg/Kg		-1369	75 - 125
Beryllium	ND		34.7	35.6		mg/Kg		103	75 - 125
Cadmium	4.4		34.7	35.9		mg/Kg		91	75 - 125
Chromium	54	F1	34.7	49.9	F1	mg/Kg		-11	75 - 125
Cobalt	35	F1	34.7	42.6	F1	mg/Kg		21	75 - 125
Copper	700	F2	34.7	220	4	mg/Kg		-1369	75 - 125
Lead	1300	F2	34.7	385	4	mg/Kg		-2679	75 - 125
Molybdenum	1.2	J	34.7	32.3		mg/Kg		90	75 - 125
Nickel	30	F1	34.7	46.5	F1	mg/Kg		47	75 - 125
Selenium	ND		34.7	33.8		mg/Kg		97	75 - 125
Silver	2.0	J	17.4	17.8		mg/Kg		91	75 - 125
Vanadium	280		34.7	91.3	4	mg/Kg		-538	75 - 125
Zinc	980	F2	34.7	328	4	mg/Kg		-1882	75 - 125

Lab Sample ID: 720-91070-17 MS
Matrix: Solid
Analysis Batch: 261797

Client Sample ID: DG-W10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		34.7	27.0		mg/Kg		78	75 - 125

Lab Sample ID: 720-91070-17 MSD
Matrix: Solid
Analysis Batch: 260051

Client Sample ID: DG-W10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	12	F1	34.2	12.4	F1	mg/Kg		2	75 - 125	20	20
Arsenic	5.5	J	34.2	35.9		mg/Kg		89	75 - 125	2	20
Barium	760	F2	34.2	187	4 F2	mg/Kg		-1685	75 - 125	43	20
Beryllium	ND		34.2	36.7		mg/Kg		107	75 - 125	3	20
Cadmium	4.4		34.2	35.9		mg/Kg		92	75 - 125	0	20
Chromium	54	F1	34.2	45.5	F1	mg/Kg		-24	75 - 125	9	20
Cobalt	35	F1	34.2	41.6	F1	mg/Kg		18	75 - 125	2	20
Copper	700	F2	34.2	272	4 F2	mg/Kg		-1236	75 - 125	21	20
Lead	1300	F2	34.2	279	4 F2	mg/Kg		-3027	75 - 125	32	20
Molybdenum	1.2	J	34.2	33.1		mg/Kg		93	75 - 125	3	20
Nickel	30	F1	34.2	40.8	F1	mg/Kg		31	75 - 125	13	20
Selenium	ND		34.2	34.4		mg/Kg		101	75 - 125	2	20
Silver	2.0	J	17.1	17.8		mg/Kg		92	75 - 125	0	20
Vanadium	280		34.2	79.1	4	mg/Kg		-582	75 - 125	14	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91070-17 MSD
Matrix: Solid
Analysis Batch: 260051

Client Sample ID: DG-W10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	980	F2	34.2	248	4 F2	mg/Kg		-2144	75 - 125	28	20

Lab Sample ID: 720-91070-17 MSD
Matrix: Solid
Analysis Batch: 261797

Client Sample ID: DG-W10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		34.2	28.9		mg/Kg		84	75 - 125	7	20

Lab Sample ID: MB 720-259483/1-A
Matrix: Solid
Analysis Batch: 260027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Arsenic	ND		1.0	0.085	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Barium	ND		0.50	0.071	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Beryllium	ND		0.10	0.033	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Cadmium	ND		0.13	0.012	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Chromium	ND		0.50	0.053	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Cobalt	ND		0.20	0.020	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Copper	ND		1.5	0.71	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Lead	0.255	J	0.50	0.11	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Nickel	ND		0.50	0.051	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Selenium	ND		1.0	0.15	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Silver	ND		0.25	0.051	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Thallium	ND		0.50	0.15	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Vanadium	ND		0.50	0.068	mg/Kg		01/30/19 12:08	02/07/19 22:46	1
Zinc	ND		1.5	0.64	mg/Kg		01/30/19 12:08	02/07/19 22:46	1

Lab Sample ID: LCS 720-259483/2-A
Matrix: Solid
Analysis Batch: 260065

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.2		mg/Kg		96	80 - 120
Arsenic	50.0	47.8		mg/Kg		96	80 - 120
Barium	50.0	47.8		mg/Kg		96	80 - 120
Beryllium	50.0	48.1		mg/Kg		96	80 - 120
Cadmium	50.0	49.2		mg/Kg		98	80 - 120
Chromium	50.0	49.2		mg/Kg		98	80 - 120
Cobalt	50.0	50.4		mg/Kg		101	80 - 120
Copper	50.0	49.6		mg/Kg		99	80 - 120
Lead	50.0	50.2		mg/Kg		100	80 - 120
Molybdenum	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	50.6		mg/Kg		101	80 - 120
Selenium	50.0	48.2		mg/Kg		96	80 - 120
Silver	25.0	24.6		mg/Kg		98	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259483/2-A
Matrix: Solid
Analysis Batch: 260065

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	49.5		mg/Kg		99	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	49.6		mg/Kg		99	80 - 120

Lab Sample ID: 720-91070-27 MS
Matrix: Solid
Analysis Batch: 260027

Client Sample ID: DG-W8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	17	F2 F1	47.6	69.8		mg/Kg		112	75 - 125
Arsenic	7.6		47.6	52.1		mg/Kg		93	75 - 125
Barium	690	F2	47.6	321	4	mg/Kg		-776	75 - 125
Beryllium	0.16	J	47.6	44.9		mg/Kg		94	75 - 125
Cadmium	0.99		47.6	46.2		mg/Kg		95	75 - 125
Chromium	22	F2	47.6	62.3		mg/Kg		85	75 - 125
Cobalt	5.9		47.6	50.6		mg/Kg		94	75 - 125
Copper	150	F2 F1	47.6	198		mg/Kg		95	75 - 125
Lead	740	B	47.6	703	4	mg/Kg		-85	75 - 125
Molybdenum	0.28	J	47.6	44.1		mg/Kg		92	75 - 125
Nickel	23		47.6	64.3		mg/Kg		86	75 - 125
Selenium	ND		47.6	41.8		mg/Kg		88	75 - 125
Silver	1.6		23.8	23.3		mg/Kg		91	75 - 125
Thallium	ND		47.6	42.7		mg/Kg		90	75 - 125
Vanadium	28		47.6	69.0		mg/Kg		86	75 - 125
Zinc	700	F2	47.6	575	4	mg/Kg		-259	75 - 125

Lab Sample ID: 720-91070-27 MSD
Matrix: Solid
Analysis Batch: 260027

Client Sample ID: DG-W8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	17	F2 F1	48.1	39.0	F2 F1	mg/Kg		46	75 - 125	57	20
Arsenic	7.6		48.1	62.0		mg/Kg		113	75 - 125	17	20
Barium	690	F2	48.1	408	4 F2	mg/Kg		-588	75 - 125	24	20
Beryllium	0.16	J	48.1	51.7		mg/Kg		107	75 - 125	14	20
Cadmium	0.99		48.1	53.1		mg/Kg		108	75 - 125	14	20
Chromium	22	F2	48.1	78.0	F2	mg/Kg		117	75 - 125	22	20
Cobalt	5.9		48.1	59.2		mg/Kg		111	75 - 125	16	20
Copper	150	F2 F1	48.1	290	F1 F2	mg/Kg		285	75 - 125	38	20
Lead	740	B	48.1	836	4	mg/Kg		191	75 - 125	17	20
Molybdenum	0.28	J	48.1	51.1		mg/Kg		106	75 - 125	15	20
Nickel	23		48.1	76.4		mg/Kg		111	75 - 125	17	20
Selenium	ND		48.1	49.9		mg/Kg		104	75 - 125	18	20
Silver	1.6		24.0	22.1		mg/Kg		85	75 - 125	5	20
Thallium	ND		48.1	49.3		mg/Kg		103	75 - 125	14	20
Vanadium	28		48.1	81.2		mg/Kg		110	75 - 125	16	20
Zinc	700	F2	48.1	742	4 F2	mg/Kg		91	75 - 125	25	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259491/1-A
Matrix: Solid
Analysis Batch: 259577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259491

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Arsenic	ND		1.0	0.085	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Barium	ND		0.50	0.071	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Beryllium	ND		0.10	0.033	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Cadmium	ND		0.13	0.012	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Chromium	0.0678	J	0.50	0.053	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Cobalt	ND		0.20	0.020	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Copper	ND		1.5	0.71	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Lead	ND		0.50	0.11	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Nickel	ND		0.50	0.051	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Selenium	ND		1.0	0.15	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Silver	ND		0.25	0.051	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Thallium	ND		0.50	0.15	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Vanadium	ND		0.50	0.068	mg/Kg		01/30/19 17:11	01/31/19 09:54	1
Zinc	ND		1.5	0.64	mg/Kg		01/30/19 17:11	01/31/19 09:54	1

Lab Sample ID: LCS 720-259491/2-A
Matrix: Solid
Analysis Batch: 259577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.4		mg/Kg		97	80 - 120
Arsenic	50.0	49.8		mg/Kg		100	80 - 120
Barium	50.0	48.0		mg/Kg		96	80 - 120
Beryllium	50.0	50.9		mg/Kg		102	80 - 120
Cadmium	50.0	52.7		mg/Kg		105	80 - 120
Chromium	50.0	51.3		mg/Kg		103	80 - 120
Cobalt	50.0	53.7		mg/Kg		107	80 - 120
Copper	50.0	50.7		mg/Kg		101	80 - 120
Lead	50.0	52.9		mg/Kg		106	80 - 120
Molybdenum	50.0	50.8		mg/Kg		102	80 - 120
Nickel	50.0	52.6		mg/Kg		105	80 - 120
Selenium	50.0	50.3		mg/Kg		101	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	53.7		mg/Kg		107	80 - 120
Vanadium	50.0	50.3		mg/Kg		101	80 - 120
Zinc	50.0	52.6		mg/Kg		105	80 - 120

Lab Sample ID: 720-91070-39 MS
Matrix: Solid
Analysis Batch: 259577

Client Sample ID: DG-AA8S-3.5-4
Prep Type: Total/NA
Prep Batch: 259491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	37	F1 F2	45.0	42.7	F1	mg/Kg		12	75 - 125
Arsenic	33		45.0	68.3		mg/Kg		79	75 - 125
Barium	2600	F2	45.0	1730	4	mg/Kg		-1896	75 - 125
Beryllium	ND	F1 F2	45.0	33.1	F1	mg/Kg		74	75 - 125
Cadmium	28	F1 F2	45.0	55.8	F1	mg/Kg		63	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91070-39 MS **Client Sample ID: DG-AA8S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259577 **Prep Batch: 259491**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	310	B F2	45.0	184	4	mg/Kg		-274	75 - 125
Cobalt	14	F2	45.0	51.4		mg/Kg		84	75 - 125
Copper	1500	F2	45.0	1190	4	mg/Kg		-789	75 - 125
Lead	12000	^ F2	45.0	11100	4	mg/Kg		-1937	75 - 125
Molybdenum	ND	F1 F2	45.0	33.5	F1	mg/Kg		74	75 - 125
Nickel	57	F1	45.0	99.9		mg/Kg		96	75 - 125
Selenium	3.6	J F1 F2	45.0	35.5	F1	mg/Kg		71	75 - 125
Silver	16	F1	22.5	38.5		mg/Kg		101	75 - 125
Thallium	ND	F1 F2	45.0	33.5	F1	mg/Kg		74	75 - 125
Vanadium	31	F1 F2	45.0	60.7	F1	mg/Kg		65	75 - 125
Zinc	10000		45.0	10500	4	mg/Kg		890	75 - 125

Lab Sample ID: 720-91070-39 MSD **Client Sample ID: DG-AA8S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259577 **Prep Batch: 259491**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	37	F1 F2	45.9	63.7	F1 F2	mg/Kg		58	75 - 125	39	20
Arsenic	33		45.9	82.6		mg/Kg		109	75 - 125	19	20
Barium	2600	F2	45.9	2960	4 F2	mg/Kg		807	75 - 125	52	20
Beryllium	ND	F1 F2	45.9	48.5	F2	mg/Kg		106	75 - 125	38	20
Cadmium	28	F1 F2	45.9	87.2	F1 F2	mg/Kg		130	75 - 125	44	20
Chromium	310	B F2	45.9	316	4 F2	mg/Kg		19	75 - 125	53	20
Cobalt	14	F2	45.9	64.2	F2	mg/Kg		110	75 - 125	22	20
Copper	1500	F2	45.9	1990	4 F2	mg/Kg		974	75 - 125	50	20
Lead	12000	^ F2	45.9	15000	4 F2	mg/Kg		6648	75 - 125	30	20
Molybdenum	ND	F1 F2	45.9	47.0	F2	mg/Kg		103	75 - 125	34	20
Nickel	57	F1	45.9	116	F1	mg/Kg		129	75 - 125	15	20
Selenium	3.6	J F1 F2	45.9	48.0	F2	mg/Kg		97	75 - 125	30	20
Silver	16	F1	22.9	45.7	F1	mg/Kg		130	75 - 125	17	20
Thallium	ND	F1 F2	45.9	50.5	F2	mg/Kg		110	75 - 125	40	20
Vanadium	31	F1 F2	45.9	82.1	F2	mg/Kg		110	75 - 125	30	20
Zinc	10000		45.9	11000	4	mg/Kg		1874	75 - 125	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259478/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260224 **Prep Batch: 259478**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/11/19 17:38	02/12/19 12:44	1

Lab Sample ID: LCS 720-259478/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260224 **Prep Batch: 259478**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.864		mg/Kg		104	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91070-17 MS
Matrix: Solid
Analysis Batch: 260224

Client Sample ID: DG-W10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259478

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.26		0.820	1.01		mg/Kg		91	75 - 125

Lab Sample ID: 720-91070-17 MSD
Matrix: Solid
Analysis Batch: 260224

Client Sample ID: DG-W10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259478

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.26		0.806	1.04		mg/Kg		96	75 - 125	3	20

Lab Sample ID: MB 720-259485/1-A
Matrix: Solid
Analysis Batch: 260214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/11/19 16:16	02/11/19 17:18	1

Lab Sample ID: LCS 720-259485/2-A
Matrix: Solid
Analysis Batch: 260214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.819		mg/Kg		98	80 - 120

Lab Sample ID: 720-91070-27 MS
Matrix: Solid
Analysis Batch: 260214

Client Sample ID: DG-W8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.24		0.794	1.10		mg/Kg		109	75 - 125

Lab Sample ID: 720-91070-27 MSD
Matrix: Solid
Analysis Batch: 260214

Client Sample ID: DG-W8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.24		0.806	1.12		mg/Kg		109	75 - 125	2	20

Lab Sample ID: MB 720-259494/1-A
Matrix: Solid
Analysis Batch: 259568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/31/19 10:10	01/31/19 11:14	1

Lab Sample ID: LCS 720-259494/2-A
Matrix: Solid
Analysis Batch: 259568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.857		mg/Kg		103	80 - 120

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 7471A - Mercury (CVAA)

Lab Sample ID: 720-91070-39 MS
Matrix: Solid
Analysis Batch: 259568
Client Sample ID: DG-AA8S-3.5-4
Prep Type: Total/NA
Prep Batch: 259494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.022		0.758	0.808		mg/Kg		104	75 - 125		

Lab Sample ID: 720-91070-39 MSD
Matrix: Solid
Analysis Batch: 259568
Client Sample ID: DG-AA8S-3.5-4
Prep Type: Total/NA
Prep Batch: 259494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.022		0.735	0.760		mg/Kg		100	75 - 125	6	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91069-E-10 DU
Matrix: Solid
Analysis Batch: 259536
Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.9			13.2		%				5	20

Lab Sample ID: 720-91070-6 DU
Matrix: Solid
Analysis Batch: 259547
Client Sample ID: DG-AB10S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	27.0			27.1		%				0.7	20

Lab Sample ID: 720-91070-25 DU
Matrix: Solid
Analysis Batch: 259562
Client Sample ID: DG-S8S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.3			7.4		%				0.8	20

Metals

Prep Batch: 259477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-1	DG-AI10S-0.5-1	Total/NA	Solid	3050B	
720-91070-2	DG-AI10S-3.5-4	Total/NA	Solid	3050B	
720-91070-3	DG-AC10S-0.5-1	Total/NA	Solid	3050B	
720-91070-4	DG-AC10S-3.5-4	Total/NA	Solid	3050B	
720-91070-5	DG-AB10S-0.5-1	Total/NA	Solid	3050B	
720-91070-6	DG-AB10S-3.5-4	Total/NA	Solid	3050B	
720-91070-7	DG-AA10S-0.5-1	Total/NA	Solid	3050B	
720-91070-8	DG-AA10S-3.5-4	Total/NA	Solid	3050B	
720-91070-9	DG-Z10S-0.5-1	Total/NA	Solid	3050B	
720-91070-10	DG-Z10S-3.5-4	Total/NA	Solid	3050B	
720-91070-11	DUP-68	Total/NA	Solid	3050B	
720-91070-12	DUP-69	Total/NA	Solid	3050B	
720-91070-13	DG-Y10S-0.5-1	Total/NA	Solid	3050B	
720-91070-14	DG-Y10S-3.5-4	Total/NA	Solid	3050B	
720-91070-15	DG-X10S-0.5-1	Total/NA	Solid	3050B	
720-91070-17	DG-W10S-0.5-1	Total/NA	Solid	3050B	
MB 720-259477/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259477/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91070-17 MS	DG-W10S-0.5-1	Total/NA	Solid	3050B	
720-91070-17 MSD	DG-W10S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-1	DG-AI10S-0.5-1	Total/NA	Solid	7471A	
720-91070-2	DG-AI10S-3.5-4	Total/NA	Solid	7471A	
720-91070-3	DG-AC10S-0.5-1	Total/NA	Solid	7471A	
720-91070-4	DG-AC10S-3.5-4	Total/NA	Solid	7471A	
720-91070-5	DG-AB10S-0.5-1	Total/NA	Solid	7471A	
720-91070-6	DG-AB10S-3.5-4	Total/NA	Solid	7471A	
720-91070-7	DG-AA10S-0.5-1	Total/NA	Solid	7471A	
720-91070-8	DG-AA10S-3.5-4	Total/NA	Solid	7471A	
720-91070-9	DG-Z10S-0.5-1	Total/NA	Solid	7471A	
720-91070-10	DG-Z10S-3.5-4	Total/NA	Solid	7471A	
720-91070-11	DUP-68	Total/NA	Solid	7471A	
720-91070-12	DUP-69	Total/NA	Solid	7471A	
720-91070-13	DG-Y10S-0.5-1	Total/NA	Solid	7471A	
720-91070-14	DG-Y10S-3.5-4	Total/NA	Solid	7471A	
720-91070-15	DG-X10S-0.5-1	Total/NA	Solid	7471A	
720-91070-16	DG-X10S-3.5-4	Total/NA	Solid	7471A	
720-91070-17	DG-W10S-0.5-1	Total/NA	Solid	7471A	
MB 720-259478/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259478/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91070-17 MS	DG-W10S-0.5-1	Total/NA	Solid	7471A	
720-91070-17 MSD	DG-W10S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-16	DG-X10S-3.5-4	Total/NA	Solid	3050B	
720-91070-18	DG-W10S-3.5-4	Total/NA	Solid	3050B	
720-91070-19	DG-R10S-0.5-1	Total/NA	Solid	3050B	
720-91070-20	DG-R10S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 259483 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-21	DG-R8S-0.5-1	Total/NA	Solid	3050B	
720-91070-22	DG-R8S-3.5-4	Total/NA	Solid	3050B	
720-91070-23	DG-O8S-0.5-1	Total/NA	Solid	3050B	
720-91070-24	DG-O8S-3.5-4	Total/NA	Solid	3050B	
720-91070-25	DG-S8S-0.5-1	Total/NA	Solid	3050B	
720-91070-26	DG-S8S-3.5-4	Total/NA	Solid	3050B	
720-91070-27	DG-W8S-0.5-1	Total/NA	Solid	3050B	
720-91070-28	DG-W8S-3.5-4	Total/NA	Solid	3050B	
720-91070-29	DG-X8S-0.5-1	Total/NA	Solid	3050B	
720-91070-30	DG-X8S-3.5-4	Total/NA	Solid	3050B	
720-91070-31	DG-Y8S-0.5-1	Total/NA	Solid	3050B	
720-91070-32	DG-Y8S-3.5-4	Total/NA	Solid	3050B	
720-91070-33	DG-Z8S-0.5-1	Total/NA	Solid	3050B	
720-91070-34	DG-Z8S-3.5-4	Total/NA	Solid	3050B	
720-91070-35	DUP-52	Total/NA	Solid	3050B	
720-91070-36	DUP-53	Total/NA	Solid	3050B	
MB 720-259483/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259483/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91070-27 MS	DG-W8S-0.5-1	Total/NA	Solid	3050B	
720-91070-27 MSD	DG-W8S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-18	DG-W10S-3.5-4	Total/NA	Solid	7471A	
720-91070-19	DG-R10S-0.5-1	Total/NA	Solid	7471A	
720-91070-20	DG-R10S-3.5-4	Total/NA	Solid	7471A	
720-91070-21	DG-R8S-0.5-1	Total/NA	Solid	7471A	
720-91070-22	DG-R8S-3.5-4	Total/NA	Solid	7471A	
720-91070-23	DG-O8S-0.5-1	Total/NA	Solid	7471A	
720-91070-24	DG-O8S-3.5-4	Total/NA	Solid	7471A	
720-91070-25	DG-S8S-0.5-1	Total/NA	Solid	7471A	
720-91070-26	DG-S8S-3.5-4	Total/NA	Solid	7471A	
720-91070-27	DG-W8S-0.5-1	Total/NA	Solid	7471A	
720-91070-28	DG-W8S-3.5-4	Total/NA	Solid	7471A	
720-91070-29	DG-X8S-0.5-1	Total/NA	Solid	7471A	
720-91070-30	DG-X8S-3.5-4	Total/NA	Solid	7471A	
720-91070-31	DG-Y8S-0.5-1	Total/NA	Solid	7471A	
720-91070-32	DG-Y8S-3.5-4	Total/NA	Solid	7471A	
720-91070-33	DG-Z8S-0.5-1	Total/NA	Solid	7471A	
720-91070-34	DG-Z8S-3.5-4	Total/NA	Solid	7471A	
720-91070-35	DUP-52	Total/NA	Solid	7471A	
720-91070-36	DUP-53	Total/NA	Solid	7471A	
720-91070-37	DUP-54	Total/NA	Solid	7471A	
MB 720-259485/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259485/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91070-27 MS	DG-W8S-0.5-1	Total/NA	Solid	7471A	
720-91070-27 MSD	DG-W8S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-37	DUP-54	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 259491 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-38	DG-AA8S-0.5-1	Total/NA	Solid	3050B	
720-91070-39	DG-AA8S-3.5-4	Total/NA	Solid	3050B	
MB 720-259491/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259491/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91070-39 MS	DG-AA8S-3.5-4	Total/NA	Solid	3050B	
720-91070-39 MSD	DG-AA8S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 259494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-38	DG-AA8S-0.5-1	Total/NA	Solid	7471A	
720-91070-39	DG-AA8S-3.5-4	Total/NA	Solid	7471A	
MB 720-259494/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259494/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91070-39 MS	DG-AA8S-3.5-4	Total/NA	Solid	7471A	
720-91070-39 MSD	DG-AA8S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 259568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-38	DG-AA8S-0.5-1	Total/NA	Solid	7471A	259494
720-91070-39	DG-AA8S-3.5-4	Total/NA	Solid	7471A	259494
MB 720-259494/1-A	Method Blank	Total/NA	Solid	7471A	259494
LCS 720-259494/2-A	Lab Control Sample	Total/NA	Solid	7471A	259494
720-91070-39 MS	DG-AA8S-3.5-4	Total/NA	Solid	7471A	259494
720-91070-39 MSD	DG-AA8S-3.5-4	Total/NA	Solid	7471A	259494

Analysis Batch: 259577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-37	DUP-54	Total/NA	Solid	6010B	259491
720-91070-38	DG-AA8S-0.5-1	Total/NA	Solid	6010B	259491
720-91070-38	DG-AA8S-0.5-1	Total/NA	Solid	6010B	259491
720-91070-39	DG-AA8S-3.5-4	Total/NA	Solid	6010B	259491
MB 720-259491/1-A	Method Blank	Total/NA	Solid	6010B	259491
LCS 720-259491/2-A	Lab Control Sample	Total/NA	Solid	6010B	259491
720-91070-39 MS	DG-AA8S-3.5-4	Total/NA	Solid	6010B	259491
720-91070-39 MSD	DG-AA8S-3.5-4	Total/NA	Solid	6010B	259491

Analysis Batch: 259594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-37	DUP-54	Total/NA	Solid	6010B	259491

Analysis Batch: 260027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-16	DG-X10S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-18	DG-W10S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-19	DG-R10S-0.5-1	Total/NA	Solid	6010B	259483
720-91070-20	DG-R10S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-21	DG-R8S-0.5-1	Total/NA	Solid	6010B	259483
720-91070-22	DG-R8S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-23	DG-O8S-0.5-1	Total/NA	Solid	6010B	259483
720-91070-24	DG-O8S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-25	DG-S8S-0.5-1	Total/NA	Solid	6010B	259483

Metals (Continued)

Analysis Batch: 260027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-26	DG-S8S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-27	DG-W8S-0.5-1	Total/NA	Solid	6010B	259483
720-91070-28	DG-W8S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-29	DG-X8S-0.5-1	Total/NA	Solid	6010B	259483
720-91070-30	DG-X8S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-31	DG-Y8S-0.5-1	Total/NA	Solid	6010B	259483
720-91070-32	DG-Y8S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-33	DG-Z8S-0.5-1	Total/NA	Solid	6010B	259483
720-91070-34	DG-Z8S-3.5-4	Total/NA	Solid	6010B	259483
720-91070-35	DUP-52	Total/NA	Solid	6010B	259483
720-91070-36	DUP-53	Total/NA	Solid	6010B	259483
MB 720-259483/1-A	Method Blank	Total/NA	Solid	6010B	259483
720-91070-27 MS	DG-W8S-0.5-1	Total/NA	Solid	6010B	259483
720-91070-27 MSD	DG-W8S-0.5-1	Total/NA	Solid	6010B	259483

Analysis Batch: 260051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-1	DG-AI10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-2	DG-AI10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-3	DG-AC10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-4	DG-AC10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-5	DG-AB10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-6	DG-AB10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-7	DG-AA10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-8	DG-AA10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-9	DG-Z10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-10	DG-Z10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-11	DUP-68	Total/NA	Solid	6010B	259477
720-91070-12	DUP-69	Total/NA	Solid	6010B	259477
720-91070-13	DG-Y10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-14	DG-Y10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-15	DG-X10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-17	DG-W10S-0.5-1	Total/NA	Solid	6010B	259477
LCS 720-259477/2-A	Lab Control Sample	Total/NA	Solid	6010B	259477
720-91070-17 MS	DG-W10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-17 MSD	DG-W10S-0.5-1	Total/NA	Solid	6010B	259477

Analysis Batch: 260065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-34	DG-Z8S-3.5-4	Total/NA	Solid	6010B	259483
LCS 720-259483/2-A	Lab Control Sample	Total/NA	Solid	6010B	259483

Analysis Batch: 260111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-4	DG-AC10S-3.5-4	Total/NA	Solid	6010B	259477

Analysis Batch: 260152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259477/1-A	Method Blank	Total/NA	Solid	6010B	259477

Metals

Analysis Batch: 260214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-18	DG-W10S-3.5-4	Total/NA	Solid	7471A	259485
720-91070-19	DG-R10S-0.5-1	Total/NA	Solid	7471A	259485
720-91070-20	DG-R10S-3.5-4	Total/NA	Solid	7471A	259485
720-91070-21	DG-R8S-0.5-1	Total/NA	Solid	7471A	259485
720-91070-22	DG-R8S-3.5-4	Total/NA	Solid	7471A	259485
720-91070-23	DG-O8S-0.5-1	Total/NA	Solid	7471A	259485
720-91070-24	DG-O8S-3.5-4	Total/NA	Solid	7471A	259485
720-91070-25	DG-S8S-0.5-1	Total/NA	Solid	7471A	259485
720-91070-26	DG-S8S-3.5-4	Total/NA	Solid	7471A	259485
720-91070-27	DG-W8S-0.5-1	Total/NA	Solid	7471A	259485
720-91070-28	DG-W8S-3.5-4	Total/NA	Solid	7471A	259485
720-91070-29	DG-X8S-0.5-1	Total/NA	Solid	7471A	259485
720-91070-30	DG-X8S-3.5-4	Total/NA	Solid	7471A	259485
720-91070-31	DG-Y8S-0.5-1	Total/NA	Solid	7471A	259485
720-91070-32	DG-Y8S-3.5-4	Total/NA	Solid	7471A	259485
720-91070-33	DG-Z8S-0.5-1	Total/NA	Solid	7471A	259485
720-91070-34	DG-Z8S-3.5-4	Total/NA	Solid	7471A	259485
720-91070-35	DUP-52	Total/NA	Solid	7471A	259485
720-91070-36	DUP-53	Total/NA	Solid	7471A	259485
720-91070-37	DUP-54	Total/NA	Solid	7471A	259485
MB 720-259485/1-A	Method Blank	Total/NA	Solid	7471A	259485
LCS 720-259485/2-A	Lab Control Sample	Total/NA	Solid	7471A	259485
720-91070-27 MS	DG-W8S-0.5-1	Total/NA	Solid	7471A	259485
720-91070-27 MSD	DG-W8S-0.5-1	Total/NA	Solid	7471A	259485

Analysis Batch: 260224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-1	DG-AI10S-0.5-1	Total/NA	Solid	7471A	259478
720-91070-2	DG-AI10S-3.5-4	Total/NA	Solid	7471A	259478
720-91070-3	DG-AC10S-0.5-1	Total/NA	Solid	7471A	259478
720-91070-4	DG-AC10S-3.5-4	Total/NA	Solid	7471A	259478
720-91070-5	DG-AB10S-0.5-1	Total/NA	Solid	7471A	259478
720-91070-6	DG-AB10S-3.5-4	Total/NA	Solid	7471A	259478
720-91070-7	DG-AA10S-0.5-1	Total/NA	Solid	7471A	259478
720-91070-8	DG-AA10S-3.5-4	Total/NA	Solid	7471A	259478
720-91070-9	DG-Z10S-0.5-1	Total/NA	Solid	7471A	259478
720-91070-10	DG-Z10S-3.5-4	Total/NA	Solid	7471A	259478
720-91070-11	DUP-68	Total/NA	Solid	7471A	259478
720-91070-12	DUP-69	Total/NA	Solid	7471A	259478
720-91070-13	DG-Y10S-0.5-1	Total/NA	Solid	7471A	259478
720-91070-14	DG-Y10S-3.5-4	Total/NA	Solid	7471A	259478
720-91070-15	DG-X10S-0.5-1	Total/NA	Solid	7471A	259478
720-91070-16	DG-X10S-3.5-4	Total/NA	Solid	7471A	259478
720-91070-17	DG-W10S-0.5-1	Total/NA	Solid	7471A	259478
MB 720-259478/1-A	Method Blank	Total/NA	Solid	7471A	259478
LCS 720-259478/2-A	Lab Control Sample	Total/NA	Solid	7471A	259478
720-91070-17 MS	DG-W10S-0.5-1	Total/NA	Solid	7471A	259478
720-91070-17 MSD	DG-W10S-0.5-1	Total/NA	Solid	7471A	259478

Metals

Analysis Batch: 260227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-14	DG-Y10S-3.5-4	Total/NA	Solid	6010B	259477

Analysis Batch: 261797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-17	DG-W10S-0.5-1	Total/NA	Solid	6010B	259477
MB 720-259477/1-A	Method Blank	Total/NA	Solid	6010B	259477
LCS 720-259477/2-A	Lab Control Sample	Total/NA	Solid	6010B	259477
720-91070-17 MS	DG-W10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-17 MSD	DG-W10S-0.5-1	Total/NA	Solid	6010B	259477

Analysis Batch: 261960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-1	DG-AI10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-2	DG-AI10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-3	DG-AC10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-4	DG-AC10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-5	DG-AB10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-6	DG-AB10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-7	DG-AA10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-8	DG-AA10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-9	DG-Z10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-10	DG-Z10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-11	DUP-68	Total/NA	Solid	6010B	259477
720-91070-12	DUP-69	Total/NA	Solid	6010B	259477
720-91070-13	DG-Y10S-0.5-1	Total/NA	Solid	6010B	259477
720-91070-14	DG-Y10S-3.5-4	Total/NA	Solid	6010B	259477
720-91070-15	DG-X10S-0.5-1	Total/NA	Solid	6010B	259477

Analysis Batch: 261961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-34	DG-Z8S-3.5-4	Total/NA	Solid	6010B	259483

General Chemistry

Analysis Batch: 259536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-1	DG-AI10S-0.5-1	Total/NA	Solid	Moisture	
720-91070-2	DG-AI10S-3.5-4	Total/NA	Solid	Moisture	
720-91070-3	DG-AC10S-0.5-1	Total/NA	Solid	Moisture	
720-91070-4	DG-AC10S-3.5-4	Total/NA	Solid	Moisture	
720-91070-5	DG-AB10S-0.5-1	Total/NA	Solid	Moisture	
720-91069-E-10 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 259547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-6	DG-AB10S-3.5-4	Total/NA	Solid	Moisture	
720-91070-7	DG-AA10S-0.5-1	Total/NA	Solid	Moisture	
720-91070-8	DG-AA10S-3.5-4	Total/NA	Solid	Moisture	
720-91070-9	DG-Z10S-0.5-1	Total/NA	Solid	Moisture	
720-91070-10	DG-Z10S-3.5-4	Total/NA	Solid	Moisture	
720-91070-11	DUP-68	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-12	DUP-69	Total/NA	Solid	Moisture	
720-91070-13	DG-Y10S-0.5-1	Total/NA	Solid	Moisture	
720-91070-14	DG-Y10S-3.5-4	Total/NA	Solid	Moisture	
720-91070-15	DG-X10S-0.5-1	Total/NA	Solid	Moisture	
720-91070-16	DG-X10S-3.5-4	Total/NA	Solid	Moisture	
720-91070-17	DG-W10S-0.5-1	Total/NA	Solid	Moisture	
720-91070-18	DG-W10S-3.5-4	Total/NA	Solid	Moisture	
720-91070-19	DG-R10S-0.5-1	Total/NA	Solid	Moisture	
720-91070-20	DG-R10S-3.5-4	Total/NA	Solid	Moisture	
720-91070-21	DG-R8S-0.5-1	Total/NA	Solid	Moisture	
720-91070-22	DG-R8S-3.5-4	Total/NA	Solid	Moisture	
720-91070-23	DG-O8S-0.5-1	Total/NA	Solid	Moisture	
720-91070-24	DG-O8S-3.5-4	Total/NA	Solid	Moisture	
720-91070-6 DU	DG-AB10S-3.5-4	Total/NA	Solid	Moisture	

Analysis Batch: 259562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91070-25	DG-S8S-0.5-1	Total/NA	Solid	Moisture	
720-91070-26	DG-S8S-3.5-4	Total/NA	Solid	Moisture	
720-91070-27	DG-W8S-0.5-1	Total/NA	Solid	Moisture	
720-91070-28	DG-W8S-3.5-4	Total/NA	Solid	Moisture	
720-91070-29	DG-X8S-0.5-1	Total/NA	Solid	Moisture	
720-91070-30	DG-X8S-3.5-4	Total/NA	Solid	Moisture	
720-91070-31	DG-Y8S-0.5-1	Total/NA	Solid	Moisture	
720-91070-32	DG-Y8S-3.5-4	Total/NA	Solid	Moisture	
720-91070-33	DG-Z8S-0.5-1	Total/NA	Solid	Moisture	
720-91070-34	DG-Z8S-3.5-4	Total/NA	Solid	Moisture	
720-91070-35	DUP-52	Total/NA	Solid	Moisture	
720-91070-36	DUP-53	Total/NA	Solid	Moisture	
720-91070-37	DUP-54	Total/NA	Solid	Moisture	
720-91070-38	DG-AA8S-0.5-1	Total/NA	Solid	Moisture	
720-91070-39	DG-AA8S-3.5-4	Total/NA	Solid	Moisture	
720-91070-25 DU	DG-S8S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-AI10S-0.5-1

Lab Sample ID: 720-91070-1

Date Collected: 01/29/19 07:55

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 23:07	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/07/19 23:07	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-AI10S-3.5-4

Lab Sample ID: 720-91070-2

Date Collected: 01/29/19 07:55

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 23:12	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/07/19 23:12	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-AC10S-0.5-1

Lab Sample ID: 720-91070-3

Date Collected: 01/29/19 08:30

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 23:17	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/07/19 23:17	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-AC10S-3.5-4

Lab Sample ID: 720-91070-4

Date Collected: 01/29/19 08:30

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 23:31	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/07/19 23:31	BKR	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260111	02/09/19 12:57	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-AC10S-3.5-4

Lab Sample ID: 720-91070-4

Date Collected: 01/29/19 08:30
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-AB10S-0.5-1

Lab Sample ID: 720-91070-5

Date Collected: 01/29/19 08:35
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260051	02/07/19 23:36	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261960	02/07/19 23:36	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		10	260224	02/12/19 13:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259536	01/31/19 08:56	TNL	TAL PLS

Client Sample ID: DG-AB10S-3.5-4

Lab Sample ID: 720-91070-6

Date Collected: 01/29/19 08:35
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 23:41	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/07/19 23:41	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-AA10S-0.5-1

Lab Sample ID: 720-91070-7

Date Collected: 01/29/19 08:40
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 23:46	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/07/19 23:46	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-AA10S-3.5-4

Lab Sample ID: 720-91070-8

Date Collected: 01/29/19 08:40
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260051	02/07/19 23:50	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261960	02/07/19 23:50	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-Z10S-0.5-1

Lab Sample ID: 720-91070-9

Date Collected: 01/29/19 08:50
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/07/19 23:55	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/07/19 23:55	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-Z10S-3.5-4

Lab Sample ID: 720-91070-10

Date Collected: 01/29/19 08:50
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260051	02/08/19 00:00	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261960	02/08/19 00:00	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DUP-68

Lab Sample ID: 720-91070-11

Date Collected: 01/29/19 00:00
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260051	02/08/19 00:05	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261960	02/08/19 00:05	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260224	02/12/19 14:01	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DUP-68
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DUP-69
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/08/19 00:09	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/08/19 00:09	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-Y10S-0.5-1
Date Collected: 01/29/19 09:10
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/08/19 00:14	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/08/19 00:14	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-Y10S-3.5-4
Date Collected: 01/29/19 09:10
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91070-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/08/19 00:29	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/08/19 00:29	BKR	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260227	02/12/19 14:06	OBI	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-X10S-0.5-1

Lab Sample ID: 720-91070-15

Date Collected: 01/29/19 09:15

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260051	02/08/19 00:33	MAG	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261960	02/08/19 00:33	BKR	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-X10S-3.5-4

Lab Sample ID: 720-91070-16

Date Collected: 01/29/19 09:15

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/07/19 23:30	MAG	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 13:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-W10S-0.5-1

Lab Sample ID: 720-91070-17

Date Collected: 01/29/19 09:25

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261797	03/12/19 11:10	OBI	TAL PLS
Total/NA	Prep	3050B			259477	01/30/19 11:00	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260051	02/07/19 22:43	MAG	TAL PLS
Total/NA	Prep	7471A			259478	02/11/19 17:38	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260224	02/12/19 12:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-W10S-3.5-4

Lab Sample ID: 720-91070-18

Date Collected: 01/29/19 09:25

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260027	02/07/19 23:35	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260214	02/11/19 18:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-R10S-0.5-1

Lab Sample ID: 720-91070-19

Date Collected: 01/29/19 10:10
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260027	02/07/19 23:39	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-R10S-3.5-4

Lab Sample ID: 720-91070-20

Date Collected: 01/29/19 10:10
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/07/19 23:44	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-R8S-0.5-1

Lab Sample ID: 720-91070-21

Date Collected: 01/29/19 10:35
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/07/19 23:49	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-R8S-3.5-4

Lab Sample ID: 720-91070-22

Date Collected: 01/29/19 10:35
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 00:04	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-O8S-0.5-1

Lab Sample ID: 720-91070-23

Date Collected: 01/29/19 11:05
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 00:08	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-O8S-3.5-4

Lab Sample ID: 720-91070-24

Date Collected: 01/29/19 11:05
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 00:13	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259547	01/31/19 10:01	TNL	TAL PLS

Client Sample ID: DG-S8S-0.5-1

Lab Sample ID: 720-91070-25

Date Collected: 01/29/19 11:40
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 00:18	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-S8S-3.5-4

Lab Sample ID: 720-91070-26

Date Collected: 01/29/19 11:40
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 00:23	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-W8S-0.5-1

Lab Sample ID: 720-91070-27

Date Collected: 01/29/19 13:15
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/07/19 23:25	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-W8S-3.5-4

Lab Sample ID: 720-91070-28

Date Collected: 01/29/19 13:15
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260027	02/08/19 00:27	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-X8S-0.5-1

Lab Sample ID: 720-91070-29

Date Collected: 01/29/19 14:00
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 00:32	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 17:58	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-X8S-3.5-4

Lab Sample ID: 720-91070-30

Date Collected: 01/29/19 14:00
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260027	02/08/19 00:37	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 18:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Client Sample ID: DG-Y8S-0.5-1

Lab Sample ID: 720-91070-31

Date Collected: 01/29/19 14:15
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260027	02/08/19 00:42	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 18:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-Y8S-3.5-4

Lab Sample ID: 720-91070-32

Date Collected: 01/29/19 14:15
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260027	02/08/19 00:47	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 18:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-Z8S-0.5-1

Lab Sample ID: 720-91070-33

Date Collected: 01/29/19 14:30
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 01:01	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 18:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-Z8S-3.5-4

Lab Sample ID: 720-91070-34

Date Collected: 01/29/19 14:30
Date Received: 01/29/19 18:25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 01:06	MAG	TAL PLS
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260065	02/08/19 14:32	OBI	TAL PLS
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261961	02/08/19 14:32	BKR	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 18:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DUP-52

Lab Sample ID: 720-91070-35

Date Collected: 01/29/19 00:00

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 01:11	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 18:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DUP-53

Lab Sample ID: 720-91070-36

Date Collected: 01/29/19 00:00

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259483	01/30/19 12:08	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260027	02/08/19 01:16	MAG	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 18:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DUP-54

Lab Sample ID: 720-91070-37

Date Collected: 01/29/19 00:00

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259491	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259577	01/31/19 12:09	BKR	TAL PLS
Total/NA	Prep	3050B			259491	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		10	259594	01/31/19 16:04	OBI	TAL PLS
Total/NA	Prep	7471A			259485	02/11/19 16:16	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260214	02/11/19 18:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-AA8S-0.5-1

Lab Sample ID: 720-91070-38

Date Collected: 01/29/19 14:50

Matrix: Solid

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259491	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259577	01/31/19 12:04	BKR	TAL PLS
Total/NA	Prep	3050B			259491	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259577	01/31/19 13:44	BKR	TAL PLS
Total/NA	Prep	7471A			259494	01/31/19 10:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259568	01/31/19 11:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AA8S-3.5-4
Lab Sample ID: 720-91070-39
Date Collected: 01/29/19 14:50
Matrix: Solid
Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259491	01/30/19 17:11	GLL	TAL PLS
Total/NA	Analysis	6010B		20	259577	01/31/19 13:29	BKR	TAL PLS
Total/NA	Prep	7471A			259494	01/31/19 10:10	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259568	01/31/19 11:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91070-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91070-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91070-1	DG-AI10S-0.5-1	Solid	01/29/19 07:55	01/29/19 18:25
720-91070-2	DG-AI10S-3.5-4	Solid	01/29/19 07:55	01/29/19 18:25
720-91070-3	DG-AC10S-0.5-1	Solid	01/29/19 08:30	01/29/19 18:25
720-91070-4	DG-AC10S-3.5-4	Solid	01/29/19 08:30	01/29/19 18:25
720-91070-5	DG-AB10S-0.5-1	Solid	01/29/19 08:35	01/29/19 18:25
720-91070-6	DG-AB10S-3.5-4	Solid	01/29/19 08:35	01/29/19 18:25
720-91070-7	DG-AA10S-0.5-1	Solid	01/29/19 08:40	01/29/19 18:25
720-91070-8	DG-AA10S-3.5-4	Solid	01/29/19 08:40	01/29/19 18:25
720-91070-9	DG-Z10S-0.5-1	Solid	01/29/19 08:50	01/29/19 18:25
720-91070-10	DG-Z10S-3.5-4	Solid	01/29/19 08:50	01/29/19 18:25
720-91070-11	DUP-68	Solid	01/29/19 00:00	01/29/19 18:25
720-91070-12	DUP-69	Solid	01/29/19 00:00	01/29/19 18:25
720-91070-13	DG-Y10S-0.5-1	Solid	01/29/19 09:10	01/29/19 18:25
720-91070-14	DG-Y10S-3.5-4	Solid	01/29/19 09:10	01/29/19 18:25
720-91070-15	DG-X10S-0.5-1	Solid	01/29/19 09:15	01/29/19 18:25
720-91070-16	DG-X10S-3.5-4	Solid	01/29/19 09:15	01/29/19 18:25
720-91070-17	DG-W10S-0.5-1	Solid	01/29/19 09:25	01/29/19 18:25
720-91070-18	DG-W10S-3.5-4	Solid	01/29/19 09:25	01/29/19 18:25
720-91070-19	DG-R10S-0.5-1	Solid	01/29/19 10:10	01/29/19 18:25
720-91070-20	DG-R10S-3.5-4	Solid	01/29/19 10:10	01/29/19 18:25
720-91070-21	DG-R8S-0.5-1	Solid	01/29/19 10:35	01/29/19 18:25
720-91070-22	DG-R8S-3.5-4	Solid	01/29/19 10:35	01/29/19 18:25
720-91070-23	DG-O8S-0.5-1	Solid	01/29/19 11:05	01/29/19 18:25
720-91070-24	DG-O8S-3.5-4	Solid	01/29/19 11:05	01/29/19 18:25
720-91070-25	DG-S8S-0.5-1	Solid	01/29/19 11:40	01/29/19 18:25
720-91070-26	DG-S8S-3.5-4	Solid	01/29/19 11:40	01/29/19 18:25
720-91070-27	DG-W8S-0.5-1	Solid	01/29/19 13:15	01/29/19 18:25
720-91070-28	DG-W8S-3.5-4	Solid	01/29/19 13:15	01/29/19 18:25
720-91070-29	DG-X8S-0.5-1	Solid	01/29/19 14:00	01/29/19 18:25
720-91070-30	DG-X8S-3.5-4	Solid	01/29/19 14:00	01/29/19 18:25
720-91070-31	DG-Y8S-0.5-1	Solid	01/29/19 14:15	01/29/19 18:25
720-91070-32	DG-Y8S-3.5-4	Solid	01/29/19 14:15	01/29/19 18:25
720-91070-33	DG-Z8S-0.5-1	Solid	01/29/19 14:30	01/29/19 18:25
720-91070-34	DG-Z8S-3.5-4	Solid	01/29/19 14:30	01/29/19 18:25
720-91070-35	DUP-52	Solid	01/29/19 00:00	01/29/19 18:25
720-91070-36	DUP-53	Solid	01/29/19 00:00	01/29/19 18:25
720-91070-37	DUP-54	Solid	01/29/19 00:00	01/29/19 18:25
720-91070-38	DG-AA8S-0.5-1	Solid	01/29/19 14:50	01/29/19 18:25
720-91070-39	DG-AA8S-3.5-4	Solid	01/29/19 14:50	01/29/19 18:25

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720 - 91070

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18615
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/29/19	COC No. 290/2019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler N. Randle
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91070 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)
1.	DG-AI10S-0.5-1	1/29/19	755	G	S	1	N		X
2.	DG-AI10S-3.5-4		755						
3.	DG-AC10S-0.5-1		830						
4.	DG-AC10S-3.5-4		830						
5.	DG-AB10S-0.5-1		835						
6.	DG-AB10S-3.5-4		835						
7.	DG-AA10S-0.5-1		840						
8.	DG-AA10S-3.5-4		840						
9.	DG-Z10S-0.5-1		850						
10.	DG-Z10S-3.5-4		850						
11.	DUP-68		—						
12.	DUP-69		—						

Preservation Used: (1= Ice) 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

0.6°C, 0.3°C, 0.3°C, 0.9°C, 1.2°C, 2.2°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C): Obs'd _____ Corr'd _____	Therm ID No. _____

Relinquished by: Nicholas L Randle	Company: Geosyntec	Date/Time: 1/29/19, 1600	Received by:	Company: TA-PLS	Date/Time: 1-29-19 16:00
Relinquished by:	Company: TA-PLS	Date/Time: 1-29-19 18:25	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91070

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/29/19	COC No 2901 2019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnias@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-Y10S-0.5-1	1/29/19	910	G	S	1	N		X	
14	DG-Y10S-3.5-4		910							
15	DG-X10S-0.5-1		915							
16	DG-X10S-3.5-4		915							
17	DG-W10S-0.5-1		925					Y		
18	DG-W10S-3.5-4		925							
19	DG-R10S-0.5-1		1010							
20	DG-R10S-3.5-4		1010							
21	DG-R3S-0.5-1		1035							
22	DG-R3S-3.5-4		1035							
23	DG-08S-0.5-1		1105							
24	DG-08S-3.5-4		1105							

Preservation Used: (1= Ice), 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No.: ____		
Relinquished by: Nicholas L Randle	Company: Geosyntec	Date/Time: 1/29/19, 1600	Received by	Company	Date/Time 1-29-19 16:40
Relinquished by	Company TA-PLS	Date/Time 1825-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

120-91070

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No 2901 2019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25	DG-S8S-0.5-1	1/29/19	1140	G	S	1	N		X	
26	DG-S8S-3.5-4		1140							
27	DG-W8S-0.5-1		1315					Y		
28	DG-W8S-3.5-4		1315							
29	DG-X8S-0.5-1		1400							
30	DG-X8S-3.5-4		1400							
31	DG-Y8S-0.5-1		1415							
32	DG-Y8S-3.5-4		1415							
33	DG-Z8S-0.5-1		1430							
34	DG-Z8S-3.5-4		1430							
35	Dup-S2		—							
36	Dup-S3		—							

Preservation Used: (1= Ice) 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by: Nicholas L Handle	Company: Geosyntec	Date/Time: 1/29/19 1600	Received by:	Company: TA PLS	Date/Time: 1-29-19 18:25
Relinquished by:	Company: T.A. PLS	Date/Time: 1-29-19 18:25	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

720-91010

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No: 2901/2019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
37 DUP-S4	1/24/19	—	G	S	1	N		X	
38 DG-AA8S-0.5-1	1	1450	1	1	1	1		1	
39 DG-AA8S-3.5-4	1	1450	1	1	1	1	Y	1	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd: _____ Corr'd: _____ Therm ID No: _____		
Relinquished by: Nicholas Pandle	Company: Geosyntec	Date/Time: 1/29/19 1600	Received by:	Company: TA-PLS	Date/Time: 1-29-19 16:30
Relinquished by:	Company: TA-PLS	Date/Time: 1-29-19 18:25	Received by:	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91070-1

Login Number: 91070
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

April 2, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91070-A-10-A	DG-Z10S-3.5-4	9.9	ND
720-91070-A-11-A	DUP-68	9.7	ND
720-91070-A-12-A	DUP-69	24	ND
720-91070-A-13-A	DG-Y10S-0.5-1	25	0.45
720-91070-A-14-A	DG-Y10S-3.5-4	27	0.46
720-91070-A-15-A	DG-X10S-0.5-1	34	ND
720-91070-A-17-C	DG-W10S-0.5-1	110	ND
720-91070-A-1-A	DG-AI10S-0.5-1	33	ND
720-91070-A-2-A	DG-AI10S-3.5-4	9.2	ND
720-91070-A-34-A	DG-Z8S-3.5-4	10	ND
720-91070-A-3-A	DG-AC10S-0.5-1	25	0.55
720-91070-A-4-A	DG-AC10S-3.5-4	30	ND
720-91070-A-5-A	DG-AB10S-0.5-1	20	ND
720-91070-A-6-A	DG-AB10S-3.5-4	15	ND
720-91070-A-7-A	DG-AA10S-0.5-1	29	0.80

* ND values are ND at the same RL originally reported.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91070-A-8-A	DG-AA10S-3.5-4	11	ND
720-91070-A-9-A	DG-Z10S-0.5-1	24	0.57

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa A Brewer

Melissa Brewer
Quality Assurance Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91071-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/18/2019 8:27:19 AM
Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91071-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91071-1

Comments
No additional comments.

Receipt
The samples were received on 1/29/2019 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.3º C, 0.3º C, 0.6º C, 0.9º C, 1.2º C and 2.2º C.

Receipt Exceptions
The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): DG-T17W (720-91071-9). The lab received 1 amber glass 1L bottle which was half full. The sample was shipped to Irvine, logged in on hold. Following client direction, the analysis for this sample volume was canceled.

GC/MS VOA
Method 8260B: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-527806 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528098 recovered above the upper control limit for 1,1-Dichloroethene and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The continuing calibration verification (CCV) associated with batch 440-526356 recovered above the upper control limit for Benzo[a]anthracene. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method 8270C SIM: The following samples required a dilution due to the nature of the sample matrix: DG-AK11W (720-91071-1) and DG-AH13W (720-91071-5). Because of this dilution, the surrogate spike concentration in the samples were reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: high hydrocarbons DG-AK11W (720-91071-1), DG-AL13W (720-91071-3), DG-AJ13W (720-91071-4) and DG-AH13W (720-91071-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB but recoveries for target element passed criteria: (ICSA 720-259731/7) and (ICSAB 720-259731/8).

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259874 was outside control limits for Barium-22%: (720-91051-I-1-D SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 720-91071-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Organic Prep

Method 3510C: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AH13W (720-91071-5) and DG-W15W (720-91071-6). The reporting limits (RLs) are elevated proportionately. 8015B

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526244. 8015B_DRO. LCS was performed in duplicate to provide precision of data.

Method 3510C: Gravity Separation was performed on the following samples: DG-AK11W (720-91071-1), DG-AL13W (720-91071-3), DG-AJ13W (720-91071-4) and DG-AH13W (720-91071-5)

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-526142. 8270C-SIM-PAH. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Client Sample ID: DG-AK11W — Lab Sample ID: 720-91071-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	87		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Methyl tert-butyl ether	1.3		0.50	0.25	ug/L	1		8260B	Total/NA
Benzene	1.5		0.50	0.25	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.48	J	0.50	0.25	ug/L	1		8260B	Total/NA
4-Isopropyltoluene	0.26	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	2.1		1.0	0.40	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.35	J	0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	0.53		0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.83		0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	1.5		1.0	0.50	ug/L	1		8260B	Total/NA
Naphthalene	3.1	J	4.1	2.0	ug/L	20		8270C SIM	Total/NA
Acenaphthene	2.2	J	4.1	2.0	ug/L	20		8270C SIM	Total/NA
Fluorene	4.8		4.1	2.0	ug/L	20		8270C SIM	Total/NA
Phenanthrene	8.3		4.1	2.0	ug/L	20		8270C SIM	Total/NA
Anthracene	2.2	J	4.1	2.0	ug/L	20		8270C SIM	Total/NA
Chrysene	3.3	J	4.1	2.0	ug/L	20		8270C SIM	Total/NA
Benzo[a]pyrene	2.3	J	4.1	2.0	ug/L	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	2.4	J	4.1	2.0	ug/L	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	2.4	J	4.1	2.0	ug/L	20		8270C SIM	Total/NA
Fluoranthene	4.0	J	4.1	2.0	ug/L	20		8270C SIM	Total/NA
Pyrene	5.7		4.1	2.0	ug/L	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	8000		560	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2900		560	110	ug/L	1		8015B	Total/NA
Arsenic	12		10	2.9	ug/L	1		6010B	Dissolved
Barium	1700		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.4	J	10	0.70	ug/L	1		6010B	Dissolved
Molybdenum	8.6	J	10	2.9	ug/L	1		6010B	Dissolved

Client Sample ID: DG-R13W — Lab Sample ID: 720-91071-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.34	J	0.50	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	0.92		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	170	J	530	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160	J	530	110	ug/L	1		8015B	Total/NA
Antimony	5.5	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	6.9	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	24	J	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.0	J	10	0.70	ug/L	1		6010B	Dissolved
Molybdenum	4.4	J	10	2.9	ug/L	1		6010B	Dissolved
Vanadium	0.91	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AL13W — Lab Sample ID: 720-91071-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.0		0.50	0.25	ug/L	1		8260B	Total/NA
Benzene	0.35	J	0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	0.31	J	0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	5300		500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1900		500	100	ug/L	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Client Sample ID: DG-AL13W (Continued) — Lab Sample ID: 720-91071-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.7	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	18		10	2.9	ug/L	1		6010B	Dissolved
Barium	870		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.4	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	1.3	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.6	J	20	3.7	ug/L	1		6010B	Dissolved
Molybdenum	4.0	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.8	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	56		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AJ13W — Lab Sample ID: 720-91071-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.77		0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	0.29	J	0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	4700		540	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2300		540	110	ug/L	1		8015B	Total/NA
Arsenic	9.8	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	1300		50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.2	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	0.87	J	2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	3.5	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.2	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.1	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	41		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AH13W — Lab Sample ID: 720-91071-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	100		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Methyl tert-butyl ether	0.30	J	0.50	0.25	ug/L	1		8260B	Total/NA
Benzene	7.1		0.50	0.25	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.50	J	1.0	0.40	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.50		0.50	0.25	ug/L	1		8260B	Total/NA
Ethylbenzene	0.52		0.50	0.25	ug/L	1		8260B	Total/NA
Isopropylbenzene	1.6		0.50	0.25	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.7		0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	0.72		0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.31	J	0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	1.1		1.0	0.50	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	14000		1000	200	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	6300		1000	200	ug/L	1		8015B	Total/NA
Arsenic	4.7	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	110		50	1.6	ug/L	1		6010B	Dissolved
Chromium	2.0	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	3.7		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	4.7	J	20	3.7	ug/L	1		6010B	Dissolved
Vanadium	4.2	J	10	0.87	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Client Sample ID: DG-W15W — Lab Sample ID: 720-91071-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.13	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.38		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.43		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.17	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.12	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.12	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.12	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.25		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.17	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.49		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.47		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1100		1000	210	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1100		1000	210	ug/L	1		8015B	Total/NA
Arsenic	4.2	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	48	J	50	1.6	ug/L	1		6010B	Dissolved
Molybdenum	7.7	J	10	2.9	ug/L	1		6010B	Dissolved

Client Sample ID: TB-01.29.19 — Lab Sample ID: 720-91071-7

No Detections.

Client Sample ID: FB-01.29.19 — Lab Sample ID: 720-91071-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	57		20	10	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK11W

Date Collected: 01/29/19 07:40
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-1

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**87**		50	35	ug/L			02/12/19 09:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/12/19 09:47*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/12/19 09:47*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/12/19 09:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.3**		0.50	0.25	ug/L			02/12/19 09:47	1
Acetone	ND		20	10	ug/L			02/12/19 09:47	1
Benzene	**1.5**		0.50	0.25	ug/L			02/12/19 09:47	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 09:47	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 09:47	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 09:47	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 09:47	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 09:47	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 09:47	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 09:47	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 09:47	1

Client Sample ID: DG-AK11W

Date Collected: 01/29/19 07:40
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 09:47	1
Isopropylbenzene	**0.48**	**J**	0.50	0.25	ug/L			02/12/19 09:47	1
4-Isopropyltoluene	**0.26**	**J**	0.50	0.25	ug/L			02/12/19 09:47	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 09:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 09:47	1
Naphthalene	**2.1**		1.0	0.40	ug/L			02/12/19 09:47	1
N-Propylbenzene	**0.35**	**J**	0.50	0.25	ug/L			02/12/19 09:47	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Toluene	**0.53**		0.50	0.25	ug/L			02/12/19 09:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 09:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 09:47	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 09:47	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 09:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 09:47	1
1,2,4-Trimethylbenzene	**0.83**		0.50	0.25	ug/L			02/12/19 09:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 09:47	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 09:47	1
Xylenes, Total	**1.5**		1.0	0.50	ug/L			02/12/19 09:47	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 09:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/12/19 09:47*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/12/19 09:47*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3.1**	**J**	4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Acenaphthene	**2.2**	**J**	4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Acenaphthylene	ND		4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Fluorene	**4.8**		4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Phenanthrene	**8.3**		4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Anthracene	**2.2**	**J**	4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Benzo[a]anthracene	ND		4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Chrysene	**3.3**	**J**	4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Benzo[a]pyrene	**2.3**	**J**	4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Benzo[b]fluoranthene	**2.4**	**J**	4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Benzo[k]fluoranthene	ND		4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Benzo[g,h,i]perylene	**2.4**	**J**	4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Indeno[1,2,3-cd]pyrene	ND		4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Fluoranthene	**4.0**	**J**	4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Pyrene	**5.7**		4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20
Dibenz(a,h)anthracene	ND		4.1	2.0	ug/L		01/31/19 13:42	02/06/19 15:27	20

Client Sample ID: DG-AK11W

Date Collected: 01/29/19 07:40
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*38 - 120*	*01/31/19 13:42*	*02/06/19 15:27*	*20*
Nitrobenzene-d5	*122*	*X*	*10 - 120*	*01/31/19 13:42*	*02/06/19 15:27*	*20*
Terphenyl-d14	*89*		*21 - 120*	*01/31/19 13:42*	*02/06/19 15:27*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8000**		560	110	ug/L		02/01/19 05:57	02/02/19 07:31	1
Motor Oil Range Organics [C24-C36]	**2900**		560	110	ug/L		02/01/19 05:57	02/02/19 07:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*91*		*45 - 120*	*02/01/19 05:57*	*02/02/19 07:31*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 16:34	1
Arsenic	**12**		10	2.9	ug/L		02/01/19 10:32	02/02/19 16:34	1
Barium	**1700**		50	1.6	ug/L		02/01/19 10:32	02/02/19 16:34	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:34	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:34	1
Chromium	**1.4**	**J**	10	0.70	ug/L		02/01/19 10:32	02/02/19 16:34	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:34	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 16:34	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:34	1
Molybdenum	**8.6**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:34	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 16:34	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:34	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:34	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 17:43	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 16:34	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:34	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/29/19 22:40	1

Client Sample ID: DG-R13W
Date Collected: 01/29/19 08:20
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/12/19 11:03*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/12/19 11:03*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 11:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Acetone	ND		20	10	ug/L			02/12/19 11:03	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 11:03	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 11:03	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 11:03	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 11:03	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 11:03	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 11:03	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 11:03	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 11:03	1

Client Sample ID: DG-R13W
Date Collected: 01/29/19 08:20
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 11:03	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 11:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 11:03	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 11:03	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Toluene	**0.34**	**J**	0.50	0.25	ug/L			02/12/19 11:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 11:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 11:03	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Trichloroethene	**0.92**		0.50	0.25	ug/L			02/12/19 11:03	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 11:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 11:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 11:03	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 11:03	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 11:03	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/12/19 11:03*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 11:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Acenaphthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Fluorene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Phenanthrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Chrysene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 19:03	1

Client Sample ID: DG-R13W

Date Collected: 01/29/19 08:20
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*	*01/31/19 13:42*	*02/04/19 19:03*	*1*
Nitrobenzene-d5	*86*		*10 - 120*	*01/31/19 13:42*	*02/04/19 19:03*	*1*
Terphenyl-d14	*64*		*21 - 120*	*01/31/19 13:42*	*02/04/19 19:03*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**	**J**	530	110	ug/L		02/01/19 05:57	02/02/19 08:52	1
Motor Oil Range Organics [C24-C36]	**160**	**J**	530	110	ug/L		02/01/19 05:57	02/02/19 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*58*		*45 - 120*	*02/01/19 05:57*	*02/02/19 08:52*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.5**	**J**	10	4.1	ug/L		02/01/19 10:32	02/02/19 16:39	1
Arsenic	**6.9**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:39	1
Barium	**24**	**J**	50	1.6	ug/L		02/01/19 10:32	02/02/19 16:39	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:39	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:39	1
Chromium	**1.0**	**J**	10	0.70	ug/L		02/01/19 10:32	02/02/19 16:39	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:39	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 16:39	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:39	1
Molybdenum	**4.4**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:39	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 16:39	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:39	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:39	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 17:48	1
Vanadium	**0.91**	**J**	10	0.87	ug/L		02/01/19 10:32	02/02/19 16:39	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:39	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/29/19 22:40	1

Client Sample ID: DG-AL13W

Date Collected: 01/29/19 10:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-3

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/12/19 11:29*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/12/19 11:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 11:29*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**4.0**		0.50	0.25	ug/L			02/12/19 11:29	1
Acetone	ND		20	10	ug/L			02/12/19 11:29	1
Benzene	**0.35**	**J**	0.50	0.25	ug/L			02/12/19 11:29	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 11:29	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 11:29	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 11:29	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 11:29	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 11:29	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 11:29	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 11:29	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 11:29	1

Client Sample ID: DG-AL13W
Date Collected: 01/29/19 10:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 11:29	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 11:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 11:29	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 11:29	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Toluene	**0.31**	**J**	0.50	0.25	ug/L			02/12/19 11:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 11:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 11:29	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 11:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 11:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 11:29	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 11:29	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 11:29	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/12/19 11:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 11:29*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Acenaphthene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Acenaphthylene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Fluorene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Phenanthrene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Anthracene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Benzo[a]anthracene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Chrysene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Benzo[a]pyrene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Benzo[b]fluoranthene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Benzo[k]fluoranthene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Benzo[g,h,i]perylene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Indeno[1,2,3-cd]pyrene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Fluoranthene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Pyrene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4
Dibenz(a,h)anthracene	ND		0.82	0.41	ug/L		01/31/19 13:42	02/06/19 14:19	4

Client Sample ID: DG-AL13W

Date Collected: 01/29/19 10:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*38 - 120*	*01/31/19 13:42*	*02/06/19 14:19*	*4*
Nitrobenzene-d5	*66*		*10 - 120*	*01/31/19 13:42*	*02/06/19 14:19*	*4*
Terphenyl-d14	*60*		*21 - 120*	*01/31/19 13:42*	*02/06/19 14:19*	*4*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5300**		500	100	ug/L		02/01/19 05:57	02/02/19 09:53	1
Motor Oil Range Organics [C24-C36]	**1900**		500	100	ug/L		02/01/19 05:57	02/02/19 09:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*73*		*45 - 120*	*02/01/19 05:57*	*02/02/19 09:53*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.7**	**J**	10	4.1	ug/L		02/01/19 10:32	02/02/19 16:44	1
Arsenic	**18**		10	2.9	ug/L		02/01/19 10:32	02/02/19 16:44	1
Barium	**870**		50	1.6	ug/L		02/01/19 10:32	02/02/19 16:44	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:44	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:44	1
Chromium	**1.4**	**J**	10	0.70	ug/L		02/01/19 10:32	02/02/19 16:44	1
Cobalt	**1.3**	**J**	2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:44	1
Copper	**6.6**	**J**	20	3.7	ug/L		02/01/19 10:32	02/02/19 16:44	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:44	1
Molybdenum	**4.0**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:44	1
Nickel	**1.8**	**J**	10	1.0	ug/L		02/01/19 10:32	02/02/19 16:44	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:44	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:44	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 17:52	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 16:44	1
Zinc	**56**		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:44	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/29/19 22:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Client Sample ID: DG-AJ13W
Date Collected: 01/29/19 12:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/12/19 11:54*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/12/19 11:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/12/19 11:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.77**		0.50	0.25	ug/L			02/12/19 11:54	1
Acetone	ND		20	10	ug/L			02/12/19 11:54	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 11:54	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 11:54	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 11:54	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 11:54	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 11:54	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 11:54	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 11:54	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 11:54	1

Client Sample ID: DG-AJ13W
Date Collected: 01/29/19 12:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 11:54	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 11:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 11:54	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 11:54	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Toluene	**0.29**	**J**	0.50	0.25	ug/L			02/12/19 11:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 11:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 11:54	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 11:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 11:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 11:54	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 11:54	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 11:54	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/12/19 11:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/12/19 11:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Acenaphthene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Acenaphthylene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Fluorene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Phenanthrene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Anthracene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Benzo[a]anthracene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Chrysene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Benzo[a]pyrene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Benzo[b]fluoranthene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Benzo[k]fluoranthene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Benzo[g,h,i]perylene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Indeno[1,2,3-cd]pyrene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Fluoranthene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Pyrene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10
Dibenz(a,h)anthracene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 15:05	10

Client Sample ID: DG-AJ13W

Date Collected: 01/29/19 12:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*38 - 120*	*01/31/19 13:42*	*02/06/19 15:05*	*10*
Nitrobenzene-d5	*67*		*10 - 120*	*01/31/19 13:42*	*02/06/19 15:05*	*10*
Terphenyl-d14	*67*		*21 - 120*	*01/31/19 13:42*	*02/06/19 15:05*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4700**		540	110	ug/L		02/01/19 05:57	02/02/19 10:14	1
Motor Oil Range Organics [C24-C36]	**2300**		540	110	ug/L		02/01/19 05:57	02/02/19 10:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*86*		*45 - 120*	*02/01/19 05:57*	*02/02/19 10:14*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 16:49	1
Arsenic	**9.8**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:49	1
Barium	**1300**		50	1.6	ug/L		02/01/19 10:32	02/02/19 16:49	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:49	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:49	1
Chromium	**1.2**	**J**	10	0.70	ug/L		02/01/19 10:32	02/02/19 16:49	1
Cobalt	**0.87**	**J**	2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:49	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 16:49	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:49	1
Molybdenum	**3.5**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:49	1
Nickel	**1.2**	**J**	10	1.0	ug/L		02/01/19 10:32	02/02/19 16:49	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:49	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:49	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 17:57	1
Vanadium	**1.1**	**J**	10	0.87	ug/L		02/01/19 10:32	02/02/19 16:49	1
Zinc	**41**		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:49	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/29/19 22:40	1

Client Sample ID: DG-AH13W

Date Collected: 01/29/19 12:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-5

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**100**		50	35	ug/L			02/12/19 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/12/19 12:20*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/12/19 12:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 12:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.30**	**J**	0.50	0.25	ug/L			02/12/19 12:20	1
Acetone	ND		20	10	ug/L			02/12/19 12:20	1
Benzene	**7.1**		0.50	0.25	ug/L			02/12/19 12:20	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 12:20	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 12:20	1
n-Butylbenzene	**0.50**	**J**	1.0	0.40	ug/L			02/12/19 12:20	1
sec-Butylbenzene	**0.50**		0.50	0.25	ug/L			02/12/19 12:20	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 12:20	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 12:20	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 12:20	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 12:20	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Ethylbenzene	**0.52**		0.50	0.25	ug/L			02/12/19 12:20	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 12:20	1

Client Sample ID: DG-AH13W

Date Collected: 01/29/19 12:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 12:20	1
Isopropylbenzene	**1.6**		0.50	0.25	ug/L			02/12/19 12:20	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 12:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 12:20	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 12:20	1
N-Propylbenzene	**1.7**		0.50	0.25	ug/L			02/12/19 12:20	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Toluene	**0.72**		0.50	0.25	ug/L			02/12/19 12:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 12:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 12:20	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 12:20	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 12:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 12:20	1
1,2,4-Trimethylbenzene	**0.31**	**J**	0.50	0.25	ug/L			02/12/19 12:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 12:20	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 12:20	1
Xylenes, Total	**1.1**		1.0	0.50	ug/L			02/12/19 12:20	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/12/19 12:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 12:20*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Acenaphthene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Acenaphthylene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Fluorene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Phenanthrene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Anthracene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Benzo[a]anthracene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Chrysene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Benzo[a]pyrene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Benzo[b]fluoranthene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Benzo[k]fluoranthene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Benzo[g,h,i]perylene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Indeno[1,2,3-cd]pyrene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Fluoranthene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Pyrene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10
Dibenz(a,h)anthracene	ND		2.0	1.0	ug/L		01/31/19 13:42	02/06/19 14:42	10

Client Sample ID: DG-AH13W

Date Collected: 01/29/19 12:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*38 - 120*	*01/31/19 13:42*	*02/06/19 14:42*	*10*
Nitrobenzene-d5	*465*	*X*	*10 - 120*	*01/31/19 13:42*	*02/06/19 14:42*	*10*
Terphenyl-d14	*82*		*21 - 120*	*01/31/19 13:42*	*02/06/19 14:42*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14000**		1000	200	ug/L		02/01/19 05:57	02/02/19 09:13	1
Motor Oil Range Organics [C24-C36]	**6300**		1000	200	ug/L		02/01/19 05:57	02/02/19 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*92*		*45 - 120*	*02/01/19 05:57*	*02/02/19 09:13*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 16:54	1
Arsenic	**4.7**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:54	1
Barium	**110**		50	1.6	ug/L		02/01/19 10:32	02/02/19 16:54	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:54	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:54	1
Chromium	**2.0**	**J**	10	0.70	ug/L		02/01/19 10:32	02/02/19 16:54	1
Cobalt	**3.7**		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:54	1
Copper	**4.7**	**J**	20	3.7	ug/L		02/01/19 10:32	02/02/19 16:54	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:54	1
Molybdenum	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 16:54	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 16:54	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:54	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:54	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 18:02	1
Vanadium	**4.2**	**J**	10	0.87	ug/L		02/01/19 10:32	02/02/19 16:54	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 16:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/29/19 22:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Client Sample ID: DG-W15W
Date Collected: 01/29/19 15:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/12/19 12:45*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/12/19 12:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 12:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Acetone	ND		20	10	ug/L			02/12/19 12:45	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 12:45	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 12:45	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 12:45	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 12:45	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 12:45	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 12:45	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 12:45	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 12:45	1

Client Sample ID: DG-W15W

Date Collected: 01/29/19 15:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 12:45	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 12:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 12:45	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 12:45	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 12:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 12:45	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 12:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 12:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 12:45	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 12:45	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 12:45	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/12/19 12:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 12:45*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.13**	**J**	0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Acenaphthene	**0.38**		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Acenaphthylene	**0.43**		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Fluorene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Phenanthrene	**0.17**	**J**	0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Anthracene	**0.12**	**J**	0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Chrysene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Benzo[a]pyrene	**0.12**	**J**	0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Benzo[b]fluoranthene	**0.12**	**J**	0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Benzo[g,h,i]perylene	**0.25**		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Indeno[1,2,3-cd]pyrene	**0.17**	**J**	0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Fluoranthene	**0.49**		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Pyrene	**0.47**		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/04/19 18:40	1

Client Sample ID: DG-W15W

Date Collected: 01/29/19 15:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*38 - 120*	*01/31/19 13:42*	*02/04/19 18:40*	*1*
Nitrobenzene-d5	*76*		*10 - 120*	*01/31/19 13:42*	*02/04/19 18:40*	*1*
Terphenyl-d14	*80*		*21 - 120*	*01/31/19 13:42*	*02/04/19 18:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1100**		1000	210	ug/L		02/01/19 05:57	02/02/19 10:34	1
Motor Oil Range Organics [C24-C36]	**1100**		1000	210	ug/L		02/01/19 05:57	02/02/19 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*93*		*45 - 120*	*02/01/19 05:57*	*02/02/19 10:34*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 16:59	1
Arsenic	**4.2**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:59	1
Barium	**48**	**J**	50	1.6	ug/L		02/01/19 10:32	02/02/19 16:59	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 16:59	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 16:59	1
Chromium	ND		10	0.70	ug/L		02/01/19 10:32	02/02/19 16:59	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 16:59	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 16:59	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 16:59	1
Molybdenum	**7.7**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 16:59	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 16:59	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 16:59	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 16:59	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 18:07	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 16:59	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 16:59	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/29/19 22:43	1

Client Sample ID: TB-01.29.19
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/10/19 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/10/19 17:34*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/10/19 17:34*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/10/19 17:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Acetone	ND		20	10	ug/L			02/10/19 17:34	1
Benzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Bromobenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Bromoform	ND		1.0	0.40	ug/L			02/10/19 17:34	1
Bromomethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/10/19 17:34	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/10/19 17:34	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/10/19 17:34	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Chloroethane	ND		1.0	0.40	ug/L			02/10/19 17:34	1
Chloroform	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Chloromethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/10/19 17:34	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Dibromomethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/10/19 17:34	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/10/19 17:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Client Sample ID: TB-01.29.19
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/10/19 17:34	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/10/19 17:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/10/19 17:34	1
Naphthalene	ND		1.0	0.40	ug/L			02/10/19 17:34	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Styrene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Toluene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/10/19 17:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/10/19 17:34	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Trichloroethene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/10/19 17:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/10/19 17:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/10/19 17:34	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/10/19 17:34	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/10/19 17:34	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/10/19 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*02/10/19 17:34*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/10/19 17:34*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Client Sample ID: FB-01.29.19
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-8
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/10/19 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*02/10/19 18:00*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/10/19 18:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/10/19 18:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Acetone	**57**		20	10	ug/L			02/10/19 18:00	1
Benzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Bromobenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Bromoform	ND		1.0	0.40	ug/L			02/10/19 18:00	1
Bromomethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/10/19 18:00	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/10/19 18:00	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/10/19 18:00	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Chloroethane	ND		1.0	0.40	ug/L			02/10/19 18:00	1
Chloroform	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Chloromethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/10/19 18:00	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Dibromomethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/10/19 18:00	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/10/19 18:00	1

Client Sample ID: FB-01.29.19
Date Collected: 01/29/19 00:00
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/10/19 18:00	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/10/19 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/10/19 18:00	1
Naphthalene	ND		1.0	0.40	ug/L			02/10/19 18:00	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Styrene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Toluene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/10/19 18:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/10/19 18:00	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Trichloroethene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/10/19 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/10/19 18:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/10/19 18:00	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/10/19 18:00	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/10/19 18:00	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/10/19 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*02/10/19 18:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/10/19 18:00*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-231742-B-5 MS	Matrix Spike	101	98
440-231742-B-5 MSD	Matrix Spike Duplicate	98	100
720-91071-1	DG-AK11W	99	98
720-91071-1 MS	DG-AK11W	95	98
720-91071-1 MSD	DG-AK11W	97	97
720-91071-2	DG-R13W	99	99
720-91071-3	DG-AL13W	98	100
720-91071-4	DG-AJ13W	99	98
720-91071-5	DG-AH13W	99	100
720-91071-6	DG-W15W	98	100
720-91071-7	TB-01.29.19	104	100
720-91071-8	FB-01.29.19	107	100
LCS 440-527806/5	Lab Control Sample	99	98
LCS 440-528098/6	Lab Control Sample	98	98
LCSD 440-527806/6	Lab Control Sample Dup	101	99
MB 440-527806/4	Method Blank	99	100
MB 440-528098/5	Method Blank	100	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-231742-B-5 MS	Matrix Spike	103	98	98
440-231742-B-5 MSD	Matrix Spike Duplicate	104	98	100
720-91071-1	DG-AK11W	102	94	98
720-91071-1 MS	DG-AK11W	101	96	98
720-91071-1 MSD	DG-AK11W	103	95	97
720-91071-2	DG-R13W	104	94	99
720-91071-3	DG-AL13W	103	93	100
720-91071-4	DG-AJ13W	103	93	98
720-91071-5	DG-AH13W	103	93	100
720-91071-6	DG-W15W	103	95	100
720-91071-7	TB-01.29.19	104	96	100
720-91071-8	FB-01.29.19	105	94	100
LCS 440-527807/7	Lab Control Sample	102	93	101
LCS 440-528117/7	Lab Control Sample	100	93	100
MB 440-527807/4	Method Blank	101	94	100
MB 440-528117/5	Method Blank	104	92	99

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-91071-1	DG-AK11W	73	122 X	89
720-91071-2	DG-R13W	93	86	64
720-91071-3	DG-AL13W	65	66	60
720-91071-4	DG-AJ13W	60	67	67
720-91071-5	DG-AH13W	67	465 X	82
720-91071-6	DG-W15W	83	76	80
LCS 440-526142/2-A	Lab Control Sample	93	103	89
LCSD 440-526142/3-A	Lab Control Sample Dup	78	86	87
MB 440-526142/1-A	Method Blank	87	92	98

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-91071-1	DG-AK11W	91
720-91071-2	DG-R13W	58
720-91071-3	DG-AL13W	73
720-91071-4	DG-AJ13W	86
720-91071-5	DG-AH13W	92
720-91071-6	DG-W15W	93
LCS 440-526244/2-A	Lab Control Sample	72
LCSD 440-526244/3-A	Lab Control Sample Dup	74
MB 440-526244/1-A	Method Blank	88

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-527806/4
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Acetone	ND		20	10	ug/L			02/10/19 11:38	1
Benzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Bromobenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Bromoform	ND		1.0	0.40	ug/L			02/10/19 11:38	1
Bromomethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/10/19 11:38	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/10/19 11:38	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/10/19 11:38	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Chloroethane	ND		1.0	0.40	ug/L			02/10/19 11:38	1
Chloroform	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Chloromethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/10/19 11:38	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Dibromomethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/10/19 11:38	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
2-Hexanone	ND		5.0	2.5	ug/L			02/10/19 11:38	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/10/19 11:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/10/19 11:38	1
Naphthalene	ND		1.0	0.40	ug/L			02/10/19 11:38	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Styrene	ND		0.50	0.25	ug/L			02/10/19 11:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527806/4
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Toluene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/10/19 11:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/10/19 11:38	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Trichloroethene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/10/19 11:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/10/19 11:38	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/10/19 11:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/10/19 11:38	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/10/19 11:38	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/10/19 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/10/19 11:38*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/10/19 11:38*	*1*

Lab Sample ID: LCS 440-527806/5
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	9.72		ug/L		97	63 - 131
Acetone	10.0	ND		ug/L		61	10 - 150
Benzene	10.0	10.3		ug/L		103	68 - 130
Dichlorobromomethane	10.0	9.65		ug/L		97	70 - 132
Bromobenzene	10.0	10.5		ug/L		105	70 - 130
Chlorobromomethane	10.0	10.6		ug/L		106	70 - 130
Bromoform	10.0	9.08		ug/L		91	60 - 148
Bromomethane	10.0	10.3		ug/L		103	64 - 139
2-Butanone (MEK)	10.0	9.17		ug/L		92	44 - 150
n-Butylbenzene	10.0	10.6		ug/L		106	65 - 150
sec-Butylbenzene	10.0	10.5		ug/L		105	70 - 138
tert-Butylbenzene	10.0	10.7		ug/L		107	70 - 130
Carbon disulfide	10.0	9.83		ug/L		98	52 - 136
Carbon tetrachloride	10.0	9.88		ug/L		99	60 - 150
Chlorobenzene	10.0	10.6		ug/L		106	70 - 130
Chloroethane	10.0	9.68		ug/L		97	64 - 135
Chloroform	10.0	10.3		ug/L		103	70 - 130
Chloromethane	10.0	8.78		ug/L		88	47 - 140
2-Chlorotoluene	10.0	10.3		ug/L		103	70 - 130
4-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527806/5
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	10.0	9.54		ug/L		95	69 - 145
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
1,3-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 130
1,4-Dichlorobenzene	10.0	10.5		ug/L		105	70 - 130
1,3-Dichloropropane	10.0	10.4		ug/L		104	70 - 130
1,1-Dichloropropene	10.0	10.5		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	8.80		ug/L		88	52 - 140
Ethylene Dibromide	10.0	10.7		ug/L		107	70 - 130
Dibromomethane	10.0	10.1		ug/L		101	70 - 130
Dichlorodifluoromethane	10.0	8.77		ug/L		88	29 - 150
1,1-Dichloroethane	10.0	10.1		ug/L		101	64 - 130
1,2-Dichloroethane	10.0	9.81		ug/L		98	57 - 138
1,1-Dichloroethene	10.0	10.9		ug/L		109	70 - 130
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	70 - 133
trans-1,2-Dichloroethene	10.0	11.0		ug/L		110	70 - 130
1,2-Dichloropropane	10.0	10.3		ug/L		103	67 - 130
cis-1,3-Dichloropropene	10.0	10.0		ug/L		100	70 - 133
trans-1,3-Dichloropropene	10.0	9.59		ug/L		96	70 - 132
Ethylbenzene	10.0	10.1		ug/L		101	70 - 130
Hexachlorobutadiene	10.0	11.0		ug/L		110	10 - 150
2-Hexanone	10.0	9.38		ug/L		94	10 - 150
Isopropylbenzene	10.0	10.2		ug/L		102	70 - 136
4-Isopropyltoluene	10.0	10.9		ug/L		109	70 - 132
Methylene Chloride	10.0	8.87		ug/L		89	52 - 130
4-Methyl-2-pentanone (MIBK)	10.0	8.51		ug/L		85	59 - 149
Naphthalene	10.0	9.61		ug/L		96	60 - 140
N-Propylbenzene	10.0	10.2		ug/L		102	67 - 139
Styrene	10.0	9.52		ug/L		95	70 - 134
1,1,1,2-Tetrachloroethane	10.0	9.73		ug/L		97	60 - 141
1,1,2,2-Tetrachloroethane	10.0	10.1		ug/L		101	63 - 130
Tetrachloroethene	10.0	10.8		ug/L		108	70 - 130
Toluene	10.0	9.85		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	10.0	10.1		ug/L		101	60 - 140
1,2,4-Trichlorobenzene	10.0	10.7		ug/L		107	60 - 140
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	70 - 130
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	70 - 130
Trichloroethene	10.0	11.1		ug/L		111	70 - 130
Trichlorofluoromethane	10.0	11.3		ug/L		113	60 - 150
1,2,3-Trichloropropane	10.0	11.5		ug/L		115	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.8		ug/L		118	60 - 140
1,2,4-Trimethylbenzene	10.0	10.4		ug/L		104	70 - 135
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	70 - 136
Vinyl acetate	10.0	8.68		ug/L		87	48 - 140
Vinyl chloride	10.0	9.80		ug/L		98	59 - 133
m-Xylene & p-Xylene	10.0	10.4		ug/L		104	70 - 130
o-Xylene	10.0	10.6		ug/L		106	70 - 130
2,2-Dichloropropane	10.0	10.6		ug/L		106	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527806/5
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: LCSD 440-527806/6
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			10.0	9.83		ug/L		98	63 - 131	1	25
Acetone			10.0	ND		ug/L		66	10 - 150	7	30
Benzene			10.0	10.1		ug/L		101	68 - 130	2	20
Dichlorobromomethane			10.0	9.74		ug/L		97	70 - 132	1	20
Bromobenzene			10.0	10.4		ug/L		104	70 - 130	0	20
Chlorobromomethane			10.0	11.3		ug/L		113	70 - 130	7	20
Bromoform			10.0	9.79		ug/L		98	60 - 148	8	25
Bromomethane			10.0	10.5		ug/L		105	64 - 139	2	20
2-Butanone (MEK)			10.0	9.52		ug/L		95	44 - 150	4	35
n-Butylbenzene			10.0	10.1		ug/L		101	65 - 150	5	20
sec-Butylbenzene			10.0	10.1		ug/L		101	70 - 138	3	20
tert-Butylbenzene			10.0	10.4		ug/L		104	70 - 130	3	20
Carbon disulfide			10.0	9.68		ug/L		97	52 - 136	1	20
Carbon tetrachloride			10.0	9.67		ug/L		97	60 - 150	2	25
Chlorobenzene			10.0	10.8		ug/L		108	70 - 130	1	20
Chloroethane			10.0	9.75		ug/L		97	64 - 135	1	20
Chloroform			10.0	10.5		ug/L		105	70 - 130	2	20
Chloromethane			10.0	8.79		ug/L		88	47 - 140	0	25
2-Chlorotoluene			10.0	10.1		ug/L		101	70 - 130	1	20
4-Chlorotoluene			10.0	10.2		ug/L		102	70 - 130	0	20
Chlorodibromomethane			10.0	9.93		ug/L		99	69 - 145	4	20
1,2-Dichlorobenzene			10.0	10.4		ug/L		104	70 - 130	0	20
1,3-Dichlorobenzene			10.0	10.5		ug/L		105	70 - 130	1	20
1,4-Dichlorobenzene			10.0	10.2		ug/L		102	70 - 130	3	20
1,3-Dichloropropane			10.0	10.4		ug/L		104	70 - 130	0	20
1,1-Dichloropropene			10.0	10.2		ug/L		102	70 - 130	3	20
1,2-Dibromo-3-Chloropropane			10.0	9.47		ug/L		95	52 - 140	7	30
Ethylene Dibromide			10.0	10.7		ug/L		107	70 - 130	0	20
Dibromomethane			10.0	10.4		ug/L		104	70 - 130	2	20
Dichlorodifluoromethane			10.0	8.92		ug/L		89	29 - 150	2	30
1,1-Dichloroethane			10.0	10.2		ug/L		102	64 - 130	1	20
1,2-Dichloroethane			10.0	10.1		ug/L		101	57 - 138	2	20
1,1-Dichloroethene			10.0	10.7		ug/L		107	70 - 130	2	20
cis-1,2-Dichloroethene			10.0	10.5		ug/L		105	70 - 133	2	20
trans-1,2-Dichloroethene			10.0	10.6		ug/L		106	70 - 130	4	20
1,2-Dichloropropane			10.0	10.2		ug/L		102	67 - 130	0	20
cis-1,3-Dichloropropene			10.0	9.88		ug/L		99	70 - 133	2	25
trans-1,3-Dichloropropene			10.0	9.53		ug/L		95	70 - 132	1	20
Ethylbenzene			10.0	10.2		ug/L		102	70 - 130	1	20
Hexachlorobutadiene			10.0	11.0		ug/L		110	10 - 150	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527806/6
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone			10.0	9.84		ug/L		98	10 - 150	5	30
Isopropylbenzene			10.0	10.3		ug/L		103	70 - 136	0	20
4-Isopropyltoluene			10.0	10.7		ug/L		107	70 - 132	2	20
Methylene Chloride			10.0	9.02		ug/L		90	52 - 130	2	20
4-Methyl-2-pentanone (MIBK)			10.0	9.08		ug/L		91	59 - 149	6	30
Naphthalene			10.0	10.1		ug/L		101	60 - 140	5	25
N-Propylbenzene			10.0	9.86		ug/L		99	67 - 139	3	20
Styrene			10.0	9.60		ug/L		96	70 - 134	1	20
1,1,1,2-Tetrachloroethane			10.0	9.85		ug/L		99	60 - 141	1	20
1,1,2,2-Tetrachloroethane			10.0	10.3		ug/L		103	63 - 130	2	25
Tetrachloroethene			10.0	11.0		ug/L		110	70 - 130	1	20
Toluene			10.0	9.87		ug/L		99	70 - 130	0	20
1,2,3-Trichlorobenzene			10.0	10.6		ug/L		106	60 - 140	5	20
1,2,4-Trichlorobenzene			10.0	10.7		ug/L		107	60 - 140	0	20
1,1,1-Trichloroethane			10.0	10.3		ug/L		103	70 - 130	1	20
1,1,2-Trichloroethane			10.0	10.7		ug/L		107	70 - 130	1	20
Trichloroethene			10.0	10.9		ug/L		109	70 - 130	3	20
Trichlorofluoromethane			10.0	11.1		ug/L		111	60 - 150	2	20
1,2,3-Trichloropropane			10.0	11.2		ug/L		112	63 - 130	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			10.0	10.6		ug/L		106	60 - 140	11	20
1,2,4-Trimethylbenzene			10.0	9.96		ug/L		100	70 - 135	5	20
1,3,5-Trimethylbenzene			10.0	10.2		ug/L		102	70 - 136	2	20
Vinyl acetate			10.0	8.97		ug/L		90	48 - 140	3	20
Vinyl chloride			10.0	9.54		ug/L		95	59 - 133	3	30
m-Xylene & p-Xylene			10.0	10.5		ug/L		105	70 - 130	1	20
o-Xylene			10.0	10.6		ug/L		106	70 - 130	0	20
2,2-Dichloropropane			10.0	10.4		ug/L		104	68 - 141	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-231742-B-5 MS
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	1.5	J	50.0	51.4		ug/L		100	70 - 130
Acetone	ND	F1	50.0	ND	F1	ug/L		0	10 - 150
Benzene	5.4		50.0	56.2		ug/L		102	66 - 130
Dichlorobromomethane	ND		50.0	47.2		ug/L		94	70 - 138
Bromobenzene	ND		50.0	53.9		ug/L		108	70 - 130
Chlorobromomethane	ND		50.0	54.3		ug/L		109	70 - 130
Bromoform	ND		50.0	44.7		ug/L		89	59 - 150
Bromomethane	ND		50.0	52.1		ug/L		104	62 - 131
2-Butanone (MEK)	ND		50.0	46.4		ug/L		93	48 - 140
n-Butylbenzene	47		50.0	114		ug/L		134	61 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231742-B-5 MS
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	15		50.0	69.2		ug/L		109	67 - 134
tert-Butylbenzene	ND		50.0	57.2		ug/L		114	70 - 130
Carbon disulfide	ND		50.0	49.0		ug/L		98	49 - 140
Carbon tetrachloride	ND		50.0	50.2		ug/L		100	60 - 150
Chlorobenzene	ND		50.0	52.3		ug/L		105	70 - 130
Chloroethane	ND		50.0	49.1		ug/L		98	68 - 130
Chloroform	ND		50.0	52.0		ug/L		104	70 - 130
Chloromethane	ND		50.0	43.2		ug/L		86	39 - 144
2-Chlorotoluene	ND		50.0	59.1		ug/L		118	70 - 130
4-Chlorotoluene	ND		50.0	62.9		ug/L		126	70 - 130
Chlorodibromomethane	ND		50.0	47.0		ug/L		94	70 - 148
1,2-Dichlorobenzene	ND		50.0	52.5		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		50.0	53.5		ug/L		107	70 - 130
1,4-Dichlorobenzene	ND		50.0	52.2		ug/L		104	70 - 130
1,3-Dichloropropane	ND		50.0	49.5		ug/L		99	70 - 130
1,1-Dichloropropene	ND		50.0	52.9		ug/L		106	64 - 130
1,2-Dibromo-3-Chloropropane	ND		50.0	58.6		ug/L		117	48 - 140
Ethylene Dibromide	ND		50.0	52.3		ug/L		105	70 - 131
Dibromomethane	ND		50.0	52.1		ug/L		104	70 - 130
Dichlorodifluoromethane	ND		50.0	45.0		ug/L		90	25 - 142
1,1-Dichloroethane	ND		50.0	51.2		ug/L		102	65 - 130
1,2-Dichloroethane	ND		50.0	49.3		ug/L		99	56 - 146
1,1-Dichloroethene	ND		50.0	53.9		ug/L		108	70 - 130
cis-1,2-Dichloroethene	ND		50.0	51.9		ug/L		104	70 - 130
trans-1,2-Dichloroethene	ND		50.0	54.9		ug/L		110	70 - 130
1,2-Dichloropropane	ND		50.0	51.1		ug/L		102	69 - 130
cis-1,3-Dichloropropene	ND		50.0	48.8		ug/L		98	70 - 133
trans-1,3-Dichloropropene	ND		50.0	46.7		ug/L		93	70 - 138
Ethylbenzene	55		50.0	103		ug/L		95	70 - 130
Hexachlorobutadiene	ND		50.0	59.7		ug/L		119	10 - 150
2-Hexanone	ND		50.0	42.2		ug/L		84	10 - 150
Isopropylbenzene	28		50.0	79.4		ug/L		103	70 - 132
4-Isopropyltoluene	6.9		50.0	64.7		ug/L		116	70 - 130
Methylene Chloride	ND		50.0	42.9		ug/L		86	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		50.0	46.8		ug/L		94	52 - 150
Naphthalene	140		50.0	190		ug/L		107	60 - 140
N-Propylbenzene	88		50.0	141		ug/L		106	66 - 135
Styrene	ND		50.0	47.4		ug/L		95	29 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	49.3		ug/L		99	60 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	51.3		ug/L		103	63 - 130
Tetrachloroethene	ND		50.0	55.6		ug/L		111	70 - 137
Toluene	ND		50.0	48.6		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	ND		50.0	56.2		ug/L		112	60 - 140
1,2,4-Trichlorobenzene	ND		50.0	57.3		ug/L		115	60 - 140
1,1,1-Trichloroethane	ND		50.0	52.5		ug/L		105	70 - 130
1,1,2-Trichloroethane	ND		50.0	52.5		ug/L		105	70 - 130
Trichloroethene	ND		50.0	53.7		ug/L		107	70 - 130
Trichlorofluoromethane	ND		50.0	57.1		ug/L		114	60 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231742-B-5 MS
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		50.0	56.8		ug/L		114	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	55.9		ug/L		112	60 - 140
1,2,4-Trimethylbenzene	270		50.0	323	4	ug/L		109	70 - 130
1,3,5-Trimethylbenzene	120		50.0	178		ug/L		113	70 - 130
Vinyl acetate	ND		50.0	44.0		ug/L		88	23 - 150
Vinyl chloride	ND		50.0	49.2		ug/L		98	50 - 137
m-Xylene & p-Xylene	57		50.0	108		ug/L		101	70 - 133
o-Xylene	3.7		50.0	54.4		ug/L		101	70 - 133
2,2-Dichloropropane	ND		50.0	53.3		ug/L		107	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-231742-B-5 MSD
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	1.5	J	50.0	50.5		ug/L		98	70 - 130	2	25
Acetone	ND	F1	50.0	ND	F1	ug/L		0	10 - 150	NC	35
Benzene	5.4		50.0	57.1		ug/L		103	66 - 130	2	20
Dichlorobromomethane	ND		50.0	48.6		ug/L		97	70 - 138	3	20
Bromobenzene	ND		50.0	56.0		ug/L		112	70 - 130	4	20
Chlorobromomethane	ND		50.0	54.5		ug/L		109	70 - 130	0	25
Bromoform	ND		50.0	46.3		ug/L		93	59 - 150	4	25
Bromomethane	ND		50.0	51.7		ug/L		103	62 - 131	1	25
2-Butanone (MEK)	ND		50.0	52.1		ug/L		104	48 - 140	11	40
n-Butylbenzene	47		50.0	110		ug/L		125	61 - 149	4	20
sec-Butylbenzene	15		50.0	66.9		ug/L		104	67 - 134	3	20
tert-Butylbenzene	ND		50.0	56.3		ug/L		113	70 - 130	2	20
Carbon disulfide	ND		50.0	47.1		ug/L		94	49 - 140	4	20
Carbon tetrachloride	ND		50.0	48.6		ug/L		97	60 - 150	3	25
Chlorobenzene	ND		50.0	54.3		ug/L		109	70 - 130	4	20
Chloroethane	ND		50.0	46.8		ug/L		94	68 - 130	5	25
Chloroform	ND		50.0	52.4		ug/L		105	70 - 130	1	20
Chloromethane	ND		50.0	41.1		ug/L		82	39 - 144	5	25
2-Chlorotoluene	ND		50.0	57.5		ug/L		115	70 - 130	3	20
4-Chlorotoluene	ND		50.0	63.8		ug/L		128	70 - 130	1	20
Chlorodibromomethane	ND		50.0	49.5		ug/L		99	70 - 148	5	25
1,2-Dichlorobenzene	ND		50.0	52.2		ug/L		104	70 - 130	1	20
1,3-Dichlorobenzene	ND		50.0	54.6		ug/L		109	70 - 130	2	20
1,4-Dichlorobenzene	ND		50.0	53.1		ug/L		106	70 - 130	2	20
1,3-Dichloropropane	ND		50.0	52.4		ug/L		105	70 - 130	6	25
1,1-Dichloropropene	ND		50.0	52.5		ug/L		105	64 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		50.0	61.1		ug/L		122	48 - 140	4	30
Ethylene Dibromide	ND		50.0	53.9		ug/L		108	70 - 131	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231742-B-5 MSD
Matrix: Water
Analysis Batch: 527806

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		50.0	51.2		ug/L		102	70 - 130	2	25
Dichlorodifluoromethane	ND		50.0	43.6		ug/L		87	25 - 142	3	30
1,1-Dichloroethane	ND		50.0	50.3		ug/L		101	65 - 130	2	20
1,2-Dichloroethane	ND		50.0	48.9		ug/L		98	56 - 146	1	20
1,1-Dichloroethene	ND		50.0	51.8		ug/L		104	70 - 130	4	20
cis-1,2-Dichloroethene	ND		50.0	52.9		ug/L		106	70 - 130	2	20
trans-1,2-Dichloroethene	ND		50.0	52.7		ug/L		105	70 - 130	4	20
1,2-Dichloropropane	ND		50.0	50.8		ug/L		102	69 - 130	1	20
cis-1,3-Dichloropropene	ND		50.0	50.6		ug/L		101	70 - 133	4	20
trans-1,3-Dichloropropene	ND		50.0	48.4		ug/L		97	70 - 138	3	25
Ethylbenzene	55		50.0	104		ug/L		96	70 - 130	1	20
Hexachlorobutadiene	ND		50.0	57.0		ug/L		114	10 - 150	5	20
2-Hexanone	ND		50.0	44.8		ug/L		90	10 - 150	6	35
Isopropylbenzene	28		50.0	79.6		ug/L		103	70 - 132	0	20
4-Isopropyltoluene	6.9		50.0	61.9		ug/L		110	70 - 130	4	20
Methylene Chloride	ND		50.0	41.3		ug/L		83	52 - 130	4	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	45.7		ug/L		91	52 - 150	3	35
Naphthalene	140		50.0	177		ug/L		82	60 - 140	7	30
N-Propylbenzene	88		50.0	135		ug/L		95	66 - 135	4	20
Styrene	ND		50.0	49.2		ug/L		98	29 - 150	4	35
1,1,1,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	60 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		50.0	51.7		ug/L		103	63 - 130	1	30
Tetrachloroethene	ND		50.0	54.8		ug/L		110	70 - 137	1	20
Toluene	ND		50.0	50.4		ug/L		101	70 - 130	4	20
1,2,3-Trichlorobenzene	ND		50.0	55.4		ug/L		111	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		50.0	57.1		ug/L		114	60 - 140	0	20
1,1,1-Trichloroethane	ND		50.0	51.2		ug/L		102	70 - 130	3	20
1,1,2-Trichloroethane	ND		50.0	55.3		ug/L		111	70 - 130	5	25
Trichloroethene	ND		50.0	53.9		ug/L		108	70 - 130	0	20
Trichlorofluoromethane	ND		50.0	54.1		ug/L		108	60 - 150	5	25
1,2,3-Trichloropropane	ND		50.0	57.0		ug/L		114	60 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	53.8		ug/L		108	60 - 140	4	20
1,2,4-Trimethylbenzene	270		50.0	306	4	ug/L		76	70 - 130	5	25
1,3,5-Trimethylbenzene	120		50.0	170		ug/L		97	70 - 130	4	20
Vinyl acetate	ND		50.0	43.3		ug/L		87	23 - 150	2	30
Vinyl chloride	ND		50.0	47.1		ug/L		94	50 - 137	4	30
m-Xylene & p-Xylene	57		50.0	105		ug/L		97	70 - 133	2	25
o-Xylene	3.7		50.0	57.0		ug/L		107	70 - 133	5	20
2,2-Dichloropropane	ND		50.0	50.0		ug/L		100	69 - 138	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528098/5
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Acetone	ND		20	10	ug/L			02/12/19 08:31	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 08:31	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 08:31	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 08:31	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 08:31	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 08:31	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 08:31	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 08:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 08:31	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 08:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528098/5
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 08:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 08:31	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 08:31	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/12/19 08:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 08:31*	*1*

Lab Sample ID: LCS 440-528098/6
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	9.85		ug/L		98	63 - 131
Acetone	10.0	ND		ug/L		33	10 - 150
Benzene	10.0	9.96		ug/L		100	68 - 130
Dichlorobromomethane	10.0	9.57		ug/L		96	70 - 132
Bromobenzene	10.0	10.1		ug/L		101	70 - 130
Chlorobromomethane	10.0	11.0		ug/L		110	70 - 130
Bromoform	10.0	9.99		ug/L		100	60 - 148
Bromomethane	10.0	10.3		ug/L		103	64 - 139
2-Butanone (MEK)	10.0	9.00		ug/L		90	44 - 150
n-Butylbenzene	10.0	9.89		ug/L		99	65 - 150
sec-Butylbenzene	10.0	9.69		ug/L		97	70 - 138
tert-Butylbenzene	10.0	10.1		ug/L		101	70 - 130
Carbon disulfide	10.0	9.38		ug/L		94	52 - 136
Carbon tetrachloride	10.0	9.53		ug/L		95	60 - 150
Chlorobenzene	10.0	10.4		ug/L		104	70 - 130
Chloroethane	10.0	9.18		ug/L		92	64 - 135
Chloroform	10.0	10.1		ug/L		101	70 - 130
Chloromethane	10.0	7.71		ug/L		77	47 - 140
2-Chlorotoluene	10.0	9.78		ug/L		98	70 - 130
4-Chlorotoluene	10.0	9.78		ug/L		98	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528098/6
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	10.0	9.99		ug/L		100	69 - 145
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	10.0	9.94		ug/L		99	70 - 130
1,1-Dichloropropene	10.0	10.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	8.69		ug/L		87	52 - 140
Ethylene Dibromide	10.0	10.5		ug/L		105	70 - 130
Dibromomethane	10.0	10.0		ug/L		100	70 - 130
Dichlorodifluoromethane	10.0	7.63		ug/L		76	29 - 150
1,1-Dichloroethane	10.0	9.70		ug/L		97	64 - 130
1,2-Dichloroethane	10.0	9.85		ug/L		98	57 - 138
1,1-Dichloroethene	10.0	10.6		ug/L		106	70 - 130
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	70 - 133
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 130
1,2-Dichloropropane	10.0	9.89		ug/L		99	67 - 130
cis-1,3-Dichloropropene	10.0	9.70		ug/L		97	70 - 133
trans-1,3-Dichloropropene	10.0	9.33		ug/L		93	70 - 132
Ethylbenzene	10.0	9.66		ug/L		97	70 - 130
Hexachlorobutadiene	10.0	10.8		ug/L		108	10 - 150
2-Hexanone	10.0	9.58		ug/L		96	10 - 150
Isopropylbenzene	10.0	9.90		ug/L		99	70 - 136
4-Isopropyltoluene	10.0	10.4		ug/L		104	70 - 132
Methylene Chloride	10.0	8.87		ug/L		89	52 - 130
4-Methyl-2-pentanone (MIBK)	10.0	8.24		ug/L		82	59 - 149
Naphthalene	10.0	9.65		ug/L		97	60 - 140
N-Propylbenzene	10.0	9.39		ug/L		94	67 - 139
Styrene	10.0	9.52		ug/L		95	70 - 134
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	60 - 141
1,1,2,2-Tetrachloroethane	10.0	9.77		ug/L		98	63 - 130
Tetrachloroethene	10.0	10.6		ug/L		106	70 - 130
Toluene	10.0	9.49		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	10.0	10.4		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	10.0	10.4		ug/L		104	60 - 140
1,1,1-Trichloroethane	10.0	9.96		ug/L		100	70 - 130
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	70 - 130
Trichloroethene	10.0	11.0		ug/L		110	70 - 130
Trichlorofluoromethane	10.0	10.5		ug/L		105	60 - 150
1,2,3-Trichloropropane	10.0	11.0		ug/L		110	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.8		ug/L		108	60 - 140
1,2,4-Trimethylbenzene	10.0	9.77		ug/L		98	70 - 135
1,3,5-Trimethylbenzene	10.0	9.81		ug/L		98	70 - 136
Vinyl acetate	10.0	8.69		ug/L		87	48 - 140
Vinyl chloride	10.0	8.90		ug/L		89	59 - 133
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	70 - 130
o-Xylene	10.0	10.3		ug/L		103	70 - 130
2,2-Dichloropropane	10.0	9.71		ug/L		97	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528098/6
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91071-1 MS
Matrix: Water
Analysis Batch: 528098

Client Sample ID: DG-AK11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	1.3		10.0	10.4		ug/L		91	70 - 130
Acetone	ND		10.0	11.3	J	ug/L		113	10 - 150
Benzene	1.5		10.0	11.3		ug/L		98	66 - 130
Dichlorobromomethane	ND		10.0	9.22		ug/L		92	70 - 138
Bromobenzene	ND		10.0	10.5		ug/L		105	70 - 130
Chlorobromomethane	ND		10.0	10.5		ug/L		105	70 - 130
Bromoform	ND		10.0	9.63		ug/L		96	59 - 150
Bromomethane	ND		10.0	9.82		ug/L		98	62 - 131
2-Butanone (MEK)	ND		10.0	10.2		ug/L		102	48 - 140
n-Butylbenzene	ND		10.0	10.5		ug/L		105	61 - 149
sec-Butylbenzene	ND		10.0	10.3		ug/L		103	67 - 134
tert-Butylbenzene	ND		10.0	10.8		ug/L		108	70 - 130
Carbon disulfide	ND		10.0	9.83		ug/L		98	49 - 140
Carbon tetrachloride	ND		10.0	10.1		ug/L		101	60 - 150
Chlorobenzene	ND		10.0	10.5		ug/L		105	70 - 130
Chloroethane	ND		10.0	9.42		ug/L		94	68 - 130
Chloroform	ND		10.0	9.85		ug/L		99	70 - 130
Chloromethane	ND		10.0	7.50		ug/L		75	39 - 144
2-Chlorotoluene	ND		10.0	9.88		ug/L		99	70 - 130
4-Chlorotoluene	ND		10.0	10.2		ug/L		102	70 - 130
Chlorodibromomethane	ND		10.0	9.83		ug/L		98	70 - 148
1,2-Dichlorobenzene	ND		10.0	9.96		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,3-Dichloropropane	ND		10.0	9.82		ug/L		98	70 - 130
1,1-Dichloropropene	ND		10.0	10.2		ug/L		102	64 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.76		ug/L		88	48 - 140
Ethylene Dibromide	ND		10.0	10.2		ug/L		102	70 - 131
Dibromomethane	ND		10.0	9.99		ug/L		100	70 - 130
Dichlorodifluoromethane	ND		10.0	8.33		ug/L		83	25 - 142
1,1-Dichloroethane	ND		10.0	9.71		ug/L		97	65 - 130
1,2-Dichloroethane	ND		10.0	9.18		ug/L		92	56 - 146
1,1-Dichloroethene	ND		10.0	11.0		ug/L		110	70 - 130
cis-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.8		ug/L		108	70 - 130
1,2-Dichloropropane	ND		10.0	9.53		ug/L		95	69 - 130
cis-1,3-Dichloropropene	ND		10.0	9.42		ug/L		94	70 - 133
trans-1,3-Dichloropropene	ND		10.0	9.21		ug/L		92	70 - 138
Ethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130
Hexachlorobutadiene	ND		10.0	10.8		ug/L		108	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91071-1 MS
Matrix: Water
Analysis Batch: 528098

Client Sample ID: DG-AK11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		10.0	9.66		ug/L		97	10 - 150
Isopropylbenzene	0.48	J	10.0	10.6		ug/L		101	70 - 132
4-Isopropyltoluene	0.26	J	10.0	11.1		ug/L		108	70 - 130
Methylene Chloride	ND		10.0	8.41		ug/L		84	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.26		ug/L		83	52 - 150
Naphthalene	2.1		10.0	12.2		ug/L		101	60 - 140
N-Propylbenzene	0.35	J	10.0	10.3		ug/L		100	66 - 135
Styrene	ND		10.0	9.47		ug/L		95	29 - 150
1,1,1,2-Tetrachloroethane	ND		10.0	9.77		ug/L		98	60 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	9.97		ug/L		100	63 - 130
Tetrachloroethene	ND		10.0	11.1		ug/L		111	70 - 137
Toluene	0.53		10.0	10.1		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	ND		10.0	10.5		ug/L		105	60 - 140
1,1,1-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130
1,1,2-Trichloroethane	ND		10.0	10.1		ug/L		101	70 - 130
Trichloroethene	ND		10.0	11.0		ug/L		110	70 - 130
Trichlorofluoromethane	ND		10.0	10.9		ug/L		109	60 - 150
1,2,3-Trichloropropane	ND		10.0	11.1		ug/L		111	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.0		ug/L		110	60 - 140
1,2,4-Trimethylbenzene	0.83		10.0	10.8		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	ND		10.0	10.4		ug/L		104	70 - 130
Vinyl acetate	ND		10.0	8.21		ug/L		82	23 - 150
Vinyl chloride	ND		10.0	9.19		ug/L		92	50 - 137
m-Xylene & p-Xylene	0.61	J	10.0	11.1		ug/L		105	70 - 133
o-Xylene	0.91		10.0	11.2		ug/L		103	70 - 133
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91071-1 MSD
Matrix: Water
Analysis Batch: 528098

Client Sample ID: DG-AK11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	1.3		10.0	10.4		ug/L		91	70 - 130	0	25
Acetone	ND		10.0	11.0	J	ug/L		110	10 - 150	2	35
Benzene	1.5		10.0	11.2		ug/L		97	66 - 130	1	20
Dichlorobromomethane	ND		10.0	9.20		ug/L		92	70 - 138	0	20
Bromobenzene	ND		10.0	9.95		ug/L		99	70 - 130	5	20
Chlorobromomethane	ND		10.0	10.4		ug/L		104	70 - 130	1	25
Bromoform	ND		10.0	9.32		ug/L		93	59 - 150	3	25
Bromomethane	ND		10.0	9.87		ug/L		99	62 - 131	1	25
2-Butanone (MEK)	ND		10.0	8.76		ug/L		88	48 - 140	15	40
n-Butylbenzene	ND		10.0	10.4		ug/L		104	61 - 149	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91071-1 MSD
Matrix: Water
Analysis Batch: 528098

Client Sample ID: DG-AK11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		10.0	10.3		ug/L		103	67 - 134	0	20
tert-Butylbenzene	ND		10.0	10.7		ug/L		107	70 - 130	1	20
Carbon disulfide	ND		10.0	9.63		ug/L		96	49 - 140	2	20
Carbon tetrachloride	ND		10.0	10.1		ug/L		101	60 - 150	0	25
Chlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	4	20
Chloroethane	ND		10.0	9.16		ug/L		92	68 - 130	3	25
Chloroform	ND		10.0	9.90		ug/L		99	70 - 130	1	20
Chloromethane	ND		10.0	7.43		ug/L		74	39 - 144	1	25
2-Chlorotoluene	ND		10.0	9.67		ug/L		97	70 - 130	2	20
4-Chlorotoluene	ND		10.0	9.72		ug/L		97	70 - 130	5	20
Chlorodibromomethane	ND		10.0	9.69		ug/L		97	70 - 148	1	25
1,2-Dichlorobenzene	ND		10.0	10.0		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
1,4-Dichlorobenzene	ND		10.0	10.0		ug/L		100	70 - 130	3	20
1,3-Dichloropropane	ND		10.0	9.52		ug/L		95	70 - 130	3	25
1,1-Dichloropropene	ND		10.0	10.2		ug/L		102	64 - 130	0	20
1,2-Dibromo-3-Chloropropane	ND		10.0	9.67		ug/L		97	48 - 140	10	30
Ethylene Dibromide	ND		10.0	9.77		ug/L		98	70 - 131	5	25
Dibromomethane	ND		10.0	9.91		ug/L		99	70 - 130	1	25
Dichlorodifluoromethane	ND		10.0	8.10		ug/L		81	25 - 142	3	30
1,1-Dichloroethane	ND		10.0	9.50		ug/L		95	65 - 130	2	20
1,2-Dichloroethane	ND		10.0	9.11		ug/L		91	56 - 146	1	20
1,1-Dichloroethene	ND		10.0	10.7		ug/L		107	70 - 130	2	20
cis-1,2-Dichloroethene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
trans-1,2-Dichloroethene	ND		10.0	10.6		ug/L		106	70 - 130	2	20
1,2-Dichloropropane	ND		10.0	9.60		ug/L		96	69 - 130	1	20
cis-1,3-Dichloropropene	ND		10.0	9.33		ug/L		93	70 - 133	1	20
trans-1,3-Dichloropropene	ND		10.0	9.00		ug/L		90	70 - 138	2	25
Ethylbenzene	ND		10.0	9.87		ug/L		99	70 - 130	4	20
Hexachlorobutadiene	ND		10.0	10.7		ug/L		107	10 - 150	1	20
2-Hexanone	ND		10.0	8.98		ug/L		90	10 - 150	7	35
Isopropylbenzene	0.48	J	10.0	10.5		ug/L		100	70 - 132	1	20
4-Isopropyltoluene	0.26	J	10.0	10.8		ug/L		105	70 - 130	3	20
Methylene Chloride	ND		10.0	8.67		ug/L		87	52 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.15		ug/L		82	52 - 150	1	35
Naphthalene	2.1		10.0	12.2		ug/L		101	60 - 140	0	30
N-Propylbenzene	0.35	J	10.0	10.0		ug/L		97	66 - 135	3	20
Styrene	ND		10.0	9.12		ug/L		91	29 - 150	4	35
1,1,1,2-Tetrachloroethane	ND		10.0	9.53		ug/L		95	60 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		10.0	9.86		ug/L		99	63 - 130	1	30
Tetrachloroethene	ND		10.0	10.4		ug/L		104	70 - 137	6	20
Toluene	0.53		10.0	9.82		ug/L		93	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		10.0	10.4		ug/L		104	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		10.0	10.6		ug/L		106	60 - 140	1	20
1,1,1-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	0	20
1,1,2-Trichloroethane	ND		10.0	9.72		ug/L		97	70 - 130	4	25
Trichloroethene	ND		10.0	10.8		ug/L		108	70 - 130	3	20
Trichlorofluoromethane	ND		10.0	10.8		ug/L		108	60 - 150	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91071-1 MSD
Matrix: Water
Analysis Batch: 528098

Client Sample ID: DG-AK11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		10.0	11.0		ug/L		110	60 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.0		ug/L		110	60 - 140	1	20
1,2,4-Trimethylbenzene	0.83		10.0	10.6		ug/L		98	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		10.0	10.2		ug/L		102	70 - 130	2	20
Vinyl acetate	ND		10.0	8.26		ug/L		83	23 - 150	1	30
Vinyl chloride	ND		10.0	9.07		ug/L		91	50 - 137	1	30
m-Xylene & p-Xylene	0.61	J	10.0	10.7		ug/L		101	70 - 133	4	25
o-Xylene	0.91		10.0	10.9		ug/L		100	70 - 133	3	20
2,2-Dichloropropane	ND		10.0	10.0		ug/L		100	69 - 138	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-527807/4
Matrix: Water
Analysis Batch: 527807

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/10/19 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/10/19 11:38*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/10/19 11:38*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/10/19 11:38*	*1*

Lab Sample ID: LCS 440-527807/7
Matrix: Water
Analysis Batch: 527807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	467		ug/L		93	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-231742-B-5 MS
Matrix: Water
Analysis Batch: 527807

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	6200		3450	9290		ug/L		90	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-231742-B-5 MSD
Matrix: Water
Analysis Batch: 527807

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	6200		3450	9210		ug/L		87	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: MB 440-528117/5
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/12/19 08:31*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/12/19 08:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 08:31*	*1*

Lab Sample ID: LCS 440-528117/7
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			500	442		ug/L		88	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-91071-1 MS
Matrix: Water
Analysis Batch: 528117

Client Sample ID: DG-AK11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	87		690	770		ug/L		99	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91071-1 MSD
Matrix: Water
Analysis Batch: 528117

Client Sample ID: DG-AK11W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	87		690	757		ug/L		97	50 - 145	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-526142/1-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Acenaphthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Acenaphthylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Fluorene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Phenanthrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Chrysene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Fluoranthene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Pyrene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		01/31/19 13:42	02/01/19 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*38 - 120*	*01/31/19 13:42*	*02/01/19 13:14*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-526142/1-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526142

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		10 - 120	01/31/19 13:42	02/01/19 13:14	1
Terphenyl-d14	98		21 - 120	01/31/19 13:42	02/01/19 13:14	1

Lab Sample ID: LCS 440-526142/2-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.814		ug/L		81	50 - 120
Acenaphthene	1.00	0.827		ug/L		83	55 - 120
Acenaphthylene	1.00	0.941		ug/L		94	53 - 120
Fluorene	1.00	0.903		ug/L		90	56 - 120
Phenanthrene	1.00	0.796		ug/L		80	56 - 120
Anthracene	1.00	0.819		ug/L		82	54 - 120
Benzo[a]anthracene	1.00	1.05		ug/L		105	53 - 120
Chrysene	1.00	0.798		ug/L		80	56 - 120
Benzo[a]pyrene	1.00	0.771		ug/L		77	44 - 120
Benzo[b]fluoranthene	1.00	0.852		ug/L		85	48 - 120
Benzo[k]fluoranthene	1.00	0.685		ug/L		68	47 - 121
Benzo[g,h,i]perylene	1.00	0.728		ug/L		73	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.913		ug/L		91	38 - 120
Fluoranthene	1.00	0.907		ug/L		91	59 - 120
Pyrene	1.00	0.854		ug/L		85	59 - 120
Dibenz(a,h)anthracene	1.00	0.816		ug/L		82	38 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	93		38 - 120
Nitrobenzene-d5	103		10 - 120
Terphenyl-d14	89		21 - 120

Lab Sample ID: LCSD 440-526142/3-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.645		ug/L		65	50 - 120	23	35
Acenaphthene	1.00	0.740		ug/L		74	55 - 120	11	35
Acenaphthylene	1.00	0.832		ug/L		83	53 - 120	12	35
Fluorene	1.00	0.843		ug/L		84	56 - 120	7	35
Phenanthrene	1.00	0.771		ug/L		77	56 - 120	3	35
Anthracene	1.00	0.792		ug/L		79	54 - 120	3	35
Benzo[a]anthracene	1.00	1.03		ug/L		103	53 - 120	2	35
Chrysene	1.00	0.782		ug/L		78	56 - 120	2	35
Benzo[a]pyrene	1.00	0.740		ug/L		74	44 - 120	4	35
Benzo[b]fluoranthene	1.00	0.819		ug/L		82	48 - 120	4	35
Benzo[k]fluoranthene	1.00	0.661		ug/L		66	47 - 121	4	35
Benzo[g,h,i]perylene	1.00	0.714		ug/L		71	41 - 123	2	35
Indeno[1,2,3-cd]pyrene	1.00	0.892		ug/L		89	38 - 120	2	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-526142/3-A
Matrix: Water
Analysis Batch: 526356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526142

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene			1.00	0.876		ug/L		88	59 - 120	3	35
Pyrene			1.00	0.830		ug/L		83	59 - 120	3	35
Dibenz(a,h)anthracene			1.00	0.789		ug/L		79	38 - 122	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*38 - 120*
Nitrobenzene-d5	*86*		*10 - 120*
Terphenyl-d14	*87*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-526244/1-A
Matrix: Water
Analysis Batch: 526358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		02/01/19 05:57	02/02/19 03:26	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		02/01/19 05:57	02/02/19 03:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*88*		*45 - 120*	*02/01/19 05:57*	*02/02/19 03:26*	*1*

Lab Sample ID: LCS 440-526244/2-A
Matrix: Water
Analysis Batch: 526358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526244

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			1000	624		ug/L		62	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*72*		*45 - 120*

Lab Sample ID: LCSD 440-526244/3-A
Matrix: Water
Analysis Batch: 526358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526244

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	699		ug/L		70	40 - 115	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*74*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259637/1-A
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 15:31	1
Arsenic	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 15:31	1
Barium	ND		50	1.6	ug/L		02/01/19 10:32	02/02/19 15:31	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 15:31	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 15:31	1
Chromium	ND		10	0.70	ug/L		02/01/19 10:32	02/02/19 15:31	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 15:31	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 15:31	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 15:31	1
Molybdenum	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 15:31	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 15:31	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 15:31	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 15:31	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 15:31	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 15:31	1

Lab Sample ID: MB 720-259637/1-A
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 16:40	1

Lab Sample ID: LCS 720-259637/2-A
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	987		ug/L		99	80 - 120
Arsenic	1000	1000		ug/L		100	80 - 120
Barium	1000	968		ug/L		97	80 - 120
Beryllium	1000	965		ug/L		96	80 - 120
Cadmium	1000	997		ug/L		100	80 - 120
Chromium	1000	990		ug/L		99	80 - 120
Cobalt	1000	994		ug/L		99	80 - 120
Copper	1000	977		ug/L		98	80 - 120
Lead	1000	1000		ug/L		100	80 - 120
Molybdenum	1000	989		ug/L		99	80 - 120
Nickel	1000	991		ug/L		99	80 - 120
Selenium	1000	988		ug/L		99	80 - 120
Silver	500	494		ug/L		99	80 - 120
Vanadium	1000	984		ug/L		98	80 - 120
Zinc	1000	992		ug/L		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259637/2-A
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	1000	988		ug/L		99	80 - 120

Lab Sample ID: 720-91051-I-1-B MS
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	948		ug/L		95	75 - 125
Arsenic	ND		1000	971		ug/L		97	75 - 125
Barium	96		1000	1040		ug/L		94	75 - 125
Beryllium	ND		1000	952		ug/L		95	75 - 125
Cadmium	ND		1000	929		ug/L		93	75 - 125
Chromium	1.0	J	1000	934		ug/L		93	75 - 125
Cobalt	ND		1000	919		ug/L		92	75 - 125
Copper	ND		1000	922		ug/L		92	75 - 125
Lead	ND		1000	915		ug/L		92	75 - 125
Molybdenum	2.9	J	1000	954		ug/L		95	75 - 125
Nickel	1.3	J	1000	914		ug/L		91	75 - 125
Selenium	ND		1000	948		ug/L		95	75 - 125
Silver	ND		500	470		ug/L		94	75 - 125
Vanadium	1.2	J	1000	939		ug/L		94	75 - 125
Zinc	ND		1000	932		ug/L		93	75 - 125

Lab Sample ID: 720-91051-I-1-B MS
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		1000	897		ug/L		90	75 - 125

Lab Sample ID: 720-91051-I-1-C MSD
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	912		ug/L		91	75 - 125	4	20
Arsenic	ND		1000	934		ug/L		93	75 - 125	4	20
Barium	96		1000	971		ug/L		87	75 - 125	7	20
Beryllium	ND		1000	887		ug/L		89	75 - 125	7	20
Cadmium	ND		1000	896		ug/L		90	75 - 125	4	20
Chromium	1.0	J	1000	898		ug/L		90	75 - 125	4	20
Cobalt	ND		1000	891		ug/L		89	75 - 125	3	20
Copper	ND		1000	895		ug/L		90	75 - 125	3	20
Lead	ND		1000	884		ug/L		88	75 - 125	3	20
Molybdenum	2.9	J	1000	920		ug/L		92	75 - 125	4	20
Nickel	1.3	J	1000	886		ug/L		88	75 - 125	3	20
Selenium	ND		1000	920		ug/L		92	75 - 125	3	20
Silver	ND		500	447		ug/L		89	75 - 125	5	20
Vanadium	1.2	J	1000	899		ug/L		90	75 - 125	4	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91051-I-1-C MSD
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	ND		1000	899		ug/L		90	75 - 125	4	20

Lab Sample ID: 720-91051-I-1-C MSD
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		1000	912		ug/L		91	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259553/1-A
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:10	1

Lab Sample ID: LCS 720-259553/2-A
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.18		ug/L		92	85 - 115

Lab Sample ID: MB 720-259456/1-B
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 259553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		01/31/19 12:09	01/31/19 15:24	1

Lab Sample ID: 720-91059-A-1-B MS ^4
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	28		10.0	37.3		ug/L		91	75 - 125

Lab Sample ID: 720-91059-A-1-C MSD ^4
Matrix: Water
Analysis Batch: 259597

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	28		10.0	37.4		ug/L		91	75 - 125	0	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-259437/9
Matrix: Water
Analysis Batch: 259437

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/29/19 22:40	1

Lab Sample ID: LCS 720-259437/10
Matrix: Water
Analysis Batch: 259437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	253		ug/L		101	90 - 110		

Lab Sample ID: LCSD 720-259437/11
Matrix: Water
Analysis Batch: 259437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	253		ug/L		101	90 - 110	0	20

Lab Sample ID: 720-91071-2 MS
Matrix: Water
Analysis Batch: 259437

Client Sample ID: DG-R13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	252		ug/L		101	85 - 115		

Lab Sample ID: 720-91071-2 MSD
Matrix: Water
Analysis Batch: 259437

Client Sample ID: DG-R13W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	253		ug/L		101	85 - 115	0	20

GC/MS VOA

Analysis Batch: 527806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-7	TB-01.29.19	Total/NA	Water	8260B	
720-91071-8	FB-01.29.19	Total/NA	Water	8260B	
MB 440-527806/4	Method Blank	Total/NA	Water	8260B	
LCS 440-527806/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 440-527806/6	Lab Control Sample Dup	Total/NA	Water	8260B	
440-231742-B-5 MS	Matrix Spike	Total/NA	Water	8260B	
440-231742-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 527807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-7	TB-01.29.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-8	FB-01.29.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-527807/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-527807/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-231742-B-5 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-231742-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 528098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Total/NA	Water	8260B	
720-91071-2	DG-R13W	Total/NA	Water	8260B	
720-91071-3	DG-AL13W	Total/NA	Water	8260B	
720-91071-4	DG-AJ13W	Total/NA	Water	8260B	
720-91071-5	DG-AH13W	Total/NA	Water	8260B	
720-91071-6	DG-W15W	Total/NA	Water	8260B	
MB 440-528098/5	Method Blank	Total/NA	Water	8260B	
LCS 440-528098/6	Lab Control Sample	Total/NA	Water	8260B	
720-91071-1 MS	DG-AK11W	Total/NA	Water	8260B	
720-91071-1 MSD	DG-AK11W	Total/NA	Water	8260B	

Analysis Batch: 528117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-2	DG-R13W	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-3	DG-AL13W	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-4	DG-AJ13W	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-5	DG-AH13W	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-6	DG-W15W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528117/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528117/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 528117 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1 MS	DG-AK11W	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-1 MSD	DG-AK11W	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 526142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Total/NA	Water	3520C	
720-91071-2	DG-R13W	Total/NA	Water	3520C	
720-91071-3	DG-AL13W	Total/NA	Water	3520C	
720-91071-4	DG-AJ13W	Total/NA	Water	3520C	
720-91071-5	DG-AH13W	Total/NA	Water	3520C	
720-91071-6	DG-W15W	Total/NA	Water	3520C	
MB 440-526142/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-526142/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-526142/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 526356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-526142/1-A	Method Blank	Total/NA	Water	8270C SIM	526142
LCS 440-526142/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	526142
LCSD 440-526142/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	526142

Analysis Batch: 526670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-2	DG-R13W	Total/NA	Water	8270C SIM	526142
720-91071-6	DG-W15W	Total/NA	Water	8270C SIM	526142

Analysis Batch: 527041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Total/NA	Water	8270C SIM	526142
720-91071-3	DG-AL13W	Total/NA	Water	8270C SIM	526142
720-91071-4	DG-AJ13W	Total/NA	Water	8270C SIM	526142
720-91071-5	DG-AH13W	Total/NA	Water	8270C SIM	526142

GC Semi VOA

Prep Batch: 526244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Total/NA	Water	3510C	
720-91071-2	DG-R13W	Total/NA	Water	3510C	
720-91071-3	DG-AL13W	Total/NA	Water	3510C	
720-91071-4	DG-AJ13W	Total/NA	Water	3510C	
720-91071-5	DG-AH13W	Total/NA	Water	3510C	
720-91071-6	DG-W15W	Total/NA	Water	3510C	
MB 440-526244/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-526244/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-526244/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Analysis Batch: 526358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Total/NA	Water	8015B	526244
720-91071-2	DG-R13W	Total/NA	Water	8015B	526244
720-91071-3	DG-AL13W	Total/NA	Water	8015B	526244
720-91071-4	DG-AJ13W	Total/NA	Water	8015B	526244
720-91071-5	DG-AH13W	Total/NA	Water	8015B	526244
720-91071-6	DG-W15W	Total/NA	Water	8015B	526244
MB 440-526244/1-A	Method Blank	Total/NA	Water	8015B	526244
LCS 440-526244/2-A	Lab Control Sample	Total/NA	Water	8015B	526244
LCSD 440-526244/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	526244

Metals

Filtration Batch: 259456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259456/1-B	Method Blank	Dissolved	Water	FILTRATION	
720-91059-A-1-B MS ^4	Matrix Spike	Dissolved	Water	FILTRATION	
720-91059-A-1-C MSD ^4	Matrix Spike Duplicate	Dissolved	Water	FILTRATION	

Prep Batch: 259553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Dissolved	Water	7470A	
720-91071-2	DG-R13W	Dissolved	Water	7470A	
720-91071-3	DG-AL13W	Dissolved	Water	7470A	
720-91071-4	DG-AJ13W	Dissolved	Water	7470A	
720-91071-5	DG-AH13W	Dissolved	Water	7470A	
720-91071-6	DG-W15W	Dissolved	Water	7470A	
MB 720-259456/1-B	Method Blank	Dissolved	Water	7470A	259456
MB 720-259553/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259553/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-91059-A-1-B MS ^4	Matrix Spike	Dissolved	Water	7470A	259456
720-91059-A-1-C MSD ^4	Matrix Spike Duplicate	Dissolved	Water	7470A	259456

Analysis Batch: 259597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Dissolved	Water	7470A	259553
720-91071-2	DG-R13W	Dissolved	Water	7470A	259553
720-91071-3	DG-AL13W	Dissolved	Water	7470A	259553
720-91071-4	DG-AJ13W	Dissolved	Water	7470A	259553
720-91071-5	DG-AH13W	Dissolved	Water	7470A	259553
720-91071-6	DG-W15W	Dissolved	Water	7470A	259553
MB 720-259456/1-B	Method Blank	Dissolved	Water	7470A	259553
MB 720-259553/1-A	Method Blank	Total/NA	Water	7470A	259553
LCS 720-259553/2-A	Lab Control Sample	Total/NA	Water	7470A	259553
720-91059-A-1-B MS ^4	Matrix Spike	Dissolved	Water	7470A	259553
720-91059-A-1-C MSD ^4	Matrix Spike Duplicate	Dissolved	Water	7470A	259553

Prep Batch: 259637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Dissolved	Water	3005A	
720-91071-2	DG-R13W	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 259637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-3	DG-AL13W	Dissolved	Water	3005A	
720-91071-4	DG-AJ13W	Dissolved	Water	3005A	
720-91071-5	DG-AH13W	Dissolved	Water	3005A	
720-91071-6	DG-W15W	Dissolved	Water	3005A	
MB 720-259637/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-259637/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-91051-I-1-B MS	Matrix Spike	Dissolved	Water	3005A	
720-91051-I-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 259731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Dissolved	Water	6010B	259637
720-91071-2	DG-R13W	Dissolved	Water	6010B	259637
720-91071-3	DG-AL13W	Dissolved	Water	6010B	259637
720-91071-4	DG-AJ13W	Dissolved	Water	6010B	259637
720-91071-5	DG-AH13W	Dissolved	Water	6010B	259637
720-91071-6	DG-W15W	Dissolved	Water	6010B	259637
MB 720-259637/1-A	Method Blank	Total Recoverable	Water	6010B	259637
LCS 720-259637/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259637
720-91051-I-1-B MS	Matrix Spike	Dissolved	Water	6010B	259637
720-91051-I-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	259637

Analysis Batch: 259874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Dissolved	Water	6010B	259637
720-91071-2	DG-R13W	Dissolved	Water	6010B	259637
720-91071-3	DG-AL13W	Dissolved	Water	6010B	259637
720-91071-4	DG-AJ13W	Dissolved	Water	6010B	259637
720-91071-5	DG-AH13W	Dissolved	Water	6010B	259637
720-91071-6	DG-W15W	Dissolved	Water	6010B	259637
MB 720-259637/1-A	Method Blank	Total Recoverable	Water	6010B	259637
LCS 720-259637/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259637
720-91051-I-1-B MS	Matrix Spike	Dissolved	Water	6010B	259637
720-91051-I-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	259637

General Chemistry

Analysis Batch: 259437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91071-1	DG-AK11W	Total/NA	Water	7196A	
720-91071-2	DG-R13W	Total/NA	Water	7196A	
720-91071-3	DG-AL13W	Total/NA	Water	7196A	
720-91071-4	DG-AJ13W	Total/NA	Water	7196A	
720-91071-5	DG-AH13W	Total/NA	Water	7196A	
720-91071-6	DG-W15W	Total/NA	Water	7196A	
MB 720-259437/9	Method Blank	Total/NA	Water	7196A	
LCS 720-259437/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-259437/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-91071-2 MS	DG-R13W	Total/NA	Water	7196A	
720-91071-2 MSD	DG-R13W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Client Sample ID: DG-AK11W

Lab Sample ID: 720-91071-1

Date Collected: 01/29/19 07:40

Matrix: Water

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 09:47	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 09:47	DCI	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		20	527041	02/06/19 15:27	L1B	TAL IRV
Total/NA	Prep	3510C			526244	02/01/19 05:57	L1H	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 07:31	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:34	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 17:43	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 15:54	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259437	01/29/19 22:40	ECB	TAL PLS

Client Sample ID: DG-R13W

Lab Sample ID: 720-91071-2

Date Collected: 01/29/19 08:20

Matrix: Water

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 11:03	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 11:03	DCI	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526670	02/04/19 19:03	HN	TAL IRV
Total/NA	Prep	3510C			526244	02/01/19 05:57	L1H	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 08:52	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:39	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 17:48	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 15:57	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259437	01/29/19 22:40	ECB	TAL PLS

Client Sample ID: DG-AL13W

Lab Sample ID: 720-91071-3

Date Collected: 01/29/19 10:30

Matrix: Water

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 11:29	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 11:29	DCI	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		4	527041	02/06/19 14:19	L1B	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Client Sample ID: DG-AL13W

Date Collected: 01/29/19 10:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			526244	02/01/19 05:57	L1H	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 09:53	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:44	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 17:52	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 15:59	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259437	01/29/19 22:40	ECB	TAL PLS

Client Sample ID: DG-AJ13W

Date Collected: 01/29/19 12:30
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 11:54	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 11:54	DCI	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		10	527041	02/06/19 15:05	L1B	TAL IRV
Total/NA	Prep	3510C			526244	02/01/19 05:57	L1H	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 10:14	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:49	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 17:57	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 16:01	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259437	01/29/19 22:40	ECB	TAL PLS

Client Sample ID: DG-AH13W

Date Collected: 01/29/19 12:50
Date Received: 01/29/19 18:25

Lab Sample ID: 720-91071-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 12:20	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 12:20	DCI	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		10	527041	02/06/19 14:42	L1B	TAL IRV
Total/NA	Prep	3510C			526244	02/01/19 05:57	L1H	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 09:13	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:54	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS

Client Sample ID: DG-AH13W

Lab Sample ID: 720-91071-5

Date Collected: 01/29/19 12:50

Matrix: Water

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	259874	02/05/19 18:02	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 16:08	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259437	01/29/19 22:40	ECB	TAL PLS

Client Sample ID: DG-W15W

Lab Sample ID: 720-91071-6

Date Collected: 01/29/19 15:30

Matrix: Water

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 12:45	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 12:45	DCI	TAL IRV
Total/NA	Prep	3520C			526142	01/31/19 13:42	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	526670	02/04/19 18:40	HN	TAL IRV
Total/NA	Prep	3510C			526244	02/01/19 05:57	L1H	TAL IRV
Total/NA	Analysis	8015B		1	526358	02/02/19 10:34	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 16:59	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 18:07	OBI	TAL PLS
Dissolved	Prep	7470A			259553	01/31/19 12:09	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259597	01/31/19 16:10	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259437	01/29/19 22:43	ECB	TAL PLS

Client Sample ID: TB-01.29.19

Lab Sample ID: 720-91071-7

Date Collected: 01/29/19 00:00

Matrix: Water

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527806	02/10/19 17:34	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527807	02/10/19 17:34	JB	TAL IRV

Client Sample ID: FB-01.29.19

Lab Sample ID: 720-91071-8

Date Collected: 01/29/19 00:00

Matrix: Water

Date Received: 01/29/19 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527806	02/10/19 18:00	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527807	02/10/19 18:00	JB	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91071-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91071-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91071-1	DG-AK11W	Water	01/29/19 07:40	01/29/19 18:25
720-91071-2	DG-R13W	Water	01/29/19 08:20	01/29/19 18:25
720-91071-3	DG-AL13W	Water	01/29/19 10:30	01/29/19 18:25
720-91071-4	DG-AJ13W	Water	01/29/19 12:30	01/29/19 18:25
720-91071-5	DG-AH13W	Water	01/29/19 12:50	01/29/19 18:25
720-91071-6	DG-W15W	Water	01/29/19 15:30	01/29/19 18:25
720-91071-7	TB-01.29.19	Water	01/29/19 00:00	01/29/19 18:25
720-91071-8	FB-01.29.19	Water	01/29/19 00:00	01/29/19 18:25

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

720-91071

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

#18E154

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaffman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91071 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-AK11w	29 Jan. 2019	0740	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-R13w		0820											
DG-AL13w		1030											
DG-AJ13w		1230											
DG-AH13w		1250											
DG-W15w		1530	↓	↓	↓	↓		↓	↓	↓	↓	↓	
TB-01.29.19		–			2			X					
FB-01.29.19	↓	–			2			X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
0.6°C, 0.3°C, 0.3°C, 0.9°C, 1.7°C, 2.7°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No. ____

Relinquished by	Company Geosyntec	Date/Time 29 Jan. 2019	Received by	Company TA-PLS	Date/Time 1-29-19 16:25
Relinquished by	Company TA-PLS	Date/Time 1-29-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3208	COC No: 720-40995.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91071-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	HOLD 1/29/19 NCM	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X							
DG-AK11W (720-91071-1)	1/29/19	07:40 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-R13W (720-91071-2)	1/29/19	08:20 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AL13W (720-91071-3)	1/29/19	10:30 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AJ13W (720-91071-4)	1/29/19	12:30 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AH13W (720-91071-5)	1/29/19	12:50 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-W15W (720-91071-6)	1/29/19	15:30 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-1.29 19 (720-91071-7)	1/29/19	Pacific		Water			X	X				2	check for 2 phases
FB-1.29.19 (720-91071-8)	1/29/19	Pacific		Water			X	X				2	check for 2 phases
DG-T17W (720-91071-9)	1/29/19	08:40 Pacific		Water					X	X	X	1	check for 2 phases-Use Gravity Separation Protocal- client specific

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment
Relinquished by:	Date/Time: 1/30/19 1233	Company: TAPLS	Received by: Date/Time: 1/31/19 9:45 Company: TA (KR)
Relinquished by	Date/Time	Company	Received by Date/Time Company
Relinquished by:	Date/Time:	Company	Received by Date/Time: Company

Custody Seals Intact: ▲ Yes ▲ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6/2.2 3.4/3.4 2.9/2.9 IR-88 IR-93

Ver 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91071-1

Login Number: 91071
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91071-1

Login Number: 91071
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/31/19 12:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Wednesday, January 30, 2019 11:59 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-91071-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Please disregard this sample bottle.

Thank you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Wednesday, January 30, 2019 10:11 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-91071-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-91071-1; Brisbane OU-2 Data Gap Investigation

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): (#9) DG-T17W taken at 8:40 AM. We received only 1x amber glass 1L that was half full, Please advise on how you would like us to proceed.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [498751]
Attachments: 3

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91087-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 8:46:02 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91087-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91087-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 1/30/2019 6:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.7º C, 1.0º C and 3.9º C.

Receipt Exceptions
The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): (DUP-60 (720-91067-46). The sample was logged in for analysis, which was confirmed by the client via email on January 31, 2019.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
DG-AJ8S-0.5-1 (720-91087-38) : The container label list DG-AJ8S-0.5-1 time 15:40, while the COC lists DG-AJ9S-0.5-1 time 15:40.
DG-AJ8S-3.5-4 (720-91087-39): The container label list DG-AJ8S-3.5-4 time 15:40, while the COC lists DG-AJ9S-3.5-4 time 15:40
Logged using container pre-typed label sample ID's.
The client was contacted, and the lab was instructed to log the samples in per the container labels.

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AM8S-0.5-1 (720-91087-1), DG-AM8S-3.5-4 (720-91087-2), DG-AL8S-0.5-1 (720-91087-3), DG-AL8S-3.5-4 (720-91087-4), DG-AX7S-0.5-1 (720-91087-5), DG-AX7S-3.5-4 (720-91087-6), DG-AO8S-0.5-1 (720-91087-7), DG-AO8S-3.5-4 (720-91087-8), DG-AW8S-0.5-1 (720-91087-9), DG-AW8S-3.5-4 (720-91087-10), DUP-56 (720-91087-11), DUP-57 (720-91087-12), DG-AY8S-0.5-1 (720-91087-13), DG-AY8S-3.5-4 (720-91087-14), DG-AX8S-0.5-1 (720-91087-15), DG-AX8S-3.5-4 (720-91087-16), DG-AW9S-0.5-1 (720-91087-17), DG-AW9S-3.5-4 (720-91087-18), DG-AW9S-3.5-4 (720-91087-18[MS]), DG-AW9S-3.5-4 (720-91087-18[MSD]), DG-AU9S-0.5-1 (720-91087-19), DG-AU9S-3.5-4 (720-91087-20), DG-AU10S-0.5-1 (720-91087-21), DG-AU10S-3.5-4 (720-91087-22), DUP-59 (720-91087-23), DUP-66 (720-91087-24), DG-AT10S-0.5-1 (720-91087-25), DG-AT10S-3.5-4 (720-91087-26), DG-AR11S-0.5-1 (720-91087-27), DG-AR11S-3.5-4 (720-91087-28), DG-AQ9S-0.5-1 (720-91087-29), DG-AQ9S-3.5-4 (720-91087-30), DG-AO9S-0.5-1 (720-91087-31), DG-AO9S-3.5-4 (720-91087-32), DG-AM9S-0.5-1 (720-91087-33), DUP-72 (720-91087-34), DG-AM9S-3.5-4 (720-91087-35), DG-AK9S-0.5-1 (720-91087-36), DG-AK9S-3.5-4 (720-91087-37), DG-AJ8S-0.5-1 (720-91087-38), DG-AJ8S-3.5-4 (720-91087-39), DG-AI9S-0.5-1 (720-91087-40), DG-AI9S-3.5-4 (720-91087-41), (720-91087-A-18-C PDS), (720-91087-A-18-C SD), DG-AI8S-0.5-1 (720-91087-42), DG-AI8S-3.5-4 (720-91087-43), DG-AH8S-0.5-1 (720-91087-44), DG-AH8S-3.5-4 (720-91087-45) and DUP-60 (720-91087-46). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259537 and analytical batch 720-260108 contained Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259537 and analytical batch 720-260108 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260108 was outside control limits for Arsenic-45%, Barium-31%, Cadmium-29%, Cobalt-27%, Chromium-33%, Copper--28%, Nickel-30%, Lead-31%, Vanadium-31%, and Zinc-31%: (720-91087-A-7-C SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259546 and analytical batch 720-260154 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-127%, Beryllium-127%, Copper-145%, Lead-315%, and Zinc-262% associated with batch 720-260154 was outside of control limits.

Job ID: 720-91087-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260154 was outside control limits for Nickel-12% and Lead-12%: (720-91087-A-18-C SD)

Method 6010B: The method blank for preparation batch 720-259546 and analytical batch 720-260154 contained Barium, Chromium, Nickel, Lead, and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-260154 recovered above the upper control limit for Silver. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AQ9S-0.5-1 (720-91087-29), DG-AK9S-3.5-4 (720-91087-37), DG-AJ8S-3.5-4 (720-91087-39), DG-AI9S-3.5-4 (720-91087-41), (CCV 720-260154/36) and (CCV 720-260154/44). Affected sample results for this compound have been qualified with a “^” .

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-260154 contained Lead above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for this compound have been qualified with a “^” .

Method 6010B: The method blank for preparation batch 720-259560 and analytical batch 720-260183 contained Chromium, Lead, and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: Due to the high concentration of non-target analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-259560 and analytical batch 720-260183 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6010B: The post digestion spike % recovery for Barium-318% and Copper-256% associated with batch 720-260183 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260183 was outside control limits for Arsenic-25%, Barium-21%, Cadmium-25%, Cobalt-24%, Chromium-23%, Copper-19%, Nickel-23%, Lead-24%, Antimony-22%, Vanadium-20%, and Zinc-25%: (720-91087-A-21-C SD)

Method 6010B: Internal standard responses was outside of acceptance limits for the following sample: DG-AI9S-3.5-4 (720-91087-41). The sample shows evidence of matrix interference, but target analyte wasn't affected.

Method 7471A: The following samples were diluted to bring the concentration of target analytes within the calibration range: DG-AW9S-3.5-4 (720-91087-18), DG-AW9S-3.5-4 (720-91087-18[MS]), DG-AW9S-3.5-4 (720-91087-18[MSD]), DG-AT10S-3.5-4 (720-91087-26), DG-AR11S-3.5-4 (720-91087-28) and DG-AM9S-3.5-4 (720-91087-35). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AM8S-0.5-1 — Lab Sample ID: 720-91087-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.7		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	20		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	73		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.20	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	4.4		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	35		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	270		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	270	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	44		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Silver	0.60	J	0.93	0.19	mg/Kg	4		6010B	Total/NA
Thallium	0.78	J	1.9	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	550		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.54		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM8S-3.5-4 — Lab Sample ID: 720-91087-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	75		6.3	1.0	mg/Kg	20		6010B	Total/NA
Arsenic	35		13	1.1	mg/Kg	20		6010B	Total/NA
Barium	1100		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.37		0.25	0.081	mg/Kg	4		6010B	Total/NA
Cadmium	15		1.6	0.16	mg/Kg	20		6010B	Total/NA
Chromium	75		6.3	0.66	mg/Kg	20		6010B	Total/NA
Cobalt	8.4		2.5	0.25	mg/Kg	20		6010B	Total/NA
Copper	1600		19	8.9	mg/Kg	20		6010B	Total/NA
Lead	8700	B	6.3	1.3	mg/Kg	20		6010B	Total/NA
Molybdenum	0.57	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	55		6.3	0.64	mg/Kg	20		6010B	Total/NA
Silver	4.5		3.1	0.63	mg/Kg	20		6010B	Total/NA
Vanadium	29		6.3	0.85	mg/Kg	20		6010B	Total/NA
Zinc	17000		19	7.9	mg/Kg	20		6010B	Total/NA
Mercury	0.039		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL8S-0.5-1 — Lab Sample ID: 720-91087-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.7		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	21		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	110		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	3.8		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	39		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	310		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	230	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	1.9		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	53		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.96	J	3.6	0.55	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL8S-0.5-1 (Continued) — Lab Sample ID: 720-91087-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.66	J	0.91	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	61		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	420		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.63		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL8S-3.5-4 — Lab Sample ID: 720-91087-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.88	J	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	5.1		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	75		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.23	0.074	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.29	0.028	mg/Kg	4		6010B	Total/NA
Chromium	13		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	4.6		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	29		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	55	B	1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.1	0.15	mg/Kg	4		6010B	Total/NA
Nickel	14		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.99	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	120		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.038		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX7S-0.5-1 — Lab Sample ID: 720-91087-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	26		4.8	0.79	mg/Kg	10		6010B	Total/NA
Arsenic	24		9.5	0.81	mg/Kg	10		6010B	Total/NA
Barium	890		4.8	0.68	mg/Kg	10		6010B	Total/NA
Beryllium	1.2		0.95	0.31	mg/Kg	10		6010B	Total/NA
Cadmium	3.2		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	81		4.8	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	16		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	790		14	6.8	mg/Kg	10		6010B	Total/NA
Lead	1900	B	4.8	1.0	mg/Kg	10		6010B	Total/NA
Molybdenum	1.5	J	4.8	0.61	mg/Kg	10		6010B	Total/NA
Nickel	73		4.8	0.49	mg/Kg	10		6010B	Total/NA
Selenium	3.8	J	9.5	1.4	mg/Kg	10		6010B	Total/NA
Silver	4.9		2.4	0.48	mg/Kg	10		6010B	Total/NA
Vanadium	62		4.8	0.65	mg/Kg	10		6010B	Total/NA
Zinc	2200		14	6.0	mg/Kg	10		6010B	Total/NA
Mercury	0.83		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX7S-3.5-4 — Lab Sample ID: 720-91087-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	31		8.1	1.3	mg/Kg	20		6010B	Total/NA
Arsenic	32		16	1.4	mg/Kg	20		6010B	Total/NA
Barium	310		8.1	1.2	mg/Kg	20		6010B	Total/NA
Cadmium	8.0		2.0	0.20	mg/Kg	20		6010B	Total/NA
Chromium	55		8.1	0.86	mg/Kg	20		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AX7S-3.5-4 (Continued)
Lab Sample ID: 720-91087-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	12		3.3	0.33	mg/Kg	20		6010B	Total/NA
Copper	1400		24	12	mg/Kg	20		6010B	Total/NA
Lead	4100	B	8.1	1.7	mg/Kg	20		6010B	Total/NA
Molybdenum	1.0	J	8.1	1.0	mg/Kg	20		6010B	Total/NA
Nickel	52		8.1	0.83	mg/Kg	20		6010B	Total/NA
Selenium	8.1	J	16	2.4	mg/Kg	20		6010B	Total/NA
Silver	3.8	J	4.1	0.82	mg/Kg	20		6010B	Total/NA
Thallium	2.9	J	8.1	2.4	mg/Kg	20		6010B	Total/NA
Vanadium	31		8.1	1.1	mg/Kg	20		6010B	Total/NA
Zinc	3700		24	10	mg/Kg	20		6010B	Total/NA
Mercury	1.3		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO8S-0.5-1
Lab Sample ID: 720-91087-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J F1	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	100	F1	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	2.5		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	15		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	4.7		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	1800		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	72	B F1 F2	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	15		1.6	0.16	mg/Kg	4		6010B	Total/NA
Silver	0.20	J F1	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	25		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	240		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.050		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO8S-3.5-4
Lab Sample ID: 720-91087-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.7		3.3	0.55	mg/Kg	10		6010B	Total/NA
Arsenic	24		6.6	0.56	mg/Kg	10		6010B	Total/NA
Barium	320		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.13	J	0.26	0.086	mg/Kg	4		6010B	Total/NA
Cadmium	5.4		0.82	0.082	mg/Kg	10		6010B	Total/NA
Chromium	38		3.3	0.35	mg/Kg	10		6010B	Total/NA
Cobalt	12		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	1800		9.9	4.7	mg/Kg	10		6010B	Total/NA
Lead	1400	B	3.3	0.69	mg/Kg	10		6010B	Total/NA
Molybdenum	0.87	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	75		3.3	0.34	mg/Kg	10		6010B	Total/NA
Silver	1.3	J	1.6	0.33	mg/Kg	10		6010B	Total/NA
Vanadium	20		3.3	0.45	mg/Kg	10		6010B	Total/NA
Zinc	1500		9.9	4.2	mg/Kg	10		6010B	Total/NA
Mercury	0.71		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AW8S-0.5-1 — Lab Sample ID: 720-91087-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	17		6.8	1.1	mg/Kg	20		6010B	Total/NA
Arsenic	24		14	1.2	mg/Kg	20		6010B	Total/NA
Barium	69		6.8	0.97	mg/Kg	20		6010B	Total/NA
Cadmium	3.3		1.7	0.17	mg/Kg	20		6010B	Total/NA
Chromium	60		6.8	0.72	mg/Kg	20		6010B	Total/NA
Cobalt	11		2.7	0.27	mg/Kg	20		6010B	Total/NA
Copper	670		20	9.7	mg/Kg	20		6010B	Total/NA
Lead	14000	B	6.8	1.4	mg/Kg	20		6010B	Total/NA
Molybdenum	5.7	J	6.8	0.87	mg/Kg	20		6010B	Total/NA
Nickel	65		6.8	0.69	mg/Kg	20		6010B	Total/NA
Selenium	3.8	J	14	2.0	mg/Kg	20		6010B	Total/NA
Silver	3.4		3.4	0.69	mg/Kg	20		6010B	Total/NA
Vanadium	30		6.8	0.93	mg/Kg	20		6010B	Total/NA
Zinc	2200		20	8.6	mg/Kg	20		6010B	Total/NA
Mercury	0.31		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW8S-3.5-4 — Lab Sample ID: 720-91087-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	15		5.5	0.91	mg/Kg	20		6010B	Total/NA
Arsenic	14		11	0.93	mg/Kg	20		6010B	Total/NA
Barium	330		5.5	0.78	mg/Kg	20		6010B	Total/NA
Cadmium	1.1	J	1.4	0.14	mg/Kg	20		6010B	Total/NA
Chromium	21		5.5	0.58	mg/Kg	20		6010B	Total/NA
Cobalt	4.4		2.2	0.22	mg/Kg	20		6010B	Total/NA
Copper	350		16	7.8	mg/Kg	20		6010B	Total/NA
Lead	1800	B	5.5	1.1	mg/Kg	20		6010B	Total/NA
Nickel	18		5.5	0.56	mg/Kg	20		6010B	Total/NA
Selenium	3.5	J	11	1.6	mg/Kg	20		6010B	Total/NA
Silver	3.2		2.7	0.55	mg/Kg	20		6010B	Total/NA
Vanadium	12		5.5	0.74	mg/Kg	20		6010B	Total/NA
Zinc	920		16	6.9	mg/Kg	20		6010B	Total/NA
Mercury	0.68		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-56 — Lab Sample ID: 720-91087-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.82	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	3.7		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	84		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	0.17	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	19		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	6.0		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	35		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	47	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	18		1.2	0.12	mg/Kg	4		6010B	Total/NA
Silver	0.15	J	0.60	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	100		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DUP-57 — Lab Sample ID: 720-91087-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	25		3.1	0.52	mg/Kg	10		6010B	Total/NA
Arsenic	33		6.3	0.53	mg/Kg	10		6010B	Total/NA
Barium	780		3.1	0.45	mg/Kg	10		6010B	Total/NA
Beryllium	0.34	J	0.63	0.20	mg/Kg	10		6010B	Total/NA
Cadmium	6.9		0.79	0.078	mg/Kg	10		6010B	Total/NA
Chromium	46		3.1	0.33	mg/Kg	10		6010B	Total/NA
Cobalt	8.9		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	820		9.4	4.5	mg/Kg	10		6010B	Total/NA
Lead	7200	B	3.1	0.66	mg/Kg	10		6010B	Total/NA
Molybdenum	1.3	J	3.1	0.40	mg/Kg	10		6010B	Total/NA
Nickel	66		3.1	0.32	mg/Kg	10		6010B	Total/NA
Selenium	3.7	J	6.3	0.94	mg/Kg	10		6010B	Total/NA
Silver	2.9		1.6	0.32	mg/Kg	10		6010B	Total/NA
Vanadium	24		3.1	0.43	mg/Kg	10		6010B	Total/NA
Zinc	3300		9.4	4.0	mg/Kg	10		6010B	Total/NA
Mercury	2.8		0.066	0.0097	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AY8S-0.5-1 — Lab Sample ID: 720-91087-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.53	J	1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	4.8		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	100		1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.51		0.22	0.071	mg/Kg	4		6010B	Total/NA
Cadmium	0.11	J	0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	91		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	23		3.3	1.5	mg/Kg	4		6010B	Total/NA
Lead	30	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	25		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.97	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	34		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	85		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AY8S-3.5-4 — Lab Sample ID: 720-91087-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	8.4		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	110		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.88		0.22	0.071	mg/Kg	4		6010B	Total/NA
Chromium	34		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	38		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	17	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	32		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	78		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.042		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AX8S-0.5-1 — Lab Sample ID: 720-91087-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	10		6.2	1.0	mg/Kg	20		6010B	Total/NA
Arsenic	40		12	1.1	mg/Kg	20		6010B	Total/NA
Barium	880		6.2	0.88	mg/Kg	20		6010B	Total/NA
Beryllium	0.49	J	1.2	0.40	mg/Kg	20		6010B	Total/NA
Cadmium	3.8		1.6	0.15	mg/Kg	20		6010B	Total/NA
Chromium	66		6.2	0.66	mg/Kg	20		6010B	Total/NA
Cobalt	9.6		2.5	0.25	mg/Kg	20		6010B	Total/NA
Copper	430		19	8.8	mg/Kg	20		6010B	Total/NA
Lead	2100	B	6.2	1.3	mg/Kg	20		6010B	Total/NA
Molybdenum	2.6	J	6.2	0.80	mg/Kg	20		6010B	Total/NA
Nickel	44		6.2	0.63	mg/Kg	20		6010B	Total/NA
Silver	1.2	J	3.1	0.63	mg/Kg	20		6010B	Total/NA
Vanadium	36		6.2	0.84	mg/Kg	20		6010B	Total/NA
Zinc	2100		19	7.9	mg/Kg	20		6010B	Total/NA
Mercury	0.31		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX8S-3.5-4 — Lab Sample ID: 720-91087-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	21		1.4	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	19		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	3800		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.30		0.27	0.088	mg/Kg	4		6010B	Total/NA
Cadmium	2.8		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	36		1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	4.5		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	250		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	18000	B	6.8	1.4	mg/Kg	20		6010B	Total/NA
Molybdenum	0.56	J	1.4	0.17	mg/Kg	4		6010B	Total/NA
Nickel	21		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.71	J	2.7	0.41	mg/Kg	4		6010B	Total/NA
Silver	2.7	J	3.4	0.68	mg/Kg	20		6010B	Total/NA
Vanadium	16		1.4	0.18	mg/Kg	4		6010B	Total/NA
Zinc	7600		20	8.6	mg/Kg	20		6010B	Total/NA
Mercury	3.9		0.15	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-AW9S-0.5-1 — Lab Sample ID: 720-91087-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19		3.7	0.61	mg/Kg	10		6010B	Total/NA
Arsenic	24		7.4	0.63	mg/Kg	10		6010B	Total/NA
Barium	1100		3.7	0.53	mg/Kg	10		6010B	Total/NA
Beryllium	0.54	J	0.74	0.24	mg/Kg	10		6010B	Total/NA
Cadmium	3.4		0.93	0.092	mg/Kg	10		6010B	Total/NA
Chromium	89		3.7	0.39	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	780		11	5.3	mg/Kg	10		6010B	Total/NA
Lead	1900	B	3.7	0.78	mg/Kg	10		6010B	Total/NA
Nickel	64		3.7	0.38	mg/Kg	10		6010B	Total/NA
Selenium	1.9	J	7.4	1.1	mg/Kg	10		6010B	Total/NA
Silver	6.3		1.9	0.37	mg/Kg	10		6010B	Total/NA
Vanadium	55		3.7	0.50	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AW9S-0.5-1 (Continued)

Lab Sample ID: 720-91087-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	2100		11	4.7	mg/Kg	10		6010B	Total/NA
Mercury	1.7		0.063	0.0092	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AW9S-3.5-4

Lab Sample ID: 720-91087-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	11	F1 F2	4.2	0.70	mg/Kg	10		6010B	Total/NA
Arsenic	11	F1	8.4	0.71	mg/Kg	10		6010B	Total/NA
Barium	130	F1 B	4.2	0.60	mg/Kg	10		6010B	Total/NA
Beryllium	1.1	F1	0.84	0.27	mg/Kg	10		6010B	Total/NA
Cadmium	3.5		1.1	0.10	mg/Kg	10		6010B	Total/NA
Chromium	45	F1 B	4.2	0.45	mg/Kg	10		6010B	Total/NA
Cobalt	6.3		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	890		13	6.0	mg/Kg	10		6010B	Total/NA
Lead	3400	B F2	4.2	0.88	mg/Kg	10		6010B	Total/NA
Molybdenum	1.2	J	4.2	0.54	mg/Kg	10		6010B	Total/NA
Nickel	36	F1 B	4.2	0.43	mg/Kg	10		6010B	Total/NA
Selenium	2.6	J B	8.4	1.3	mg/Kg	10		6010B	Total/NA
Silver	4.0		2.1	0.42	mg/Kg	10		6010B	Total/NA
Vanadium	31	F1	4.2	0.57	mg/Kg	10		6010B	Total/NA
Zinc	2400		13	5.3	mg/Kg	10		6010B	Total/NA

Client Sample ID: DG-AU9S-0.5-1

Lab Sample ID: 720-91087-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	20		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	19		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	190		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	20		0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	43		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	6.6		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	3700		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	3500	B	1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	57		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.9	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Silver	3.8		0.93	0.19	mg/Kg	4		6010B	Total/NA
Thallium	0.74	J	1.9	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	4200		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	2.0		0.063	0.0092	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AU9S-3.5-4

Lab Sample ID: 720-91087-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	140		7.6	1.3	mg/Kg	20		6010B	Total/NA
Arsenic	37		15	1.3	mg/Kg	20		6010B	Total/NA
Barium	360		7.6	1.1	mg/Kg	20		6010B	Total/NA
Beryllium	0.51	J	1.5	0.50	mg/Kg	20		6010B	Total/NA
Cadmium	7.8		1.9	0.19	mg/Kg	20		6010B	Total/NA
Chromium	110		7.6	0.81	mg/Kg	20		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AU9S-3.5-4 (Continued) Lab Sample ID: 720-91087-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	14		3.1	0.31	mg/Kg	20		6010B	Total/NA
Copper	2100		23	11	mg/Kg	20		6010B	Total/NA
Lead	9200	B	7.6	1.6	mg/Kg	20		6010B	Total/NA
Molybdenum	1.9	J	7.6	0.98	mg/Kg	20		6010B	Total/NA
Nickel	130		7.6	0.78	mg/Kg	20		6010B	Total/NA
Selenium	7.9	J	15	2.3	mg/Kg	20		6010B	Total/NA
Silver	34		3.8	0.77	mg/Kg	20		6010B	Total/NA
Vanadium	40		7.6	1.0	mg/Kg	20		6010B	Total/NA
Zinc	7000		23	9.7	mg/Kg	20		6010B	Total/NA
Mercury	2.6		0.067	0.0098	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AU10S-0.5-1 Lab Sample ID: 720-91087-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	46		3.6	0.60	mg/Kg	10		6010B	Total/NA
Arsenic	29		7.2	0.61	mg/Kg	10		6010B	Total/NA
Barium	970		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	4.8		0.90	0.089	mg/Kg	10		6010B	Total/NA
Chromium	69	B	3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	14		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	1000		11	5.1	mg/Kg	10		6010B	Total/NA
Lead	4800	B	3.6	0.76	mg/Kg	10		6010B	Total/NA
Molybdenum	1.1	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	110		3.6	0.37	mg/Kg	10		6010B	Total/NA
Selenium	2.0	J B	7.2	1.1	mg/Kg	10		6010B	Total/NA
Silver	5.7		1.8	0.36	mg/Kg	10		6010B	Total/NA
Thallium	1.1	J	3.6	1.0	mg/Kg	10		6010B	Total/NA
Vanadium	39		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	3000		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	0.90		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AU10S-3.5-4 Lab Sample ID: 720-91087-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	61		4.5	0.75	mg/Kg	10		6010B	Total/NA
Arsenic	100		9.1	0.77	mg/Kg	10		6010B	Total/NA
Barium	1700		4.5	0.65	mg/Kg	10		6010B	Total/NA
Beryllium	0.36	J	0.91	0.30	mg/Kg	10		6010B	Total/NA
Cadmium	4.3		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	130		4.5	0.48	mg/Kg	10		6010B	Total/NA
Cobalt	40		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	2300		14	6.5	mg/Kg	10		6010B	Total/NA
Lead	6900	B	4.5	0.95	mg/Kg	10		6010B	Total/NA
Molybdenum	2.4	J	4.5	0.58	mg/Kg	10		6010B	Total/NA
Nickel	290		4.5	0.46	mg/Kg	10		6010B	Total/NA
Selenium	8.0	J	9.1	1.4	mg/Kg	10		6010B	Total/NA
Silver	5.5		2.3	0.46	mg/Kg	10		6010B	Total/NA
Thallium	2.6	J	4.5	1.3	mg/Kg	10		6010B	Total/NA
Vanadium	23		4.5	0.62	mg/Kg	10		6010B	Total/NA
Zinc	5100		14	5.8	mg/Kg	10		6010B	Total/NA
Mercury	0.54		0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DUP-59 — Lab Sample ID: 720-91087-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	13		6.1	1.0	mg/Kg	20		6010B	Total/NA
Arsenic	6.5	J	12	1.0	mg/Kg	20		6010B	Total/NA
Barium	690	B	3.1	0.44	mg/Kg	10		6010B	Total/NA
Beryllium	0.49	J	0.61	0.20	mg/Kg	10		6010B	Total/NA
Cadmium	2.2		1.5	0.15	mg/Kg	20		6010B	Total/NA
Chromium	19	B	6.1	0.65	mg/Kg	20		6010B	Total/NA
Cobalt	3.8		2.5	0.25	mg/Kg	20		6010B	Total/NA
Copper	420		18	8.7	mg/Kg	20		6010B	Total/NA
Lead	1600	B	6.1	1.3	mg/Kg	20		6010B	Total/NA
Molybdenum	1.1	J	3.1	0.39	mg/Kg	10		6010B	Total/NA
Nickel	24	B	6.1	0.63	mg/Kg	20		6010B	Total/NA
Selenium	5.0	J B	12	1.8	mg/Kg	20		6010B	Total/NA
Silver	2.4	J	3.1	0.62	mg/Kg	20		6010B	Total/NA
Thallium	2.3	J	6.1	1.8	mg/Kg	20		6010B	Total/NA
Vanadium	8.2		6.1	0.83	mg/Kg	20		6010B	Total/NA
Zinc	1300		18	7.8	mg/Kg	20		6010B	Total/NA
Mercury	0.033		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-66 — Lab Sample ID: 720-91087-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	13		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	10		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	340	B	1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.27	0.089	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	52	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	270		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	1100	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.89	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	36	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J B	2.7	0.41	mg/Kg	4		6010B	Total/NA
Silver	1.8		0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	920		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.47		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT10S-0.5-1 — Lab Sample ID: 720-91087-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	15		3.6	0.61	mg/Kg	10		6010B	Total/NA
Arsenic	140		7.3	0.62	mg/Kg	10		6010B	Total/NA
Barium	380	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J	0.29	0.095	mg/Kg	4		6010B	Total/NA
Cadmium	2.2		0.91	0.091	mg/Kg	10		6010B	Total/NA
Chromium	55	B	3.6	0.39	mg/Kg	10		6010B	Total/NA
Cobalt	19		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	400		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	1400	B	3.6	0.77	mg/Kg	10		6010B	Total/NA
Molybdenum	1.3	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	64	B	3.6	0.37	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT10S-0.5-1 (Continued)

Lab Sample ID: 720-91087-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	1.0	J	1.8	0.37	mg/Kg	10		6010B	Total/NA
Thallium	1.2	J	3.6	1.1	mg/Kg	10		6010B	Total/NA
Vanadium	55		3.6	0.50	mg/Kg	10		6010B	Total/NA
Zinc	720		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	0.83		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT10S-3.5-4

Lab Sample ID: 720-91087-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	82		4.5	0.75	mg/Kg	10		6010B	Total/NA
Arsenic	31		9.1	0.77	mg/Kg	10		6010B	Total/NA
Barium	2100	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	7.9		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	230	B	4.5	0.48	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	3000		14	6.5	mg/Kg	10		6010B	Total/NA
Lead	12000	B	4.5	0.95	mg/Kg	10		6010B	Total/NA
Molybdenum	1.0	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	100	B	4.5	0.46	mg/Kg	10		6010B	Total/NA
Selenium	5.9	J B	9.1	1.4	mg/Kg	10		6010B	Total/NA
Silver	9.0		2.3	0.46	mg/Kg	10		6010B	Total/NA
Thallium	3.9	J	4.5	1.3	mg/Kg	10		6010B	Total/NA
Vanadium	46		4.5	0.62	mg/Kg	10		6010B	Total/NA
Zinc	4900		14	5.8	mg/Kg	10		6010B	Total/NA
Mercury	2.9		0.064	0.0094	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AR11S-0.5-1

Lab Sample ID: 720-91087-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	19		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	24		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	1000	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.33		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	2.8		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	160	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	770		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	1600	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.94	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	58	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.6	J B	3.3	0.49	mg/Kg	4		6010B	Total/NA
Silver	2.7		0.81	0.16	mg/Kg	4		6010B	Total/NA
Thallium	0.73	J	1.6	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	1700		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	1.2		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR11S-3.5-4

Lab Sample ID: 720-91087-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	200		4.6	0.77	mg/Kg	10		6010B	Total/NA
Arsenic	15		9.3	0.79	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR11S-3.5-4 (Continued) — Lab Sample ID: 720-91087-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1500	B	1.9	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	7.7		1.2	0.11	mg/Kg	10		6010B	Total/NA
Chromium	2600	B	4.6	0.49	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	1500		14	6.6	mg/Kg	10		6010B	Total/NA
Lead	4000	B	4.6	0.97	mg/Kg	10		6010B	Total/NA
Molybdenum	1.5	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	88	B	4.6	0.47	mg/Kg	10		6010B	Total/NA
Selenium	6.4	J B	9.3	1.4	mg/Kg	10		6010B	Total/NA
Silver	5.8		2.3	0.47	mg/Kg	10		6010B	Total/NA
Vanadium	41		4.6	0.63	mg/Kg	10		6010B	Total/NA
Zinc	4400		14	5.9	mg/Kg	10		6010B	Total/NA
Mercury	2.8		0.057	0.0085	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AQ9S-0.5-1 — Lab Sample ID: 720-91087-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.4		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	7.2		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	72	B	1.9	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.68		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	32	B	1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	140		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	200	B ^	1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.80	J B	3.9	0.58	mg/Kg	4		6010B	Total/NA
Thallium	1.3	J	1.9	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	410		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ9S-3.5-4 — Lab Sample ID: 720-91087-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	28	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	9.3	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	130		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	1.4	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	5.3	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Thallium	1.6		1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	36		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO9S-0.5-1 — Lab Sample ID: 720-91087-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.4		1.5	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AO9S-0.5-1 (Continued) Lab Sample ID: 720-91087-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	1.8		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	150	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	210		4.5	2.2	mg/Kg	4		6010B	Total/NA
Lead	220	B ^	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	1.4	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	84	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	2.2	J B	3.0	0.45	mg/Kg	4		6010B	Total/NA
Thallium	0.74	J	1.5	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	460		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.94		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO9S-3.5-4 Lab Sample ID: 720-91087-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.0		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	26		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	190	B	1.1	0.15	mg/Kg	4		6010B	Total/NA
Cadmium	0.80		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	22	B	1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	280		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	240	B ^	1.1	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.59	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	75	B	1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	2.4	B	2.1	0.32	mg/Kg	4		6010B	Total/NA
Silver	0.28	J	0.53	0.11	mg/Kg	4		6010B	Total/NA
Thallium	0.57	J	1.1	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	620		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.069		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM9S-0.5-1 Lab Sample ID: 720-91087-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.1		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	16		2.5	0.22	mg/Kg	4		6010B	Total/NA
Barium	220	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	3.9		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	71	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	490		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	680	B ^	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	6.0		1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	130	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	3.8	B	2.5	0.38	mg/Kg	4		6010B	Total/NA
Silver	0.42	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Thallium	0.82	J	1.3	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.3	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM9S-0.5-1 (Continued)

Lab Sample ID: 720-91087-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	1300		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.30		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-72

Lab Sample ID: 720-91087-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	67		19	3.2	mg/Kg	50		6010B	Total/NA
Arsenic	47		39	3.3	mg/Kg	50		6010B	Total/NA
Barium	1200	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	4.8		4.8	0.48	mg/Kg	50		6010B	Total/NA
Chromium	160	B	19	2.1	mg/Kg	50		6010B	Total/NA
Cobalt	41		7.8	0.78	mg/Kg	50		6010B	Total/NA
Copper	2700		58	28	mg/Kg	50		6010B	Total/NA
Lead	8500	B	19	4.1	mg/Kg	50		6010B	Total/NA
Molybdenum	1.2	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	310	B	19	2.0	mg/Kg	50		6010B	Total/NA
Selenium	12	J B	39	5.8	mg/Kg	50		6010B	Total/NA
Silver	7.2	J	9.7	2.0	mg/Kg	50		6010B	Total/NA
Thallium	9.5	J	19	5.6	mg/Kg	50		6010B	Total/NA
Vanadium	31		19	2.6	mg/Kg	50		6010B	Total/NA
Zinc	4700		58	25	mg/Kg	50		6010B	Total/NA
Mercury	0.34		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM9S-3.5-4

Lab Sample ID: 720-91087-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	34		16	2.6	mg/Kg	50		6010B	Total/NA
Arsenic	24	J	32	2.7	mg/Kg	50		6010B	Total/NA
Barium	1300	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Cadmium	3.1	J	4.0	0.39	mg/Kg	50		6010B	Total/NA
Chromium	58	B	16	1.7	mg/Kg	50		6010B	Total/NA
Cobalt	14		6.3	0.63	mg/Kg	50		6010B	Total/NA
Copper	630		47	23	mg/Kg	50		6010B	Total/NA
Lead	4300	B	16	3.3	mg/Kg	50		6010B	Total/NA
Molybdenum	0.79	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	49	B	16	1.6	mg/Kg	50		6010B	Total/NA
Silver	5.4	J	7.9	1.6	mg/Kg	50		6010B	Total/NA
Vanadium	37		16	2.2	mg/Kg	50		6010B	Total/NA
Zinc	2400		47	20	mg/Kg	50		6010B	Total/NA
Mercury	2.5		0.068	0.010	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AK9S-0.5-1

Lab Sample ID: 720-91087-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.4		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	15		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	220	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	2.4		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	52	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	230		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	390	B ^	1.6	0.34	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AK9S-0.5-1 (Continued)

Lab Sample ID: 720-91087-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	1.9		1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	51	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J B	3.3	0.49	mg/Kg	4		6010B	Total/NA
Silver	0.27	J	0.81	0.16	mg/Kg	4		6010B	Total/NA
Thallium	0.51	J	1.6	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	620		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.64		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK9S-3.5-4

Lab Sample ID: 720-91087-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	6.7		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	79	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	16	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	4.6		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	22		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	170	B ^	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.73	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	19	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	70		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.030		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ8S-0.5-1

Lab Sample ID: 720-91087-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.1		2.8	0.47	mg/Kg	10		6010B	Total/NA
Arsenic	13		5.6	0.48	mg/Kg	10		6010B	Total/NA
Barium	140	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	6.3		0.70	0.070	mg/Kg	10		6010B	Total/NA
Chromium	45	B	2.8	0.30	mg/Kg	10		6010B	Total/NA
Cobalt	18		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	330		8.4	4.0	mg/Kg	10		6010B	Total/NA
Lead	460	B	2.8	0.59	mg/Kg	10		6010B	Total/NA
Molybdenum	3.9		1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	46	B	2.8	0.29	mg/Kg	10		6010B	Total/NA
Selenium	1.3	J B	5.6	0.84	mg/Kg	10		6010B	Total/NA
Silver	0.41	J	1.4	0.28	mg/Kg	10		6010B	Total/NA
Vanadium	91		2.8	0.38	mg/Kg	10		6010B	Total/NA
Zinc	650		8.4	3.6	mg/Kg	10		6010B	Total/NA
Mercury	0.30		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ8S-3.5-4

Lab Sample ID: 720-91087-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.60	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	4.0		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	61	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.053	J	0.43	0.043	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ8S-3.5-4 (Continued) — Lab Sample ID: 720-91087-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	23	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	21		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	25	B ^	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.37	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	40		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.029		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI9S-0.5-1 — Lab Sample ID: 720-91087-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.3		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	8.8		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	46	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	210		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	430	B ^	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	2.1		1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	66	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J B	3.3	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	420		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.28		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI9S-3.5-4 — Lab Sample ID: 720-91087-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.71	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	4.6		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	71	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.31	0.030	mg/Kg	4		6010B	Total/NA
Chromium	16	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	5.1		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	22		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	54	B ^	1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.49	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	18	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.51	J B	2.5	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	87		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.032		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI8S-0.5-1 — Lab Sample ID: 720-91087-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	76		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.23	0.075	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AI8S-0.5-1 (Continued) Lab Sample ID: 720-91087-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.10	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	5.3		0.46	0.046	mg/Kg	4		6010B	Total/NA
Copper	21		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	46	B	1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	19		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.71	J B	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.1	0.16	mg/Kg	4		6010B	Total/NA
Zinc	62		3.4	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.022		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI8S-3.5-4 Lab Sample ID: 720-91087-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.9		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	160		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.35		0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.098	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	14	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.4		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	34		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	94	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	15		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	86		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.36		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH8S-0.5-1 Lab Sample ID: 720-91087-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.56	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	1.6	J	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	49		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	11	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	150		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	27	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	11		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	86		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.082		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH8S-3.5-4 Lab Sample ID: 720-91087-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		2.1	0.17	mg/Kg	4		6010B	Total/NA
Barium	52		1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.21	0.067	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.26	0.025	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH8S-3.5-4 (Continued) Lab Sample ID: 720-91087-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	14	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	5.1		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	12		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	8.9	B	1.0	0.22	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.0	0.13	mg/Kg	4		6010B	Total/NA
Nickel	15		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	0.31	J B	2.1	0.31	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	27		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.019		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-60 Lab Sample ID: 720-91087-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.59	J	1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	6.7		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	120		1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.73		0.20	0.066	mg/Kg	4		6010B	Total/NA
Cadmium	0.099	J	0.26	0.025	mg/Kg	4		6010B	Total/NA
Chromium	61	B	1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.41	0.041	mg/Kg	4		6010B	Total/NA
Copper	47		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	39	B	1.0	0.21	mg/Kg	4		6010B	Total/NA
Nickel	30		1.0	0.10	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	110		3.1	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.062		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AM8S-0.5-1
Lab Sample ID: 720-91087-1
Date Collected: 01/30/19 08:50
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.7		1.9	0.31	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Arsenic	20		3.7	0.31	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Barium	73		1.9	0.26	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Beryllium	0.20	J	0.37	0.12	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Cadmium	4.4		0.46	0.046	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Chromium	35		1.9	0.20	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Cobalt	7.2		0.74	0.074	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Copper	270		5.6	2.6	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Lead	270	B	1.9	0.39	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Molybdenum	1.5	J	1.9	0.24	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Nickel	44		1.9	0.19	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Selenium	1.6	J	3.7	0.56	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Silver	0.60	J	0.93	0.19	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Thallium	0.78	J	1.9	0.54	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Vanadium	35		1.9	0.25	mg/Kg		01/31/19 08:59	02/08/19 17:47	4
Zinc	550		5.6	2.4	mg/Kg		01/31/19 08:59	02/08/19 17:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.54		0.016	0.0024	mg/Kg		02/12/19 14:36	02/12/19 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.2		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AM8S-3.5-4

Date Collected: 01/30/19 08:50
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	75		6.3	1.0	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Arsenic	35		13	1.1	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Barium	1100		1.3	0.18	mg/Kg		01/31/19 08:59	02/08/19 17:52	4
Beryllium	0.37		0.25	0.081	mg/Kg		01/31/19 08:59	02/08/19 17:52	4
Cadmium	15		1.6	0.16	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Chromium	75		6.3	0.66	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Cobalt	8.4		2.5	0.25	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Copper	1600		19	8.9	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Lead	8700	B	6.3	1.3	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Molybdenum	0.57	J	1.3	0.16	mg/Kg		01/31/19 08:59	02/08/19 17:52	4
Nickel	55		6.3	0.64	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Selenium	ND		13	1.9	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Silver	4.5		3.1	0.63	mg/Kg		01/31/19 08:59	02/13/19 14:30	20
Thallium	ND		6.3	1.8	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Vanadium	29		6.3	0.85	mg/Kg		01/31/19 08:59	02/11/19 18:56	20
Zinc	17000		19	7.9	mg/Kg		01/31/19 08:59	02/11/19 18:56	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.016	0.0023	mg/Kg		02/12/19 14:36	02/12/19 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.5		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AL8S-0.5-1

Date Collected: 01/30/19 08:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.7		1.8	0.30	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Arsenic	21		3.6	0.31	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Barium	110		1.8	0.26	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Beryllium	0.41		0.36	0.12	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Cadmium	3.8		0.45	0.045	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Chromium	39		1.8	0.19	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Cobalt	12		0.73	0.073	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Copper	310		5.5	2.6	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Lead	230	B	1.8	0.38	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Molybdenum	1.9		1.8	0.23	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Nickel	53		1.8	0.19	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Selenium	0.96	J	3.6	0.55	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Silver	0.66	J	0.91	0.18	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Thallium	ND		1.8	0.53	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Vanadium	61		1.8	0.25	mg/Kg		01/31/19 08:59	02/08/19 17:57	4
Zinc	420		5.5	2.3	mg/Kg		01/31/19 08:59	02/11/19 19:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.63		0.016	0.0023	mg/Kg		02/12/19 14:36	02/12/19 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.0		0.1	0.05	%			01/31/19 11:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AL8S-3.5-4

Date Collected: 01/30/19 08:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.88	J	1.1	0.19	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Arsenic	5.1		2.3	0.19	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Barium	75		1.1	0.16	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Beryllium	0.18	J	0.23	0.074	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Cadmium	0.21	J	0.29	0.028	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Chromium	13		1.1	0.12	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Cobalt	4.6		0.46	0.046	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Copper	29		3.4	1.6	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Lead	55	B	1.1	0.24	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Molybdenum	0.28	J	1.1	0.15	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Nickel	14		1.1	0.12	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Selenium	0.99	J	2.3	0.34	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Silver	ND		0.57	0.12	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Thallium	ND		1.1	0.33	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Vanadium	26		1.1	0.16	mg/Kg		01/31/19 08:59	02/08/19 18:12	4
Zinc	120		3.4	1.5	mg/Kg		01/31/19 08:59	02/08/19 18:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.015	0.0022	mg/Kg		02/12/19 14:36	02/12/19 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.9		0.1	0.05	%			01/31/19 11:07	1

Client Sample ID: DG-AX7S-0.5-1 Lab Sample ID: 720-91087-5

Date Collected: 01/30/19 09:50 **Matrix: Solid**
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	26		4.8	0.79	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Arsenic	24		9.5	0.81	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Barium	890		4.8	0.68	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Beryllium	1.2		0.95	0.31	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Cadmium	3.2		1.2	0.12	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Chromium	81		4.8	0.50	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Cobalt	16		1.9	0.19	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Copper	790		14	6.8	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Lead	1900	B	4.8	1.0	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Molybdenum	1.5	J	4.8	0.61	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Nickel	73		4.8	0.49	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Selenium	3.8	J	9.5	1.4	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Silver	4.9		2.4	0.48	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Thallium	ND		4.8	1.4	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Vanadium	62		4.8	0.65	mg/Kg		01/31/19 08:59	02/08/19 18:16	10
Zinc	2200		14	6.0	mg/Kg		01/31/19 08:59	02/08/19 18:16	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.83		0.014	0.0021	mg/Kg		02/12/19 14:36	02/12/19 18:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.4		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AX7S-3.5-4

Date Collected: 01/30/19 09:50
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	31		8.1	1.3	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Arsenic	32		16	1.4	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Barium	310		8.1	1.2	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Beryllium	ND		1.6	0.53	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Cadmium	8.0		2.0	0.20	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Chromium	55		8.1	0.86	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Cobalt	12		3.3	0.33	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Copper	1400		24	12	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Lead	4100	B	8.1	1.7	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Molybdenum	1.0	J	8.1	1.0	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Nickel	52		8.1	0.83	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Selenium	8.1	J	16	2.4	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Silver	3.8	J	4.1	0.82	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Thallium	2.9	J	8.1	2.4	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Vanadium	31		8.1	1.1	mg/Kg		01/31/19 08:59	02/08/19 18:21	20
Zinc	3700		24	10	mg/Kg		01/31/19 08:59	02/08/19 18:21	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.015	0.0022	mg/Kg		02/12/19 14:36	02/12/19 18:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.6		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AO8S-0.5-1

Date Collected: 01/30/19 09:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J F1	1.6	0.27	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Arsenic	14		3.2	0.27	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Barium	100	F1	1.6	0.23	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Beryllium	0.16	J	0.32	0.10	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Cadmium	2.5		0.40	0.040	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Chromium	15		1.6	0.17	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Cobalt	4.7		0.65	0.065	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Copper	1800		4.8	2.3	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Lead	72	B F1 F2	1.6	0.34	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Molybdenum	0.26	J	1.6	0.21	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Nickel	15		1.6	0.16	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Selenium	ND		3.2	0.48	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Silver	0.20	J F1	0.81	0.16	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Thallium	ND		1.6	0.47	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Vanadium	25		1.6	0.22	mg/Kg		01/31/19 08:59	02/08/19 17:43	4
Zinc	240		4.8	2.0	mg/Kg		01/31/19 08:59	02/08/19 17:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.017	0.0025	mg/Kg		02/12/19 14:36	02/12/19 18:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.4		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AO8S-3.5-4

Date Collected: 01/30/19 09:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.7		3.3	0.55	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Arsenic	24		6.6	0.56	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Barium	320		1.3	0.19	mg/Kg		01/31/19 08:59	02/08/19 18:26	4
Beryllium	0.13	J	0.26	0.086	mg/Kg		01/31/19 08:59	02/08/19 18:26	4
Cadmium	5.4		0.82	0.082	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Chromium	38		3.3	0.35	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Cobalt	12		1.3	0.13	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Copper	1800		9.9	4.7	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Lead	1400	B	3.3	0.69	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Molybdenum	0.87	J	1.3	0.17	mg/Kg		01/31/19 08:59	02/08/19 18:26	4
Nickel	75		3.3	0.34	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Selenium	ND		6.6	0.99	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Silver	1.3	J	1.6	0.33	mg/Kg		01/31/19 08:59	02/13/19 14:35	10
Thallium	ND		3.3	0.95	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Vanadium	20		3.3	0.45	mg/Kg		01/31/19 08:59	02/11/19 19:05	10
Zinc	1500		9.9	4.2	mg/Kg		01/31/19 08:59	02/11/19 19:05	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.71		0.016	0.0024	mg/Kg		02/12/19 14:36	02/12/19 18:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.0		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AW8S-0.5-1
Lab Sample ID: 720-91087-9
Date Collected: 01/30/19 10:20
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	17		6.8	1.1	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Arsenic	24		14	1.2	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Barium	69		6.8	0.97	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Beryllium	ND		1.4	0.44	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Cadmium	3.3		1.7	0.17	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Chromium	60		6.8	0.72	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Cobalt	11		2.7	0.27	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Copper	670		20	9.7	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Lead	14000	B	6.8	1.4	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Molybdenum	5.7	J	6.8	0.87	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Nickel	65		6.8	0.69	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Selenium	3.8	J	14	2.0	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Silver	3.4		3.4	0.69	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Thallium	ND		6.8	2.0	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Vanadium	30		6.8	0.93	mg/Kg		01/31/19 08:59	02/08/19 18:31	20
Zinc	2200		20	8.6	mg/Kg		01/31/19 08:59	02/08/19 18:31	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.016	0.0023	mg/Kg		02/12/19 14:36	02/12/19 19:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.3		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AW8S-3.5-4
Lab Sample ID: 720-91087-10
Date Collected: 01/30/19 10:20
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	15		5.5	0.91	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Arsenic	14		11	0.93	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Barium	330		5.5	0.78	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Beryllium	ND		1.1	0.36	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Cadmium	1.1	J	1.4	0.14	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Chromium	21		5.5	0.58	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Cobalt	4.4		2.2	0.22	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Copper	350		16	7.8	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Lead	1800	B	5.5	1.1	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Molybdenum	ND		5.5	0.70	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Nickel	18		5.5	0.56	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Selenium	3.5	J	11	1.6	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Silver	3.2		2.7	0.55	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Thallium	ND		5.5	1.6	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Vanadium	12		5.5	0.74	mg/Kg		01/31/19 08:59	02/08/19 18:35	20
Zinc	920		16	6.9	mg/Kg		01/31/19 08:59	02/08/19 18:35	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.68		0.014	0.0021	mg/Kg		02/12/19 14:36	02/12/19 19:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.3		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DUP-56
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-11
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.82	J	1.2	0.20	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Arsenic	3.7		2.4	0.20	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Barium	84		1.2	0.17	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Beryllium	0.19	J	0.24	0.078	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Cadmium	0.17	J	0.30	0.030	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Chromium	19		1.2	0.13	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Cobalt	6.0		0.48	0.048	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Copper	35		3.6	1.7	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Lead	47	B	1.2	0.25	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Molybdenum	ND		1.2	0.15	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Nickel	18		1.2	0.12	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Selenium	ND		2.4	0.36	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Silver	0.15	J	0.60	0.12	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Thallium	ND		1.2	0.35	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Vanadium	26		1.2	0.16	mg/Kg		01/31/19 08:59	02/08/19 18:40	4
Zinc	100		3.6	1.5	mg/Kg		01/31/19 08:59	02/08/19 18:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.014	0.0021	mg/Kg		02/12/19 14:36	02/12/19 19:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.6		0.1	0.05	%			01/31/19 13:53	1

Client Sample ID: DUP-57
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-12
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	25		3.1	0.52	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Arsenic	33		6.3	0.53	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Barium	780		3.1	0.45	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Beryllium	0.34	J	0.63	0.20	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Cadmium	6.9		0.79	0.078	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Chromium	46		3.1	0.33	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Cobalt	8.9		1.3	0.13	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Copper	820		9.4	4.5	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Lead	7200	B	3.1	0.66	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Molybdenum	1.3	J	3.1	0.40	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Nickel	66		3.1	0.32	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Selenium	3.7	J	6.3	0.94	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Silver	2.9		1.6	0.32	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Thallium	ND		3.1	0.91	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Vanadium	24		3.1	0.43	mg/Kg		01/31/19 08:59	02/08/19 18:45	10
Zinc	3300		9.4	4.0	mg/Kg		01/31/19 08:59	02/08/19 18:45	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.8		0.066	0.0097	mg/Kg		02/12/19 14:36	02/12/19 19:39	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.2		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AY8S-0.5-1
Lab Sample ID: 720-91087-13
Date Collected: 01/30/19 10:40
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.1	0.18	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Arsenic	4.8		2.2	0.18	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Barium	100		1.1	0.15	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Beryllium	0.51		0.22	0.071	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Cadmium	0.11	J	0.27	0.027	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Chromium	91		1.1	0.12	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Cobalt	9.0		0.43	0.043	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Copper	23		3.3	1.5	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Lead	30	B	1.1	0.23	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Molybdenum	0.19	J	1.1	0.14	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Nickel	25		1.1	0.11	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Selenium	0.97	J	2.2	0.33	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Silver	ND		0.54	0.11	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Thallium	ND		1.1	0.32	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Vanadium	34		1.1	0.15	mg/Kg		01/31/19 08:59	02/08/19 18:50	4
Zinc	85		3.3	1.4	mg/Kg		01/31/19 08:59	02/08/19 18:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.015	0.0021	mg/Kg		02/12/19 14:36	02/12/19 19:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AY8S-3.5-4

Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.1	0.18	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Arsenic	8.4		2.2	0.19	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Barium	110		1.1	0.16	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Beryllium	0.88		0.22	0.071	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Cadmium	ND		0.27	0.027	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Chromium	34		1.1	0.12	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Cobalt	14		0.44	0.044	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Copper	38		3.3	1.6	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Lead	17	B	1.1	0.23	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Nickel	32		1.1	0.11	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Selenium	ND		2.2	0.33	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Silver	ND		0.55	0.11	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Thallium	ND		1.1	0.32	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Vanadium	40		1.1	0.15	mg/Kg		01/31/19 08:59	02/08/19 18:54	4
Zinc	78		3.3	1.4	mg/Kg		01/31/19 08:59	02/08/19 18:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.015	0.0022	mg/Kg		02/12/19 14:36	02/12/19 19:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.1		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AX8S-0.5-1
Lab Sample ID: 720-91087-15
Date Collected: 01/30/19 10:50
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	10		6.2	1.0	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Arsenic	40		12	1.1	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Barium	880		6.2	0.88	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Beryllium	0.49	J	1.2	0.40	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Cadmium	3.8		1.6	0.15	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Chromium	66		6.2	0.66	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Cobalt	9.6		2.5	0.25	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Copper	430		19	8.8	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Lead	2100	B	6.2	1.3	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Molybdenum	2.6	J	6.2	0.80	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Nickel	44		6.2	0.63	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Selenium	ND		12	1.9	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Silver	1.2	J	3.1	0.63	mg/Kg		01/31/19 08:59	02/13/19 14:40	20
Thallium	ND		6.2	1.8	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Vanadium	36		6.2	0.84	mg/Kg		01/31/19 08:59	02/08/19 19:09	20
Zinc	2100		19	7.9	mg/Kg		01/31/19 08:59	02/08/19 19:09	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.015	0.0022	mg/Kg		02/12/19 14:36	02/12/19 19:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.9		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AX8S-3.5-4

Date Collected: 01/30/19 10:50
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	21		1.4	0.22	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Arsenic	19		2.7	0.23	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Barium	3800		1.4	0.19	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Beryllium	0.30		0.27	0.088	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Cadmium	2.8		0.34	0.034	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Chromium	36		1.4	0.14	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Cobalt	4.5		0.54	0.054	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Copper	250		4.1	1.9	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Lead	18000	B	6.8	1.4	mg/Kg		01/31/19 08:59	02/11/19 19:24	20
Molybdenum	0.56	J	1.4	0.17	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Nickel	21		1.4	0.14	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Selenium	0.71	J	2.7	0.41	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Silver	2.7	J	3.4	0.68	mg/Kg		01/31/19 08:59	02/13/19 14:44	20
Thallium	ND		1.4	0.39	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Vanadium	16		1.4	0.18	mg/Kg		01/31/19 08:59	02/08/19 19:14	4
Zinc	7600		20	8.6	mg/Kg		01/31/19 08:59	02/11/19 19:24	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.9		0.15	0.023	mg/Kg		02/12/19 14:36	02/12/19 19:41	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AW9S-0.5-1
Lab Sample ID: 720-91087-17
Date Collected: 01/30/19 11:15
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		3.7	0.61	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Arsenic	24		7.4	0.63	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Barium	1100		3.7	0.53	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Beryllium	0.54	J	0.74	0.24	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Cadmium	3.4		0.93	0.092	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Chromium	89		3.7	0.39	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Cobalt	13		1.5	0.15	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Copper	780		11	5.3	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Lead	1900	B	3.7	0.78	mg/Kg		01/31/19 08:59	02/11/19 19:29	10
Molybdenum	ND		3.7	0.47	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Nickel	64		3.7	0.38	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Selenium	1.9	J	7.4	1.1	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Silver	6.3		1.9	0.37	mg/Kg		01/31/19 08:59	02/13/19 14:49	10
Thallium	ND		3.7	1.1	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Vanadium	55		3.7	0.50	mg/Kg		01/31/19 08:59	02/08/19 19:19	10
Zinc	2100		11	4.7	mg/Kg		01/31/19 08:59	02/08/19 19:19	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.7		0.063	0.0092	mg/Kg		02/12/19 14:36	02/12/19 19:44	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.0		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AW9S-3.5-4
Lab Sample ID: 720-91087-18
Date Collected: 01/30/19 11:15
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	11	F1 F2	4.2	0.70	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Arsenic	11	F1	8.4	0.71	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Barium	130	F1 B	4.2	0.60	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Beryllium	1.1	F1	0.84	0.27	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Cadmium	3.5		1.1	0.10	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Chromium	45	F1 B	4.2	0.45	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Cobalt	6.3		1.7	0.17	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Copper	890		13	6.0	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Lead	3400	B F2	4.2	0.88	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Molybdenum	1.2	J	4.2	0.54	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Nickel	36	F1 B	4.2	0.43	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Selenium	2.6	J B	8.4	1.3	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Silver	4.0		2.1	0.42	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Thallium	ND		4.2	1.2	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Vanadium	31	F1	4.2	0.57	mg/Kg		02/06/19 08:46	02/11/19 10:17	10
Zinc	2400		13	5.3	mg/Kg		02/06/19 08:46	02/11/19 10:17	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.16	0.024	mg/Kg		02/12/19 15:42	02/13/19 14:40	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.1		0.1	0.05	%			01/31/19 13:53	1

Client Sample ID: DG-AU9S-0.5-1 Lab Sample ID: 720-91087-19

Date Collected: 01/30/19 13:00 **Matrix: Solid**
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20		1.9	0.31	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Arsenic	19		3.7	0.32	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Barium	190		1.9	0.27	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Beryllium	0.17	J	0.37	0.12	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Cadmium	20		0.47	0.046	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Chromium	43		1.9	0.20	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Cobalt	6.6		0.75	0.075	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Copper	3700		5.6	2.7	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Lead	3500	B	1.9	0.39	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Molybdenum	1.6	J	1.9	0.24	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Nickel	57		1.9	0.19	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Selenium	1.9	J	3.7	0.56	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Silver	3.8		0.93	0.19	mg/Kg		01/31/19 08:59	02/13/19 14:54	4
Thallium	0.74	J	1.9	0.54	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Vanadium	22		1.9	0.25	mg/Kg		01/31/19 08:59	02/08/19 19:23	4
Zinc	4200		5.6	2.4	mg/Kg		01/31/19 08:59	02/08/19 19:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.0		0.063	0.0092	mg/Kg		02/12/19 14:36	02/12/19 19:46	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.7		0.1	0.05	%			01/31/19 13:53	1

Client Sample ID: DG-AU9S-3.5-4 Lab Sample ID: 720-91087-20

Date Collected: 01/30/19 13:00 **Matrix: Solid**
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	140		7.6	1.3	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Arsenic	37		15	1.3	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Barium	360		7.6	1.1	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Beryllium	0.51	J	1.5	0.50	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Cadmium	7.8		1.9	0.19	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Chromium	110		7.6	0.81	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Cobalt	14		3.1	0.31	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Copper	2100		23	11	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Lead	9200	B	7.6	1.6	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Molybdenum	1.9	J	7.6	0.98	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Nickel	130		7.6	0.78	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Selenium	7.9	J	15	2.3	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Silver	34		3.8	0.77	mg/Kg		01/31/19 08:59	02/13/19 14:59	20
Thallium	ND		7.6	2.2	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Vanadium	40		7.6	1.0	mg/Kg		01/31/19 08:59	02/08/19 19:28	20
Zinc	7000		23	9.7	mg/Kg		01/31/19 08:59	02/08/19 19:28	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.6		0.067	0.0098	mg/Kg		02/12/19 14:36	02/12/19 19:48	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.1		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AU10S-0.5-1

Date Collected: 01/30/19 13:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-21

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	46		3.6	0.60	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Arsenic	29		7.2	0.61	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Barium	970		1.4	0.20	mg/Kg		01/31/19 10:54	02/11/19 17:02	4
Beryllium	0.46		0.29	0.094	mg/Kg		01/31/19 10:54	02/11/19 17:02	4
Cadmium	4.8		0.90	0.089	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Chromium	69	B	3.6	0.38	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Cobalt	14		1.4	0.14	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Copper	1000		11	5.1	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Lead	4800	B	3.6	0.76	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Molybdenum	1.1	J	1.4	0.18	mg/Kg		01/31/19 10:54	02/11/19 17:02	4
Nickel	110		3.6	0.37	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Selenium	2.0	J B	7.2	1.1	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Silver	5.7		1.8	0.36	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Thallium	1.1	J	3.6	1.0	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Vanadium	39		3.6	0.49	mg/Kg		01/31/19 10:54	02/13/19 14:27	10
Zinc	3000		11	4.6	mg/Kg		01/31/19 10:54	02/13/19 14:27	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.90		0.017	0.0025	mg/Kg		02/12/19 15:02	02/13/19 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.6		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AU10S-3.5-4
Lab Sample ID: 720-91087-22
Date Collected: 01/30/19 13:20
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	61		4.5	0.75	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Arsenic	100		9.1	0.77	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Barium	1700		4.5	0.65	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Beryllium	0.36	J	0.91	0.30	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Cadmium	4.3		1.1	0.11	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Chromium	130		4.5	0.48	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Cobalt	40		1.8	0.18	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Copper	2300		14	6.5	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Lead	6900	B	4.5	0.95	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Molybdenum	2.4	J	4.5	0.58	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Nickel	290		4.5	0.46	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Selenium	8.0	J	9.1	1.4	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Silver	5.5		2.3	0.46	mg/Kg		01/31/19 08:59	02/13/19 15:04	10
Thallium	2.6	J	4.5	1.3	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Vanadium	23		4.5	0.62	mg/Kg		01/31/19 08:59	02/08/19 19:33	10
Zinc	5100		14	5.8	mg/Kg		01/31/19 08:59	02/08/19 19:33	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.54		0.016	0.0023	mg/Kg		02/12/19 14:36	02/12/19 19:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DUP-59

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	13		6.1	1.0	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Arsenic	6.5	J	12	1.0	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Barium	690	B	3.1	0.44	mg/Kg		02/06/19 08:46	02/11/19 10:22	10
Beryllium	0.49	J	0.61	0.20	mg/Kg		02/06/19 08:46	02/11/19 10:22	10
Cadmium	2.2		1.5	0.15	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Chromium	19	B	6.1	0.65	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Cobalt	3.8		2.5	0.25	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Copper	420		18	8.7	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Lead	1600	B	6.1	1.3	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Molybdenum	1.1	J	3.1	0.39	mg/Kg		02/06/19 08:46	02/11/19 10:22	10
Nickel	24	B	6.1	0.63	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Selenium	5.0	J B	12	1.8	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Silver	2.4	J	3.1	0.62	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Thallium	2.3	J	6.1	1.8	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Vanadium	8.2		6.1	0.83	mg/Kg		02/06/19 08:46	02/12/19 18:26	20
Zinc	1300		18	7.8	mg/Kg		02/06/19 08:46	02/12/19 18:26	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.015	0.0022	mg/Kg		02/12/19 15:42	02/13/19 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.9		0.1	0.05	%			01/31/19 13:53	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-66
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-24
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	13		1.4	0.23	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Arsenic	10		2.7	0.23	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Barium	340	B	1.4	0.19	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Beryllium	0.24	J	0.27	0.089	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Cadmium	1.5		0.34	0.034	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Chromium	52	B	1.4	0.15	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Cobalt	12		0.55	0.055	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Copper	270		4.1	2.0	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Lead	1100	B	1.4	0.29	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Molybdenum	0.89	J	1.4	0.18	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Nickel	36	B	1.4	0.14	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Selenium	2.0	J B	2.7	0.41	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Silver	1.8		0.68	0.14	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Thallium	ND		1.4	0.40	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Vanadium	60		1.4	0.19	mg/Kg		02/06/19 08:46	02/11/19 10:27	4
Zinc	920		4.1	1.7	mg/Kg		02/06/19 08:46	02/11/19 10:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.47		0.015	0.0022	mg/Kg		02/12/19 15:42	02/13/19 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.5		0.1	0.05	%			02/01/19 10:02	1

Client Sample ID: DG-AT10S-0.5-1 Lab Sample ID: 720-91087-25

Date Collected: 01/30/19 13:40 **Matrix: Solid**
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	15		3.6	0.61	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Arsenic	140		7.3	0.62	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Barium	380	B	1.5	0.21	mg/Kg		02/06/19 08:46	02/11/19 10:32	4
Beryllium	0.26	J	0.29	0.095	mg/Kg		02/06/19 08:46	02/11/19 10:32	4
Cadmium	2.2		0.91	0.091	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Chromium	55	B	3.6	0.39	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Cobalt	19		1.5	0.15	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Copper	400		11	5.2	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Lead	1400	B	3.6	0.77	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Molybdenum	1.3	J	1.5	0.19	mg/Kg		02/06/19 08:46	02/11/19 10:32	4
Nickel	64	B	3.6	0.37	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Selenium	ND		7.3	1.1	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Silver	1.0	J	1.8	0.37	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Thallium	1.2	J	3.6	1.1	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Vanadium	55		3.6	0.50	mg/Kg		02/06/19 08:46	02/12/19 18:31	10
Zinc	720		11	4.6	mg/Kg		02/06/19 08:46	02/12/19 18:31	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.83		0.015	0.0023	mg/Kg		02/12/19 15:42	02/13/19 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AT10S-3.5-4
Lab Sample ID: 720-91087-26

Date Collected: 01/30/19 13:40
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	82		4.5	0.75	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Arsenic	31		9.1	0.77	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Barium	2100	B	1.8	0.26	mg/Kg		02/06/19 08:46	02/11/19 10:46	4
Beryllium	ND		0.91	0.30	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Cadmium	7.9		1.1	0.11	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Chromium	230	B	4.5	0.48	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Cobalt	15		1.8	0.18	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Copper	3000		14	6.5	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Lead	12000	B	4.5	0.95	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Molybdenum	1.0	J	1.8	0.23	mg/Kg		02/06/19 08:46	02/11/19 10:46	4
Nickel	100	B	4.5	0.46	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Selenium	5.9	J B	9.1	1.4	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Silver	9.0		2.3	0.46	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Thallium	3.9	J	4.5	1.3	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Vanadium	46		4.5	0.62	mg/Kg		02/06/19 08:46	02/12/19 18:35	10
Zinc	4900		14	5.8	mg/Kg		02/06/19 08:46	02/12/19 18:35	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.9		0.064	0.0094	mg/Kg		02/12/19 15:42	02/13/19 14:44	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.3		0.1	0.05	%			02/01/19 10:02	1

Client Sample ID: DG-AR11S-0.5-1 Lab Sample ID: 720-91087-27

Date Collected: 01/30/19 13:50 **Matrix: Solid**
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		1.6	0.27	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Arsenic	24		3.3	0.28	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Barium	1000	B	1.6	0.23	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Beryllium	0.33		0.33	0.11	mg/Kg		02/06/19 08:46	02/12/19 18:40	4
Cadmium	2.8		0.41	0.040	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Chromium	160	B	1.6	0.17	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Cobalt	13		0.65	0.065	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Copper	770		4.9	2.3	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Lead	1600	B	1.6	0.34	mg/Kg		02/06/19 08:46	02/12/19 18:40	4
Molybdenum	0.94	J	1.6	0.21	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Nickel	58	B	1.6	0.17	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Selenium	2.6	J B	3.3	0.49	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Silver	2.7		0.81	0.16	mg/Kg		02/06/19 08:46	02/12/19 18:40	4
Thallium	0.73	J	1.6	0.47	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Vanadium	47		1.6	0.22	mg/Kg		02/06/19 08:46	02/11/19 10:51	4
Zinc	1700		4.9	2.1	mg/Kg		02/06/19 08:46	02/11/19 10:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.016	0.0023	mg/Kg		02/12/19 15:42	02/13/19 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.3		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AR11S-3.5-4
Lab Sample ID: 720-91087-28
Date Collected: 01/30/19 13:50
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	200		4.6	0.77	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Arsenic	15		9.3	0.79	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Barium	1500	B	1.9	0.26	mg/Kg		02/06/19 08:46	02/11/19 10:56	4
Beryllium	ND		0.93	0.30	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Cadmium	7.7		1.2	0.11	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Chromium	2600	B	4.6	0.49	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Cobalt	15		1.9	0.19	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Copper	1500		14	6.6	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Lead	4000	B	4.6	0.97	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Molybdenum	1.5	J	1.9	0.24	mg/Kg		02/06/19 08:46	02/11/19 10:56	4
Nickel	88	B	4.6	0.47	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Selenium	6.4	J B	9.3	1.4	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Silver	5.8		2.3	0.47	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Thallium	ND		4.6	1.3	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Vanadium	41		4.6	0.63	mg/Kg		02/06/19 08:46	02/12/19 18:45	10
Zinc	4400		14	5.9	mg/Kg		02/06/19 08:46	02/12/19 18:45	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.8		0.057	0.0085	mg/Kg		02/12/19 15:42	02/13/19 14:47	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AQ9S-0.5-1

Date Collected: 01/30/19 14:05
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.4		1.9	0.32	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Arsenic	7.2		3.9	0.33	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Barium	72	B	1.9	0.28	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Beryllium	ND		0.39	0.13	mg/Kg		02/06/19 08:46	02/12/19 18:50	4
Cadmium	0.68		0.49	0.048	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Chromium	32	B	1.9	0.21	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Cobalt	10		0.78	0.078	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Copper	140		5.8	2.8	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Lead	200	B ^	1.9	0.41	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Molybdenum	1.4	J	1.9	0.25	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Nickel	24	B	1.9	0.20	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Selenium	0.80	J B	3.9	0.58	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Silver	ND	^	0.97	0.20	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Thallium	1.3	J	1.9	0.56	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Vanadium	110		1.9	0.26	mg/Kg		02/06/19 08:46	02/11/19 11:01	4
Zinc	410		5.8	2.5	mg/Kg		02/06/19 08:46	02/11/19 11:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.015	0.0022	mg/Kg		02/12/19 15:42	02/13/19 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.0		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AQ9S-3.5-4
Lab Sample ID: 720-91087-30
Date Collected: 01/30/19 14:05
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.2	0.20	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Arsenic	ND		2.4	0.20	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Barium	**28**	**B**	1.2	0.17	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Beryllium	ND		0.24	0.077	mg/Kg		02/06/19 08:46	02/12/19 18:54	4
Cadmium	**0.14**	**J**	0.30	0.030	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Chromium	**9.3**	**B**	1.2	0.13	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Cobalt	**11**		0.48	0.048	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Copper	**130**		3.6	1.7	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Lead	**1.4**	**B**	1.2	0.25	mg/Kg		02/06/19 08:46	02/12/19 18:54	4
Molybdenum	ND		1.2	0.15	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Nickel	**5.3**	**B**	1.2	0.12	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Selenium	ND		2.4	0.36	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Silver	ND		0.60	0.12	mg/Kg		02/06/19 08:46	02/12/19 18:54	4
Thallium	**1.6**		1.2	0.35	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Vanadium	**120**		1.2	0.16	mg/Kg		02/06/19 08:46	02/11/19 11:06	4
Zinc	**36**		3.6	1.5	mg/Kg		02/06/19 08:46	02/11/19 11:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.017	0.0025	mg/Kg		02/12/19 15:42	02/13/19 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.4**		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AO9S-0.5-1
Lab Sample ID: 720-91087-31
Date Collected: 01/30/19 14:30
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.4		1.5	0.25	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Arsenic	6.2		3.0	0.26	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Barium	120	B	1.5	0.22	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Beryllium	ND		0.30	0.098	mg/Kg		02/06/19 08:46	02/12/19 18:59	4
Cadmium	1.8		0.38	0.038	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Chromium	150	B	1.5	0.16	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Cobalt	13		0.61	0.061	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Copper	210		4.5	2.2	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Lead	220	B ^	1.5	0.32	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Molybdenum	1.4	J	1.5	0.19	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Nickel	84	B	1.5	0.15	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Selenium	2.2	J B	3.0	0.45	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Silver	ND		0.76	0.15	mg/Kg		02/06/19 08:46	02/12/19 18:59	4
Thallium	0.74	J	1.5	0.44	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Vanadium	44		1.5	0.21	mg/Kg		02/06/19 08:46	02/11/19 11:10	4
Zinc	460		4.5	1.9	mg/Kg		02/06/19 08:46	02/11/19 11:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.94		0.014	0.0021	mg/Kg		02/12/19 15:42	02/13/19 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AO9S-3.5-4

Date Collected: 01/30/19 14:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0		1.1	0.18	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Arsenic	26		2.1	0.18	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Barium	190	B	1.1	0.15	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Beryllium	ND		0.21	0.070	mg/Kg		02/06/19 08:46	02/12/19 19:04	4
Cadmium	0.80		0.27	0.027	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Chromium	22	B	1.1	0.11	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Cobalt	18		0.43	0.043	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Copper	280		3.2	1.5	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Lead	240	B ^	1.1	0.22	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Molybdenum	0.59	J	1.1	0.14	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Nickel	75	B	1.1	0.11	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Selenium	2.4	B	2.1	0.32	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Silver	0.28	J	0.53	0.11	mg/Kg		02/06/19 08:46	02/12/19 19:04	4
Thallium	0.57	J	1.1	0.31	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Vanadium	39		1.1	0.15	mg/Kg		02/06/19 08:46	02/11/19 11:15	4
Zinc	620		3.2	1.4	mg/Kg		02/06/19 08:46	02/11/19 11:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.016	0.0023	mg/Kg		02/12/19 15:42	02/13/19 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AM9S-0.5-1
Date Collected: 01/30/19 14:45
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-33
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.1		1.3	0.21	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Arsenic	16		2.5	0.22	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Barium	220	B	1.3	0.18	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Beryllium	ND		0.25	0.083	mg/Kg		02/06/19 08:46	02/12/19 19:08	4
Cadmium	3.9		0.32	0.032	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Chromium	71	B	1.3	0.14	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Cobalt	14		0.51	0.051	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Copper	490		3.8	1.8	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Lead	680	B ^	1.3	0.27	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Molybdenum	6.0		1.3	0.16	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Nickel	130	B	1.3	0.13	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Selenium	3.8	B	2.5	0.38	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Silver	0.42	J	0.64	0.13	mg/Kg		02/06/19 08:46	02/12/19 19:08	4
Thallium	0.82	J	1.3	0.37	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Vanadium	38		1.3	0.17	mg/Kg		02/06/19 08:46	02/11/19 11:20	4
Zinc	1300		3.8	1.6	mg/Kg		02/06/19 08:46	02/11/19 11:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.015	0.0021	mg/Kg		02/12/19 15:42	02/13/19 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DUP-72

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-34

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	67		19	3.2	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Arsenic	47		39	3.3	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Barium	1200	B	1.6	0.22	mg/Kg		02/06/19 08:46	02/11/19 11:25	4
Beryllium	ND		3.9	1.3	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Cadmium	4.8		4.8	0.48	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Chromium	160	B	19	2.1	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Cobalt	41		7.8	0.78	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Copper	2700		58	28	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Lead	8500	B	19	4.1	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Molybdenum	1.2	J	1.6	0.20	mg/Kg		02/06/19 08:46	02/11/19 11:25	4
Nickel	310	B	19	2.0	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Selenium	12	J B	39	5.8	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Silver	7.2	J	9.7	2.0	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Thallium	9.5	J	19	5.6	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Vanadium	31		19	2.6	mg/Kg		02/06/19 08:46	02/12/19 19:23	50
Zinc	4700		58	25	mg/Kg		02/06/19 08:46	02/12/19 19:23	50

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.014	0.0021	mg/Kg		02/12/19 15:42	02/13/19 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AM9S-3.5-4

Date Collected: 01/30/19 14:45
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	34		16	2.6	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Arsenic	24	J	32	2.7	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Barium	1300	B	1.3	0.18	mg/Kg		02/06/19 08:46	02/11/19 11:30	4
Beryllium	ND		3.2	1.0	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Cadmium	3.1	J	4.0	0.39	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Chromium	58	B	16	1.7	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Cobalt	14		6.3	0.63	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Copper	630		47	23	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Lead	4300	B	16	3.3	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Molybdenum	0.79	J	1.3	0.16	mg/Kg		02/06/19 08:46	02/11/19 11:30	4
Nickel	49	B	16	1.6	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Selenium	ND		32	4.7	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Silver	5.4	J	7.9	1.6	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Thallium	ND		16	4.6	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Vanadium	37		16	2.2	mg/Kg		02/06/19 08:46	02/12/19 19:28	50
Zinc	2400		47	20	mg/Kg		02/06/19 08:46	02/12/19 19:28	50

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.5		0.068	0.010	mg/Kg		02/12/19 15:42	02/13/19 14:55	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.6		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AK9S-0.5-1

Lab Sample ID: 720-91087-36

Date Collected: 01/30/19 15:10

Matrix: Solid

Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.4		1.6	0.27	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Arsenic	15		3.3	0.28	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Barium	220	B	1.6	0.23	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Beryllium	ND		0.33	0.11	mg/Kg		02/06/19 08:46	02/12/19 19:32	4
Cadmium	2.4		0.41	0.040	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Chromium	52	B	1.6	0.17	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Cobalt	8.2		0.65	0.065	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Copper	230		4.9	2.3	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Lead	390	B ^	1.6	0.34	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Molybdenum	1.9		1.6	0.21	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Nickel	51	B	1.6	0.17	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Selenium	2.1	J B	3.3	0.49	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Silver	0.27	J	0.81	0.16	mg/Kg		02/06/19 08:46	02/12/19 19:32	4
Thallium	0.51	J	1.6	0.47	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Vanadium	35		1.6	0.22	mg/Kg		02/06/19 08:46	02/11/19 11:45	4
Zinc	620		4.9	2.1	mg/Kg		02/06/19 08:46	02/11/19 11:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.64		0.017	0.0025	mg/Kg		02/12/19 15:42	02/13/19 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AK9S-3.5-4

Date Collected: 01/30/19 15:10
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.6	0.27	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Arsenic	6.7		3.2	0.27	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Barium	79	B	1.6	0.23	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Beryllium	ND		0.32	0.10	mg/Kg		02/06/19 08:46	02/12/19 19:37	4
Cadmium	0.15	J	0.40	0.040	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Chromium	16	B	1.6	0.17	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Cobalt	4.6		0.65	0.065	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Copper	22		4.8	2.3	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Lead	170	B ^	1.6	0.34	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Molybdenum	0.73	J	1.6	0.21	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Nickel	19	B	1.6	0.16	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Selenium	ND		3.2	0.48	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Silver	ND	^	0.81	0.16	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Thallium	ND		1.6	0.47	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Vanadium	27		1.6	0.22	mg/Kg		02/06/19 08:46	02/11/19 11:49	4
Zinc	70		4.8	2.0	mg/Kg		02/06/19 08:46	02/11/19 11:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.016	0.0024	mg/Kg		02/12/19 15:42	02/13/19 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.4		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AJ8S-0.5-1

Date Collected: 01/30/19 15:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-38

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.1		2.8	0.47	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Arsenic	13		5.6	0.48	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Barium	140	B	1.1	0.16	mg/Kg		02/06/19 08:46	02/11/19 11:54	4
Beryllium	ND		0.56	0.18	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Cadmium	6.3		0.70	0.070	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Chromium	45	B	2.8	0.30	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Cobalt	18		1.1	0.11	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Copper	330		8.4	4.0	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Lead	460	B	2.8	0.59	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Molybdenum	3.9		1.1	0.14	mg/Kg		02/06/19 08:46	02/11/19 11:54	4
Nickel	46	B	2.8	0.29	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Selenium	1.3	J B	5.6	0.84	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Silver	0.41	J	1.4	0.28	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Thallium	ND		2.8	0.81	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Vanadium	91		2.8	0.38	mg/Kg		02/06/19 08:46	02/12/19 19:42	10
Zinc	650		8.4	3.6	mg/Kg		02/06/19 08:46	02/12/19 19:42	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.017	0.0025	mg/Kg		02/12/19 15:42	02/13/19 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AJ8S-3.5-4
Lab Sample ID: 720-91087-39
Date Collected: 01/30/19 15:40
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.7	0.29	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Arsenic	4.0		3.4	0.29	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Barium	61	B	1.7	0.24	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Beryllium	ND		0.34	0.11	mg/Kg		02/06/19 08:46	02/12/19 19:47	4
Cadmium	0.053	J	0.43	0.043	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Chromium	23	B	1.7	0.18	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Cobalt	6.2		0.69	0.069	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Copper	21		5.2	2.5	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Lead	25	B ^	1.7	0.36	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Molybdenum	0.37	J	1.7	0.22	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Nickel	24	B	1.7	0.18	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Selenium	ND		3.4	0.52	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Silver	ND	^	0.86	0.17	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Thallium	ND		1.7	0.50	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Vanadium	33		1.7	0.23	mg/Kg		02/06/19 08:46	02/11/19 11:59	4
Zinc	40		5.2	2.2	mg/Kg		02/06/19 08:46	02/11/19 11:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.015	0.0022	mg/Kg		02/12/19 15:42	02/13/19 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.8		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AI9S-0.5-1

Date Collected: 01/30/19 15:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-40

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.3		1.6	0.27	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Arsenic	8.8		3.3	0.28	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Barium	110	B	1.6	0.23	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Beryllium	ND		0.33	0.11	mg/Kg		02/06/19 08:46	02/12/19 19:51	4
Cadmium	1.1		0.41	0.041	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Chromium	46	B	1.6	0.17	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Cobalt	9.4		0.66	0.066	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Copper	210		4.9	2.3	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Lead	430	B ^	1.6	0.34	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Molybdenum	2.1		1.6	0.21	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Nickel	66	B	1.6	0.17	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Selenium	1.7	J B	3.3	0.49	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Silver	ND		0.82	0.17	mg/Kg		02/06/19 08:46	02/12/19 19:51	4
Thallium	ND		1.6	0.48	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Vanadium	44		1.6	0.22	mg/Kg		02/06/19 08:46	02/11/19 12:04	4
Zinc	420		4.9	2.1	mg/Kg		02/06/19 08:46	02/11/19 12:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.015	0.0021	mg/Kg		02/12/19 15:42	02/13/19 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.05	%			02/01/19 10:02	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AI9S-3.5-4

Date Collected: 01/30/19 15:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-41

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.71	J	1.2	0.20	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Arsenic	4.6		2.5	0.21	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Barium	71	B	1.2	0.17	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Beryllium	ND		0.25	0.080	mg/Kg		02/06/19 08:46	02/12/19 19:56	4
Cadmium	0.12	J	0.31	0.030	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Chromium	16	B	1.2	0.13	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Cobalt	5.1		0.49	0.049	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Copper	22		3.7	1.7	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Lead	54	B ^	1.2	0.26	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Molybdenum	0.49	J	1.2	0.16	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Nickel	18	B	1.2	0.13	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Selenium	0.51	J B	2.5	0.37	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Silver	ND	^	0.61	0.12	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Thallium	ND		1.2	0.36	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Vanadium	30		1.2	0.17	mg/Kg		02/06/19 08:46	02/11/19 12:08	4
Zinc	87		3.7	1.6	mg/Kg		02/06/19 08:46	02/11/19 12:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.016	0.0023	mg/Kg		02/12/19 15:42	02/13/19 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.0		0.1	0.05	%			02/01/19 11:32	1

Client Sample ID: DG-AI8S-0.5-1 Lab Sample ID: 720-91087-42

Date Collected: 01/30/19 15:50 **Matrix: Solid**
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.19	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Arsenic	**4.3**		2.3	0.20	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Barium	**76**		1.1	0.16	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Beryllium	**0.22**	**J**	0.23	0.075	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Cadmium	**0.10**	**J**	0.29	0.029	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Chromium	**20**	**B**	1.1	0.12	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Cobalt	**5.3**		0.46	0.046	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Copper	**21**		3.4	1.6	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Lead	**46**	**B**	1.1	0.24	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Molybdenum	ND		1.1	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Nickel	**19**		1.1	0.12	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Selenium	**0.71**	**J B**	2.3	0.34	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Silver	ND		0.57	0.12	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Thallium	ND		1.1	0.33	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Vanadium	**32**		1.1	0.16	mg/Kg		01/31/19 10:54	02/11/19 17:06	4
Zinc	**62**		3.4	1.5	mg/Kg		01/31/19 10:54	02/11/19 17:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.015	0.0022	mg/Kg		02/12/19 15:02	02/13/19 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.8**		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AI8S-3.5-4

Date Collected: 01/30/19 15:50
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-43

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.19	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Arsenic	**4.9**		2.2	0.19	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Barium	**160**		1.1	0.16	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Beryllium	**0.35**		0.22	0.073	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Cadmium	**0.098**	**J**	0.28	0.028	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Chromium	**14**	**B**	1.1	0.12	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Cobalt	**7.4**		0.45	0.045	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Copper	**34**		3.4	1.6	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Lead	**94**	**B**	1.1	0.23	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Molybdenum	**0.35**	**J**	1.1	0.14	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Nickel	**15**		1.1	0.11	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Selenium	ND		2.2	0.34	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Silver	ND		0.56	0.11	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Thallium	ND		1.1	0.32	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Vanadium	**68**		1.1	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:11	4
Zinc	**86**		3.4	1.4	mg/Kg		01/31/19 10:54	02/11/19 17:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.36**		0.017	0.0025	mg/Kg		02/12/19 15:02	02/13/19 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.9**		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AH8S-0.5-1

Lab Sample ID: 720-91087-44

Date Collected: 01/30/19 16:00
Matrix: Solid
Date Received: 01/30/19 18:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.2	0.20	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Arsenic	1.6	J	2.4	0.20	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Barium	49		1.2	0.17	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Beryllium	0.40		0.24	0.078	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Cadmium	0.15	J	0.30	0.030	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Chromium	11	B	1.2	0.13	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Cobalt	13		0.48	0.048	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Copper	150		3.6	1.7	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Lead	27	B	1.2	0.25	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Molybdenum	ND		1.2	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Nickel	11		1.2	0.12	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Selenium	ND		2.4	0.36	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Silver	ND		0.60	0.12	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Thallium	ND		1.2	0.35	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Vanadium	100		1.2	0.16	mg/Kg		01/31/19 10:54	02/11/19 17:16	4
Zinc	86		3.6	1.5	mg/Kg		01/31/19 10:54	02/11/19 17:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.082		0.015	0.0021	mg/Kg		02/12/19 15:02	02/13/19 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AH8S-3.5-4

Date Collected: 01/30/19 16:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-45

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.17	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Arsenic	**3.7**		2.1	0.17	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Barium	**52**		1.0	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Beryllium	**0.17**	**J**	0.21	0.067	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Cadmium	**0.15**	**J**	0.26	0.025	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Chromium	**14**	**B**	1.0	0.11	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Cobalt	**5.1**		0.41	0.041	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Copper	**12**		3.1	1.5	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Lead	**8.9**	**B**	1.0	0.22	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Molybdenum	**0.26**	**J**	1.0	0.13	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Nickel	**15**		1.0	0.10	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Selenium	**0.31**	**J B**	2.1	0.31	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Silver	ND		0.51	0.10	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Thallium	ND		1.0	0.30	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Vanadium	**28**		1.0	0.14	mg/Kg		01/31/19 10:54	02/11/19 17:30	4
Zinc	**27**		3.1	1.3	mg/Kg		01/31/19 10:54	02/11/19 17:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.016	0.0023	mg/Kg		02/12/19 15:02	02/13/19 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.05	%			02/01/19 11:32	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DUP-60

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91087-46

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.0	0.17	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Arsenic	6.7		2.0	0.17	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Barium	120		1.0	0.14	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Beryllium	0.73		0.20	0.066	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Cadmium	0.099	J	0.26	0.025	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Chromium	61	B	1.0	0.11	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Cobalt	9.6		0.41	0.041	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Copper	47		3.1	1.5	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Lead	39	B	1.0	0.21	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Molybdenum	ND		1.0	0.13	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Nickel	30		1.0	0.10	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Selenium	ND		2.0	0.31	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Silver	ND		0.51	0.10	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Thallium	ND		1.0	0.30	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Vanadium	53		1.0	0.14	mg/Kg		01/31/19 10:54	02/11/19 17:35	4
Zinc	110		3.1	1.3	mg/Kg		01/31/19 10:54	02/11/19 17:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.015	0.0022	mg/Kg		02/12/19 15:02	02/13/19 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.4		0.1	0.05	%			02/01/19 11:32	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259537/1-A
Matrix: Solid
Analysis Batch: 260108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Arsenic	ND		1.0	0.085	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Barium	ND		0.50	0.071	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Beryllium	ND		0.10	0.033	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Cadmium	ND		0.13	0.012	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Chromium	ND		0.50	0.053	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Cobalt	ND		0.20	0.020	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Copper	ND		1.5	0.71	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Lead	0.405	J	0.50	0.11	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Nickel	ND		0.50	0.051	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Selenium	ND		1.0	0.15	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Silver	ND		0.25	0.051	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Thallium	ND		0.50	0.15	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Vanadium	ND		0.50	0.068	mg/Kg		01/31/19 08:59	02/08/19 17:14	1
Zinc	ND		1.5	0.64	mg/Kg		01/31/19 08:59	02/08/19 17:14	1

Lab Sample ID: LCS 720-259537/2-A
Matrix: Solid
Analysis Batch: 260108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	54.6		mg/Kg		109	80 - 120
Arsenic	50.0	54.4		mg/Kg		109	80 - 120
Barium	50.0	56.3		mg/Kg		113	80 - 120
Beryllium	50.0	55.4		mg/Kg		111	80 - 120
Cadmium	50.0	55.0		mg/Kg		110	80 - 120
Chromium	50.0	55.8		mg/Kg		112	80 - 120
Cobalt	50.0	56.1		mg/Kg		112	80 - 120
Copper	50.0	55.8		mg/Kg		112	80 - 120
Lead	50.0	56.5		mg/Kg		113	80 - 120
Molybdenum	50.0	55.0		mg/Kg		110	80 - 120
Nickel	50.0	55.5		mg/Kg		111	80 - 120
Selenium	50.0	53.4		mg/Kg		107	80 - 120
Silver	25.0	20.1		mg/Kg		80	80 - 120
Thallium	50.0	55.5		mg/Kg		111	80 - 120
Vanadium	50.0	56.3		mg/Kg		113	80 - 120
Zinc	50.0	55.3		mg/Kg		111	80 - 120

Lab Sample ID: 720-91087-7 MS
Matrix: Solid
Analysis Batch: 260108

Client Sample ID: DG-AO8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259537

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.3	J F1	39.7	16.8	F1	mg/Kg		39	75 - 125
Arsenic	14		39.7	52.8		mg/Kg		98	75 - 125
Barium	100	F1	39.7	105	F1	mg/Kg		14	75 - 125
Beryllium	0.16	J	39.7	40.3		mg/Kg		101	75 - 125
Cadmium	2.5		39.7	42.6		mg/Kg		101	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91087-7 MS **Client Sample ID: DG-AO8S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260108 **Prep Batch: 259537**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	15		39.7	56.0		mg/Kg		103	75 - 125
Cobalt	4.7		39.7	45.6		mg/Kg		103	75 - 125
Copper	1800		39.7	1580	4	mg/Kg		-642	75 - 125
Lead	72	B F1 F2	39.7	108		mg/Kg		90	75 - 125
Molybdenum	0.26	J	39.7	38.6		mg/Kg		97	75 - 125
Nickel	15		39.7	55.0		mg/Kg		101	75 - 125
Selenium	ND		39.7	40.0		mg/Kg		101	75 - 125
Silver	0.20	J F1	19.8	15.0	F1	mg/Kg		74	75 - 125
Thallium	ND		39.7	40.8		mg/Kg		103	75 - 125
Vanadium	25		39.7	63.8		mg/Kg		98	75 - 125
Zinc	240		39.7	249	4	mg/Kg		30	75 - 125

Lab Sample ID: 720-91087-7 MSD **Client Sample ID: DG-AO8S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260108 **Prep Batch: 259537**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.3	J F1	39.1	17.7	F1	mg/Kg		42	75 - 125	5	20
Arsenic	14		39.1	56.3		mg/Kg		108	75 - 125	6	20
Barium	100	F1	39.1	115	F1	mg/Kg		39	75 - 125	9	20
Beryllium	0.16	J	39.1	39.2		mg/Kg		100	75 - 125	3	20
Cadmium	2.5		39.1	41.5		mg/Kg		100	75 - 125	3	20
Chromium	15		39.1	55.5		mg/Kg		103	75 - 125	1	20
Cobalt	4.7		39.1	45.8		mg/Kg		105	75 - 125	0	20
Copper	1800		39.1	1630	4	mg/Kg		-514	75 - 125	3	20
Lead	72	B F1 F2	39.1	153	F1 F2	mg/Kg		206	75 - 125	34	20
Molybdenum	0.26	J	39.1	38.2		mg/Kg		97	75 - 125	1	20
Nickel	15		39.1	56.2		mg/Kg		106	75 - 125	2	20
Selenium	ND		39.1	39.5		mg/Kg		101	75 - 125	1	20
Silver	0.20	J F1	19.5	15.2		mg/Kg		77	75 - 125	2	20
Thallium	ND		39.1	39.5		mg/Kg		101	75 - 125	3	20
Vanadium	25		39.1	63.4		mg/Kg		99	75 - 125	1	20
Zinc	240		39.1	272	4	mg/Kg		88	75 - 125	9	20

Lab Sample ID: MB 720-259546/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260154 **Prep Batch: 259546**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Arsenic	ND		1.0	0.085	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Barium	0.0950	J	0.50	0.071	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Beryllium	ND		0.10	0.033	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Cadmium	ND		0.13	0.012	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Chromium	0.147	J	0.50	0.053	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Cobalt	ND		0.20	0.020	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Copper	ND		1.5	0.71	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Lead	0.396	J	0.50	0.11	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/06/19 08:46	02/11/19 09:48	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259546/1-A
Matrix: Solid
Analysis Batch: 260154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.0553	J	0.50	0.051	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Selenium	0.260	J	1.0	0.15	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Silver	ND		0.25	0.051	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Thallium	ND		0.50	0.15	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Vanadium	ND		0.50	0.068	mg/Kg		02/06/19 08:46	02/11/19 09:48	1
Zinc	ND		1.5	0.64	mg/Kg		02/06/19 08:46	02/11/19 09:48	1

Lab Sample ID: LCS 720-259546/2-A
Matrix: Solid
Analysis Batch: 260154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.5		mg/Kg		95	80 - 120
Arsenic	50.0	45.4		mg/Kg		91	80 - 120
Barium	50.0	48.2		mg/Kg		96	80 - 120
Beryllium	50.0	51.2		mg/Kg		102	80 - 120
Cadmium	50.0	47.6		mg/Kg		95	80 - 120
Chromium	50.0	47.5		mg/Kg		95	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	50.0	47.3		mg/Kg		95	80 - 120
Lead	50.0	48.5		mg/Kg		97	80 - 120
Molybdenum	50.0	46.9		mg/Kg		94	80 - 120
Nickel	50.0	46.8		mg/Kg		94	80 - 120
Selenium	50.0	44.8		mg/Kg		90	80 - 120
Silver	25.0	22.6		mg/Kg		90	80 - 120
Thallium	50.0	47.9		mg/Kg		96	80 - 120
Vanadium	50.0	48.0		mg/Kg		96	80 - 120
Zinc	50.0	47.2		mg/Kg		94	80 - 120

Lab Sample ID: 720-91087-18 MS
Matrix: Solid
Analysis Batch: 260154

Client Sample ID: DG-AW9S-3.5-4
Prep Type: Total/NA
Prep Batch: 259546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	11	F1 F2	41.3	33.4	F1	mg/Kg		54	75 - 125
Arsenic	11	F1	41.3	61.3		mg/Kg		123	75 - 125
Barium	130	F1 B	41.3	407	F1	mg/Kg		676	75 - 125
Beryllium	1.1	F1	41.3	53.0	F1	mg/Kg		126	75 - 125
Cadmium	3.5		41.3	49.2		mg/Kg		110	75 - 125
Chromium	45	F1 B	41.3	106	F1	mg/Kg		150	75 - 125
Cobalt	6.3		41.3	57.4		mg/Kg		124	75 - 125
Copper	890		41.3	978	4	mg/Kg		213	75 - 125
Lead	3400	B F2	41.3	4530	4	mg/Kg		2821	75 - 125
Molybdenum	1.2	J	41.3	42.7		mg/Kg		100	75 - 125
Nickel	36	F1 B	41.3	99.8	F1	mg/Kg		156	75 - 125
Selenium	2.6	J B	41.3	45.6		mg/Kg		104	75 - 125
Silver	4.0		20.7	27.9		mg/Kg		115	75 - 125
Thallium	ND		41.3	36.9		mg/Kg		89	75 - 125
Vanadium	31	F1	41.3	83.6	F1	mg/Kg		126	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91087-18 MS
Matrix: Solid
Analysis Batch: 260154

Client Sample ID: DG-AW9S-3.5-4
Prep Type: Total/NA
Prep Batch: 259546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	2400		41.3	3170	4	mg/Kg		1768	75 - 125

Lab Sample ID: 720-91087-18 MSD
Matrix: Solid
Analysis Batch: 260154

Client Sample ID: DG-AW9S-3.5-4
Prep Type: Total/NA
Prep Batch: 259546

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	11	F1 F2	40.7	109	F1 F2	mg/Kg		241	75 - 125	106	20
Arsenic	11	F1	40.7	62.1	F1	mg/Kg		127	75 - 125	1	20
Barium	130	F1 B	40.7	393	F1	mg/Kg		652	75 - 125	4	20
Beryllium	1.1	F1	40.7	51.3		mg/Kg		124	75 - 125	3	20
Cadmium	3.5		40.7	49.1		mg/Kg		112	75 - 125	0	20
Chromium	45	F1 B	40.7	101	F1	mg/Kg		140	75 - 125	5	20
Cobalt	6.3		40.7	56.6		mg/Kg		124	75 - 125	2	20
Copper	890		40.7	979	4	mg/Kg		219	75 - 125	0	20
Lead	3400	B F2	40.7	7190	4 F2	mg/Kg		9412	75 - 125	45	20
Molybdenum	1.2	J	40.7	42.7		mg/Kg		102	75 - 125	0	20
Nickel	36	F1 B	40.7	101	F1	mg/Kg		161	75 - 125	1	20
Selenium	2.6	J B	40.7	43.7		mg/Kg		101	75 - 125	4	20
Silver	4.0		20.3	26.9		mg/Kg		112	75 - 125	4	20
Thallium	ND		40.7	36.7		mg/Kg		90	75 - 125	0	20
Vanadium	31	F1	40.7	81.5		mg/Kg		123	75 - 125	3	20
Zinc	2400		40.7	3110	4	mg/Kg		1657	75 - 125	2	20

Lab Sample ID: MB 720-259560/1-A
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Arsenic	ND		1.0	0.085	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Barium	ND		0.50	0.071	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Beryllium	ND		0.10	0.033	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Cadmium	ND		0.13	0.012	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Chromium	0.0547	J	0.50	0.053	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Cobalt	ND		0.20	0.020	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Copper	ND		1.5	0.71	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Lead	0.257	J	0.50	0.11	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Nickel	ND		0.50	0.051	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Selenium	0.153	J	1.0	0.15	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Silver	ND		0.25	0.051	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Thallium	ND		0.50	0.15	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Vanadium	ND		0.50	0.068	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Zinc	ND		1.5	0.64	mg/Kg		01/31/19 10:54	02/11/19 16:33	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259560/2-A
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.7		mg/Kg		99	80 - 120
Arsenic	50.0	49.2		mg/Kg		98	80 - 120
Barium	50.0	51.1		mg/Kg		102	80 - 120
Beryllium	50.0	50.4		mg/Kg		101	80 - 120
Cadmium	50.0	49.9		mg/Kg		100	80 - 120
Chromium	50.0	51.2		mg/Kg		102	80 - 120
Cobalt	50.0	50.3		mg/Kg		101	80 - 120
Copper	50.0	52.4		mg/Kg		105	80 - 120
Lead	50.0	51.5		mg/Kg		103	80 - 120
Molybdenum	50.0	50.3		mg/Kg		101	80 - 120
Nickel	50.0	50.5		mg/Kg		101	80 - 120
Selenium	50.0	48.7		mg/Kg		97	80 - 120
Silver	25.0	26.5		mg/Kg		106	80 - 120
Thallium	50.0	50.6		mg/Kg		101	80 - 120
Vanadium	50.0	51.0		mg/Kg		102	80 - 120
Zinc	50.0	50.4		mg/Kg		101	80 - 120

Lab Sample ID: 720-91087-21 MS
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: DG-AU10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	43	F1	36.5	51.8	F1	mg/Kg		24	75 - 125
Arsenic	25	F1	36.5	67.5		mg/Kg		117	75 - 125
Barium	970		36.5	1470	4	mg/Kg		1360	75 - 125
Beryllium	0.46		36.5	43.6		mg/Kg		118	75 - 125
Cadmium	4.0		36.5	41.0		mg/Kg		101	75 - 125
Chromium	57	B F1	36.5	114	F1	mg/Kg		156	75 - 125
Cobalt	11		36.5	48.5		mg/Kg		103	75 - 125
Copper	910	F2	36.5	2840	4	mg/Kg		5283	75 - 125
Lead	3900	B F2	36.5	5890	4	mg/Kg		5372	75 - 125
Molybdenum	1.1	J	36.5	38.1		mg/Kg		101	75 - 125
Nickel	91	F1 F2	36.5	208	F1	mg/Kg		321	75 - 125
Selenium	ND		36.5	33.7		mg/Kg		92	75 - 125
Silver	5.7	F1	18.2	37.7	F1	mg/Kg		176	75 - 125
Thallium	ND		36.5	32.5		mg/Kg		89	75 - 125
Vanadium	33	F1	36.5	85.3	F1	mg/Kg		142	75 - 125
Zinc	2300		36.5	2910	4	mg/Kg		1547	75 - 125

Lab Sample ID: 720-91087-21 MSD
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: DG-AU10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	43	F1	36.5	63.1	F1	mg/Kg		55	75 - 125	20	20
Arsenic	25	F1	36.5	72.0	F1	mg/Kg		129	75 - 125	6	20
Barium	970		36.5	1380	4	mg/Kg		1113	75 - 125	6	20
Beryllium	0.46		36.5	43.8		mg/Kg		119	75 - 125	0	20
Cadmium	4.0		36.5	42.2		mg/Kg		105	75 - 125	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91087-21 MSD
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: DG-AU10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	57	B F1	36.5	113	F1	mg/Kg		154	75 - 125	1	20
Cobalt	11		36.5	50.8		mg/Kg		110	75 - 125	5	20
Copper	910	F2	36.5	1650	4 F2	mg/Kg		2017	75 - 125	53	20
Lead	3900	B F2	36.5	4030	4 F2	mg/Kg		279	75 - 125	37	20
Molybdenum	1.1	J	36.5	38.5		mg/Kg		102	75 - 125	1	20
Nickel	91	F1 F2	36.5	138	F1 F2	mg/Kg		131	75 - 125	40	20
Selenium	ND		36.5	31.9		mg/Kg		87	75 - 125	6	20
Silver	5.7	F1	18.2	31.0	F1	mg/Kg		139	75 - 125	20	20
Thallium	ND		36.5	33.0		mg/Kg		90	75 - 125	2	20
Vanadium	33	F1	36.5	88.2	F1	mg/Kg		150	75 - 125	3	20
Zinc	2300		36.5	3200	4	mg/Kg		2352	75 - 125	10	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259538/1-A
Matrix: Solid
Analysis Batch: 260279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/12/19 14:36	02/12/19 18:28	1

Lab Sample ID: LCS 720-259538/2-A
Matrix: Solid
Analysis Batch: 260279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.769		mg/Kg		92	80 - 120

Lab Sample ID: 720-91087-7 MS
Matrix: Solid
Analysis Batch: 260279

Client Sample ID: DG-AO8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.050		0.820	0.828		mg/Kg		95	75 - 125

Lab Sample ID: 720-91087-7 MSD
Matrix: Solid
Analysis Batch: 260279

Client Sample ID: DG-AO8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.050		0.833	0.843		mg/Kg		95	75 - 125	2	20

Lab Sample ID: MB 720-259548/1-A
Matrix: Solid
Analysis Batch: 260307

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/12/19 15:42	02/13/19 13:22	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-259548/2-A
Matrix: Solid
Analysis Batch: 260307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259548

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.774		mg/Kg		93	80 - 120		

Lab Sample ID: 720-91087-18 MS
Matrix: Solid
Analysis Batch: 260307

Client Sample ID: DG-AW9S-3.5-4
Prep Type: Total/NA
Prep Batch: 259548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.806	0.832		mg/Kg		103	75 - 125		

Lab Sample ID: 720-91087-18 MSD
Matrix: Solid
Analysis Batch: 260307

Client Sample ID: DG-AW9S-3.5-4
Prep Type: Total/NA
Prep Batch: 259548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.820	0.837		mg/Kg		102	75 - 125	1	20

Lab Sample ID: MB 720-259561/1-A
Matrix: Solid
Analysis Batch: 260353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/12/19 15:02	02/13/19 17:31	1

Lab Sample ID: LCS 720-259561/2-A
Matrix: Solid
Analysis Batch: 260353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259561

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.796		mg/Kg		96	80 - 120		

Lab Sample ID: 720-91087-21 MS
Matrix: Solid
Analysis Batch: 260353

Client Sample ID: DG-AU10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.90		0.806	1.69		mg/Kg		99	75 - 125		

Lab Sample ID: 720-91087-21 MSD
Matrix: Solid
Analysis Batch: 260353

Client Sample ID: DG-AU10S-0.5-1
Prep Type: Total/NA
Prep Batch: 259561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.90		0.806	1.55		mg/Kg		82	75 - 125	8	20

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91070-A-25 DU
Matrix: Solid
Analysis Batch: 259562

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.3			7.4		%				0.8	20

Lab Sample ID: 720-91087-5 DU
Matrix: Solid
Analysis Batch: 259574

Client Sample ID: DG-AX7S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	15.4			14.0		%				9	20

Lab Sample ID: 720-91097-D-1 DU
Matrix: Solid
Analysis Batch: 259634

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.5			10.2		%				3	20

Lab Sample ID: 720-91087-41 DU
Matrix: Solid
Analysis Batch: 259646

Client Sample ID: DG-AI9S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	15.0			14.8		%				2	20

Metals

Prep Batch: 259537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-1	DG-AM8S-0.5-1	Total/NA	Solid	3050B	
720-91087-2	DG-AM8S-3.5-4	Total/NA	Solid	3050B	
720-91087-3	DG-AL8S-0.5-1	Total/NA	Solid	3050B	
720-91087-4	DG-AL8S-3.5-4	Total/NA	Solid	3050B	
720-91087-5	DG-AX7S-0.5-1	Total/NA	Solid	3050B	
720-91087-6	DG-AX7S-3.5-4	Total/NA	Solid	3050B	
720-91087-7	DG-AO8S-0.5-1	Total/NA	Solid	3050B	
720-91087-8	DG-AO8S-3.5-4	Total/NA	Solid	3050B	
720-91087-9	DG-AW8S-0.5-1	Total/NA	Solid	3050B	
720-91087-10	DG-AW8S-3.5-4	Total/NA	Solid	3050B	
720-91087-11	DUP-56	Total/NA	Solid	3050B	
720-91087-12	DUP-57	Total/NA	Solid	3050B	
720-91087-13	DG-AY8S-0.5-1	Total/NA	Solid	3050B	
720-91087-14	DG-AY8S-3.5-4	Total/NA	Solid	3050B	
720-91087-15	DG-AX8S-0.5-1	Total/NA	Solid	3050B	
720-91087-16	DG-AX8S-3.5-4	Total/NA	Solid	3050B	
720-91087-17	DG-AW9S-0.5-1	Total/NA	Solid	3050B	
720-91087-19	DG-AU9S-0.5-1	Total/NA	Solid	3050B	
720-91087-20	DG-AU9S-3.5-4	Total/NA	Solid	3050B	
720-91087-22	DG-AU10S-3.5-4	Total/NA	Solid	3050B	
MB 720-259537/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259537/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91087-7 MS	DG-AO8S-0.5-1	Total/NA	Solid	3050B	
720-91087-7 MSD	DG-AO8S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-1	DG-AM8S-0.5-1	Total/NA	Solid	7471A	
720-91087-2	DG-AM8S-3.5-4	Total/NA	Solid	7471A	
720-91087-3	DG-AL8S-0.5-1	Total/NA	Solid	7471A	
720-91087-4	DG-AL8S-3.5-4	Total/NA	Solid	7471A	
720-91087-5	DG-AX7S-0.5-1	Total/NA	Solid	7471A	
720-91087-6	DG-AX7S-3.5-4	Total/NA	Solid	7471A	
720-91087-7	DG-AO8S-0.5-1	Total/NA	Solid	7471A	
720-91087-8	DG-AO8S-3.5-4	Total/NA	Solid	7471A	
720-91087-9	DG-AW8S-0.5-1	Total/NA	Solid	7471A	
720-91087-10	DG-AW8S-3.5-4	Total/NA	Solid	7471A	
720-91087-11	DUP-56	Total/NA	Solid	7471A	
720-91087-12	DUP-57	Total/NA	Solid	7471A	
720-91087-13	DG-AY8S-0.5-1	Total/NA	Solid	7471A	
720-91087-14	DG-AY8S-3.5-4	Total/NA	Solid	7471A	
720-91087-15	DG-AX8S-0.5-1	Total/NA	Solid	7471A	
720-91087-16	DG-AX8S-3.5-4	Total/NA	Solid	7471A	
720-91087-17	DG-AW9S-0.5-1	Total/NA	Solid	7471A	
720-91087-19	DG-AU9S-0.5-1	Total/NA	Solid	7471A	
720-91087-20	DG-AU9S-3.5-4	Total/NA	Solid	7471A	
720-91087-22	DG-AU10S-3.5-4	Total/NA	Solid	7471A	
MB 720-259538/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259538/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91087-7 MS	DG-AO8S-0.5-1	Total/NA	Solid	7471A	
720-91087-7 MSD	DG-AO8S-0.5-1	Total/NA	Solid	7471A	

Metals

Prep Batch: 259546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-18	DG-AW9S-3.5-4	Total/NA	Solid	3050B	
720-91087-23	DUP-59	Total/NA	Solid	3050B	
720-91087-24	DUP-66	Total/NA	Solid	3050B	
720-91087-25	DG-AT10S-0.5-1	Total/NA	Solid	3050B	
720-91087-26	DG-AT10S-3.5-4	Total/NA	Solid	3050B	
720-91087-27	DG-AR11S-0.5-1	Total/NA	Solid	3050B	
720-91087-28	DG-AR11S-3.5-4	Total/NA	Solid	3050B	
720-91087-29	DG-AQ9S-0.5-1	Total/NA	Solid	3050B	
720-91087-30	DG-AQ9S-3.5-4	Total/NA	Solid	3050B	
720-91087-31	DG-AO9S-0.5-1	Total/NA	Solid	3050B	
720-91087-32	DG-AO9S-3.5-4	Total/NA	Solid	3050B	
720-91087-33	DG-AM9S-0.5-1	Total/NA	Solid	3050B	
720-91087-34	DUP-72	Total/NA	Solid	3050B	
720-91087-35	DG-AM9S-3.5-4	Total/NA	Solid	3050B	
720-91087-36	DG-AK9S-0.5-1	Total/NA	Solid	3050B	
720-91087-37	DG-AK9S-3.5-4	Total/NA	Solid	3050B	
720-91087-38	DG-AJ8S-0.5-1	Total/NA	Solid	3050B	
720-91087-39	DG-AJ8S-3.5-4	Total/NA	Solid	3050B	
720-91087-40	DG-AI9S-0.5-1	Total/NA	Solid	3050B	
720-91087-41	DG-AI9S-3.5-4	Total/NA	Solid	3050B	
MB 720-259546/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259546/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91087-18 MS	DG-AW9S-3.5-4	Total/NA	Solid	3050B	
720-91087-18 MSD	DG-AW9S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 259548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-18	DG-AW9S-3.5-4	Total/NA	Solid	7471A	
720-91087-23	DUP-59	Total/NA	Solid	7471A	
720-91087-24	DUP-66	Total/NA	Solid	7471A	
720-91087-25	DG-AT10S-0.5-1	Total/NA	Solid	7471A	
720-91087-26	DG-AT10S-3.5-4	Total/NA	Solid	7471A	
720-91087-27	DG-AR11S-0.5-1	Total/NA	Solid	7471A	
720-91087-28	DG-AR11S-3.5-4	Total/NA	Solid	7471A	
720-91087-29	DG-AQ9S-0.5-1	Total/NA	Solid	7471A	
720-91087-30	DG-AQ9S-3.5-4	Total/NA	Solid	7471A	
720-91087-31	DG-AO9S-0.5-1	Total/NA	Solid	7471A	
720-91087-32	DG-AO9S-3.5-4	Total/NA	Solid	7471A	
720-91087-33	DG-AM9S-0.5-1	Total/NA	Solid	7471A	
720-91087-34	DUP-72	Total/NA	Solid	7471A	
720-91087-35	DG-AM9S-3.5-4	Total/NA	Solid	7471A	
720-91087-36	DG-AK9S-0.5-1	Total/NA	Solid	7471A	
720-91087-37	DG-AK9S-3.5-4	Total/NA	Solid	7471A	
720-91087-38	DG-AJ8S-0.5-1	Total/NA	Solid	7471A	
720-91087-39	DG-AJ8S-3.5-4	Total/NA	Solid	7471A	
720-91087-40	DG-AI9S-0.5-1	Total/NA	Solid	7471A	
720-91087-41	DG-AI9S-3.5-4	Total/NA	Solid	7471A	
MB 720-259548/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259548/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91087-18 MS	DG-AW9S-3.5-4	Total/NA	Solid	7471A	
720-91087-18 MSD	DG-AW9S-3.5-4	Total/NA	Solid	7471A	

Metals

Prep Batch: 259560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-21	DG-AU10S-0.5-1	Total/NA	Solid	3050B	
720-91087-42	DG-AI8S-0.5-1	Total/NA	Solid	3050B	
720-91087-43	DG-AI8S-3.5-4	Total/NA	Solid	3050B	
720-91087-44	DG-AH8S-0.5-1	Total/NA	Solid	3050B	
720-91087-45	DG-AH8S-3.5-4	Total/NA	Solid	3050B	
720-91087-46	DUP-60	Total/NA	Solid	3050B	
MB 720-259560/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259560/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91087-21 MS	DG-AU10S-0.5-1	Total/NA	Solid	3050B	
720-91087-21 MSD	DG-AU10S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-21	DG-AU10S-0.5-1	Total/NA	Solid	7471A	
720-91087-42	DG-AI8S-0.5-1	Total/NA	Solid	7471A	
720-91087-43	DG-AI8S-3.5-4	Total/NA	Solid	7471A	
720-91087-44	DG-AH8S-0.5-1	Total/NA	Solid	7471A	
720-91087-45	DG-AH8S-3.5-4	Total/NA	Solid	7471A	
720-91087-46	DUP-60	Total/NA	Solid	7471A	
MB 720-259561/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259561/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91087-21 MS	DG-AU10S-0.5-1	Total/NA	Solid	7471A	
720-91087-21 MSD	DG-AU10S-0.5-1	Total/NA	Solid	7471A	

Analysis Batch: 260108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-1	DG-AM8S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-2	DG-AM8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-3	DG-AL8S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-4	DG-AL8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-5	DG-AX7S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-6	DG-AX7S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-7	DG-AO8S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-8	DG-AO8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-9	DG-AW8S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-10	DG-AW8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-11	DUP-56	Total/NA	Solid	6010B	259537
720-91087-12	DUP-57	Total/NA	Solid	6010B	259537
720-91087-13	DG-AY8S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-14	DG-AY8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-15	DG-AX8S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-16	DG-AX8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-17	DG-AW9S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-19	DG-AU9S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-20	DG-AU9S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-22	DG-AU10S-3.5-4	Total/NA	Solid	6010B	259537
MB 720-259537/1-A	Method Blank	Total/NA	Solid	6010B	259537
LCS 720-259537/2-A	Lab Control Sample	Total/NA	Solid	6010B	259537
720-91087-7 MS	DG-AO8S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-7 MSD	DG-AO8S-0.5-1	Total/NA	Solid	6010B	259537

Metals

Analysis Batch: 260154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-18	DG-AW9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-23	DUP-59	Total/NA	Solid	6010B	259546
720-91087-24	DUP-66	Total/NA	Solid	6010B	259546
720-91087-25	DG-AT10S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-26	DG-AT10S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-27	DG-AR11S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-28	DG-AR11S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-29	DG-AQ9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-30	DG-AQ9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-31	DG-AO9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-32	DG-AO9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-33	DG-AM9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-34	DUP-72	Total/NA	Solid	6010B	259546
720-91087-35	DG-AM9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-36	DG-AK9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-37	DG-AK9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-38	DG-AJ8S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-39	DG-AJ8S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-40	DG-AI9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-41	DG-AI9S-3.5-4	Total/NA	Solid	6010B	259546
MB 720-259546/1-A	Method Blank	Total/NA	Solid	6010B	259546
LCS 720-259546/2-A	Lab Control Sample	Total/NA	Solid	6010B	259546
720-91087-18 MS	DG-AW9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-18 MSD	DG-AW9S-3.5-4	Total/NA	Solid	6010B	259546

Analysis Batch: 260183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-21	DG-AU10S-0.5-1	Total/NA	Solid	6010B	259560
720-91087-42	DG-AI8S-0.5-1	Total/NA	Solid	6010B	259560
720-91087-43	DG-AI8S-3.5-4	Total/NA	Solid	6010B	259560
720-91087-44	DG-AH8S-0.5-1	Total/NA	Solid	6010B	259560
720-91087-45	DG-AH8S-3.5-4	Total/NA	Solid	6010B	259560
720-91087-46	DUP-60	Total/NA	Solid	6010B	259560
MB 720-259560/1-A	Method Blank	Total/NA	Solid	6010B	259560
LCS 720-259560/2-A	Lab Control Sample	Total/NA	Solid	6010B	259560
720-91087-21 MS	DG-AU10S-0.5-1	Total/NA	Solid	6010B	259560
720-91087-21 MSD	DG-AU10S-0.5-1	Total/NA	Solid	6010B	259560

Analysis Batch: 260184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-2	DG-AM8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-3	DG-AL8S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-8	DG-AO8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-16	DG-AX8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-17	DG-AW9S-0.5-1	Total/NA	Solid	6010B	259537

Analysis Batch: 260255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-23	DUP-59	Total/NA	Solid	6010B	259546
720-91087-25	DG-AT10S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-26	DG-AT10S-3.5-4	Total/NA	Solid	6010B	259546

Metals (Continued)

Analysis Batch: 260255 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-27	DG-AR11S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-28	DG-AR11S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-29	DG-AQ9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-30	DG-AQ9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-31	DG-AO9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-32	DG-AO9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-33	DG-AM9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-34	DUP-72	Total/NA	Solid	6010B	259546
720-91087-35	DG-AM9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-36	DG-AK9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-37	DG-AK9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-38	DG-AJ8S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-39	DG-AJ8S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-40	DG-AI9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-41	DG-AI9S-3.5-4	Total/NA	Solid	6010B	259546

Analysis Batch: 260279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-1	DG-AM8S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-2	DG-AM8S-3.5-4	Total/NA	Solid	7471A	259538
720-91087-3	DG-AL8S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-4	DG-AL8S-3.5-4	Total/NA	Solid	7471A	259538
720-91087-5	DG-AX7S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-6	DG-AX7S-3.5-4	Total/NA	Solid	7471A	259538
720-91087-7	DG-AO8S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-8	DG-AO8S-3.5-4	Total/NA	Solid	7471A	259538
720-91087-9	DG-AW8S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-10	DG-AW8S-3.5-4	Total/NA	Solid	7471A	259538
720-91087-11	DUP-56	Total/NA	Solid	7471A	259538
720-91087-12	DUP-57	Total/NA	Solid	7471A	259538
720-91087-13	DG-AY8S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-14	DG-AY8S-3.5-4	Total/NA	Solid	7471A	259538
720-91087-15	DG-AX8S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-16	DG-AX8S-3.5-4	Total/NA	Solid	7471A	259538
720-91087-17	DG-AW9S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-19	DG-AU9S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-20	DG-AU9S-3.5-4	Total/NA	Solid	7471A	259538
720-91087-22	DG-AU10S-3.5-4	Total/NA	Solid	7471A	259538
MB 720-259538/1-A	Method Blank	Total/NA	Solid	7471A	259538
LCS 720-259538/2-A	Lab Control Sample	Total/NA	Solid	7471A	259538
720-91087-7 MS	DG-AO8S-0.5-1	Total/NA	Solid	7471A	259538
720-91087-7 MSD	DG-AO8S-0.5-1	Total/NA	Solid	7471A	259538

Analysis Batch: 260307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-18	DG-AW9S-3.5-4	Total/NA	Solid	7471A	259548
720-91087-23	DUP-59	Total/NA	Solid	7471A	259548
720-91087-24	DUP-66	Total/NA	Solid	7471A	259548
720-91087-25	DG-AT10S-0.5-1	Total/NA	Solid	7471A	259548
720-91087-26	DG-AT10S-3.5-4	Total/NA	Solid	7471A	259548
720-91087-27	DG-AR11S-0.5-1	Total/NA	Solid	7471A	259548

Metals (Continued)

Analysis Batch: 260307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-28	DG-AR11S-3.5-4	Total/NA	Solid	7471A	259548
720-91087-29	DG-AQ9S-0.5-1	Total/NA	Solid	7471A	259548
720-91087-30	DG-AQ9S-3.5-4	Total/NA	Solid	7471A	259548
720-91087-31	DG-AO9S-0.5-1	Total/NA	Solid	7471A	259548
720-91087-32	DG-AO9S-3.5-4	Total/NA	Solid	7471A	259548
720-91087-33	DG-AM9S-0.5-1	Total/NA	Solid	7471A	259548
720-91087-34	DUP-72	Total/NA	Solid	7471A	259548
720-91087-35	DG-AM9S-3.5-4	Total/NA	Solid	7471A	259548
720-91087-36	DG-AK9S-0.5-1	Total/NA	Solid	7471A	259548
720-91087-37	DG-AK9S-3.5-4	Total/NA	Solid	7471A	259548
720-91087-38	DG-AJ8S-0.5-1	Total/NA	Solid	7471A	259548
720-91087-39	DG-AJ8S-3.5-4	Total/NA	Solid	7471A	259548
720-91087-40	DG-AI9S-0.5-1	Total/NA	Solid	7471A	259548
720-91087-41	DG-AI9S-3.5-4	Total/NA	Solid	7471A	259548
MB 720-259548/1-A	Method Blank	Total/NA	Solid	7471A	259548
LCS 720-259548/2-A	Lab Control Sample	Total/NA	Solid	7471A	259548
720-91087-18 MS	DG-AW9S-3.5-4	Total/NA	Solid	7471A	259548
720-91087-18 MSD	DG-AW9S-3.5-4	Total/NA	Solid	7471A	259548

Analysis Batch: 260311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-21	DG-AU10S-0.5-1	Total/NA	Solid	6010B	259560

Analysis Batch: 260312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-2	DG-AM8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-8	DG-AO8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-15	DG-AX8S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-16	DG-AX8S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-17	DG-AW9S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-19	DG-AU9S-0.5-1	Total/NA	Solid	6010B	259537
720-91087-20	DG-AU9S-3.5-4	Total/NA	Solid	6010B	259537
720-91087-22	DG-AU10S-3.5-4	Total/NA	Solid	6010B	259537

Analysis Batch: 260353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-21	DG-AU10S-0.5-1	Total/NA	Solid	7471A	259561
720-91087-42	DG-AI8S-0.5-1	Total/NA	Solid	7471A	259561
720-91087-43	DG-AI8S-3.5-4	Total/NA	Solid	7471A	259561
720-91087-44	DG-AH8S-0.5-1	Total/NA	Solid	7471A	259561
720-91087-45	DG-AH8S-3.5-4	Total/NA	Solid	7471A	259561
720-91087-46	DUP-60	Total/NA	Solid	7471A	259561
MB 720-259561/1-A	Method Blank	Total/NA	Solid	7471A	259561
LCS 720-259561/2-A	Lab Control Sample	Total/NA	Solid	7471A	259561
720-91087-21 MS	DG-AU10S-0.5-1	Total/NA	Solid	7471A	259561
720-91087-21 MSD	DG-AU10S-0.5-1	Total/NA	Solid	7471A	259561

Analysis Batch: 261972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-18	DG-AW9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-24	DUP-66	Total/NA	Solid	6010B	259546

Metals (Continued)

Analysis Batch: 261972 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-27	DG-AR11S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-29	DG-AQ9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-30	DG-AQ9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-31	DG-AO9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-32	DG-AO9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-33	DG-AM9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-36	DG-AK9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-37	DG-AK9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-39	DG-AJ8S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-40	DG-AI9S-0.5-1	Total/NA	Solid	6010B	259546
720-91087-41	DG-AI9S-3.5-4	Total/NA	Solid	6010B	259546
MB 720-259546/1-A	Method Blank	Total/NA	Solid	6010B	259546
LCS 720-259546/2-A	Lab Control Sample	Total/NA	Solid	6010B	259546
720-91087-18 MS	DG-AW9S-3.5-4	Total/NA	Solid	6010B	259546
720-91087-18 MSD	DG-AW9S-3.5-4	Total/NA	Solid	6010B	259546

General Chemistry

Analysis Batch: 259562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-1	DG-AM8S-0.5-1	Total/NA	Solid	Moisture	
720-91087-2	DG-AM8S-3.5-4	Total/NA	Solid	Moisture	
720-91087-3	DG-AL8S-0.5-1	Total/NA	Solid	Moisture	
720-91087-4	DG-AL8S-3.5-4	Total/NA	Solid	Moisture	
720-91070-A-25 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 259574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-5	DG-AX7S-0.5-1	Total/NA	Solid	Moisture	
720-91087-6	DG-AX7S-3.5-4	Total/NA	Solid	Moisture	
720-91087-7	DG-AO8S-0.5-1	Total/NA	Solid	Moisture	
720-91087-8	DG-AO8S-3.5-4	Total/NA	Solid	Moisture	
720-91087-9	DG-AW8S-0.5-1	Total/NA	Solid	Moisture	
720-91087-10	DG-AW8S-3.5-4	Total/NA	Solid	Moisture	
720-91087-11	DUP-56	Total/NA	Solid	Moisture	
720-91087-12	DUP-57	Total/NA	Solid	Moisture	
720-91087-13	DG-AY8S-0.5-1	Total/NA	Solid	Moisture	
720-91087-14	DG-AY8S-3.5-4	Total/NA	Solid	Moisture	
720-91087-15	DG-AX8S-0.5-1	Total/NA	Solid	Moisture	
720-91087-16	DG-AX8S-3.5-4	Total/NA	Solid	Moisture	
720-91087-17	DG-AW9S-0.5-1	Total/NA	Solid	Moisture	
720-91087-18	DG-AW9S-3.5-4	Total/NA	Solid	Moisture	
720-91087-19	DG-AU9S-0.5-1	Total/NA	Solid	Moisture	
720-91087-20	DG-AU9S-3.5-4	Total/NA	Solid	Moisture	
720-91087-21	DG-AU10S-0.5-1	Total/NA	Solid	Moisture	
720-91087-22	DG-AU10S-3.5-4	Total/NA	Solid	Moisture	
720-91087-23	DUP-59	Total/NA	Solid	Moisture	
720-91087-5 DU	DG-AX7S-0.5-1	Total/NA	Solid	Moisture	

General Chemistry

Analysis Batch: 259634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-24	DUP-66	Total/NA	Solid	Moisture	
720-91087-25	DG-AT10S-0.5-1	Total/NA	Solid	Moisture	
720-91087-26	DG-AT10S-3.5-4	Total/NA	Solid	Moisture	
720-91087-27	DG-AR11S-0.5-1	Total/NA	Solid	Moisture	
720-91087-28	DG-AR11S-3.5-4	Total/NA	Solid	Moisture	
720-91087-29	DG-AQ9S-0.5-1	Total/NA	Solid	Moisture	
720-91087-30	DG-AQ9S-3.5-4	Total/NA	Solid	Moisture	
720-91087-31	DG-AO9S-0.5-1	Total/NA	Solid	Moisture	
720-91087-32	DG-AO9S-3.5-4	Total/NA	Solid	Moisture	
720-91087-33	DG-AM9S-0.5-1	Total/NA	Solid	Moisture	
720-91087-34	DUP-72	Total/NA	Solid	Moisture	
720-91087-35	DG-AM9S-3.5-4	Total/NA	Solid	Moisture	
720-91087-36	DG-AK9S-0.5-1	Total/NA	Solid	Moisture	
720-91087-37	DG-AK9S-3.5-4	Total/NA	Solid	Moisture	
720-91087-38	DG-AJ8S-0.5-1	Total/NA	Solid	Moisture	
720-91087-39	DG-AJ8S-3.5-4	Total/NA	Solid	Moisture	
720-91087-40	DG-AI9S-0.5-1	Total/NA	Solid	Moisture	
720-91097-D-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 259646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91087-41	DG-AI9S-3.5-4	Total/NA	Solid	Moisture	
720-91087-42	DG-AI8S-0.5-1	Total/NA	Solid	Moisture	
720-91087-43	DG-AI8S-3.5-4	Total/NA	Solid	Moisture	
720-91087-44	DG-AH8S-0.5-1	Total/NA	Solid	Moisture	
720-91087-45	DG-AH8S-3.5-4	Total/NA	Solid	Moisture	
720-91087-46	DUP-60	Total/NA	Solid	Moisture	
720-91087-41 DU	DG-AI9S-3.5-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AM8S-0.5-1
Lab Sample ID: 720-91087-1
Date Collected: 01/30/19 08:50
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 17:47	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 18:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-AM8S-3.5-4
Lab Sample ID: 720-91087-2
Date Collected: 01/30/19 08:50
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 17:52	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260184	02/11/19 18:56	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260312	02/13/19 14:30	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 18:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-AL8S-0.5-1
Lab Sample ID: 720-91087-3
Date Collected: 01/30/19 08:20
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 17:57	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260184	02/11/19 19:01	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 18:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Client Sample ID: DG-AL8S-3.5-4
Lab Sample ID: 720-91087-4
Date Collected: 01/30/19 08:20
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 18:12	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 18:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259562	01/31/19 11:07	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AX7S-0.5-1

Lab Sample ID: 720-91087-5

Date Collected: 01/30/19 09:50
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260108	02/08/19 18:16	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 18:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AX7S-3.5-4

Lab Sample ID: 720-91087-6

Date Collected: 01/30/19 09:50
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260108	02/08/19 18:21	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 18:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AO8S-0.5-1

Lab Sample ID: 720-91087-7

Date Collected: 01/30/19 09:30
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 17:43	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 18:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AO8S-3.5-4

Lab Sample ID: 720-91087-8

Date Collected: 01/30/19 09:30
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 18:26	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260184	02/11/19 19:05	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260312	02/13/19 14:35	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 18:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AW8S-0.5-1

Lab Sample ID: 720-91087-9

Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260108	02/08/19 18:31	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 19:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AW8S-3.5-4

Lab Sample ID: 720-91087-10

Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260108	02/08/19 18:35	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 19:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DUP-56

Lab Sample ID: 720-91087-11

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 18:40	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 19:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DUP-57

Lab Sample ID: 720-91087-12

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260108	02/08/19 18:45	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260279	02/12/19 19:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AY8S-0.5-1

Lab Sample ID: 720-91087-13

Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 18:50	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 19:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AY8S-3.5-4

Lab Sample ID: 720-91087-14

Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 18:54	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 19:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AX8S-0.5-1

Lab Sample ID: 720-91087-15

Date Collected: 01/30/19 10:50
Date Received: 01/30/19 18:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260108	02/08/19 19:09	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260312	02/13/19 14:40	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 19:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AX8S-3.5-4

Lab Sample ID: 720-91087-16

Date Collected: 01/30/19 10:50
Date Received: 01/30/19 18:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 19:14	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260184	02/11/19 19:24	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260312	02/13/19 14:44	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		10	260279	02/12/19 19:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AW9S-0.5-1
Lab Sample ID: 720-91087-17
Date Collected: 01/30/19 11:15
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260108	02/08/19 19:19	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260184	02/11/19 19:29	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260312	02/13/19 14:49	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260279	02/12/19 19:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AW9S-3.5-4
Lab Sample ID: 720-91087-18
Date Collected: 01/30/19 11:15
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260154	02/11/19 10:17	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261972	02/11/19 10:17	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		10	260307	02/13/19 14:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AU9S-0.5-1
Lab Sample ID: 720-91087-19
Date Collected: 01/30/19 13:00
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260108	02/08/19 19:23	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260312	02/13/19 14:54	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260279	02/12/19 19:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AU9S-3.5-4
Lab Sample ID: 720-91087-20
Date Collected: 01/30/19 13:00
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260108	02/08/19 19:28	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260312	02/13/19 14:59	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AU9S-3.5-4

Lab Sample ID: 720-91087-20

Date Collected: 01/30/19 13:00
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260279	02/12/19 19:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AU10S-0.5-1

Lab Sample ID: 720-91087-21

Date Collected: 01/30/19 13:20
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:02	OBI	TAL PLS
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260311	02/13/19 14:27	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 17:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DG-AU10S-3.5-4

Lab Sample ID: 720-91087-22

Date Collected: 01/30/19 13:20
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260108	02/08/19 19:33	OBI	TAL PLS
Total/NA	Prep	3050B			259537	01/31/19 08:59	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260312	02/13/19 15:04	OBI	TAL PLS
Total/NA	Prep	7471A			259538	02/12/19 14:36	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260279	02/12/19 19:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DUP-59

Lab Sample ID: 720-91087-23

Date Collected: 01/30/19 00:00
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260255	02/12/19 18:26	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260154	02/11/19 10:22	OBI	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259574	01/31/19 13:53	TNL	TAL PLS

Client Sample ID: DUP-66 — Lab Sample ID: 720-91087-24

Date Collected: 01/30/19 00:00 — **Matrix: Solid**
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 10:27	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 10:27	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 13:42	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AT10S-0.5-1 — Lab Sample ID: 720-91087-25

Date Collected: 01/30/19 13:40 — **Matrix: Solid**
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260255	02/12/19 18:31	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 10:32	OBI	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 13:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AT10S-3.5-4 — Lab Sample ID: 720-91087-26

Date Collected: 01/30/19 13:40 — **Matrix: Solid**
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260255	02/12/19 18:35	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 10:46	OBI	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260307	02/13/19 14:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AR11S-0.5-1 — Lab Sample ID: 720-91087-27

Date Collected: 01/30/19 13:50 — **Matrix: Solid**
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 18:40	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 10:51	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 10:51	BKR	TAL PLS

Client Sample ID: DG-AR11S-0.5-1

Lab Sample ID: 720-91087-27

Date Collected: 01/30/19 13:50

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 13:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AR11S-3.5-4

Lab Sample ID: 720-91087-28

Date Collected: 01/30/19 13:50

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260255	02/12/19 18:45	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 10:56	OBI	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260307	02/13/19 14:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AQ9S-0.5-1

Lab Sample ID: 720-91087-29

Date Collected: 01/30/19 14:05

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 18:50	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:01	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 11:01	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 13:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AQ9S-3.5-4

Lab Sample ID: 720-91087-30

Date Collected: 01/30/19 14:05

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 18:54	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:06	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 11:06	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 13:57	MAG	TAL PLS

Client Sample ID: DG-AQ9S-3.5-4

Lab Sample ID: 720-91087-30

Date Collected: 01/30/19 14:05

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AO9S-0.5-1

Lab Sample ID: 720-91087-31

Date Collected: 01/30/19 14:30

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 18:59	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:10	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 11:10	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 13:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AO9S-3.5-4

Lab Sample ID: 720-91087-32

Date Collected: 01/30/19 14:30

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 19:04	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:15	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 11:15	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AM9S-0.5-1

Lab Sample ID: 720-91087-33

Date Collected: 01/30/19 14:45

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 19:08	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:20	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 11:20	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:04	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AM9S-0.5-1

Lab Sample ID: 720-91087-33
Matrix: Solid
Date Collected: 01/30/19 14:45
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DUP-72

Lab Sample ID: 720-91087-34
Matrix: Solid
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		50	260255	02/12/19 19:23	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:25	OBI	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AM9S-3.5-4

Lab Sample ID: 720-91087-35
Matrix: Solid
Date Collected: 01/30/19 14:45
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		50	260255	02/12/19 19:28	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:30	OBI	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260307	02/13/19 14:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AK9S-0.5-1

Lab Sample ID: 720-91087-36
Matrix: Solid
Date Collected: 01/30/19 15:10
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 19:32	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:45	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 11:45	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AK9S-3.5-4
Lab Sample ID: 720-91087-37
Date Collected: 01/30/19 15:10
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 19:37	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:49	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 11:49	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AJ8S-0.5-1
Lab Sample ID: 720-91087-38
Date Collected: 01/30/19 15:40
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260255	02/12/19 19:42	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:54	OBI	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AJ8S-3.5-4
Lab Sample ID: 720-91087-39
Date Collected: 01/30/19 15:40
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 19:47	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 11:59	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 11:59	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AI9S-0.5-1
Lab Sample ID: 720-91087-40
Date Collected: 01/30/19 15:30
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 19:51	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AI9S-0.5-1 — Lab Sample ID: 720-91087-40

Date Collected: 01/30/19 15:30 **Matrix: Solid**
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 12:04	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 12:04	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:26	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259634	02/01/19 10:02	TNL	TAL PLS

Client Sample ID: DG-AI9S-3.5-4 — Lab Sample ID: 720-91087-41

Date Collected: 01/30/19 15:30 **Matrix: Solid**
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260255	02/12/19 19:56	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260154	02/11/19 12:08	OBI	TAL PLS
Total/NA	Prep	3050B			259546	02/06/19 08:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261972	02/11/19 12:08	BKR	TAL PLS
Total/NA	Prep	7471A			259548	02/12/19 15:42	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260307	02/13/19 14:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-AI8S-0.5-1 — Lab Sample ID: 720-91087-42

Date Collected: 01/30/19 15:50 **Matrix: Solid**
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:06	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 17:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-AI8S-3.5-4 — Lab Sample ID: 720-91087-43

Date Collected: 01/30/19 15:50 **Matrix: Solid**
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:11	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 17:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91087-1

Client Sample ID: DG-AH8S-0.5-1

Lab Sample ID: 720-91087-44

Date Collected: 01/30/19 16:00
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:16	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 17:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DG-AH8S-3.5-4

Lab Sample ID: 720-91087-45

Date Collected: 01/30/19 16:00
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:30	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 17:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Client Sample ID: DUP-60

Lab Sample ID: 720-91087-46

Date Collected: 01/30/19 00:00
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:35	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 17:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259646	02/01/19 11:32	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91087-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91087-1	DG-AM8S-0.5-1	Solid	01/30/19 08:50	01/30/19 18:45
720-91087-2	DG-AM8S-3.5-4	Solid	01/30/19 08:50	01/30/19 18:45
720-91087-3	DG-AL8S-0.5-1	Solid	01/30/19 08:20	01/30/19 18:45
720-91087-4	DG-AL8S-3.5-4	Solid	01/30/19 08:20	01/30/19 18:45
720-91087-5	DG-AX7S-0.5-1	Solid	01/30/19 09:50	01/30/19 18:45
720-91087-6	DG-AX7S-3.5-4	Solid	01/30/19 09:50	01/30/19 18:45
720-91087-7	DG-AO8S-0.5-1	Solid	01/30/19 09:30	01/30/19 18:45
720-91087-8	DG-AO8S-3.5-4	Solid	01/30/19 09:30	01/30/19 18:45
720-91087-9	DG-AW8S-0.5-1	Solid	01/30/19 10:20	01/30/19 18:45
720-91087-10	DG-AW8S-3.5-4	Solid	01/30/19 10:20	01/30/19 18:45
720-91087-11	DUP-56	Solid	01/30/19 00:00	01/30/19 18:45
720-91087-12	DUP-57	Solid	01/30/19 00:00	01/30/19 18:45
720-91087-13	DG-AY8S-0.5-1	Solid	01/30/19 10:40	01/30/19 18:45
720-91087-14	DG-AY8S-3.5-4	Solid	01/30/19 10:40	01/30/19 18:45
720-91087-15	DG-AX8S-0.5-1	Solid	01/30/19 10:50	01/30/19 18:45
720-91087-16	DG-AX8S-3.5-4	Solid	01/30/19 10:50	01/30/19 18:45
720-91087-17	DG-AW9S-0.5-1	Solid	01/30/19 11:15	01/30/19 18:45
720-91087-18	DG-AW9S-3.5-4	Solid	01/30/19 11:15	01/30/19 18:45
720-91087-19	DG-AU9S-0.5-1	Solid	01/30/19 13:00	01/30/19 18:45
720-91087-20	DG-AU9S-3.5-4	Solid	01/30/19 13:00	01/30/19 18:45
720-91087-21	DG-AU10S-0.5-1	Solid	01/30/19 13:20	01/30/19 18:45
720-91087-22	DG-AU10S-3.5-4	Solid	01/30/19 13:20	01/30/19 18:45
720-91087-23	DUP-59	Solid	01/30/19 00:00	01/30/19 18:45
720-91087-24	DUP-66	Solid	01/30/19 00:00	01/30/19 18:45
720-91087-25	DG-AT10S-0.5-1	Solid	01/30/19 13:40	01/30/19 18:45
720-91087-26	DG-AT10S-3.5-4	Solid	01/30/19 13:40	01/30/19 18:45
720-91087-27	DG-AR11S-0.5-1	Solid	01/30/19 13:50	01/30/19 18:45
720-91087-28	DG-AR11S-3.5-4	Solid	01/30/19 13:50	01/30/19 18:45
720-91087-29	DG-AQ9S-0.5-1	Solid	01/30/19 14:05	01/30/19 18:45
720-91087-30	DG-AQ9S-3.5-4	Solid	01/30/19 14:05	01/30/19 18:45
720-91087-31	DG-AO9S-0.5-1	Solid	01/30/19 14:30	01/30/19 18:45
720-91087-32	DG-AO9S-3.5-4	Solid	01/30/19 14:30	01/30/19 18:45
720-91087-33	DG-AM9S-0.5-1	Solid	01/30/19 14:45	01/30/19 18:45
720-91087-34	DUP-72	Solid	01/30/19 00:00	01/30/19 18:45
720-91087-35	DG-AM9S-3.5-4	Solid	01/30/19 14:45	01/30/19 18:45
720-91087-36	DG-AK9S-0.5-1	Solid	01/30/19 15:10	01/30/19 18:45
720-91087-37	DG-AK9S-3.5-4	Solid	01/30/19 15:10	01/30/19 18:45
720-91087-38	DG-AJ8S-0.5-1	Solid	01/30/19 15:40	01/30/19 18:45
720-91087-39	DG-AJ8S-3.5-4	Solid	01/30/19 15:40	01/30/19 18:45
720-91087-40	DG-AI9S-0.5-1	Solid	01/30/19 15:30	01/30/19 18:45
720-91087-41	DG-AI9S-3.5-4	Solid	01/30/19 15:30	01/30/19 18:45
720-91087-42	DG-AI8S-0.5-1	Solid	01/30/19 15:50	01/30/19 18:45
720-91087-43	DG-AI8S-3.5-4	Solid	01/30/19 15:50	01/30/19 18:45
720-91087-44	DG-AH8S-0.5-1	Solid	01/30/19 16:00	01/30/19 18:45
720-91087-45	DG-AH8S-3.5-4	Solid	01/30/19 16:00	01/30/19 18:45
720-91087-46	DUP-60	Solid	01/30/19 00:00	01/30/19 18:45

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91087

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#188180
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30-Jan-2019	COC No 720-20019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler N. Rundle
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec com, mkahnlas@geosyntec.com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91087 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AM2S-0.5-1	1/30/19	0850	G	S	1	N		X	
2	DG-AM2S-3.5-4		0850							
3	DG-AL2S-0.5-1		0820							
4	DG-AL2S-3.5-4		0820							
5	DG-AX7S-0.5-1		0950							
6	DG-AX7S-3.5-4		0950							
7	DG-AO8S-0.5-1		0930					Y		
8	DG-AO8S-3.5-4		0930							
9	DG-AW2S-0.5-1		1020							
10	DG-AW2S-3.5-4		1020							
11	Dup-56		—							
12	Dup-57		—							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
3.9°C, 1.0°C, 0.7°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Nicholas Z Rundle	Geosyntec	1/30/19 1610		TA Pleas	1-30-19 1611
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	PG	1-30-19			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91087

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 - Jan - 2019	COC No. 3001, 3017
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler N Kamble
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AY8S-0.5-1	1/30/19	1040	G	S	1	N		X	
14	DG-AY8S-3.5-4		1040							
15	DG-AX8S-0.5-1		1050							
16	DG-AX8S-3.5-4		1050							
17	DG-AW9S-0.5-1		1115							
18	DG-AW9S-3.5-4		1115					Y		
19	DG-AU9S-0.5-1		1300							
20	DG-AU9S-3.5-4		1300							
21	DG-AU10S-0.5-1		1320					Y		
22	DG-AU10S-3.5-4		1320							
23	Dup-59		—							
24	Dup-66	↓	—	↓	↓	↓	↓		↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No ____
Relinquished by	Company / Date/Time	Received by	Company / Date/Time
Relinquished by	Company / Date/Time	Received by	Company / Date/Time
Relinquished by	Company / Date/Time	Received in Laboratory by	Company / Date/Time
	Geosyntec 1/30/19 1610		TA-PLS 1-30-19 16.16
	TA-PLS 1-30-19 15:45		
			TA-PLS 1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

720-91087

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
155818
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No 001 of 019
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
DG-AR11S-0.5-1	1/30/19	—	G	S	1	N		X	
25 DG-AT10S-0.5-1		1340							
26 DG-AT10S-3.5-4		1340							
27 DG-AR11S-0.5-1		1350							
28 DG-AR11S-3.5-4		1350							
29 DG-AQ9S-0.5-1		1405							
30 DG-AQ9S-3.5-4		1405							
31 DG-AO7S-0.5-1		1430							
32 DG-AO9S-3.5-4		1430							
33 DG-AM9S-0.5-1		1445							
34 Dup-72		—							
35 DG-AM9S-3.5-4		1445							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Geosyntec	Geosyntec	1/30/19 1610		TAL PLS	1-30-19 16.10
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	TAL PLS	1-30-19 1845			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91087

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
180/80
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No 3 of 4 COCs
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	Sampler
1111 Broadway 6th Floor	Analysis Turnaround Time			For Lab Use Only:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
(510) 285-2770 Phone	TAT if different from Below _____			Lab Sampling
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name. Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
36	DG-AK9.5-0.5-1	1/28/19	1510	G	S	1	N		X	
37	DG-AK9.5-3.5-4		1510							
38	DG-AJ9.5-0.5-1		1540							
39	DG-AJ9.5-3.5-4		1540							
42	DG-AI9.5-0.5-1		1530							
41	DG-AI9.5-3.5-4		1530							
42	DG-AI8.5-0.5-1		1550							
43	DG-AI8.5-3.5-4		1550							
44	DG-AH8.5-0.5-1		1600							
45	DG-AH8.5-3.5-4		1600							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	1/30/19 18:45

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91087-1

Login Number: 91087
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, January 31, 2019 10:16 PM
To: Kim, Martin C.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ: TestAmerica Sample Login Confirmation files from 720-91087 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Martin,

Yes please log DUP-60 for CAM 17 Metals.

Samples #38 and #39 should be logged per the container labels, as you suggested.

Thank you!

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

From: Kim, Martin <martin.kim@testamericainc.com>
Sent: Thursday, January 31, 2019 4:06 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ: TestAmerica Sample Login Confirmation files from 720-91087 Brisbane OU-2 Data Gap Investigation

Hello,

Attached, please find the Sample Confirmation files for job 720-91087; Brisbane OU-2 Data Gap Investigation

Sample #46(DUP-60) was received but not listed on COC. It has been logged in for CAM 17 analysis, Please confirm whether or not this is correct.

Samples #38 and #39 were listed as DG-AJ9S-0.5-1 and DG-AJ9S-3.5-4 respectively on the COC but as DG-AJ8S-0.5-1 and DG-AJ8S-3.5-4 on the container labels. Sample time was identical on both. Logged in per container labels. Please confirm whether or not this is correct.

Please feel free to contact me or your PM, Urvashi Patel, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

MARTIN C KIM
Project Manager Assistant

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [296867]
Attachments: 3

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91087-A-18-C	DG-AW9S-3.5-4	12	ND
720-91087-A-24-A	DUP-66	23	ND
720-91087-A-27-A	DG-AR11S-0.5-1	18	0.73 J
720-91087-A-29-A	DG-AQ9S-0.5-1	45	1.3 J
720-91087-A-30-A	DG-AQ9S-3.5-4	47	1.6
720-91087-A-31-A	DG-AO9S-0.5-1	17	0.74 J
720-91087-A-32-A	DG-AO9S-3.5-4	15	0.57 J
720-91087-A-33-A	DG-AM9S-0.5-1	14	0.82 J
720-91087-A-36-A	DG-AK9S-0.5-1	14	0.51 J
720-91087-A-37-A	DG-AK9S-3.5-4	11	ND
720-91087-A-39-A	DG-AJ8S-3.5-4	13	ND
720-91087-A-40-A	DG-AI9S-0.5-1	17	ND
720-91087-A-41-A	DG-AI9S-3.5-4	12	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa Brewer
Quality Assurance Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91088-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/15/2019 2:29:23 PM
Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91088-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91088-1

Comments
No additional comments.

Receipt
The samples were received on 1/30/2019 6:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.7º C, 1.0º C and 3.9º C.

GC/MS VOA
Methods 8260B and 8260B/CA_LUFTMS: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH of 5 was greater than 2 and the following sample was analyzed after 7 days from sampling: DG-W11W (720-91088-4).

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528098 recovered above the upper control limit for 1,1-Dichloroethene and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-AA11W (720-91088-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB but recoveries for target element passed criteria: (ICSA 720-259731/7) and (ICSAB 720-259731/8).

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259874 was outside control limits for Barium-22%: (720-91051-I-1-D SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8015B_DRO preparation batch 440-527042. LCS was performed in duplicate to provide precision of data.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270 SIM PAH preparation batch 440-526843. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91088-1

Client Sample ID: DG-W7W — Lab Sample ID: 720-91088-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	210		50	1.6	ug/L	1		6010B	Dissolved
Chromium	0.89	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	2.8		2.0	0.68	ug/L	1		6010B	Dissolved
Nickel	5.6	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	170		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-R5W — Lab Sample ID: 720-91088-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.35	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.14	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.27		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Fluorene	0.32		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.41		0.21	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.12	J	0.21	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	220	J	500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120	J	500	100	ug/L	1		8015B	Total/NA
Antimony	5.7	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	57		10	2.9	ug/L	1		6010B	Dissolved
Barium	140		50	1.6	ug/L	1		6010B	Dissolved
Cobalt	2.6		2.0	0.68	ug/L	1		6010B	Dissolved
Molybdenum	14		10	2.9	ug/L	1		6010B	Dissolved
Nickel	1.7	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	14	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AA11W — Lab Sample ID: 720-91088-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	2300		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	0.73	J	1.0	0.40	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.68		0.50	0.25	ug/L	1		8260B	Total/NA
Chloroethane	4.5		1.0	0.40	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.3		0.50	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.52		0.50	0.25	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.25	J	0.50	0.25	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.25	J	0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.65		0.50	0.25	ug/L	1		8260B	Total/NA
Vinyl chloride - RA	0.44	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	1.9	J	2.2	1.1	ug/L	10		8270C SIM	Total/NA
Acenaphthene	3.9		2.2	1.1	ug/L	10		8270C SIM	Total/NA
Fluorene	4.3		2.2	1.1	ug/L	10		8270C SIM	Total/NA
Phenanthrene	3.5		2.2	1.1	ug/L	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	4800		510	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	720		510	100	ug/L	1		8015B	Total/NA
Antimony	4.3	J	10	4.1	ug/L	1		6010B	Dissolved
Arsenic	3.5	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	110		50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.65	J	2.0	0.59	ug/L	1		6010B	Dissolved
Chromium	1.4	J	10	0.70	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91088-1

Client Sample ID: DG-AA11W (Continued) — Lab Sample ID: 720-91088-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	0.99	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-W11W — Lab Sample ID: 720-91088-4

No Detections.

Client Sample ID: FB-01.30.19 — Lab Sample ID: 720-91088-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	37	J	50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Acetone	41		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: TB-01.30.19 — Lab Sample ID: 720-91088-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91088-1

Client Sample ID: DG-W7W
Date Collected: 01/30/19 09:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/12/19 14:01*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/12/19 14:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/12/19 14:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Acetone	ND		20	10	ug/L			02/12/19 14:01	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 14:01	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 14:01	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 14:01	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 14:01	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 14:01	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 14:01	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 14:01	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 14:01	1

Client Sample ID: DG-W7W
Date Collected: 01/30/19 09:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 14:01	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 14:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 14:01	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 14:01	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 14:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 14:01	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 14:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 14:01	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 14:01	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 14:01	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*02/12/19 14:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/12/19 14:01*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Acenaphthene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Acenaphthylene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Fluorene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Phenanthrene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Anthracene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Chrysene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Fluoranthene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Pyrene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 13:49	1

Client Sample ID: DG-W7W

Date Collected: 01/30/19 09:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*94*		*38 - 120*	*02/04/19 08:25*	*02/05/19 13:49*	*1*
Nitrobenzene-d5	*81*		*10 - 120*	*02/04/19 08:25*	*02/05/19 13:49*	*1*
Terphenyl-d14	*78*		*21 - 120*	*02/04/19 08:25*	*02/05/19 13:49*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		02/06/19 10:01	02/08/19 00:04	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		02/06/19 10:01	02/08/19 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*77*		*45 - 120*	*02/06/19 10:01*	*02/08/19 00:04*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 17:04	1
Arsenic	**4.3**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 17:04	1
Barium	**210**		50	1.6	ug/L		02/01/19 10:32	02/02/19 17:04	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 17:04	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 17:04	1
Chromium	**0.89**	**J**	10	0.70	ug/L		02/01/19 10:32	02/02/19 17:04	1
Cobalt	**2.8**		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 17:04	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 17:04	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 17:04	1
Molybdenum	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 17:04	1
Nickel	**5.6**	**J**	10	1.0	ug/L		02/01/19 10:32	02/02/19 17:04	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 17:04	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 17:04	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 18:12	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 17:04	1
Zinc	**170**		20	7.4	ug/L		02/01/19 10:32	02/02/19 17:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/30/19 22:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91088-1

Client Sample ID: DG-R5W
Date Collected: 01/30/19 10:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/12/19 14:27*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/12/19 14:27*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/12/19 14:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Acetone	ND		20	10	ug/L			02/12/19 14:27	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 14:27	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 14:27	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 14:27	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 14:27	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 14:27	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 14:27	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 14:27	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 14:27	1

Client Sample ID: DG-R5W
Date Collected: 01/30/19 10:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 14:27	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 14:27	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 14:27	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Toluene	**0.35**	**J**	0.50	0.25	ug/L			02/12/19 14:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 14:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 14:27	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 14:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 14:27	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 14:27	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 14:27	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*02/12/19 14:27*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/12/19 14:27*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.14**	**J**	0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Acenaphthene	**0.27**		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Acenaphthylene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Fluorene	**0.32**		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Phenanthrene	**0.41**		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Anthracene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Chrysene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Fluoranthene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Pyrene	**0.12**	**J**	0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		02/04/19 08:25	02/05/19 14:12	1

Client Sample ID: DG-R5W

Date Collected: 01/30/19 10:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*38 - 120*	*02/04/19 08:25*	*02/05/19 14:12*	*1*
Nitrobenzene-d5	*75*		*10 - 120*	*02/04/19 08:25*	*02/05/19 14:12*	*1*
Terphenyl-d14	*65*		*21 - 120*	*02/04/19 08:25*	*02/05/19 14:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**220**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 23:42	1
Motor Oil Range Organics [C24-C36]	**120**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*67*		*45 - 120*	*02/06/19 10:01*	*02/07/19 23:42*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.7**	**J**	10	4.1	ug/L		02/01/19 10:32	02/02/19 17:19	1
Arsenic	**57**		10	2.9	ug/L		02/01/19 10:32	02/02/19 17:19	1
Barium	**140**		50	1.6	ug/L		02/01/19 10:32	02/02/19 17:19	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 17:19	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 17:19	1
Chromium	ND		10	0.70	ug/L		02/01/19 10:32	02/02/19 17:19	1
Cobalt	**2.6**		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 17:19	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 17:19	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 17:19	1
Molybdenum	**14**		10	2.9	ug/L		02/01/19 10:32	02/02/19 17:19	1
Nickel	**1.7**	**J**	10	1.0	ug/L		02/01/19 10:32	02/02/19 17:19	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 17:19	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 17:19	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 18:16	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 17:19	1
Zinc	**14**	**J**	20	7.4	ug/L		02/01/19 10:32	02/02/19 17:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/30/19 22:45	1

Client Sample ID: DG-AA11W

Date Collected: 01/30/19 12:50
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-3

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**2300**		50	35	ug/L			02/12/19 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/12/19 14:52*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/12/19 14:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 14:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Acetone	ND		20	10	ug/L			02/12/19 14:52	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 14:52	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 14:52	1
n-Butylbenzene	**0.73**	**J**	1.0	0.40	ug/L			02/12/19 14:52	1
sec-Butylbenzene	**0.68**		0.50	0.25	ug/L			02/12/19 14:52	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 14:52	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Chloroethane	**4.5**		1.0	0.40	ug/L			02/12/19 14:52	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 14:52	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 14:52	1
1,1-Dichloroethane	**1.3**		0.50	0.25	ug/L			02/12/19 14:52	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
cis-1,2-Dichloroethene	**0.52**		0.50	0.25	ug/L			02/12/19 14:52	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 14:52	1

Client Sample ID: DG-AA11W

Date Collected: 01/30/19 12:50
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 14:52	1
Isopropylbenzene	**0.25**	**J**	0.50	0.25	ug/L			02/12/19 14:52	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 14:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 14:52	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 14:52	1
N-Propylbenzene	**0.25**	**J**	0.50	0.25	ug/L			02/12/19 14:52	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 14:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 14:52	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 14:52	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 14:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 14:52	1
1,2,4-Trimethylbenzene	**0.65**		0.50	0.25	ug/L			02/12/19 14:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 14:52	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 14:52	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 14:52	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/12/19 14:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 14:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.44**	**J**	0.50	0.25	ug/L			02/13/19 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/13/19 10:23*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/13/19 10:23*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.9**	**J**	2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Acenaphthene	**3.9**		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Acenaphthylene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Fluorene	**4.3**		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Phenanthrene	**3.5**		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Anthracene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Benzo[a]anthracene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Chrysene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Benzo[a]pyrene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Benzo[b]fluoranthene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10

Client Sample ID: DG-AA11W

Date Collected: 01/30/19 12:50
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-3

Matrix: Water

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Benzo[g,h,i]perylene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Indeno[1,2,3-cd]pyrene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Fluoranthene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Pyrene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10
Dibenz(a,h)anthracene	ND		2.2	1.1	ug/L		02/05/19 11:37	02/07/19 15:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*103*		*38 - 120*	*02/05/19 11:37*	*02/07/19 15:11*	*10*
Nitrobenzene-d5	*118*		*10 - 120*	*02/05/19 11:37*	*02/07/19 15:11*	*10*
Terphenyl-d14	*92*		*21 - 120*	*02/05/19 11:37*	*02/07/19 15:11*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4800**		510	100	ug/L		02/06/19 13:18	02/07/19 23:00	1
Motor Oil Range Organics [C24-C36]	**720**		510	100	ug/L		02/06/19 13:18	02/07/19 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*68*		*45 - 120*	*02/06/19 13:18*	*02/07/19 23:00*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.3**	**J**	10	4.1	ug/L		02/01/19 10:32	02/02/19 17:24	1
Arsenic	**3.5**	**J**	10	2.9	ug/L		02/01/19 10:32	02/02/19 17:24	1
Barium	**110**		50	1.6	ug/L		02/01/19 10:32	02/02/19 17:24	1
Beryllium	**0.65**	**J**	2.0	0.59	ug/L		02/01/19 10:32	02/02/19 17:24	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 17:24	1
Chromium	**1.4**	**J**	10	0.70	ug/L		02/01/19 10:32	02/02/19 17:24	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 17:24	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 17:24	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 17:24	1
Molybdenum	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 17:24	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 17:24	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 17:24	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 17:24	1
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 18:21	1
Vanadium	**0.99**	**J**	10	0.87	ug/L		02/01/19 10:32	02/02/19 17:24	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 17:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/30/19 22:45	1

Client Sample ID: DG-W11W

Date Collected: 01/30/19 15:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-4

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/13/19 10:57*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/13/19 10:57*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 10:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Acetone	ND		20	10	ug/L			02/12/19 15:18	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 15:18	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 15:18	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 15:18	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 15:18	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 15:18	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 15:18	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 15:18	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 15:18	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91088-1

Client Sample ID: DG-W11W
Date Collected: 01/30/19 15:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 15:18	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 15:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 15:18	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 15:18	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 15:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 15:18	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 15:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 15:18	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 15:18	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 15:18	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*02/12/19 15:18*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 15:18*	*1*

Client Sample ID: FB-01.30.19
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-5
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	37	J	50	35	ug/L			02/12/19 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/12/19 15:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/12/19 15:43*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 15:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Acetone	41		20	10	ug/L			02/12/19 15:43	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 15:43	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 15:43	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 15:43	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 15:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 15:43	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 15:43	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 15:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 15:43	1

Client Sample ID: FB-01.30.19
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 15:43	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 15:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 15:43	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 15:43	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 15:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 15:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 15:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 15:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 15:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 15:43	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 15:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*02/12/19 15:43*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 15:43*	*1*

Client Sample ID: TB-01.30.19

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-6

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/11/19 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*02/11/19 13:15*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*02/11/19 13:15*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/11/19 13:15*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Acetone	ND		20	10	ug/L			02/11/19 13:15	1
Benzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Bromobenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Bromoform	ND		1.0	0.40	ug/L			02/11/19 13:15	1
Bromomethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/11/19 13:15	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/11/19 13:15	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/11/19 13:15	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Chloroethane	ND		1.0	0.40	ug/L			02/11/19 13:15	1
Chloroform	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Chloromethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/11/19 13:15	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Dibromomethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/11/19 13:15	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/11/19 13:15	1

Client Sample ID: TB-01.30.19
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91088-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/11/19 13:15	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/11/19 13:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/11/19 13:15	1
Naphthalene	ND		1.0	0.40	ug/L			02/11/19 13:15	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Styrene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Toluene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 13:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 13:15	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Trichloroethene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/11/19 13:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/11/19 13:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/11/19 13:15	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/11/19 13:15	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/11/19 13:15	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/11/19 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*02/11/19 13:15*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/11/19 13:15*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91088-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-231822-F-22 MS	Matrix Spike	101	96
440-231822-F-22 MSD	Matrix Spike Duplicate	99	100
440-232551-A-1 MS	Matrix Spike	102	99
440-232551-A-1 MSD	Matrix Spike Duplicate	99	101
720-91071-A-1 MS	Matrix Spike	95	98
720-91071-A-1 MSD	Matrix Spike Duplicate	97	97
720-91088-1	DG-W7W	97	97
720-91088-2	DG-R5W	96	101
720-91088-3	DG-AA11W	100	100
720-91088-3 - RA	DG-AA11W	101	100
720-91088-4	DG-W11W	96	100
720-91088-5	FB-01.30.19	95	100
720-91088-6	TB-01.30.19	112	107
LCS 440-527862/5	Lab Control Sample	105	96
LCS 440-528098/6	Lab Control Sample	98	98
LCS 440-528365/5	Lab Control Sample	104	95
MB 440-527862/4	Method Blank	109	107
MB 440-528098/5	Method Blank	100	99
MB 440-528365/4	Method Blank	99	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-231822-F-22 MS	Matrix Spike	105	102	96
440-231822-F-22 MSD	Matrix Spike Duplicate	104	101	100
440-232317-C-1 MS	Matrix Spike	105	93	98
440-232317-C-1 MSD	Matrix Spike Duplicate	105	95	98
720-91071-A-1 MS	Matrix Spike	101	96	98
720-91071-A-1 MSD	Matrix Spike Duplicate	103	95	97
720-91088-1	DG-W7W	103	94	97
720-91088-2	DG-R5W	103	93	101
720-91088-3	DG-AA11W	104	94	100
720-91088-4	DG-W11W	104	92	99
720-91088-5	FB-01.30.19	101	93	100
720-91088-6	TB-01.30.19	105	110	107
LCS 440-527863/6	Lab Control Sample	106	111	101
LCS 440-528117/7	Lab Control Sample	100	93	100
LCS 440-528372/6	Lab Control Sample	104	93	101
MB 440-527863/4	Method Blank	108	108	107
MB 440-528117/5	Method Blank	104	92	99
MB 440-528372/4	Method Blank	104	92	99

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (38-120)	NBZ (10-120)	TPHL (21-120)
440-232215-K-4-A MS	Matrix Spike	93	102	94
440-232215-K-4-B MSD	Matrix Spike Duplicate	92	101	92
720-91088-1	DG-W7W	94	81	78
720-91088-2	DG-R5W	83	75	65
720-91088-3	DG-AA11W	103	118	92
LCS 440-526557/2-A	Lab Control Sample	86	75	97
LCS 440-526843/2-A	Lab Control Sample	82	75	105
LCSD 440-526843/3-A	Lab Control Sample Dup	100	93	111
MB 440-526557/1-A	Method Blank	90	77	97
MB 440-526843/1-A	Method Blank	98	95	109

Surrogate Legend
FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
720-91088-1	DG-W7W	77
720-91088-2	DG-R5W	67
720-91088-3	DG-AA11W	68
LCS 440-527042/2-A	Lab Control Sample	69
LCSD 440-527042/3-A	Lab Control Sample Dup	77
MB 440-527042/1-A	Method Blank	66

Surrogate Legend
OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-527862/4
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Acetone	ND		20	10	ug/L			02/11/19 08:41	1
Benzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Bromobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Bromoform	ND		1.0	0.40	ug/L			02/11/19 08:41	1
Bromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/11/19 08:41	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/11/19 08:41	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chloroethane	ND		1.0	0.40	ug/L			02/11/19 08:41	1
Chloroform	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chloromethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/11/19 08:41	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Dibromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/11/19 08:41	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
2-Hexanone	ND		5.0	2.5	ug/L			02/11/19 08:41	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/11/19 08:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/11/19 08:41	1
Naphthalene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Styrene	ND		0.50	0.25	ug/L			02/11/19 08:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527862/4
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Toluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Trichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/11/19 08:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/11/19 08:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/11/19 08:41	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/11/19 08:41	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/11/19 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*02/11/19 08:41*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/11/19 08:41*	*1*

Lab Sample ID: LCS 440-527862/5
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	28.3		ug/L		113	63 - 131
Acetone	25.0	27.9		ug/L		112	10 - 150
Benzene	25.0	26.9		ug/L		108	68 - 130
Dichlorobromomethane	25.0	29.2		ug/L		117	70 - 132
Bromobenzene	25.0	26.1		ug/L		104	70 - 130
Chlorobromomethane	25.0	27.9		ug/L		112	70 - 130
Bromoform	25.0	26.5		ug/L		106	60 - 148
Bromomethane	25.0	25.1		ug/L		100	64 - 139
2-Butanone (MEK)	25.0	24.4		ug/L		98	44 - 150
n-Butylbenzene	25.0	28.3		ug/L		113	65 - 150
sec-Butylbenzene	25.0	26.1		ug/L		104	70 - 138
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
Carbon disulfide	25.0	24.8		ug/L		99	52 - 136
Carbon tetrachloride	25.0	26.9		ug/L		108	60 - 150
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	24.4		ug/L		98	64 - 135
Chloroform	25.0	24.7		ug/L		99	70 - 130
Chloromethane	25.0	21.9		ug/L		88	47 - 140
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
4-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527862/5
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	27.4		ug/L		110	69 - 145
1,2-Dichlorobenzene	25.0	26.4		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	27.3		ug/L		109	70 - 130
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	26.9		ug/L		107	70 - 130
1,1-Dichloropropene	25.0	26.6		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.8		ug/L		107	52 - 140
Ethylene Dibromide	25.0	26.7		ug/L		107	70 - 130
Dibromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	21.3		ug/L		85	29 - 150
1,1-Dichloroethane	25.0	26.7		ug/L		107	64 - 130
1,2-Dichloroethane	25.0	29.0		ug/L		116	57 - 138
1,1-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
cis-1,2-Dichloroethene	25.0	28.4		ug/L		114	70 - 133
trans-1,2-Dichloroethene	25.0	28.1		ug/L		112	70 - 130
1,2-Dichloropropane	25.0	28.0		ug/L		112	67 - 130
cis-1,3-Dichloropropene	25.0	29.5		ug/L		118	70 - 133
trans-1,3-Dichloropropene	25.0	29.1		ug/L		116	70 - 132
Ethylbenzene	25.0	25.3		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	28.2		ug/L		113	10 - 150
2-Hexanone	25.0	24.7		ug/L		99	10 - 150
Isopropylbenzene	25.0	26.2		ug/L		105	70 - 136
4-Isopropyltoluene	25.0	26.7		ug/L		107	70 - 132
Methylene Chloride	25.0	24.0		ug/L		96	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	24.4		ug/L		97	59 - 149
Naphthalene	25.0	26.3		ug/L		105	60 - 140
N-Propylbenzene	25.0	26.1		ug/L		104	67 - 139
Styrene	25.0	26.0		ug/L		104	70 - 134
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	60 - 141
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	63 - 130
Tetrachloroethene	25.0	25.7		ug/L		103	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	25.0	28.6		ug/L		114	60 - 140
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	60 - 140
1,1,1-Trichloroethane	25.0	28.1		ug/L		112	70 - 130
1,1,2-Trichloroethane	25.0	27.8		ug/L		111	70 - 130
Trichloroethene	25.0	27.2		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	25.6		ug/L		102	60 - 150
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.4		ug/L		102	60 - 140
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 135
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		105	70 - 136
Vinyl acetate	25.0	28.9		ug/L		116	48 - 140
Vinyl chloride	25.0	22.7		ug/L		91	59 - 133
m-Xylene & p-Xylene	25.0	27.6		ug/L		110	70 - 130
o-Xylene	25.0	26.8		ug/L		107	70 - 130
2,2-Dichloropropane	25.0	29.2		ug/L		117	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527862/5
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MS
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	26.4		ug/L		106	70 - 130
Acetone	ND		25.0	23.9		ug/L		95	10 - 150
Benzene	ND		25.0	26.7		ug/L		107	66 - 130
Dichlorobromomethane	ND		25.0	27.5		ug/L		110	70 - 138
Bromobenzene	ND		25.0	24.9		ug/L		100	70 - 130
Chlorobromomethane	ND		25.0	27.1		ug/L		109	70 - 130
Bromoform	ND		25.0	24.5		ug/L		98	59 - 150
Bromomethane	ND		25.0	24.2		ug/L		97	62 - 131
2-Butanone (MEK)	ND		25.0	19.3		ug/L		77	48 - 140
n-Butylbenzene	ND		25.0	27.8		ug/L		111	61 - 149
sec-Butylbenzene	ND		25.0	25.6		ug/L		103	67 - 134
tert-Butylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
Carbon disulfide	ND		25.0	24.4		ug/L		98	49 - 140
Carbon tetrachloride	ND		25.0	26.4		ug/L		106	60 - 150
Chlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130
Chloroethane	ND		25.0	24.5		ug/L		98	68 - 130
Chloroform	ND		25.0	23.2		ug/L		93	70 - 130
Chloromethane	ND		25.0	21.8		ug/L		87	39 - 144
2-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 130
4-Chlorotoluene	ND		25.0	25.0		ug/L		100	70 - 130
Chlorodibromomethane	ND		25.0	26.4		ug/L		106	70 - 148
1,2-Dichlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.4		ug/L		105	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	ND		25.0	25.4		ug/L		101	70 - 130
1,1-Dichloropropene	ND		25.0	27.8		ug/L		111	64 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	23.6		ug/L		94	48 - 140
Ethylene Dibromide	ND		25.0	25.2		ug/L		101	70 - 131
Dibromomethane	ND		25.0	23.9		ug/L		96	70 - 130
Dichlorodifluoromethane	ND		25.0	20.5		ug/L		82	25 - 142
1,1-Dichloroethane	ND		25.0	26.5		ug/L		106	65 - 130
1,2-Dichloroethane	ND		25.0	27.6		ug/L		110	56 - 146
1,1-Dichloroethene	ND		25.0	24.8		ug/L		99	70 - 130
cis-1,2-Dichloroethene	ND		25.0	27.6		ug/L		111	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.9		ug/L		112	70 - 130
1,2-Dichloropropane	ND		25.0	26.9		ug/L		107	69 - 130
cis-1,3-Dichloropropene	ND		25.0	28.2		ug/L		113	70 - 133
trans-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	70 - 138
Ethylbenzene	ND		25.0	25.5		ug/L		102	70 - 130
Hexachlorobutadiene	ND		25.0	26.3		ug/L		105	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231822-F-22 MS
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		25.0	20.8		ug/L		83	10 - 150
Isopropylbenzene	0.38	J	25.0	26.3		ug/L		104	70 - 132
4-Isopropyltoluene	ND		25.0	25.9		ug/L		103	70 - 130
Methylene Chloride	ND		25.0	22.8		ug/L		91	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.9		ug/L		87	52 - 150
Naphthalene	ND		25.0	24.1		ug/L		96	60 - 140
N-Propylbenzene	0.32	J	25.0	26.1		ug/L		103	66 - 135
Styrene	ND		25.0	24.9		ug/L		100	29 - 150
1,1,1,2-Tetrachloroethane	ND		25.0	25.8		ug/L		103	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.1		ug/L		92	63 - 130
Tetrachloroethene	ND		25.0	26.7		ug/L		107	70 - 137
Toluene	0.60		25.0	25.8		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.9		ug/L		108	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.7		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		25.0	28.1		ug/L		113	70 - 130
1,1,2-Trichloroethane	ND		25.0	27.5		ug/L		110	70 - 130
Trichloroethene	ND		25.0	26.7		ug/L		107	70 - 130
Trichlorofluoromethane	ND		25.0	25.7		ug/L		103	60 - 150
1,2,3-Trichloropropane	ND		25.0	22.0		ug/L		88	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.7		ug/L		103	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	25.6		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.3		ug/L		101	70 - 130
Vinyl acetate	ND		25.0	26.4		ug/L		106	23 - 150
Vinyl chloride	ND		25.0	22.4		ug/L		90	50 - 137
m-Xylene & p-Xylene	0.57	J	25.0	27.8		ug/L		109	70 - 133
o-Xylene	0.29	J	25.0	25.9		ug/L		102	70 - 133
2,2-Dichloropropane	ND		25.0	28.7		ug/L		115	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	28.8		ug/L		115	70 - 130	9	25
Acetone	ND		25.0	24.5		ug/L		98	10 - 150	3	35
Benzene	ND		25.0	27.2		ug/L		109	66 - 130	2	20
Dichlorobromomethane	ND		25.0	28.0		ug/L		112	70 - 138	1	20
Bromobenzene	ND		25.0	26.1		ug/L		104	70 - 130	5	20
Chlorobromomethane	ND		25.0	27.4		ug/L		109	70 - 130	1	25
Bromoform	ND		25.0	25.9		ug/L		103	59 - 150	5	25
Bromomethane	ND		25.0	24.7		ug/L		99	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	19.5		ug/L		78	48 - 140	1	40
n-Butylbenzene	ND		25.0	28.7		ug/L		115	61 - 149	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	25.9		ug/L		104	67 - 134	1	20
tert-Butylbenzene	ND		25.0	26.5		ug/L		106	70 - 130	4	20
Carbon disulfide	ND		25.0	24.1		ug/L		96	49 - 140	1	20
Carbon tetrachloride	ND		25.0	26.2		ug/L		105	60 - 150	1	25
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	4	20
Chloroethane	ND		25.0	24.3		ug/L		97	68 - 130	1	25
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130	4	20
Chloromethane	ND		25.0	20.9		ug/L		83	39 - 144	4	25
2-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 130	0	20
4-Chlorotoluene	ND		25.0	25.9		ug/L		104	70 - 130	4	20
Chlorodibromomethane	ND		25.0	27.2		ug/L		109	70 - 148	3	25
1,2-Dichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	25.7		ug/L		103	70 - 130	1	25
1,1-Dichloropropene	ND		25.0	27.3		ug/L		109	64 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.3		ug/L		97	48 - 140	3	30
Ethylene Dibromide	ND		25.0	26.3		ug/L		105	70 - 131	4	25
Dibromomethane	ND		25.0	24.9		ug/L		99	70 - 130	4	25
Dichlorodifluoromethane	ND		25.0	19.9		ug/L		80	25 - 142	3	30
1,1-Dichloroethane	ND		25.0	27.0		ug/L		108	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	28.4		ug/L		114	56 - 146	3	20
1,1-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130	2	20
cis-1,2-Dichloroethene	ND		25.0	27.4		ug/L		109	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	27.1		ug/L		108	70 - 130	3	20
1,2-Dichloropropane	ND		25.0	27.5		ug/L		110	69 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	29.4		ug/L		118	70 - 133	4	20
trans-1,3-Dichloropropene	ND		25.0	28.8		ug/L		115	70 - 138	6	25
Ethylbenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
Hexachlorobutadiene	ND		25.0	28.0		ug/L		112	10 - 150	6	20
2-Hexanone	ND		25.0	22.0		ug/L		88	10 - 150	6	35
Isopropylbenzene	0.38	J	25.0	27.2		ug/L		107	70 - 132	3	20
4-Isopropyltoluene	ND		25.0	27.4		ug/L		109	70 - 130	6	20
Methylene Chloride	ND		25.0	23.2		ug/L		93	52 - 130	2	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.0		ug/L		92	52 - 150	5	35
Naphthalene	ND		25.0	26.0		ug/L		104	60 - 140	8	30
N-Propylbenzene	0.32	J	25.0	27.1		ug/L		107	66 - 135	4	20
Styrene	ND		25.0	26.4		ug/L		106	29 - 150	6	35
1,1,1,2-Tetrachloroethane	ND		25.0	26.9		ug/L		108	60 - 149	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	63 - 130	4	30
Tetrachloroethene	ND		25.0	27.3		ug/L		109	70 - 137	2	20
Toluene	0.60		25.0	26.7		ug/L		105	70 - 130	4	20
1,2,3-Trichlorobenzene	ND		25.0	28.7		ug/L		115	60 - 140	7	20
1,2,4-Trichlorobenzene	ND		25.0	27.2		ug/L		109	60 - 140	5	20
1,1,1-Trichloroethane	ND		25.0	27.8		ug/L		111	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	29.2		ug/L		117	70 - 130	6	25
Trichloroethene	ND		25.0	27.2		ug/L		109	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	25.5		ug/L		102	60 - 150	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	22.1		ug/L		88	60 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.9		ug/L		100	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		25.0	27.0		ug/L		108	70 - 130	5	25
1,3,5-Trimethylbenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
Vinyl acetate	ND		25.0	26.8		ug/L		107	23 - 150	1	30
Vinyl chloride	ND		25.0	22.9		ug/L		92	50 - 137	2	30
m-Xylene & p-Xylene	0.57	J	25.0	28.3		ug/L		111	70 - 133	2	25
o-Xylene	0.29	J	25.0	27.6		ug/L		109	70 - 133	6	20
2,2-Dichloropropane	ND		25.0	28.7		ug/L		115	69 - 138	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: MB 440-528098/5
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Acetone	ND		20	10	ug/L			02/12/19 08:31	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 08:31	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 08:31	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 08:31	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 08:31	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 08:31	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 08:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528098/5
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 08:31	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 08:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 08:31	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 08:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 08:31	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 08:31	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/12/19 08:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 08:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528098/6
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	9.85		ug/L		98	63 - 131
Acetone	10.0	ND		ug/L		33	10 - 150
Benzene	10.0	9.96		ug/L		100	68 - 130
Dichlorobromomethane	10.0	9.57		ug/L		96	70 - 132
Bromobenzene	10.0	10.1		ug/L		101	70 - 130
Chlorobromomethane	10.0	11.0		ug/L		110	70 - 130
Bromoform	10.0	9.99		ug/L		100	60 - 148
Bromomethane	10.0	10.3		ug/L		103	64 - 139
2-Butanone (MEK)	10.0	9.00		ug/L		90	44 - 150
n-Butylbenzene	10.0	9.89		ug/L		99	65 - 150
sec-Butylbenzene	10.0	9.69		ug/L		97	70 - 138
tert-Butylbenzene	10.0	10.1		ug/L		101	70 - 130
Carbon disulfide	10.0	9.38		ug/L		94	52 - 136
Carbon tetrachloride	10.0	9.53		ug/L		95	60 - 150
Chlorobenzene	10.0	10.4		ug/L		104	70 - 130
Chloroethane	10.0	9.18		ug/L		92	64 - 135
Chloroform	10.0	10.1		ug/L		101	70 - 130
Chloromethane	10.0	7.71		ug/L		77	47 - 140
2-Chlorotoluene	10.0	9.78		ug/L		98	70 - 130
4-Chlorotoluene	10.0	9.78		ug/L		98	70 - 130
Chlorodibromomethane	10.0	9.99		ug/L		100	69 - 145
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	10.0	9.94		ug/L		99	70 - 130
1,1-Dichloropropene	10.0	10.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	8.69		ug/L		87	52 - 140
Ethylene Dibromide	10.0	10.5		ug/L		105	70 - 130
Dibromomethane	10.0	10.0		ug/L		100	70 - 130
Dichlorodifluoromethane	10.0	7.63		ug/L		76	29 - 150
1,1-Dichloroethane	10.0	9.70		ug/L		97	64 - 130
1,2-Dichloroethane	10.0	9.85		ug/L		98	57 - 138
1,1-Dichloroethene	10.0	10.6		ug/L		106	70 - 130
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	70 - 133
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 130
1,2-Dichloropropane	10.0	9.89		ug/L		99	67 - 130
cis-1,3-Dichloropropene	10.0	9.70		ug/L		97	70 - 133
trans-1,3-Dichloropropene	10.0	9.33		ug/L		93	70 - 132
Ethylbenzene	10.0	9.66		ug/L		97	70 - 130
Hexachlorobutadiene	10.0	10.8		ug/L		108	10 - 150
2-Hexanone	10.0	9.58		ug/L		96	10 - 150
Isopropylbenzene	10.0	9.90		ug/L		99	70 - 136
4-Isopropyltoluene	10.0	10.4		ug/L		104	70 - 132
Methylene Chloride	10.0	8.87		ug/L		89	52 - 130
4-Methyl-2-pentanone (MIBK)	10.0	8.24		ug/L		82	59 - 149
Naphthalene	10.0	9.65		ug/L		97	60 - 140
N-Propylbenzene	10.0	9.39		ug/L		94	67 - 139
Styrene	10.0	9.52		ug/L		95	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528098/6
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	60 - 141
1,1,2,2-Tetrachloroethane	10.0	9.77		ug/L		98	63 - 130
Tetrachloroethene	10.0	10.6		ug/L		106	70 - 130
Toluene	10.0	9.49		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	10.0	10.4		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	10.0	10.4		ug/L		104	60 - 140
1,1,1-Trichloroethane	10.0	9.96		ug/L		100	70 - 130
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	70 - 130
Trichloroethene	10.0	11.0		ug/L		110	70 - 130
Trichlorofluoromethane	10.0	10.5		ug/L		105	60 - 150
1,2,3-Trichloropropane	10.0	11.0		ug/L		110	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.8		ug/L		108	60 - 140
1,2,4-Trimethylbenzene	10.0	9.77		ug/L		98	70 - 135
1,3,5-Trimethylbenzene	10.0	9.81		ug/L		98	70 - 136
Vinyl acetate	10.0	8.69		ug/L		87	48 - 140
Vinyl chloride	10.0	8.90		ug/L		89	59 - 133
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	70 - 130
o-Xylene	10.0	10.3		ug/L		103	70 - 130
2,2-Dichloropropane	10.0	9.71		ug/L		97	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91071-A-1 MS
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	1.3		10.0	10.4		ug/L		91	70 - 130
Acetone	ND		10.0	11.3	J	ug/L		113	10 - 150
Benzene	1.5		10.0	11.3		ug/L		98	66 - 130
Dichlorobromomethane	ND		10.0	9.22		ug/L		92	70 - 138
Bromobenzene	ND		10.0	10.5		ug/L		105	70 - 130
Chlorobromomethane	ND		10.0	10.5		ug/L		105	70 - 130
Bromoform	ND		10.0	9.63		ug/L		96	59 - 150
Bromomethane	ND		10.0	9.82		ug/L		98	62 - 131
2-Butanone (MEK)	ND		10.0	10.2		ug/L		102	48 - 140
n-Butylbenzene	ND		10.0	10.5		ug/L		105	61 - 149
sec-Butylbenzene	ND		10.0	10.3		ug/L		103	67 - 134
tert-Butylbenzene	ND		10.0	10.8		ug/L		108	70 - 130
Carbon disulfide	ND		10.0	9.83		ug/L		98	49 - 140
Carbon tetrachloride	ND		10.0	10.1		ug/L		101	60 - 150
Chlorobenzene	ND		10.0	10.5		ug/L		105	70 - 130
Chloroethane	ND		10.0	9.42		ug/L		94	68 - 130
Chloroform	ND		10.0	9.85		ug/L		99	70 - 130
Chloromethane	ND		10.0	7.50		ug/L		75	39 - 144

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91071-A-1 MS
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		10.0	9.88		ug/L		99	70 - 130
4-Chlorotoluene	ND		10.0	10.2		ug/L		102	70 - 130
Chlorodibromomethane	ND		10.0	9.83		ug/L		98	70 - 148
1,2-Dichlorobenzene	ND		10.0	9.96		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,3-Dichloropropane	ND		10.0	9.82		ug/L		98	70 - 130
1,1-Dichloropropene	ND		10.0	10.2		ug/L		102	64 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.76		ug/L		88	48 - 140
Ethylene Dibromide	ND		10.0	10.2		ug/L		102	70 - 131
Dibromomethane	ND		10.0	9.99		ug/L		100	70 - 130
Dichlorodifluoromethane	ND		10.0	8.33		ug/L		83	25 - 142
1,1-Dichloroethane	ND		10.0	9.71		ug/L		97	65 - 130
1,2-Dichloroethane	ND		10.0	9.18		ug/L		92	56 - 146
1,1-Dichloroethene	ND		10.0	11.0		ug/L		110	70 - 130
cis-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.8		ug/L		108	70 - 130
1,2-Dichloropropane	ND		10.0	9.53		ug/L		95	69 - 130
cis-1,3-Dichloropropene	ND		10.0	9.42		ug/L		94	70 - 133
trans-1,3-Dichloropropene	ND		10.0	9.21		ug/L		92	70 - 138
Ethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130
Hexachlorobutadiene	ND		10.0	10.8		ug/L		108	10 - 150
2-Hexanone	ND		10.0	9.66		ug/L		97	10 - 150
Isopropylbenzene	0.48	J	10.0	10.6		ug/L		101	70 - 132
4-Isopropyltoluene	0.26	J	10.0	11.1		ug/L		108	70 - 130
Methylene Chloride	ND		10.0	8.41		ug/L		84	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.26		ug/L		83	52 - 150
Naphthalene	2.1		10.0	12.2		ug/L		101	60 - 140
N-Propylbenzene	0.35	J	10.0	10.3		ug/L		100	66 - 135
Styrene	ND		10.0	9.47		ug/L		95	29 - 150
1,1,1,2-Tetrachloroethane	ND		10.0	9.77		ug/L		98	60 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	9.97		ug/L		100	63 - 130
Tetrachloroethene	ND		10.0	11.1		ug/L		111	70 - 137
Toluene	0.53		10.0	10.1		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	ND		10.0	10.5		ug/L		105	60 - 140
1,1,1-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130
1,1,2-Trichloroethane	ND		10.0	10.1		ug/L		101	70 - 130
Trichloroethene	ND		10.0	11.0		ug/L		110	70 - 130
Trichlorofluoromethane	ND		10.0	10.9		ug/L		109	60 - 150
1,2,3-Trichloropropane	ND		10.0	11.1		ug/L		111	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.0		ug/L		110	60 - 140
1,2,4-Trimethylbenzene	0.83		10.0	10.8		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	ND		10.0	10.4		ug/L		104	70 - 130
Vinyl acetate	ND		10.0	8.21		ug/L		82	23 - 150
Vinyl chloride	ND		10.0	9.19		ug/L		92	50 - 137
m-Xylene & p-Xylene	0.61	J	10.0	11.1		ug/L		105	70 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91071-A-1 MS
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.91		10.0	11.2		ug/L		103	70 - 133
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91071-A-1 MSD
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	1.3		10.0	10.4		ug/L		91	70 - 130	0	25
Acetone	ND		10.0	11.0	J	ug/L		110	10 - 150	2	35
Benzene	1.5		10.0	11.2		ug/L		97	66 - 130	1	20
Dichlorobromomethane	ND		10.0	9.20		ug/L		92	70 - 138	0	20
Bromobenzene	ND		10.0	9.95		ug/L		99	70 - 130	5	20
Chlorobromomethane	ND		10.0	10.4		ug/L		104	70 - 130	1	25
Bromoform	ND		10.0	9.32		ug/L		93	59 - 150	3	25
Bromomethane	ND		10.0	9.87		ug/L		99	62 - 131	1	25
2-Butanone (MEK)	ND		10.0	8.76		ug/L		88	48 - 140	15	40
n-Butylbenzene	ND		10.0	10.4		ug/L		104	61 - 149	1	20
sec-Butylbenzene	ND		10.0	10.3		ug/L		103	67 - 134	0	20
tert-Butylbenzene	ND		10.0	10.7		ug/L		107	70 - 130	1	20
Carbon disulfide	ND		10.0	9.63		ug/L		96	49 - 140	2	20
Carbon tetrachloride	ND		10.0	10.1		ug/L		101	60 - 150	0	25
Chlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	4	20
Chloroethane	ND		10.0	9.16		ug/L		92	68 - 130	3	25
Chloroform	ND		10.0	9.90		ug/L		99	70 - 130	1	20
Chloromethane	ND		10.0	7.43		ug/L		74	39 - 144	1	25
2-Chlorotoluene	ND		10.0	9.67		ug/L		97	70 - 130	2	20
4-Chlorotoluene	ND		10.0	9.72		ug/L		97	70 - 130	5	20
Chlorodibromomethane	ND		10.0	9.69		ug/L		97	70 - 148	1	25
1,2-Dichlorobenzene	ND		10.0	10.0		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
1,4-Dichlorobenzene	ND		10.0	10.0		ug/L		100	70 - 130	3	20
1,3-Dichloropropane	ND		10.0	9.52		ug/L		95	70 - 130	3	25
1,1-Dichloropropene	ND		10.0	10.2		ug/L		102	64 - 130	0	20
1,2-Dibromo-3-Chloropropane	ND		10.0	9.67		ug/L		97	48 - 140	10	30
Ethylene Dibromide	ND		10.0	9.77		ug/L		98	70 - 131	5	25
Dibromomethane	ND		10.0	9.91		ug/L		99	70 - 130	1	25
Dichlorodifluoromethane	ND		10.0	8.10		ug/L		81	25 - 142	3	30
1,1-Dichloroethane	ND		10.0	9.50		ug/L		95	65 - 130	2	20
1,2-Dichloroethane	ND		10.0	9.11		ug/L		91	56 - 146	1	20
1,1-Dichloroethene	ND		10.0	10.7		ug/L		107	70 - 130	2	20
cis-1,2-Dichloroethene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
trans-1,2-Dichloroethene	ND		10.0	10.6		ug/L		106	70 - 130	2	20
1,2-Dichloropropane	ND		10.0	9.60		ug/L		96	69 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91071-A-1 MSD
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND		10.0	9.33		ug/L		93	70 - 133	1	20
trans-1,3-Dichloropropene	ND		10.0	9.00		ug/L		90	70 - 138	2	25
Ethylbenzene	ND		10.0	9.87		ug/L		99	70 - 130	4	20
Hexachlorobutadiene	ND		10.0	10.7		ug/L		107	10 - 150	1	20
2-Hexanone	ND		10.0	8.98		ug/L		90	10 - 150	7	35
Isopropylbenzene	0.48	J	10.0	10.5		ug/L		100	70 - 132	1	20
4-Isopropyltoluene	0.26	J	10.0	10.8		ug/L		105	70 - 130	3	20
Methylene Chloride	ND		10.0	8.67		ug/L		87	52 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.15		ug/L		82	52 - 150	1	35
Naphthalene	2.1		10.0	12.2		ug/L		101	60 - 140	0	30
N-Propylbenzene	0.35	J	10.0	10.0		ug/L		97	66 - 135	3	20
Styrene	ND		10.0	9.12		ug/L		91	29 - 150	4	35
1,1,1,2-Tetrachloroethane	ND		10.0	9.53		ug/L		95	60 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		10.0	9.86		ug/L		99	63 - 130	1	30
Tetrachloroethene	ND		10.0	10.4		ug/L		104	70 - 137	6	20
Toluene	0.53		10.0	9.82		ug/L		93	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		10.0	10.4		ug/L		104	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		10.0	10.6		ug/L		106	60 - 140	1	20
1,1,1-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	0	20
1,1,2-Trichloroethane	ND		10.0	9.72		ug/L		97	70 - 130	4	25
Trichloroethene	ND		10.0	10.8		ug/L		108	70 - 130	3	20
Trichlorofluoromethane	ND		10.0	10.8		ug/L		108	60 - 150	1	25
1,2,3-Trichloropropane	ND		10.0	11.0		ug/L		110	60 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.0		ug/L		110	60 - 140	1	20
1,2,4-Trimethylbenzene	0.83		10.0	10.6		ug/L		98	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		10.0	10.2		ug/L		102	70 - 130	2	20
Vinyl acetate	ND		10.0	8.26		ug/L		83	23 - 150	1	30
Vinyl chloride	ND		10.0	9.07		ug/L		91	50 - 137	1	30
m-Xylene & p-Xylene	0.61	J	10.0	10.7		ug/L		101	70 - 133	4	25
o-Xylene	0.91		10.0	10.9		ug/L		100	70 - 133	3	20
2,2-Dichloropropane	ND		10.0	10.0		ug/L		100	69 - 138	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: MB 440-528365/4
Matrix: Water
Analysis Batch: 528365

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 07:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/13/19 07:59*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/13/19 07:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528365/5
Matrix: Water
Analysis Batch: 528365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl chloride			25.0	24.8		ug/L		99	59 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*95*		*80 - 128*

Lab Sample ID: 440-232551-A-1 MS
Matrix: Water
Analysis Batch: 528365

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl chloride	ND		25.0	22.8		ug/L		91	50 - 137		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-232551-A-1 MSD
Matrix: Water
Analysis Batch: 528365

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	ND		25.0	22.2		ug/L		89	50 - 137	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-527863/4
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/11/19 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/11/19 08:41*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*02/11/19 08:41*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/11/19 08:41*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-527863/6
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	457		ug/L		91	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MS
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	100		1730	1820		ug/L		100	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	100		1730	1830		ug/L		100	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: MB 440-528117/5
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/12/19 08:31*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/12/19 08:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 08:31*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-528117/7
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	442		ug/L		88	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-91071-A-1 MS
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	87		690	770		ug/L		99	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91071-A-1 MSD
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	87		690	757		ug/L		97	50 - 145	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: MB 440-528372/4
Matrix: Water
Analysis Batch: 528372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 07:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/13/19 07:59*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/13/19 07:59*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 07:59*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-528372/6
Matrix: Water
Analysis Batch: 528372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	436		ug/L		87	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-232317-C-1 MS
Matrix: Water
Analysis Batch: 528372

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	1300		3450	4400		ug/L		90	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-232317-C-1 MSD
Matrix: Water
Analysis Batch: 528372

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1300		3450	4400		ug/L		90	50 - 145	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-526557/1-A
Matrix: Water
Analysis Batch: 526850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Acenaphthene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Acenaphthylene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Fluorene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Phenanthrene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Anthracene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-526557/1-A
Matrix: Water
Analysis Batch: 526850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Fluoranthene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Pyrene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/04/19 08:25	02/05/19 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*38 - 120*	*02/04/19 08:25*	*02/05/19 12:17*	*1*
Nitrobenzene-d5	*77*		*10 - 120*	*02/04/19 08:25*	*02/05/19 12:17*	*1*
Terphenyl-d14	*97*		*21 - 120*	*02/04/19 08:25*	*02/05/19 12:17*	*1*

Lab Sample ID: LCS 440-526557/2-A
Matrix: Water
Analysis Batch: 526850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.717		ug/L		72	50 - 120
Acenaphthene	1.00	0.832		ug/L		83	55 - 120
Acenaphthylene	1.00	0.822		ug/L		82	53 - 120
Fluorene	1.00	0.891		ug/L		89	56 - 120
Phenanthrene	1.00	0.856		ug/L		86	56 - 120
Anthracene	1.00	0.795		ug/L		79	54 - 120
Benzo[a]anthracene	1.00	0.848		ug/L		85	53 - 120
Chrysene	1.00	0.872		ug/L		87	56 - 120
Benzo[a]pyrene	1.00	0.782		ug/L		78	44 - 120
Benzo[b]fluoranthene	1.00	0.854		ug/L		85	48 - 120
Benzo[k]fluoranthene	1.00	0.854		ug/L		85	47 - 121
Benzo[g,h,i]perylene	1.00	0.839		ug/L		84	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.833		ug/L		83	38 - 120
Fluoranthene	1.00	0.894		ug/L		89	59 - 120
Pyrene	1.00	0.876		ug/L		88	59 - 120
Dibenz(a,h)anthracene	1.00	0.836		ug/L		84	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*86*		*38 - 120*
Nitrobenzene-d5	*75*		*10 - 120*
Terphenyl-d14	*97*		*21 - 120*

Lab Sample ID: 440-232215-K-4-A MS
Matrix: Water
Analysis Batch: 527041

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		0.980	0.797		ug/L		81	10 - 150

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 440-232215-K-4-A MS
Matrix: Water
Analysis Batch: 527041

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		0.980	0.876		ug/L		89	10 - 150
Acenaphthylene	ND		0.980	0.891		ug/L		91	23 - 132
Fluorene	ND		0.980	0.943		ug/L		96	10 - 150
Phenanthrene	ND		0.980	0.865		ug/L		88	10 - 150
Anthracene	ND		0.980	0.831		ug/L		85	13 - 136
Benzo[a]anthracene	ND		0.980	0.874		ug/L		89	10 - 123
Chrysene	ND		0.980	0.862		ug/L		88	10 - 131
Benzo[a]pyrene	ND		0.980	0.826		ug/L		84	10 - 122
Benzo[b]fluoranthene	ND		0.980	0.874		ug/L		89	10 - 129
Benzo[k]fluoranthene	ND		0.980	0.816		ug/L		83	10 - 132
Benzo[g,h,i]perylene	ND		0.980	0.588		ug/L		60	10 - 126
Indeno[1,2,3-cd]pyrene	ND		0.980	0.667		ug/L		68	10 - 121
Fluoranthene	ND		0.980	0.885		ug/L		90	11 - 148
Pyrene	ND		0.980	0.873		ug/L		89	13 - 144
Dibenz(a,h)anthracene	ND		0.980	0.690		ug/L		70	10 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*38 - 120*
Nitrobenzene-d5	*102*		*10 - 120*
Terphenyl-d14	*94*		*21 - 120*

Lab Sample ID: 440-232215-K-4-B MSD
Matrix: Water
Analysis Batch: 527041

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		1.01	0.807		ug/L		80	10 - 150	1	35
Acenaphthene	ND		1.01	0.883		ug/L		88	10 - 150	1	35
Acenaphthylene	ND		1.01	0.905		ug/L		90	23 - 132	2	35
Fluorene	ND		1.01	0.959		ug/L		95	10 - 150	2	35
Phenanthrene	ND		1.01	0.880		ug/L		88	10 - 150	2	35
Anthracene	ND		1.01	0.844		ug/L		84	13 - 136	2	35
Benzo[a]anthracene	ND		1.01	0.889		ug/L		88	10 - 123	2	35
Chrysene	ND		1.01	0.882		ug/L		88	10 - 131	2	35
Benzo[a]pyrene	ND		1.01	0.847		ug/L		84	10 - 122	2	35
Benzo[b]fluoranthene	ND		1.01	0.885		ug/L		88	10 - 129	1	35
Benzo[k]fluoranthene	ND		1.01	0.863		ug/L		86	10 - 132	6	35
Benzo[g,h,i]perylene	ND		1.01	0.603		ug/L		60	10 - 126	3	35
Indeno[1,2,3-cd]pyrene	ND		1.01	0.684		ug/L		68	10 - 121	3	35
Fluoranthene	ND		1.01	0.903		ug/L		90	11 - 148	2	35
Pyrene	ND		1.01	0.886		ug/L		88	13 - 144	1	35
Dibenz(a,h)anthracene	ND		1.01	0.708		ug/L		70	10 - 119	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*92*		*38 - 120*
Nitrobenzene-d5	*101*		*10 - 120*
Terphenyl-d14	*92*		*21 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-526843/1-A
Matrix: Water
Analysis Batch: 527279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Acenaphthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Acenaphthylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Fluorene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Phenanthrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Chrysene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*38 - 120*	*02/05/19 11:37*	*02/07/19 09:07*	*1*
Nitrobenzene-d5	*95*		*10 - 120*	*02/05/19 11:37*	*02/07/19 09:07*	*1*
Terphenyl-d14	*109*		*21 - 120*	*02/05/19 11:37*	*02/07/19 09:07*	*1*

Lab Sample ID: LCS 440-526843/2-A
Matrix: Water
Analysis Batch: 527279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.670		ug/L		67	50 - 120
Acenaphthene	1.00	0.795		ug/L		79	55 - 120
Acenaphthylene	1.00	0.769		ug/L		77	53 - 120
Fluorene	1.00	0.876		ug/L		88	56 - 120
Phenanthrene	1.00	0.887		ug/L		89	56 - 120
Anthracene	1.00	0.843		ug/L		84	54 - 120
Benzo[a]anthracene	1.00	0.907		ug/L		91	53 - 120
Chrysene	1.00	0.924		ug/L		92	56 - 120
Benzo[a]pyrene	1.00	0.852		ug/L		85	44 - 120
Benzo[b]fluoranthene	1.00	0.925		ug/L		93	48 - 120
Benzo[k]fluoranthene	1.00	0.899		ug/L		90	47 - 121
Benzo[g,h,i]perylene	1.00	0.894		ug/L		89	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.895		ug/L		90	38 - 120
Fluoranthene	1.00	0.908		ug/L		91	59 - 120
Pyrene	1.00	0.893		ug/L		89	59 - 120
Dibenz(a,h)anthracene	1.00	0.894		ug/L		89	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*38 - 120*
Nitrobenzene-d5	*75*		*10 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-526843/2-A
Matrix: Water
Analysis Batch: 527279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526843

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	105		21 - 120

Lab Sample ID: LCSD 440-526843/3-A
Matrix: Water
Analysis Batch: 527279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526843

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.00	0.857		ug/L		86	50 - 120	24	35
Acenaphthene			1.00	0.976		ug/L		98	55 - 120	20	35
Acenaphthylene			1.00	0.959		ug/L		96	53 - 120	22	35
Fluorene			1.00	1.03		ug/L		103	56 - 120	16	35
Phenanthrene			1.00	0.950		ug/L		95	56 - 120	7	35
Anthracene			1.00	0.928		ug/L		93	54 - 120	10	35
Benzo[a]anthracene			1.00	0.957		ug/L		96	53 - 120	5	35
Chrysene			1.00	0.967		ug/L		97	56 - 120	5	35
Benzo[a]pyrene			1.00	0.911		ug/L		91	44 - 120	7	35
Benzo[b]fluoranthene			1.00	1.00		ug/L		100	48 - 120	8	35
Benzo[k]fluoranthene			1.00	0.954		ug/L		95	47 - 121	6	35
Benzo[g,h,i]perylene			1.00	0.935		ug/L		94	41 - 123	5	35
Indeno[1,2,3-cd]pyrene			1.00	0.936		ug/L		94	38 - 120	4	35
Fluoranthene			1.00	0.986		ug/L		99	59 - 120	8	35
Pyrene			1.00	0.948		ug/L		95	59 - 120	6	35
Dibenz(a,h)anthracene			1.00	0.934		ug/L		93	38 - 122	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	100		38 - 120
Nitrobenzene-d5	93		10 - 120
Terphenyl-d14	111		21 - 120

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-527042/1-A
Matrix: Water
Analysis Batch: 527334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		02/06/19 10:01	02/07/19 14:28	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		02/06/19 10:01	02/07/19 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	66		45 - 120	02/06/19 10:01	02/07/19 14:28	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-527042/2-A
Matrix: Water
Analysis Batch: 527334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	660		ug/L		66	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*69*		*45 - 120*

Lab Sample ID: LCSD 440-527042/3-A
Matrix: Water
Analysis Batch: 527334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	751		ug/L		75	40 - 115	13	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*77*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259637/1-A
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/01/19 10:32	02/02/19 15:31	1
Arsenic	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 15:31	1
Barium	ND		50	1.6	ug/L		02/01/19 10:32	02/02/19 15:31	1
Beryllium	ND		2.0	0.59	ug/L		02/01/19 10:32	02/02/19 15:31	1
Cadmium	ND		2.0	0.21	ug/L		02/01/19 10:32	02/02/19 15:31	1
Chromium	ND		10	0.70	ug/L		02/01/19 10:32	02/02/19 15:31	1
Cobalt	ND		2.0	0.68	ug/L		02/01/19 10:32	02/02/19 15:31	1
Copper	ND		20	3.7	ug/L		02/01/19 10:32	02/02/19 15:31	1
Lead	ND		5.0	2.2	ug/L		02/01/19 10:32	02/02/19 15:31	1
Molybdenum	ND		10	2.9	ug/L		02/01/19 10:32	02/02/19 15:31	1
Nickel	ND		10	1.0	ug/L		02/01/19 10:32	02/02/19 15:31	1
Selenium	ND		20	4.6	ug/L		02/01/19 10:32	02/02/19 15:31	1
Silver	ND		5.0	2.0	ug/L		02/01/19 10:32	02/02/19 15:31	1
Vanadium	ND		10	0.87	ug/L		02/01/19 10:32	02/02/19 15:31	1
Zinc	ND		20	7.4	ug/L		02/01/19 10:32	02/02/19 15:31	1

Lab Sample ID: MB 720-259637/1-A
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		10	3.5	ug/L		02/01/19 10:32	02/05/19 16:40	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259637/2-A
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	987		ug/L		99	80 - 120
Arsenic	1000	1000		ug/L		100	80 - 120
Barium	1000	968		ug/L		97	80 - 120
Beryllium	1000	965		ug/L		96	80 - 120
Cadmium	1000	997		ug/L		100	80 - 120
Chromium	1000	990		ug/L		99	80 - 120
Cobalt	1000	994		ug/L		99	80 - 120
Copper	1000	977		ug/L		98	80 - 120
Lead	1000	1000		ug/L		100	80 - 120
Molybdenum	1000	989		ug/L		99	80 - 120
Nickel	1000	991		ug/L		99	80 - 120
Selenium	1000	988		ug/L		99	80 - 120
Silver	500	494		ug/L		99	80 - 120
Vanadium	1000	984		ug/L		98	80 - 120
Zinc	1000	992		ug/L		99	80 - 120

Lab Sample ID: LCS 720-259637/2-A
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	1000	988		ug/L		99	80 - 120

Lab Sample ID: 720-91051-I-1-B MS
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	948		ug/L		95	75 - 125
Arsenic	ND		1000	971		ug/L		97	75 - 125
Barium	96		1000	1040		ug/L		94	75 - 125
Beryllium	ND		1000	952		ug/L		95	75 - 125
Cadmium	ND		1000	929		ug/L		93	75 - 125
Chromium	1.0	J	1000	934		ug/L		93	75 - 125
Cobalt	ND		1000	919		ug/L		92	75 - 125
Copper	ND		1000	922		ug/L		92	75 - 125
Lead	ND		1000	915		ug/L		92	75 - 125
Molybdenum	2.9	J	1000	954		ug/L		95	75 - 125
Nickel	1.3	J	1000	914		ug/L		91	75 - 125
Selenium	ND		1000	948		ug/L		95	75 - 125
Silver	ND		500	470		ug/L		94	75 - 125
Vanadium	1.2	J	1000	939		ug/L		94	75 - 125
Zinc	ND		1000	932		ug/L		93	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91051-I-1-B MS
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	932		ug/L		93	75 - 125
Arsenic	ND		1000	943		ug/L		94	75 - 125
Barium	100		1000	1040		ug/L		94	75 - 125
Beryllium	0.82	J	1000	933		ug/L		93	75 - 125
Cadmium	0.45	J	1000	948		ug/L		95	75 - 125
Chromium	ND		1000	908		ug/L		91	75 - 125
Cobalt	0.68	J	1000	936		ug/L		94	75 - 125
Copper	ND		1000	927		ug/L		93	75 - 125
Lead	8.8		1000	958		ug/L		95	75 - 125
Molybdenum	ND		1000	927		ug/L		93	75 - 125
Nickel	ND		1000	956		ug/L		96	75 - 125
Selenium	ND		1000	1000		ug/L		100	75 - 125
Silver	ND		500	477		ug/L		95	75 - 125
Thallium	ND		1000	897		ug/L		90	75 - 125
Vanadium	1.5	J	1000	945		ug/L		94	75 - 125
Zinc	ND		1000	967		ug/L		97	75 - 125

Lab Sample ID: 720-91051-I-1-C MSD
Matrix: Water
Analysis Batch: 259731

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	912		ug/L		91	75 - 125	4	20
Arsenic	ND		1000	934		ug/L		93	75 - 125	4	20
Barium	96		1000	971		ug/L		87	75 - 125	7	20
Beryllium	ND		1000	887		ug/L		89	75 - 125	7	20
Cadmium	ND		1000	896		ug/L		90	75 - 125	4	20
Chromium	1.0	J	1000	898		ug/L		90	75 - 125	4	20
Cobalt	ND		1000	891		ug/L		89	75 - 125	3	20
Copper	ND		1000	895		ug/L		90	75 - 125	3	20
Lead	ND		1000	884		ug/L		88	75 - 125	3	20
Molybdenum	2.9	J	1000	920		ug/L		92	75 - 125	4	20
Nickel	1.3	J	1000	886		ug/L		88	75 - 125	3	20
Selenium	ND		1000	920		ug/L		92	75 - 125	3	20
Silver	ND		500	447		ug/L		89	75 - 125	5	20
Vanadium	1.2	J	1000	899		ug/L		90	75 - 125	4	20
Zinc	ND		1000	899		ug/L		90	75 - 125	4	20

Lab Sample ID: 720-91051-I-1-C MSD
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	950		ug/L		95	75 - 125	2	20
Arsenic	ND		1000	960		ug/L		96	75 - 125	2	20
Barium	100		1000	1060		ug/L		96	75 - 125	1	20
Beryllium	0.82	J	1000	985		ug/L		98	75 - 125	5	20
Cadmium	0.45	J	1000	984		ug/L		98	75 - 125	4	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91051-I-1-C MSD
Matrix: Water
Analysis Batch: 259874

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	ND		1000	938		ug/L		94	75 - 125	3	20
Cobalt	0.68	J	1000	972		ug/L		97	75 - 125	4	20
Copper	ND		1000	943		ug/L		94	75 - 125	2	20
Lead	8.8		1000	972		ug/L		96	75 - 125	1	20
Molybdenum	ND		1000	940		ug/L		94	75 - 125	1	20
Nickel	ND		1000	969		ug/L		97	75 - 125	1	20
Selenium	ND		1000	1020		ug/L		102	75 - 125	2	20
Silver	ND		500	482		ug/L		96	75 - 125	1	20
Thallium	ND		1000	912		ug/L		91	75 - 125	2	20
Vanadium	1.5	J	1000	958		ug/L		96	75 - 125	1	20
Zinc	ND		1000	989		ug/L		99	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259800/1-A
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 14:48	1

Lab Sample ID: LCS 720-259800/2-A
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	10.6		ug/L		106	85 - 115

Lab Sample ID: 720-91051-I-4-C MS
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	12.2		ug/L		122	75 - 125

Lab Sample ID: 720-91051-I-4-D MSD
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	12.0		ug/L		120	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-259519/9
Matrix: Water
Analysis Batch: 259519

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/30/19 22:45	1

Lab Sample ID: LCS 720-259519/10
Matrix: Water
Analysis Batch: 259519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	255		ug/L		102	90 - 110		

Lab Sample ID: LCSD 720-259519/11
Matrix: Water
Analysis Batch: 259519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	255		ug/L		102	90 - 110	0	20

Lab Sample ID: 720-91088-2 MS
Matrix: Water
Analysis Batch: 259519

Client Sample ID: DG-R5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	251		ug/L		100	85 - 115		

Lab Sample ID: 720-91088-2 MSD
Matrix: Water
Analysis Batch: 259519

Client Sample ID: DG-R5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	252		ug/L		101	85 - 115	0	20

GC/MS VOA

Analysis Batch: 527862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-6	TB-01.30.19	Total/NA	Water	8260B	
MB 440-527862/4	Method Blank	Total/NA	Water	8260B	
LCS 440-527862/5	Lab Control Sample	Total/NA	Water	8260B	
440-231822-F-22 MS	Matrix Spike	Total/NA	Water	8260B	
440-231822-F-22 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 527863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-6	TB-01.30.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-527863/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-527863/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-231822-F-22 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-231822-F-22 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 528098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Total/NA	Water	8260B	
720-91088-2	DG-R5W	Total/NA	Water	8260B	
720-91088-3	DG-AA11W	Total/NA	Water	8260B	
720-91088-4	DG-W11W	Total/NA	Water	8260B	
720-91088-5	FB-01.30.19	Total/NA	Water	8260B	
MB 440-528098/5	Method Blank	Total/NA	Water	8260B	
LCS 440-528098/6	Lab Control Sample	Total/NA	Water	8260B	
720-91071-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
720-91071-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Total/NA	Water	8260B/CA_LUFT MS	
720-91088-2	DG-R5W	Total/NA	Water	8260B/CA_LUFT MS	
720-91088-3	DG-AA11W	Total/NA	Water	8260B/CA_LUFT MS	
720-91088-5	FB-01.30.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528117/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528117/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-A-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 528365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-3 - RA	DG-AA11W	Total/NA	Water	8260B	
MB 440-528365/4	Method Blank	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 528365 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-528365/5	Lab Control Sample	Total/NA	Water	8260B	
440-232551-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-232551-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-4	DG-W11W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528372/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528372/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-232317-C-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-232317-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 526557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Total/NA	Water	3520C	
720-91088-2	DG-R5W	Total/NA	Water	3520C	
MB 440-526557/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-526557/2-A	Lab Control Sample	Total/NA	Water	3520C	
440-232215-K-4-A MS	Matrix Spike	Total/NA	Water	3520C	
440-232215-K-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	

Prep Batch: 526843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-3	DG-AA11W	Total/NA	Water	3520C	
MB 440-526843/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-526843/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-526843/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 526850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Total/NA	Water	8270C SIM	526557
720-91088-2	DG-R5W	Total/NA	Water	8270C SIM	526557
MB 440-526557/1-A	Method Blank	Total/NA	Water	8270C SIM	526557
LCS 440-526557/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	526557

Analysis Batch: 527041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-232215-K-4-A MS	Matrix Spike	Total/NA	Water	8270C SIM	526557
440-232215-K-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270C SIM	526557

Analysis Batch: 527279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-3	DG-AA11W	Total/NA	Water	8270C SIM	526843
MB 440-526843/1-A	Method Blank	Total/NA	Water	8270C SIM	526843
LCS 440-526843/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	526843

GC/MS Semi VOA (Continued)

Analysis Batch: 527279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 440-526843/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	526843

GC Semi VOA

Prep Batch: 527042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Total/NA	Water	3510C	
720-91088-2	DG-R5W	Total/NA	Water	3510C	
720-91088-3	DG-AA11W	Total/NA	Water	3510C	
MB 440-527042/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-527042/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-527042/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 527334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Total/NA	Water	8015B	527042
720-91088-2	DG-R5W	Total/NA	Water	8015B	527042
720-91088-3	DG-AA11W	Total/NA	Water	8015B	527042
MB 440-527042/1-A	Method Blank	Total/NA	Water	8015B	527042
LCS 440-527042/2-A	Lab Control Sample	Total/NA	Water	8015B	527042
LCSD 440-527042/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	527042

Metals

Prep Batch: 259637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Dissolved	Water	3005A	
720-91088-2	DG-R5W	Dissolved	Water	3005A	
720-91088-3	DG-AA11W	Dissolved	Water	3005A	
MB 720-259637/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-259637/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-91051-I-1-B MS	Matrix Spike	Dissolved	Water	3005A	
720-91051-I-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 259731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Dissolved	Water	6010B	259637
720-91088-2	DG-R5W	Dissolved	Water	6010B	259637
720-91088-3	DG-AA11W	Dissolved	Water	6010B	259637
MB 720-259637/1-A	Method Blank	Total Recoverable	Water	6010B	259637
LCS 720-259637/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259637
720-91051-I-1-B MS	Matrix Spike	Dissolved	Water	6010B	259637
720-91051-I-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	259637

Prep Batch: 259800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Dissolved	Water	7470A	
720-91088-2	DG-R5W	Dissolved	Water	7470A	
720-91088-3	DG-AA11W	Dissolved	Water	7470A	
MB 720-259800/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 259800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-259800/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-91051-I-4-C MS	Matrix Spike	Dissolved	Water	7470A	
720-91051-I-4-D MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 259843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Dissolved	Water	7470A	259800
720-91088-2	DG-R5W	Dissolved	Water	7470A	259800
720-91088-3	DG-AA11W	Dissolved	Water	7470A	259800
MB 720-259800/1-A	Method Blank	Total/NA	Water	7470A	259800
LCS 720-259800/2-A	Lab Control Sample	Total/NA	Water	7470A	259800
720-91051-I-4-C MS	Matrix Spike	Dissolved	Water	7470A	259800
720-91051-I-4-D MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	259800

Analysis Batch: 259874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Dissolved	Water	6010B	259637
720-91088-2	DG-R5W	Dissolved	Water	6010B	259637
720-91088-3	DG-AA11W	Dissolved	Water	6010B	259637
MB 720-259637/1-A	Method Blank	Total Recoverable	Water	6010B	259637
LCS 720-259637/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259637
720-91051-I-1-B MS	Matrix Spike	Dissolved	Water	6010B	259637
720-91051-I-1-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	259637

General Chemistry

Analysis Batch: 259519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91088-1	DG-W7W	Total/NA	Water	7196A	
720-91088-2	DG-R5W	Total/NA	Water	7196A	
720-91088-3	DG-AA11W	Total/NA	Water	7196A	
MB 720-259519/9	Method Blank	Total/NA	Water	7196A	
LCS 720-259519/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-259519/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-91088-2 MS	DG-R5W	Total/NA	Water	7196A	
720-91088-2 MSD	DG-R5W	Total/NA	Water	7196A	

Client Sample ID: DG-W7W

Lab Sample ID: 720-91088-1

Date Collected: 01/30/19 09:30

Matrix: Water

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 14:01	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 14:01	DCI	TAL IRV
Total/NA	Prep	3520C			526557	02/04/19 08:25	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	526850	02/05/19 13:49	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/08/19 00:04	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 17:04	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 18:12	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:23	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259519	01/30/19 22:45	ECB	TAL PLS

Client Sample ID: DG-R5W

Lab Sample ID: 720-91088-2

Date Collected: 01/30/19 10:00

Matrix: Water

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 14:27	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 14:27	DCI	TAL IRV
Total/NA	Prep	3520C			526557	02/04/19 08:25	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	526850	02/05/19 14:12	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 23:42	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 17:19	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 18:16	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:25	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259519	01/30/19 22:45	ECB	TAL PLS

Client Sample ID: DG-AA11W

Lab Sample ID: 720-91088-3

Date Collected: 01/30/19 12:50

Matrix: Water

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	528365	02/13/19 10:23	TCN	TAL IRV
Total/NA	Analysis	8260B		1	528098	02/12/19 14:52	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 14:52	DCI	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91088-1

Client Sample ID: DG-AA11W

Lab Sample ID: 720-91088-3

Date Collected: 01/30/19 12:50

Matrix: Water

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C SIM		10	527279	02/07/19 15:11	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 13:18	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 23:00	LMB	TAL IRV
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259731	02/02/19 17:24	OBI	TAL PLS
Dissolved	Prep	3005A			259637	02/01/19 10:32	MAA	TAL PLS
Dissolved	Analysis	6010B		1	259874	02/05/19 18:21	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:28	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259519	01/30/19 22:45	ECB	TAL PLS

Client Sample ID: DG-W11W

Lab Sample ID: 720-91088-4

Date Collected: 01/30/19 15:30

Matrix: Water

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 15:18	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 10:57	RM	TAL IRV

Client Sample ID: FB-01.30.19

Lab Sample ID: 720-91088-5

Date Collected: 01/30/19 00:00

Matrix: Water

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 15:43	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 15:43	DCI	TAL IRV

Client Sample ID: TB-01.30.19

Lab Sample ID: 720-91088-6

Date Collected: 01/30/19 00:00

Matrix: Water

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527862	02/11/19 13:15	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527863	02/11/19 13:15	WC	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91088-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91088-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91088-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91088-1	DG-W7W	Water	01/30/19 09:30	01/30/19 18:45
720-91088-2	DG-R5W	Water	01/30/19 10:00	01/30/19 18:45
720-91088-3	DG-AA11W	Water	01/30/19 12:50	01/30/19 18:45
720-91088-4	DG-W11W	Water	01/30/19 15:30	01/30/19 18:45
720-91088-5	FB-01.30.19	Water	01/30/19 00:00	01/30/19 18:45
720-91088-6	TB-01.30.19	Water	01/30/19 00:00	01/30/19 18:45

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-91088

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
185179
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schachman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91088 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1 DG-W7w	30 Jan. 2019	0930	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2 DG-R5w	↓	1000	↓	↓	↓	↓		↓	↓	↓	↓	↓	
3 DG-AA11w		1250							↓	↓	↓	↓	
4 DG-W11w		1530	↓	↓	3								
5 FB-01.30.19		—			2								
6 TB-01.30.19	↓	—			2			↓					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.7°C, 1.0°C, 0.7°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp.(°C) Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by [signature]	Company Geosyntec	Date/Time 16:00 30 Jan. 2019	Received by [signature] Company TA PLS Date/Time 1-30-19 16:00
Relinquished by [signature]	Company TA PLS	Date/Time 18:45 1-30-19	Received by. Company Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by [signature] Company TA PLS Date/Time 1-30-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3366	COC No: 720-41012.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91088-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/11/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-W7W (720-91088-1)	1/30/19	09:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-R5W (720-91088-2)	1/30/19	10:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AA11W (720-91088-3)	1/30/19	12:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-W11W (720-91088-4)	1/30/19	15:30 Pacific		Water			X	X	X	X	3	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-01.30.19 (720-91088-5)	1/30/19	Pacific		Water			X	X			2	check for 2 phases
TB-01.30.19 (720-91088-6)	1/30/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/31/19 1259	Company: TAPL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by: Olga Quintales	Date/Time: 2/1/19 1030	Company: TAIRU

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No :	Cooler Temperature(s) °C and Other Remarks: 2.4/1.4 2.3/2.3 IR-88

Ver: 09/20/2016

2/15/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91088-1

Login Number: 91088
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91088-1

Login Number: 91088
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 02/01/19 02:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91088-1

Login Number: 91088
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 02/01/19 04:40 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	False	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91089-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/18/2019 11:16:10 AM
Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
L	A negative instrument reading had an absolute value greater than the reporting limit
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Narrative

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Comments
No additional comments.

Receipt
The samples were received on 1/30/2019 6:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.7º C, 1.0º C and 3.9º C.

Receipt Exceptions
Samples DG-AV9S-0.1-1 (720-91089-18), SG-SV9S-3.5-4 (720-91089-19), and SG-SV9S-7.5-8 (720-91089-20) were canceled at the emailed request of the client on January 31, 2019.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-526931 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 440-526365 and analytical batch 440-526931 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: Surrogate Terphenyl-d14 recovery for the following sample was outside control limits: DG-AT9S-3.5-4 (720-91089-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for C10-C28 in preparation batch 440-526524 and analytical batch 440-526644 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B: The 8015-DRO method blank for preparation batches 440-526524 and 440-526992 and analytical batches 440-526644 and 440-527137 contained C10-C28 and C24-C36 above the method detection limit. These target analytes concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The 8015-DRO surrogate was manually integrated to allow quantitation of the C29-C30 range for sample DG-AH9S-3.5-4 (720-91089-6).

Method 8081A: Surrogate recovery for the following sample was outside the upper control limit: DG-AL5S-0.5-1 (720-91089-9). This sample did not contain any target analytes; therefore, re-extraction and re-analysis was not performed.

Method 8081A: The DCB Decachlorobiphenyl surrogate recovery for the following sample was outside acceptance limits (high biased) on the primary column due to matrix interference: DG-AT9S-0.5-1 (720-91089-16). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8081A: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AG7S-3.5-4 (720-91089-2), DG-AH9S-3.5-4 (720-91089-6), DG-AJ9S-3.5-4 (720-91089-8), DG-AT9S-0.5-1 (720-91089-16), DG-AT9S-3.5-4 (720-91089-17), (720-91105-E-1-D MS), (720-91105-E-1-E MSD), (440-232505-G-1-A MS) and (440-232505-G-1-B MSD).

Method 8081A: The matrix spike duplicate (MS/MSD) recovery for preparation batch 440-526983 and analytical batch 440-527335 was outside control limits for 4,4-DDE due to high target presence in the parent sample. Sample matrix interference is suspected because the

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associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082: The continuing calibration verification (CCV) associated with batch 440-527127 recovered above the upper control limit for Aroclor 1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AG7S-0.5-1 (720-91089-1), DG-AG7S-3.5-4 (720-91089-2), DG-AB9S-0.5-1 (720-91089-3), DG-AB9S-3.5-4 (720-91089-4), DG-AH9S-0.5-1 (720-91089-5), DG-AH9S-3.5-4 (720-91089-6), DG-AJ9S-0.5-1 (720-91089-7), DG-AJ9S-3.5-4 (720-91089-8), DG-AL5S-0.5-1 (720-91089-9), DG-AL5S-3.5-4 (720-91089-10), DG-AQ7S-0.5-1 (720-91089-11), DUP-33 (720-91089-12), DG-AQ7S-3.5-4 (720-91089-13), DG-AQ11S-0.5-1 (720-91089-14) and DG-AQ11S-3.5-4 (720-91089-15).

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 440-527345 and analytical batch 440-527416 were outside control limits: (720-91105-E-1-F MS) and (720-91105-E-1-G MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8082: The following sample contained more than one Aroclor with insufficient separation. Both aroclors reported per Geosyntec requirements Results biased high due to shared peaks: DG-AG7S-0.5-1 (720-91089-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AG7S-0.5-1 (720-91089-1), DG-AG7S-3.5-4 (720-91089-2), DG-AB9S-0.5-1 (720-91089-3), DG-AB9S-3.5-4 (720-91089-4), DG-AH9S-0.5-1 (720-91089-5), DG-AH9S-3.5-4 (720-91089-6), DG-AJ9S-0.5-1 (720-91089-7), DG-AJ9S-3.5-4 (720-91089-8), DG-AL5S-0.5-1 (720-91089-9), DG-AL5S-0.5-1 (720-91089-9[MS]), DG-AL5S-0.5-1 (720-91089-9[MSD]), DG-AL5S-3.5-4 (720-91089-10), DG-AQ7S-0.5-1 (720-91089-11), DUP-33 (720-91089-12), DG-AQ7S-3.5-4 (720-91089-13), DG-AQ11S-0.5-1 (720-91089-14), DG-AQ11S-3.5-4 (720-91089-15), (720-91087-A-21-C), DG-AT9S-0.5-1 (720-91089-16), DG-AT9S-3.5-4 (720-91089-17), (720-91081-A-1-J), (720-91081-A-1-H MS), (720-91081-A-1-I MSD), (720-91081-A-1-J PDS) and (720-91081-A-1-J SD). Elevated reporting limits (RLs) are provided.

Method 6010B: Internal standard responses were outside of acceptance limits for ICSA and ICSAB however, target analyte recoveries met criteria : DG-AL5S-0.5-1 (720-91089-9), DG-AT9S-0.5-1 (720-91089-16), DG-AT9S-3.5-4 (720-91089-17), (ICSA 720-259732/7), (ICSAB 720-259732/8) and (720-91081-A-1-J).

Method 6010B: The method blank for preparation batch 720-259517 and analytical batch 720-259732 contained Silver, Barium, and Antimony above the method detection limit. This target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259517 and analytical batch 720-259732 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259732 was outside control limits for Barium-29%, Cobalt-30%, Chromium-29%, Nickel-29%, and Vanadium-31%: (720-91081-A-1-J SD)

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259732 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following sample is impacted: (CCV 720-259732/23).

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259517 and analytical batches 720-259732 and 720-259834 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259834 was outside control limits for: Barium-17%, Cobalt-16%, Chromium-20%, Nickel-20% and Vanadium-19% (720-91081-A-1-J SD)

Method 6010B: The method blank for preparation batch 720-259560 and analytical batch 720-260183 contained Chromium, Lead, and Selenium above the method detection limit. This target analyte concentrations were less than the reporting limit (RL); therefore,

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re-extraction and/or re-analysis of samples was not performed.

Method 6010B: Due to the high concentration of non-target analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-259560 and analytical batch 720-260183 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6010B: The post digestion spike % recovery for Barium-318%, and Copper-256% associated with batch 720-260183 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260183 was outside control limits for Arsenic-25%, Barium-21%, Cadmium-25%, Cobalt-24%, Chromium-23%, Copper-19%, Nickel-23%, Lead-24%, Antimony-22%, Vanadium-20%, and Zinc-25%: (720-91087-A-21-C SD)

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-260183 recovered above the upper control limit for Silver. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: DG-AQ7S-0.5-1 (720-91089-11). Affected sample results for these compounds have been qualified with a "^" symbol

Method 7471A: The following sample was diluted to bring the concentration of target analytes within the calibration range: DG-AQ7S-3.5-4 (720-91089-13). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AL5S-3.5-4 (720-91089-10) and DUP-33 (720-91089-12). The reporting limits (RLs) are elevated proportionately. 3546 8270 SIM PAH

Method 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AL5S-3.5-4 (720-91089-10) and DG-AQ11S-0.5-1 (720-91089-14). The reporting limits (RLs) are elevated proportionately.440-526992 3546 8015_DRO

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Client Sample ID: DG-AG7S-0.5-1 — Lab Sample ID: 720-91089-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	6.1	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	3.9	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	16	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	8.4	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	15	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	24	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	24	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	35		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	11	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	27	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	20	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	24	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	26	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	4.4	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	5.7	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	20	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	18	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
4,4'-DDT	2.7	J p	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	4.4	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDD	1.8	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1254	120		50	17	ug/Kg	1		8082	Total/NA
Aroclor 1260	110		50	17	ug/Kg	1		8082	Total/NA
Antimony	0.47	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	2.4	J	2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	67		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.38		0.28	0.090	mg/Kg	4		6010B	Total/NA
Cadmium	0.78		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	160		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	100	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.72	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	14		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	92		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	500		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.31		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG7S-3.5-4 — Lab Sample ID: 720-91089-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.3	J	1.9	0.97	ug/Kg	1		8260B	Total/NA
Phenanthrene	5.4	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	4.2	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	7.5	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.9	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	9.6	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.1	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	8.1	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	8.1	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5.4	B	4.9	2.4	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG7S-3.5-4 (Continued) — Lab Sample ID: 720-91089-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	4.9	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
Arsenic	10		2.2	0.18	mg/Kg	4		6010B	Total/NA
Barium	85		1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	0.41		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	4.9		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	45		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	85	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	16		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.39	J B	2.2	0.32	mg/Kg	4		6010B	Total/NA
Silver	0.12	J	0.54	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	110		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB9S-0.5-1 — Lab Sample ID: 720-91089-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	18	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	26	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	5.4	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	14	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	4.3	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	10	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.1	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.0	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	15	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	10	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	15	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	21	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	22	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	11		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	85		1.4	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.29		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.36		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	22	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	7.0		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	96		4.3	2.1	mg/Kg	4		6010B	Total/NA
Lead	95	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	20		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	140		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB9S-3.5-4 — Lab Sample ID: 720-91089-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	22	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	13	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB9S-3.5-4 (Continued)

Lab Sample ID: 720-91089-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	21	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	28	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	16	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	23	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	22	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	32		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	10	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	39		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	32		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	19	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	21	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.7	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	26	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	8.9	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	11	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
Antimony	40		3.6	0.61	mg/Kg	10		6010B	Total/NA
Arsenic	26		7.3	0.62	mg/Kg	10		6010B	Total/NA
Barium	1400		3.6	0.52	mg/Kg	10		6010B	Total/NA
Beryllium	0.50	J	0.73	0.24	mg/Kg	10		6010B	Total/NA
Cadmium	5.4		0.91	0.091	mg/Kg	10		6010B	Total/NA
Chromium	75	B	3.6	0.39	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	1000		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	5700	B	3.6	0.77	mg/Kg	10		6010B	Total/NA
Molybdenum	0.65	J	3.6	0.47	mg/Kg	10		6010B	Total/NA
Nickel	49		3.6	0.37	mg/Kg	10		6010B	Total/NA
Silver	8.7		1.8	0.37	mg/Kg	10		6010B	Total/NA
Vanadium	24		3.6	0.50	mg/Kg	10		6010B	Total/NA
Zinc	3300		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	0.71		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH9S-0.5-1

Lab Sample ID: 720-91089-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	6.3	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	6.1	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	21	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	22	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	22	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	28	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	30		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	41		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	15	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	39		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	25	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	35		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	34		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.4	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	7.4	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	9.3	B	5.0	2.5	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH9S-0.5-1 (Continued) — Lab Sample ID: 720-91089-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	11	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Dieldrin	1.6	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	2.2	J p	4.9	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1260	38	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	1.8	J	2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	4.3		4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	90		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.31	J	0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.59		0.50	0.049	mg/Kg	4		6010B	Total/NA
Chromium	20	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	7.6		0.79	0.079	mg/Kg	4		6010B	Total/NA
Copper	130		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	110	B	2.0	0.42	mg/Kg	4		6010B	Total/NA
Molybdenum	0.45	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	15		2.0	0.20	mg/Kg	4		6010B	Total/NA
Silver	0.25	J	0.99	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	71		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	200		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH9S-3.5-4 — Lab Sample ID: 720-91089-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	18		8.2	4.1	ug/Kg	1		8260B	Total/NA
Naphthalene	36		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	4.7	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluorene	6.8	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	50		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	16	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	25	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	37		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	24	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	42		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	13	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	18	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	18	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	48		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	36		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.2	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	29		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	13	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	13	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
Arsenic	4.0		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	85		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	15	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	32		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	210	B	1.9	0.40	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AH9S-3.5-4 (Continued) — Lab Sample ID: 720-91089-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	15		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.66	J B	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	29		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	93		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.041		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ9S-0.5-1 — Lab Sample ID: 720-91089-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	20	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthene	4.1	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	12	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluorene	4.8	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	66		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Anthracene	28	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	40		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	60		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	44		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	67		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	20	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	57		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	37		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	86		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Pyrene	88		30	4.0	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	7.8	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	18	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	71		4.9	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	73		4.9	2.5	mg/Kg	1		8015B	Total/NA
Dieldrin	4.4	J p	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	54		4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	1.6	J p	4.9	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1260 - DL	820		150	50	ug/Kg	3		8082	Total/NA
Antimony	9.5		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	20		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	250		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.28	0.090	mg/Kg	4		6010B	Total/NA
Cadmium	3.7		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	62	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	500		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	710	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	3.9		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	61		1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	1.2		0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	830		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.34		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ9S-3.5-4 — Lab Sample ID: 720-91089-8

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AJ9S-3.5-4 (Continued)

Lab Sample ID: 720-91089-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	12		8.0	4.0	ug/Kg	1		8260B	Total/NA
Naphthalene	26	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluorene	5.6	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	36		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	12	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	13	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	24	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	8.3	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	22	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	5.9	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	8.3	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	7.0	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	23	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	18	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	34		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	7.1	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	8.4	B	4.9	2.4	mg/Kg	1		8015B	Total/NA
Arsenic	4.0		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	72		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J	0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.064	J	0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	17		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	22	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	18		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.57	J B	3.3	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	43		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.025		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL5S-0.5-1

Lab Sample ID: 720-91089-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	63		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	16	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluorene	3.9	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	49		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	46		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	26	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	34		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	28	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	45		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	14	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	35		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	25	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	47		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	42		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	5.3	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	32		29	3.9	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL5S-0.5-1 (Continued)

Lab Sample ID: 720-91089-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	15	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	21	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Aroclor 1260	17	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	2.5	F1 B	1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	9.1		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	96	F1 B F2	1.5	0.22	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	26		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	8.5		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	140	F1	4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	220		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	2.4		1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	29		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Silver	0.47	J B	0.77	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	240	B	4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.34		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL5S-3.5-4

Lab Sample ID: 720-91089-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	38	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	22	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	76	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Anthracene	68	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	60	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Chrysene	130		120	16	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	74	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	140		120	16	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	42	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	93	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	59	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	110	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Pyrene	130		120	16	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	17	J	120	16	ug/Kg	2		8270C SIM	Total/NA
2-Methylnaphthalene	28	J	120	16	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110	B	9.8	4.9	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	200	B	9.8	4.9	mg/Kg	1		8015B	Total/NA
Antimony	5.4		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	68		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	66		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.23	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	22	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	320		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	330	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	30		1.6	0.16	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AL5S-3.5-4 (Continued) — Lab Sample ID: 720-91089-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.29	J	0.78	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	350		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.40		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ7S-0.5-1 — Lab Sample ID: 720-91089-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	49		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	20	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.1	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	11	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	6.6	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	11	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.9	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	11	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	14	J	29	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	65		29	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	6.2	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	6.5	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	4.5		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	49		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J	0.27	0.089	mg/Kg	4		6010B	Total/NA
Cadmium	0.057	J	0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	13	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	4.6		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	19		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	14	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	13		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	30		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	30		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.018		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-33 — Lab Sample ID: 720-91089-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.71		0.59	0.30	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	5.4	J	5.9	3.0	ug/Kg	1		8260B	Total/NA
Naphthalene	21	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	11	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	44	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Anthracene	31	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	23	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	41	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	26	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	44	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	14	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	35	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	20	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	51	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-33 (Continued)

Lab Sample ID: 720-91089-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	51	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	19	J	60	8.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	38	B	4.8	2.4	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	64	B	4.8	2.4	mg/Kg	1		8015B	Total/NA
Antimony	4.1		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	75		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	100		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.25	J	0.26	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	1.4		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	27	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	260		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	370	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5		1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	34		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.60	J B	2.6	0.38	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	420		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.55		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ7S-3.5-4

Lab Sample ID: 720-91089-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	25	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	24	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	7.1	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	14	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	5.2	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	12	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.8	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.3	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	16	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	14	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	27	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	7.4	B	4.9	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	9.3	B	4.9	2.5	mg/Kg	1		8015B	Total/NA
Antimony	9.4		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	21		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	320		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.91		0.42	0.041	mg/Kg	4		6010B	Total/NA
Chromium	51	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	1300		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	1400	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.47	J	1.7	0.21	mg/Kg	4		6010B	Total/NA
Nickel	85		1.7	0.17	mg/Kg	4		6010B	Total/NA
Silver	1.4		0.83	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.7	0.23	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Client Sample ID: DG-AQ7S-3.5-4 (Continued) — Lab Sample ID: 720-91089-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	660		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	2.0		0.067	0.0098	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AQ11S-0.5-1 — Lab Sample ID: 720-91089-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	6.1	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	4.3	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	17	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	9.2	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	13	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	21	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	16	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	28	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	9.0	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	17	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	12	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	24	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	25	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	48	B	9.8	4.9	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	91	B	9.8	4.9	mg/Kg	1		8015B	Total/NA
Antimony	1.5		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	2.2	J	2.6	0.23	mg/Kg	4		6010B	Total/NA
Barium	92		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.37		0.26	0.086	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	16	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	150		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	230	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Nickel	7.8		1.3	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	82		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	190		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ11S-3.5-4 — Lab Sample ID: 720-91089-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	6.1	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	5.9	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	4.6	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	4.7	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	6.5	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	7.6	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	41		5.0	0.82	mg/Kg	10		6010B	Total/NA
Arsenic	21		9.9	0.84	mg/Kg	10		6010B	Total/NA
Barium	1400		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.65		0.40	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	2.4		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	88	B	5.0	0.52	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ11S-3.5-4 (Continued)

Lab Sample ID: 720-91089-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	25		2.0	0.20	mg/Kg	10		6010B	Total/NA
Copper	740		15	7.1	mg/Kg	10		6010B	Total/NA
Lead	3900	B	5.0	1.0	mg/Kg	10		6010B	Total/NA
Molybdenum	2.2		2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	150		5.0	0.50	mg/Kg	10		6010B	Total/NA
Selenium	5.6	J B	9.9	1.5	mg/Kg	10		6010B	Total/NA
Silver	8.0		2.5	0.50	mg/Kg	10		6010B	Total/NA
Vanadium	25		5.0	0.67	mg/Kg	10		6010B	Total/NA
Zinc	2700		15	6.3	mg/Kg	10		6010B	Total/NA
Mercury	0.49		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT9S-0.5-1

Lab Sample ID: 720-91089-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	13	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	12	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	36		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Anthracene	25	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	36		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Chrysene	48		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	47		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	79		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	24	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	42		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	36		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	55		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Pyrene	59		30	3.9	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	8.7	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
2-Methylnaphthalene	16	J	30	3.9	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	17	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	25	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Dieldrin	3.2	J	4.8	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	63		4.8	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDD	5.6		4.8	1.5	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	2.3	J	4.8	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT - DL	85		24	7.3	ug/Kg	5		8081A	Total/NA
Aroclor 1260	52		48	16	ug/Kg	1		8082	Total/NA
Antimony	29	B	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	9.0		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	380	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	26		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	380		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	1100		1.3	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.44	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	22		1.3	0.13	mg/Kg	4		6010B	Total/NA
Silver	1.8	B	0.63	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.3	0.17	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Client Sample ID: DG-AT9S-0.5-1 (Continued) — Lab Sample ID: 720-91089-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	800	B	3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.49		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AT9S-3.5-4 — Lab Sample ID: 720-91089-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		0.78	0.39	ug/Kg	1		8260B	Total/NA
Toluene	0.52	J	0.78	0.39	ug/Kg	1		8260B	Total/NA
Naphthalene	6.6	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	6.3	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	7.0	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	6.8	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	4.3	J	30	4.0	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	8.4	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	7.5	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
4,4'-DDT	1.8	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	4.4	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
Antimony	210		6.3	1.0	mg/Kg	20		6010B	Total/NA
Arsenic	41		13	1.1	mg/Kg	20		6010B	Total/NA
Barium	1600	B	3.1	0.45	mg/Kg	10		6010B	Total/NA
Beryllium	0.42	J	0.63	0.20	mg/Kg	10		6010B	Total/NA
Cadmium	8.0		1.6	0.16	mg/Kg	20		6010B	Total/NA
Chromium	69		6.3	0.67	mg/Kg	20		6010B	Total/NA
Cobalt	24		2.5	0.25	mg/Kg	20		6010B	Total/NA
Copper	1200		19	9.0	mg/Kg	20		6010B	Total/NA
Lead	5300		6.3	1.3	mg/Kg	20		6010B	Total/NA
Molybdenum	1.0	J	3.1	0.40	mg/Kg	10		6010B	Total/NA
Nickel	89		6.3	0.64	mg/Kg	20		6010B	Total/NA
Selenium	9.2	J	13	1.9	mg/Kg	20		6010B	Total/NA
Silver	8.3		3.1	0.64	mg/Kg	20		6010B	Total/NA
Vanadium	40		6.3	0.86	mg/Kg	20		6010B	Total/NA
Zinc	4900	B	19	8.0	mg/Kg	20		6010B	Total/NA
Mercury	0.34		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: FB-01.30.19 — Lab Sample ID: 720-91089-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	49		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: TB-01.30.19 — Lab Sample ID: 720-91089-22

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG7S-0.5-1

Date Collected: 01/30/19 09:10
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		01/30/19 19:00	02/01/19 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/30/19 19:00*	*02/01/19 14:27*	*1*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*	*01/30/19 19:00*	*02/01/19 14:27*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/30/19 19:00*	*02/01/19 14:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,1,1-Trichloroethane	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,1,2-Trichloroethane	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,1-Dichloroethane	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,1-Dichloropropene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,2,4-Trichlorobenzene	ND		3.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,2-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,2-Dichloroethane	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,2-Dichloropropane	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,3-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,3-Dichloropropane	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,4-Dichlorobenzene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
2-Hexanone	ND		6.9	3.4	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
4-Isopropyltoluene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Benzene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Bromobenzene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Bromoform	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Bromomethane	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Chlorobenzene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Chloroethane	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Chloroform	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Chloromethane	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
cis-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
cis-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Chlorodibromomethane	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Dibromomethane	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Dichlorobromomethane	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1

Client Sample ID: DG-AG7S-0.5-1
Date Collected: 01/30/19 09:10
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Ethylbenzene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Isopropylbenzene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Methylene Chloride	ND		6.9	3.4	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Naphthalene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
N-Propylbenzene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Styrene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Tetrachloroethene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Toluene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
trans-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
trans-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Trichloroethene	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.4	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Vinyl acetate	ND		5.5	2.7	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Xylenes, Total	ND		1.4	0.89	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
Ethylene Dibromide	ND		0.69	0.34	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
2-Butanone (MEK)	ND		6.9	3.4	ug/Kg		01/30/19 19:00	02/01/19 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		01/30/19 19:00	02/01/19 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/30/19 19:00*	*02/01/19 14:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/30/19 19:00*	*02/01/19 14:27*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**6.1**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Acenaphthene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Acenaphthylene	**3.9**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Fluorene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Phenanthrene	**16**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Anthracene	**8.4**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Benzo[a]anthracene	**15**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Chrysene	**24**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Benzo[a]pyrene	**24**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Benzo[b]fluoranthene	**35**		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Benzo[k]fluoranthene	**11**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Benzo[g,h,i]perylene	**27**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Indeno[1,2,3-cd]pyrene	**20**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Fluoranthene	**24**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Pyrene	**26**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
Dibenz(a,h)anthracene	**4.4**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1
2-Methylnaphthalene	**5.7**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 18:31	1

Client Sample ID: DG-AG7S-0.5-1

Date Collected: 01/30/19 09:10
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*29 - 120*	*02/05/19 06:11*	*02/06/19 18:31*	*1*
Nitrobenzene-d5	*80*		*11 - 118*	*02/05/19 06:11*	*02/06/19 18:31*	*1*
Terphenyl-d14	*96*		*10 - 120*	*02/05/19 06:11*	*02/06/19 18:31*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**20**	**B**	4.9	2.4	mg/Kg		02/04/19 06:18	02/04/19 22:44	1
Motor Oil Range Organics [C24-C36]	**18**	**B**	4.9	2.4	mg/Kg		02/04/19 06:18	02/04/19 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*92*		*40 - 140*	*02/04/19 06:18*	*02/04/19 22:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Endrin	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
4,4'-DDT	**2.7**	**J p**	5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
4,4'-DDE	**4.4**	**J**	5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
4,4'-DDD	**1.8**	**J**	5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
delta-BHC	ND		10	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Toxaphene	ND		200	50	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
Chlordane (technical)	ND		50	10	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:56	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*28 - 115*	*02/04/19 13:21*	*02/05/19 18:56*	*1*
DCB Decachlorobiphenyl (Surr)	*111*		*21 - 117*	*02/04/19 13:21*	*02/05/19 18:56*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 14:00	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 14:00	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 14:00	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 14:00	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/08/19 14:00	1
Aroclor 1254	**120**		50	17	ug/Kg		02/05/19 13:19	02/08/19 14:00	1
Aroclor 1260	**110**		50	17	ug/Kg		02/05/19 13:19	02/08/19 14:00	1

Client Sample ID: DG-AG7S-0.5-1

Date Collected: 01/30/19 09:10
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*45 - 120*	*02/05/19 13:19*	*02/08/19 14:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.4	0.23	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Arsenic	2.4	J	2.8	0.23	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Barium	67		1.4	0.20	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Beryllium	0.38		0.28	0.090	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Cadmium	0.78		0.34	0.034	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Chromium	20	B	1.4	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Cobalt	12		0.55	0.055	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Copper	160		4.1	2.0	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Lead	100	B	1.4	0.29	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Molybdenum	0.72	J	1.4	0.18	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Nickel	14		1.4	0.14	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Selenium	ND		2.8	0.41	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Silver	ND		0.69	0.14	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Thallium	ND		1.4	0.40	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Vanadium	92		1.4	0.19	mg/Kg		01/31/19 10:54	02/11/19 17:40	4
Zinc	500		4.1	1.8	mg/Kg		01/31/19 10:54	02/11/19 17:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.015	0.0022	mg/Kg		02/12/19 15:02	02/13/19 17:59	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AG7S-3.5-4

Date Collected: 01/30/19 09:10
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		190	140	ug/Kg		01/30/19 19:00	02/01/19 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/30/19 19:00*	*02/01/19 14:52*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/30/19 19:00*	*02/01/19 14:52*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/30/19 19:00*	*02/01/19 14:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		19	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,1,1,2-Tetrachloroethane	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,1,1-Trichloroethane	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,1,2,2-Tetrachloroethane	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,1,2-Trichloroethane	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,1-Dichloroethane	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,1-Dichloroethene	ND		3.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,1-Dichloropropene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,2,3-Trichlorobenzene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,2,4-Trichlorobenzene	ND		9.7	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,2,4-Trimethylbenzene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,2-Dibromo-3-Chloropropane	ND		9.7	3.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,2-Dichlorobenzene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,2-Dichloroethane	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,2-Dichloropropane	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,3,5-Trimethylbenzene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,3-Dichlorobenzene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,3-Dichloropropane	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,4-Dichlorobenzene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
2,2-Dichloropropane	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
2-Chlorotoluene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
2-Hexanone	ND		19	9.7	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
4-Chlorotoluene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
4-Isopropyltoluene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Benzene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Bromobenzene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Bromoform	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Bromomethane	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Carbon disulfide	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Carbon tetrachloride	ND		3.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Chlorobenzene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Chlorobromomethane	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Chloroethane	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Chloroform	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Chloromethane	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
cis-1,2-Dichloroethene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
cis-1,3-Dichloropropene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Chlorodibromomethane	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Dibromomethane	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Dichlorobromomethane	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1

Client Sample ID: DG-AG7S-3.5-4

Date Collected: 01/30/19 09:10
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Ethylbenzene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Hexachlorobutadiene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Isopropylbenzene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Methylene Chloride	ND		19	9.7	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Methyl tert-butyl ether	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Naphthalene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
n-Butylbenzene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
N-Propylbenzene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
sec-Butylbenzene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Styrene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
tert-Butylbenzene	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Tetrachloroethene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Toluene	**1.3**	**J**	1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
trans-1,2-Dichloroethene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
trans-1,3-Dichloropropene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Trichloroethene	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Trichlorofluoromethane	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		19	9.7	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Vinyl acetate	ND		16	7.8	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Vinyl chloride	ND		3.9	1.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Xylenes, Total	ND		3.9	2.5	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
Ethylene Dibromide	ND		1.9	0.97	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
2-Butanone (MEK)	ND		19	9.7	ug/Kg		01/30/19 19:00	02/01/19 14:52	1
4-Methyl-2-pentanone (MIBK)	ND		9.7	4.9	ug/Kg		01/30/19 19:00	02/01/19 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/30/19 19:00*	*02/01/19 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/30/19 19:00*	*02/01/19 14:52*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Acenaphthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Fluorene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Phenanthrene	**5.4**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Benzo[a]anthracene	**4.2**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Chrysene	**7.5**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Benzo[a]pyrene	**4.9**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Benzo[b]fluoranthene	**9.6**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Benzo[g,h,i]perylene	**4.1**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Fluoranthene	**8.1**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Pyrene	**8.1**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 18:54	1

Client Sample ID: DG-AG7S-3.5-4

Date Collected: 01/30/19 09:10
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*96*		*29 - 120*	*02/05/19 06:11*	*02/06/19 18:54*	*1*
Nitrobenzene-d5	*87*		*11 - 118*	*02/05/19 06:11*	*02/06/19 18:54*	*1*
Terphenyl-d14	*99*		*10 - 120*	*02/05/19 06:11*	*02/06/19 18:54*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.4**	**B**	4.9	2.4	mg/Kg		02/04/19 06:18	02/05/19 01:35	1
Motor Oil Range Organics [C24-C36]	**4.9**	**B**	4.9	2.4	mg/Kg		02/04/19 06:18	02/05/19 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*88*		*40 - 140*	*02/04/19 06:18*	*02/05/19 01:35*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Endrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Toxaphene	ND		200	49	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:10	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*28 - 115*	*02/04/19 13:21*	*02/06/19 15:10*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*21 - 117*	*02/04/19 13:21*	*02/06/19 15:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:40	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:40	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:40	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:40	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:40	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:40	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:40	1

Client Sample ID: DG-AG7S-3.5-4

Date Collected: 01/30/19 09:10
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*02/05/19 13:19*	*02/07/19 14:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.18	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Arsenic	**10**		2.2	0.18	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Barium	**85**		1.1	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Beryllium	**0.17**	**J**	0.22	0.070	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Cadmium	**0.41**		0.27	0.027	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Chromium	**20**	**B**	1.1	0.11	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Cobalt	**4.9**		0.43	0.043	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Copper	**45**		3.2	1.5	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Lead	**85**	**B**	1.1	0.23	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Nickel	**16**		1.1	0.11	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Selenium	**0.39**	**J B**	2.2	0.32	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Silver	**0.12**	**J**	0.54	0.11	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Thallium	ND		1.1	0.31	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Vanadium	**32**		1.1	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:44	4
Zinc	**110**		3.2	1.4	mg/Kg		01/31/19 10:54	02/11/19 17:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.015	0.0022	mg/Kg		02/12/19 15:02	02/13/19 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.4**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AB9S-0.5-1

Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		95	67	ug/Kg		01/30/19 19:00	02/01/19 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/30/19 19:00*	*02/01/19 15:17*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/30/19 19:00*	*02/01/19 15:17*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/30/19 19:00*	*02/01/19 15:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.5	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,1,1-Trichloroethane	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,1,2-Trichloroethane	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,1-Dichloroethane	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,1-Dichloroethene	ND		1.9	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,1-Dichloropropene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,2,3-Trichlorobenzene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,2,4-Trichlorobenzene	ND		4.8	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,2,4-Trimethylbenzene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,2-Dibromo-3-Chloropropane	ND		4.8	1.9	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,2-Dichlorobenzene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,2-Dichloroethane	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,2-Dichloropropane	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,3,5-Trimethylbenzene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,3-Dichlorobenzene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,3-Dichloropropane	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,4-Dichlorobenzene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
2,2-Dichloropropane	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
2-Chlorotoluene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
2-Hexanone	ND		9.5	4.8	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
4-Chlorotoluene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
4-Isopropyltoluene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Benzene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Bromobenzene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Bromoform	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Bromomethane	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Carbon disulfide	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Carbon tetrachloride	ND		1.9	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Chlorobenzene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Chlorobromomethane	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Chloroethane	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Chloroform	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Chloromethane	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
cis-1,2-Dichloroethene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
cis-1,3-Dichloropropene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Chlorodibromomethane	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Dibromomethane	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Dichlorobromomethane	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1

Client Sample ID: DG-AB9S-0.5-1
Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Ethylbenzene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Hexachlorobutadiene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Isopropylbenzene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Methylene Chloride	ND		9.5	4.8	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Methyl tert-butyl ether	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Naphthalene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
n-Butylbenzene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
N-Propylbenzene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
sec-Butylbenzene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Styrene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
tert-Butylbenzene	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Tetrachloroethene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Toluene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
trans-1,2-Dichloroethene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
trans-1,3-Dichloropropene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Trichloroethene	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Trichlorofluoromethane	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.5	4.8	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Vinyl acetate	ND		7.6	3.8	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Vinyl chloride	ND		1.9	0.95	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
Ethylene Dibromide	ND		0.95	0.48	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
2-Butanone (MEK)	ND		9.5	4.8	ug/Kg		01/30/19 19:00	02/01/19 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		4.8	2.4	ug/Kg		01/30/19 19:00	02/01/19 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/30/19 19:00*	*02/01/19 15:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/30/19 19:00*	*02/01/19 15:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**18**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Acenaphthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Fluorene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Phenanthrene	**26**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Benzo[a]anthracene	**5.4**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Chrysene	**14**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Benzo[a]pyrene	**4.3**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Benzo[b]fluoranthene	**10**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Benzo[g,h,i]perylene	**4.1**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Indeno[1,2,3-cd]pyrene	**4.0**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Fluoranthene	**15**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Pyrene	**10**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1
2-Methylnaphthalene	**15**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/06/19 19:17	1

Client Sample ID: DG-AB9S-0.5-1

Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*29 - 120*	*02/05/19 06:11*	*02/06/19 19:17*	*1*
Nitrobenzene-d5	*79*		*11 - 118*	*02/05/19 06:11*	*02/06/19 19:17*	*1*
Terphenyl-d14	*94*		*10 - 120*	*02/05/19 06:11*	*02/06/19 19:17*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	21	B	5.0	2.5	mg/Kg		02/04/19 06:18	02/04/19 23:27	1
Motor Oil Range Organics [C24-C36]	22	B	5.0	2.5	mg/Kg		02/04/19 06:18	02/04/19 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*68*		*40 - 140*	*02/04/19 06:18*	*02/04/19 23:27*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Endrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Toxaphene	ND		200	49	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
Chlordane (technical)	ND		49	9.9	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 19:48	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*43*		*28 - 115*	*02/04/19 13:21*	*02/05/19 19:48*	*1*
DCB Decachlorobiphenyl (Surr)	*35*		*21 - 117*	*02/04/19 13:21*	*02/05/19 19:48*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 17:43	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 17:43	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 17:43	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 17:43	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 17:43	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 17:43	1
Aroclor 1260	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 17:43	1

Client Sample ID: DG-AB9S-0.5-1

Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-3

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*02/05/19 13:19*	*02/06/19 17:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.24	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Arsenic	**11**		2.9	0.25	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Barium	**85**		1.4	0.21	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Beryllium	**0.29**		0.29	0.094	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Cadmium	**0.36**		0.36	0.036	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Chromium	**22**	**B**	1.4	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Cobalt	**7.0**		0.58	0.058	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Copper	**96**		4.3	2.1	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Lead	**95**	**B**	1.4	0.30	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Molybdenum	ND		1.4	0.19	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Nickel	**20**		1.4	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Selenium	ND		2.9	0.43	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Silver	ND		0.72	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Thallium	ND		1.4	0.42	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Vanadium	**50**		1.4	0.20	mg/Kg		01/31/19 10:54	02/11/19 17:49	4
Zinc	**140**		4.3	1.8	mg/Kg		01/31/19 10:54	02/11/19 17:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**		0.016	0.0023	mg/Kg		02/12/19 15:02	02/13/19 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**38.4**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AB9S-3.5-4

Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	60	ug/Kg		01/30/19 19:00	02/01/19 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/30/19 19:00*	*02/01/19 15:41*	*1*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*	*01/30/19 19:00*	*02/01/19 15:41*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/30/19 19:00*	*02/01/19 15:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,1,1-Trichloroethane	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,1,2-Trichloroethane	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,1-Dichloroethane	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,1-Dichloroethene	ND		1.7	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,1-Dichloropropene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,2,4-Trichlorobenzene	ND		4.3	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,2-Dibromo-3-Chloropropane	ND		4.3	1.7	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,2-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,2-Dichloroethane	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,2-Dichloropropane	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,3-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,3-Dichloropropane	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,4-Dichlorobenzene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
2-Hexanone	ND		8.5	4.3	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
4-Isopropyltoluene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Benzene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Bromobenzene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Bromoform	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Bromomethane	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Carbon tetrachloride	ND		1.7	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Chlorobenzene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Chloroethane	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Chloroform	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Chloromethane	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
cis-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
cis-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Chlorodibromomethane	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Dibromomethane	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Dichlorobromomethane	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1

Client Sample ID: DG-AB9S-3.5-4
Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Ethylbenzene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Isopropylbenzene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Methylene Chloride	ND		8.5	4.3	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Naphthalene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
N-Propylbenzene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Styrene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Tetrachloroethene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Toluene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
trans-1,2-Dichloroethene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
trans-1,3-Dichloropropene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Trichloroethene	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.3	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
Ethylene Dibromide	ND		0.85	0.43	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
2-Butanone (MEK)	ND		8.5	4.3	ug/Kg		01/30/19 19:00	02/01/19 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	2.1	ug/Kg		01/30/19 19:00	02/01/19 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/30/19 19:00*	*02/01/19 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/30/19 19:00*	*02/01/19 15:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**22**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Acenaphthene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Acenaphthylene	**13**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Fluorene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Phenanthrene	**21**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Anthracene	**28**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Benzo[a]anthracene	**16**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Chrysene	**23**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Benzo[a]pyrene	**22**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Benzo[b]fluoranthene	**32**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Benzo[k]fluoranthene	**10**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Benzo[g,h,i]perylene	**39**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Indeno[1,2,3-cd]pyrene	**32**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Fluoranthene	**19**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Pyrene	**21**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
Dibenz(a,h)anthracene	**5.7**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1
2-Methylnaphthalene	**26**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 19:40	1

Client Sample ID: DG-AB9S-3.5-4

Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*96*		*29 - 120*	*02/05/19 06:11*	*02/06/19 19:40*	*1*
Nitrobenzene-d5	*87*		*11 - 118*	*02/05/19 06:11*	*02/06/19 19:40*	*1*
Terphenyl-d14	*96*		*10 - 120*	*02/05/19 06:11*	*02/06/19 19:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.9**	**B**	4.9	2.4	mg/Kg		02/04/19 06:18	02/04/19 20:14	1
Motor Oil Range Organics [C24-C36]	**11**	**B**	4.9	2.4	mg/Kg		02/04/19 06:18	02/04/19 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*93*		*40 - 140*	*02/04/19 06:18*	*02/04/19 20:14*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Endrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Toxaphene	ND		200	49	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:08	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*28 - 115*	*02/04/19 13:21*	*02/05/19 22:08*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*21 - 117*	*02/04/19 13:21*	*02/05/19 22:08*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 17:57	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 17:57	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 17:57	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 17:57	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 17:57	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 17:57	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 17:57	1

Client Sample ID: DG-AB9S-3.5-4

Date Collected: 01/30/19 10:20
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*02/05/19 13:19*	*02/06/19 17:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**40**		3.6	0.61	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Arsenic	**26**		7.3	0.62	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Barium	**1400**		3.6	0.52	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Beryllium	**0.50**	**J**	0.73	0.24	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Cadmium	**5.4**		0.91	0.091	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Chromium	**75**	**B**	3.6	0.39	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Cobalt	**11**		1.5	0.15	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Copper	**1000**		11	5.2	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Lead	**5700**	**B**	3.6	0.77	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Molybdenum	**0.65**	**J**	3.6	0.47	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Nickel	**49**		3.6	0.37	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Selenium	ND		7.3	1.1	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Silver	**8.7**		1.8	0.37	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Thallium	ND		3.6	1.1	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Vanadium	**24**		3.6	0.50	mg/Kg		01/31/19 10:54	02/11/19 17:54	10
Zinc	**3300**		11	4.6	mg/Kg		01/31/19 10:54	02/11/19 17:54	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.71**		0.016	0.0024	mg/Kg		02/12/19 15:02	02/13/19 18:06	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.9**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AH9S-0.5-1

Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/30/19 19:00	02/01/19 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/30/19 19:00*	*02/01/19 16:06*	*1*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*	*01/30/19 19:00*	*02/01/19 16:06*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/30/19 19:00*	*02/01/19 16:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,1,1-Trichloroethane	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,1,2-Trichloroethane	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,1-Dichloroethane	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,1-Dichloropropene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,2,4-Trichlorobenzene	ND		4.0	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,2-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,2-Dichloroethane	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,2-Dichloropropane	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,3-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,3-Dichloropropane	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,4-Dichlorobenzene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
2-Hexanone	ND		7.9	4.0	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
4-Isopropyltoluene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Benzene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Bromoform	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Chlorobenzene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Chloroform	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
cis-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
cis-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Chlorodibromomethane	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Dibromomethane	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Dichlorobromomethane	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1

Client Sample ID: DG-AH9S-0.5-1
Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Ethylbenzene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Isopropylbenzene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Methylene Chloride	ND		7.9	4.0	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
N-Propylbenzene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Styrene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Tetrachloroethene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Toluene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
trans-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
trans-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Trichloroethene	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	4.0	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
Ethylene Dibromide	ND		0.79	0.40	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
2-Butanone (MEK)	ND		7.9	4.0	ug/Kg		01/30/19 19:00	02/01/19 16:06	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/30/19 19:00	02/01/19 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/30/19 19:00*	*02/01/19 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/30/19 19:00*	*02/01/19 16:06*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**6.3**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Acenaphthene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Acenaphthylene	**6.1**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Fluorene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Phenanthrene	**21**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Anthracene	**22**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Benzo[a]anthracene	**22**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Chrysene	**28**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Benzo[a]pyrene	**30**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Benzo[b]fluoranthene	**41**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Benzo[k]fluoranthene	**15**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Benzo[g,h,i]perylene	**39**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Indeno[1,2,3-cd]pyrene	**25**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Fluoranthene	**35**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Pyrene	**34**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
Dibenz(a,h)anthracene	**5.4**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1
2-Methylnaphthalene	**7.4**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:02	1

Client Sample ID: DG-AH9S-0.5-1

Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*100*		*29 - 120*	*02/05/19 06:11*	*02/06/19 20:02*	*1*
Nitrobenzene-d5	*91*		*11 - 118*	*02/05/19 06:11*	*02/06/19 20:02*	*1*
Terphenyl-d14	*102*		*10 - 120*	*02/05/19 06:11*	*02/06/19 20:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.3**	**B**	5.0	2.5	mg/Kg		02/04/19 06:18	02/05/19 00:31	1
Motor Oil Range Organics [C24-C36]	**11**	**B**	5.0	2.5	mg/Kg		02/04/19 06:18	02/05/19 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*96*		*40 - 140*	*02/04/19 06:18*	*02/05/19 00:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Dieldrin	**1.6**	**J**	4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Endrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
4,4'-DDT	**2.2**	**J p**	4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Toxaphene	ND		200	49	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:23	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*28 - 115*	*02/04/19 13:21*	*02/05/19 22:23*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*21 - 117*	*02/04/19 13:21*	*02/05/19 22:23*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:13	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:13	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:13	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:13	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:13	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:13	1
Aroclor 1260	**38**	**J**	49	17	ug/Kg		02/05/19 13:19	02/08/19 14:13	1

Client Sample ID: DG-AH9S-0.5-1

Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*02/05/19 13:19*	*02/08/19 14:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8	J	2.0	0.33	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Arsenic	4.3		4.0	0.34	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Barium	90		2.0	0.28	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Beryllium	0.31	J	0.40	0.13	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Cadmium	0.59		0.50	0.049	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Chromium	20	B	2.0	0.21	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Cobalt	7.6		0.79	0.079	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Copper	130		5.9	2.8	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Lead	110	B	2.0	0.42	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Molybdenum	0.45	J	2.0	0.25	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Nickel	15		2.0	0.20	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Selenium	ND		4.0	0.59	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Silver	0.25	J	0.99	0.20	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Thallium	ND		2.0	0.57	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Vanadium	71		2.0	0.27	mg/Kg		01/31/19 10:54	02/11/19 17:59	4
Zinc	200		5.9	2.5	mg/Kg		01/31/19 10:54	02/11/19 17:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.017	0.0025	mg/Kg		02/12/19 15:02	02/13/19 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AH9S-3.5-4

Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		82	57	ug/Kg		01/30/19 19:00	02/01/19 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/30/19 19:00*	*02/01/19 16:30*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/30/19 19:00*	*02/01/19 16:30*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/30/19 19:00*	*02/01/19 16:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.2	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,1,1-Trichloroethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,1,2-Trichloroethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,1-Dichloroethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,1-Dichloroethene	ND		1.6	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,1-Dichloropropene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,2,3-Trichlorobenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,2,4-Trichlorobenzene	ND		4.1	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,2,4-Trimethylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,2-Dichlorobenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,2-Dichloroethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,2-Dichloropropane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,3,5-Trimethylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,3-Dichlorobenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,3-Dichloropropane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,4-Dichlorobenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
2,2-Dichloropropane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
2-Chlorotoluene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
2-Hexanone	ND		8.2	4.1	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
4-Chlorotoluene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
4-Isopropyltoluene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Benzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Bromobenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Bromoform	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Bromomethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Carbon disulfide	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Carbon tetrachloride	ND		1.6	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Chlorobenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Chlorobromomethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Chloroethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Chloroform	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Chloromethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
cis-1,2-Dichloroethene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
cis-1,3-Dichloropropene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Chlorodibromomethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Dibromomethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Dichlorobromomethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1

Client Sample ID: DG-AH9S-3.5-4
Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Ethylbenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Hexachlorobutadiene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Isopropylbenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Methylene Chloride	ND		8.2	4.1	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Methyl tert-butyl ether	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Naphthalene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
n-Butylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
N-Propylbenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
sec-Butylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Styrene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
tert-Butylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Tetrachloroethene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Toluene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
trans-1,2-Dichloroethene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
trans-1,3-Dichloropropene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Trichloroethene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Trichlorofluoromethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.2	4.1	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Vinyl acetate	ND		6.5	3.3	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Vinyl chloride	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Xylenes, Total	ND		1.6	1.1	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
Ethylene Dibromide	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
2-Butanone (MEK)	**18**		8.2	4.1	ug/Kg		01/30/19 19:00	02/01/19 16:30	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.0	ug/Kg		01/30/19 19:00	02/01/19 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/30/19 19:00*	*02/01/19 16:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/30/19 19:00*	*02/01/19 16:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**36**		29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Acenaphthene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Acenaphthylene	**4.7**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Fluorene	**6.8**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Phenanthrene	**50**		29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Anthracene	**16**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Benzo[a]anthracene	**25**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Chrysene	**37**		29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Benzo[a]pyrene	**24**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Benzo[b]fluoranthene	**42**		29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Benzo[k]fluoranthene	**13**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Benzo[g,h,i]perylene	**18**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Indeno[1,2,3-cd]pyrene	**18**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Fluoranthene	**48**		29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Pyrene	**36**		29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
Dibenz(a,h)anthracene	**5.2**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1
2-Methylnaphthalene	**29**		29	3.9	ug/Kg		02/05/19 06:11	02/10/19 20:34	1

Client Sample ID: DG-AH9S-3.5-4

Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*29 - 120*	*02/05/19 06:11*	*02/10/19 20:34*	*1*
Nitrobenzene-d5	*84*		*11 - 118*	*02/05/19 06:11*	*02/10/19 20:34*	*1*
Terphenyl-d14	*91*		*10 - 120*	*02/05/19 06:11*	*02/10/19 20:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13	B	4.9	2.4	mg/Kg		02/04/19 06:18	02/04/19 22:23	1
Motor Oil Range Organics [C24-C36]	13	B	4.9	2.4	mg/Kg		02/04/19 06:18	02/04/19 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*40 - 140*	*02/04/19 06:18*	*02/04/19 22:23*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Endrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Toxaphene	ND		200	49	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:25	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*28 - 115*	*02/04/19 13:21*	*02/06/19 15:25*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*21 - 117*	*02/04/19 13:21*	*02/06/19 15:25*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:53	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:53	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:53	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:53	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:53	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:53	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 14:53	1

Client Sample ID: DG-AH9S-3.5-4

Date Collected: 01/30/19 10:40
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*02/05/19 13:19*	*02/07/19 14:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9	0.31	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Arsenic	**4.0**		3.8	0.32	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Barium	**85**		1.9	0.27	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Beryllium	**0.17**	**J**	0.38	0.12	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Cadmium	**0.15**	**J**	0.47	0.047	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Chromium	**15**	**B**	1.9	0.20	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Cobalt	**5.2**		0.75	0.075	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Copper	**32**		5.7	2.7	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Lead	**210**	**B**	1.9	0.40	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Nickel	**15**		1.9	0.19	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Selenium	**0.66**	**J B**	3.8	0.57	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Silver	ND		0.94	0.19	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Thallium	ND		1.9	0.55	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Vanadium	**29**		1.9	0.26	mg/Kg		01/31/19 10:54	02/11/19 18:03	4
Zinc	**93**		5.7	2.4	mg/Kg		01/31/19 10:54	02/11/19 18:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.017	0.0025	mg/Kg		02/12/19 15:02	02/13/19 18:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.0**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AJ9S-0.5-1
Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-7
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		01/30/19 19:00	02/01/19 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/30/19 19:00*	*02/01/19 16:55*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*01/30/19 19:00*	*02/01/19 16:55*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/30/19 19:00*	*02/01/19 16:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,1,1-Trichloroethane	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,1,2-Trichloroethane	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,1-Dichloroethane	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,1-Dichloropropene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,2,4-Trichlorobenzene	ND		3.9	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,2-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,2-Dichloroethane	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,2-Dichloropropane	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,3-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,3-Dichloropropane	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,4-Dichlorobenzene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
2-Hexanone	ND		7.9	3.9	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
4-Isopropyltoluene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Benzene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Bromobenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Bromoform	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Bromomethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Carbon disulfide	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Chlorobenzene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Chloroethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Chloroform	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Chloromethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
cis-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
cis-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Chlorodibromomethane	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Dibromomethane	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Dichlorobromomethane	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1

Client Sample ID: DG-AJ9S-0.5-1
Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Ethylbenzene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Isopropylbenzene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Methylene Chloride	ND		7.9	3.9	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Naphthalene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
N-Propylbenzene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Styrene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Tetrachloroethene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Toluene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
trans-1,2-Dichloroethene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
trans-1,3-Dichloropropene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Trichloroethene	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	3.9	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Vinyl acetate	ND		6.3	3.1	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
Ethylene Dibromide	ND		0.79	0.39	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
2-Butanone (MEK)	ND		7.9	3.9	ug/Kg		01/30/19 19:00	02/01/19 16:55	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/30/19 19:00	02/01/19 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/30/19 19:00*	*02/01/19 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/30/19 19:00*	*02/01/19 16:55*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**20**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Acenaphthene	**4.1**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Acenaphthylene	**12**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Fluorene	**4.8**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Phenanthrene	**66**		30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Anthracene	**28**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Benzo[a]anthracene	**40**		30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Chrysene	**60**		30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Benzo[a]pyrene	**44**		30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Benzo[b]fluoranthene	**67**		30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Benzo[k]fluoranthene	**20**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Benzo[g,h,i]perylene	**57**		30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Indeno[1,2,3-cd]pyrene	**37**		30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Fluoranthene	**86**		30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Pyrene	**88**		30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
Dibenz(a,h)anthracene	**7.8**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1
2-Methylnaphthalene	**18**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/10/19 20:57	1

Client Sample ID: DG-AJ9S-0.5-1

Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*29 - 120*	*02/05/19 06:11*	*02/10/19 20:57*	*1*
Nitrobenzene-d5	*82*		*11 - 118*	*02/05/19 06:11*	*02/10/19 20:57*	*1*
Terphenyl-d14	*88*		*10 - 120*	*02/05/19 06:11*	*02/10/19 20:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**71**		4.9	2.5	mg/Kg		02/04/19 06:11	02/04/19 19:39	1
Motor Oil Range Organics [C24-C36]	**73**		4.9	2.5	mg/Kg		02/04/19 06:11	02/04/19 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*99*		*40 - 140*	*02/04/19 06:11*	*02/04/19 19:39*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Dieldrin	**4.4**	**J p**	4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Endrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
4,4'-DDT	**54**		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
4,4'-DDE	**1.6**	**J p**	4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Toxaphene	ND		200	49	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
Chlordane (technical)	ND		49	9.9	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 22:38	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*28 - 115*	*02/04/19 13:21*	*02/05/19 22:38*	*1*
DCB Decachlorobiphenyl (Surr)	*52*		*21 - 117*	*02/04/19 13:21*	*02/05/19 22:38*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 18:37	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 18:37	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 18:37	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 18:37	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 18:37	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 18:37	1

Client Sample ID: DG-AJ9S-0.5-1

Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*02/05/19 13:19*	*02/06/19 18:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	820		150	50	ug/Kg		02/05/19 13:19	02/07/19 15:07	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*02/05/19 13:19*	*02/07/19 15:07*	*3*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.5		1.4	0.23	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Arsenic	20		2.8	0.23	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Barium	250		1.4	0.20	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Beryllium	0.24	J	0.28	0.090	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Cadmium	3.7		0.34	0.034	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Chromium	62	B	1.4	0.15	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Cobalt	9.8		0.55	0.055	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Copper	500		4.1	2.0	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Lead	710	B	1.4	0.29	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Molybdenum	3.9		1.4	0.18	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Nickel	61		1.4	0.14	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Selenium	ND		2.8	0.41	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Silver	1.2		0.69	0.14	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Thallium	ND		1.4	0.40	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Vanadium	35		1.4	0.19	mg/Kg		01/31/19 10:54	02/11/19 18:08	4
Zinc	830		4.1	1.8	mg/Kg		01/31/19 10:54	02/11/19 18:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.015	0.0022	mg/Kg		02/12/19 15:02	02/13/19 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AJ9S-3.5-4
Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-8
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		80	56	ug/Kg		01/30/19 19:00	02/01/19 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/30/19 19:00*	*02/01/19 17:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/30/19 19:00*	*02/01/19 17:19*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/30/19 19:00*	*02/01/19 17:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
2-Hexanone	ND		8.0	4.0	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Benzene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Bromobenzene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Bromoform	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Bromomethane	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Carbon disulfide	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Chloroethane	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Chloroform	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Chloromethane	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Dibromomethane	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1

Client Sample ID: DG-AJ9S-3.5-4
Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Naphthalene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Styrene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Tetrachloroethene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Toluene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Trichloroethene	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
2-Butanone (MEK)	**12**		8.0	4.0	ug/Kg		01/30/19 19:00	02/01/19 17:19	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		01/30/19 19:00	02/01/19 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/30/19 19:00*	*02/01/19 17:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*01/30/19 19:00*	*02/01/19 17:19*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**26**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Acenaphthene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Acenaphthylene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Fluorene	**5.6**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Phenanthrene	**36**		29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Anthracene	**12**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Benzo[a]anthracene	**13**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Chrysene	**24**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Benzo[a]pyrene	**8.3**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Benzo[b]fluoranthene	**22**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Benzo[k]fluoranthene	**5.9**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Benzo[g,h,i]perylene	**8.3**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Indeno[1,2,3-cd]pyrene	**7.0**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Fluoranthene	**23**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Pyrene	**18**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
Dibenz(a,h)anthracene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1
2-Methylnaphthalene	**34**		29	3.9	ug/Kg		02/05/19 06:11	02/07/19 15:36	1

Client Sample ID: DG-AJ9S-3.5-4

Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*105*		*29 - 120*	*02/05/19 06:11*	*02/07/19 15:36*	*1*
Nitrobenzene-d5	*95*		*11 - 118*	*02/05/19 06:11*	*02/07/19 15:36*	*1*
Terphenyl-d14	*109*		*10 - 120*	*02/05/19 06:11*	*02/07/19 15:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.1**	**B**	4.9	2.4	mg/Kg		02/06/19 07:07	02/06/19 17:29	1
Motor Oil Range Organics [C24-C36]	**8.4**	**B**	4.9	2.4	mg/Kg		02/06/19 07:07	02/06/19 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*40 - 140*	*02/06/19 07:07*	*02/06/19 17:29*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Endrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Toxaphene	ND		200	49	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/06/19 15:39	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/06/19 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*28 - 115*	*02/04/19 13:21*	*02/06/19 15:39*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*21 - 117*	*02/04/19 13:21*	*02/06/19 15:39*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 15:20	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 15:20	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 15:20	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 15:20	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 15:20	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 15:20	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/07/19 15:20	1

Client Sample ID: DG-AJ9S-3.5-4

Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-8

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*02/05/19 13:19*	*02/07/19 15:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.28	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Arsenic	**4.0**		3.3	0.28	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Barium	**72**		1.7	0.24	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Beryllium	**0.25**	**J**	0.33	0.11	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Cadmium	**0.064**	**J**	0.42	0.041	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Chromium	**20**	**B**	1.7	0.18	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Cobalt	**5.2**		0.67	0.067	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Copper	**17**		5.0	2.4	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Lead	**22**	**B**	1.7	0.35	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Molybdenum	ND		1.7	0.21	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Nickel	**18**		1.7	0.17	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Selenium	**0.57**	**J B**	3.3	0.50	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Silver	ND		0.83	0.17	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Thallium	ND		1.7	0.48	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Vanadium	**35**		1.7	0.23	mg/Kg		01/31/19 10:54	02/11/19 18:13	4
Zinc	**43**		5.0	2.1	mg/Kg		01/31/19 10:54	02/11/19 18:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.014	0.0021	mg/Kg		02/12/19 15:02	02/13/19 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.7**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AL5S-0.5-1

Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		01/30/19 19:00	02/05/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/30/19 19:00*	*02/05/19 20:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/30/19 19:00*	*02/05/19 20:41*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/30/19 19:00*	*02/05/19 20:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Benzene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Bromoform	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Chloroform	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1

Client Sample ID: DG-AL5S-0.5-1
Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Styrene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Toluene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Vinyl acetate	ND	F2 F1	6.3	3.1	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/30/19 19:00	02/05/19 20:41	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/30/19 19:00	02/05/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/30/19 19:00*	*02/05/19 20:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*01/30/19 19:00*	*02/05/19 20:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**63**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Acenaphthene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Acenaphthylene	**16**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Fluorene	**3.9**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Phenanthrene	**49**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Anthracene	**46**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Benzo[a]anthracene	**26**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Chrysene	**34**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Benzo[a]pyrene	**28**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Benzo[b]fluoranthene	**45**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Benzo[k]fluoranthene	**14**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Benzo[g,h,i]perylene	**35**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Indeno[1,2,3-cd]pyrene	**25**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Fluoranthene	**47**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Pyrene	**42**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
Dibenz(a,h)anthracene	**5.3**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1
2-Methylnaphthalene	**32**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:25	1

Client Sample ID: DG-AL5S-0.5-1

Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*100*		*29 - 120*	*02/05/19 06:11*	*02/06/19 20:25*	*1*
Nitrobenzene-d5	*94*		*11 - 118*	*02/05/19 06:11*	*02/06/19 20:25*	*1*
Terphenyl-d14	*100*		*10 - 120*	*02/05/19 06:11*	*02/06/19 20:25*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 16:25	1
Motor Oil Range Organics [C24-C36]	**21**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*72*		*40 - 140*	*02/06/19 07:07*	*02/06/19 16:25*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Endrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Toxaphene	ND		200	49	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
Chlordane (technical)	ND		49	9.9	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/04/19 13:21	02/05/19 18:05	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*28 - 115*	*02/04/19 13:21*	*02/05/19 18:05*	*1*
DCB Decachlorobiphenyl (Surr)	*125*	*X*	*21 - 117*	*02/04/19 13:21*	*02/05/19 18:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:27	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:27	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:27	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:27	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:27	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/08/19 14:27	1
Aroclor 1260	**17**	**J**	49	17	ug/Kg		02/05/19 13:19	02/08/19 14:27	1

Client Sample ID: DG-AL5S-0.5-1

Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-9

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*02/05/19 13:19*	*02/08/19 14:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.5**	**F1 B**	1.5	0.26	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Arsenic	**9.1**		3.1	0.26	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Barium	**96**	**F1 B F2**	1.5	0.22	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Beryllium	ND		0.31	0.10	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Cadmium	**1.2**		0.38	0.038	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Chromium	**26**		1.5	0.16	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Cobalt	**8.5**		0.62	0.062	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Copper	**140**	**F1**	4.6	2.2	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Lead	**220**		1.5	0.32	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Molybdenum	**2.4**		1.5	0.20	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Nickel	**29**		1.5	0.16	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Selenium	**1.6**	**J**	3.1	0.46	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Silver	**0.47**	**J B**	0.77	0.16	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Thallium	ND		1.5	0.45	mg/Kg		02/01/19 17:30	02/05/19 12:55	4
Vanadium	**52**		1.5	0.21	mg/Kg		02/01/19 17:30	02/02/19 18:36	4
Zinc	**240**	**B**	4.6	2.0	mg/Kg		02/01/19 17:30	02/02/19 18:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**		0.014	0.0021	mg/Kg		02/08/19 09:15	02/08/19 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.2**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AL5S-3.5-4

Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		65	46	ug/Kg		01/30/19 19:00	02/01/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/30/19 19:00*	*02/01/19 17:44*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/30/19 19:00*	*02/01/19 17:44*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/30/19 19:00*	*02/01/19 17:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.5	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,1,1-Trichloroethane	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,1,2-Trichloroethane	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,1-Dichloroethane	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,1-Dichloropropene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,2,3-Trichlorobenzene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,2,4-Trichlorobenzene	ND		3.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,2,4-Trimethylbenzene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,2-Dichlorobenzene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,2-Dichloroethane	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,2-Dichloropropane	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,3,5-Trimethylbenzene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,3-Dichlorobenzene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,3-Dichloropropane	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,4-Dichlorobenzene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
2,2-Dichloropropane	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
2-Chlorotoluene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
2-Hexanone	ND		6.5	3.3	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
4-Chlorotoluene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
4-Isopropyltoluene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Benzene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Bromobenzene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Bromoform	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Bromomethane	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Carbon disulfide	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Chlorobenzene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Chlorobromomethane	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Chloroethane	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Chloroform	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Chloromethane	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
cis-1,2-Dichloroethene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
cis-1,3-Dichloropropene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Chlorodibromomethane	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Dibromomethane	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Dichlorobromomethane	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1

Client Sample ID: DG-AL5S-3.5-4
Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Ethylbenzene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Hexachlorobutadiene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Isopropylbenzene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Methylene Chloride	ND		6.5	3.3	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Methyl tert-butyl ether	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Naphthalene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
n-Butylbenzene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
N-Propylbenzene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
sec-Butylbenzene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Styrene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
tert-Butylbenzene	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Tetrachloroethene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Toluene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
trans-1,2-Dichloroethene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
trans-1,3-Dichloropropene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Trichloroethene	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Trichlorofluoromethane	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.5	3.3	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Vinyl acetate	ND		5.2	2.6	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Vinyl chloride	ND		1.3	0.65	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Xylenes, Total	ND		1.3	0.85	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
Ethylene Dibromide	ND		0.65	0.33	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
2-Butanone (MEK)	ND		6.5	3.3	ug/Kg		01/30/19 19:00	02/01/19 17:44	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.6	ug/Kg		01/30/19 19:00	02/01/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/30/19 19:00*	*02/01/19 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*01/30/19 19:00*	*02/01/19 17:44*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**38**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Acenaphthene	ND		120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Acenaphthylene	**22**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Fluorene	ND		120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Phenanthrene	**76**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Anthracene	**68**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Benzo[a]anthracene	**60**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Chrysene	**130**		120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Benzo[a]pyrene	**74**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Benzo[b]fluoranthene	**140**		120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Benzo[k]fluoranthene	**42**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Benzo[g,h,i]perylene	**93**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Indeno[1,2,3-cd]pyrene	**59**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Fluoranthene	**110**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Pyrene	**130**		120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
Dibenz(a,h)anthracene	**17**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2
2-Methylnaphthalene	**28**	**J**	120	16	ug/Kg		02/05/19 06:11	02/08/19 14:59	2

Client Sample ID: DG-AL5S-3.5-4

Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-10

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	108		29 - 120	02/05/19 06:11	02/08/19 14:59	2
Nitrobenzene-d5	104		11 - 118	02/05/19 06:11	02/08/19 14:59	2
Terphenyl-d14	113		10 - 120	02/05/19 06:11	02/08/19 14:59	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110	B	9.8	4.9	mg/Kg		02/06/19 07:07	02/06/19 18:33	1
Motor Oil Range Organics [C24-C36]	200	B	9.8	4.9	mg/Kg		02/06/19 07:07	02/06/19 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	84		40 - 140	02/06/19 07:07	02/06/19 18:33	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Endrin	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Endrin ketone	ND		4.9	1.9	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Heptachlor	ND		4.9	1.9	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
delta-BHC	ND		9.7	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Toxaphene	ND		190	49	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
Chlordane (technical)	ND		49	9.7	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		02/04/19 13:21	02/05/19 22:54	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/04/19 13:21	02/05/19 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	46		28 - 115	02/04/19 13:21	02/05/19 22:54	1
DCB Decachlorobiphenyl (Surr)	38		21 - 117	02/04/19 13:21	02/05/19 22:54	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:03	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:03	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:03	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:03	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:03	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:03	1
Aroclor 1260	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:03	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Client Sample ID: DG-AL5S-3.5-4
Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-10
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*02/05/19 13:19*	*02/06/19 19:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.4		1.6	0.26	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Arsenic	68		3.1	0.27	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Barium	66		1.6	0.22	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Beryllium	0.23	J	0.31	0.10	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Cadmium	1.1		0.39	0.039	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Chromium	22	B	1.6	0.17	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Cobalt	7.5		0.63	0.063	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Copper	320		4.7	2.2	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Lead	330	B	1.6	0.33	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Molybdenum	1.6		1.6	0.20	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Nickel	30		1.6	0.16	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Selenium	ND		3.1	0.47	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Silver	0.29	J	0.78	0.16	mg/Kg		01/31/19 10:54	02/13/19 14:31	4
Thallium	ND	L	1.6	0.45	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Vanadium	47		1.6	0.21	mg/Kg		01/31/19 10:54	02/11/19 18:27	4
Zinc	350		4.7	2.0	mg/Kg		01/31/19 10:54	02/11/19 18:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.40		0.016	0.0024	mg/Kg		02/12/19 15:02	02/13/19 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.8		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AQ7S-0.5-1

Date Collected: 01/30/19 13:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		82	57	ug/Kg		01/30/19 19:00	02/01/19 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/30/19 19:00*	*02/01/19 18:09*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/30/19 19:00*	*02/01/19 18:09*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/30/19 19:00*	*02/01/19 18:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.2	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,1,1-Trichloroethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,1,2-Trichloroethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,1-Dichloroethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,1-Dichloroethene	ND		1.6	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,1-Dichloropropene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,2,3-Trichlorobenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,2,4-Trichlorobenzene	ND		4.1	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,2,4-Trimethylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,2-Dichlorobenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,2-Dichloroethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,2-Dichloropropane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,3,5-Trimethylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,3-Dichlorobenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,3-Dichloropropane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,4-Dichlorobenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
2,2-Dichloropropane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
2-Chlorotoluene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
2-Hexanone	ND		8.2	4.1	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
4-Chlorotoluene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
4-Isopropyltoluene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Benzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Bromobenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Bromoform	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Bromomethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Carbon disulfide	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Carbon tetrachloride	ND		1.6	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Chlorobenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Chlorobromomethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Chloroethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Chloroform	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Chloromethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
cis-1,2-Dichloroethene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
cis-1,3-Dichloropropene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Chlorodibromomethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Dibromomethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Dichlorobromomethane	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1

Client Sample ID: DG-AQ7S-0.5-1

Date Collected: 01/30/19 13:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Ethylbenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Hexachlorobutadiene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Isopropylbenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Methylene Chloride	ND		8.2	4.1	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Methyl tert-butyl ether	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Naphthalene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
n-Butylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
N-Propylbenzene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
sec-Butylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Styrene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
tert-Butylbenzene	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Tetrachloroethene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Toluene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
trans-1,2-Dichloroethene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
trans-1,3-Dichloropropene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Trichloroethene	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Trichlorofluoromethane	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.2	4.1	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Vinyl acetate	ND		6.5	3.3	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Vinyl chloride	ND		1.6	0.82	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Xylenes, Total	ND		1.6	1.1	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
Ethylene Dibromide	ND		0.82	0.41	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
2-Butanone (MEK)	ND		8.2	4.1	ug/Kg		01/30/19 19:00	02/01/19 18:09	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.0	ug/Kg		01/30/19 19:00	02/01/19 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/30/19 19:00*	*02/01/19 18:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*01/30/19 19:00*	*02/01/19 18:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**49**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Acenaphthene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Acenaphthylene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Fluorene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Phenanthrene	**20**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Anthracene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Benzo[a]anthracene	**7.1**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Chrysene	**11**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Benzo[a]pyrene	**6.6**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Benzo[b]fluoranthene	**11**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Benzo[k]fluoranthene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Benzo[g,h,i]perylene	**4.9**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Indeno[1,2,3-cd]pyrene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Fluoranthene	**11**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Pyrene	**14**	**J**	29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
Dibenz(a,h)anthracene	ND		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1
2-Methylnaphthalene	**65**		29	3.9	ug/Kg		02/05/19 06:11	02/06/19 20:48	1

Client Sample ID: DG-AQ7S-0.5-1

Date Collected: 01/30/19 13:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*29 - 120*	*02/05/19 06:11*	*02/06/19 20:48*	*1*
Nitrobenzene-d5	*86*		*11 - 118*	*02/05/19 06:11*	*02/06/19 20:48*	*1*
Terphenyl-d14	*96*		*10 - 120*	*02/05/19 06:11*	*02/06/19 20:48*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.2**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 19:58	1
Motor Oil Range Organics [C24-C36]	**6.5**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*40 - 140*	*02/06/19 07:07*	*02/06/19 19:58*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Endrin	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Endrin ketone	ND		4.9	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Heptachlor	ND		4.9	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
delta-BHC	ND		9.7	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Toxaphene	ND		190	49	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
Chlordane (technical)	ND		49	9.7	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:13	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*28 - 115*	*02/06/19 06:33*	*02/06/19 18:13*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*21 - 117*	*02/06/19 06:33*	*02/06/19 18:13*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:17	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:17	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:17	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:17	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:17	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:17	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:17	1

Client Sample ID: DG-AQ7S-0.5-1

Date Collected: 01/30/19 13:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*45 - 120*	*02/05/19 13:19*	*02/06/19 19:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.23	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Arsenic	**4.5**		2.7	0.23	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Barium	**49**		1.4	0.19	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Beryllium	**0.26**	**J**	0.27	0.089	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Cadmium	**0.057**	**J**	0.34	0.034	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Chromium	**13**	**B**	1.4	0.15	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Cobalt	**4.6**		0.55	0.055	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Copper	**19**		4.1	2.0	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Lead	**14**	**B**	1.4	0.29	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Nickel	**13**		1.4	0.14	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Selenium	ND		2.7	0.41	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Silver	ND	^	0.68	0.14	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Thallium	ND		1.4	0.40	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Vanadium	**30**		1.4	0.19	mg/Kg		01/31/19 10:54	02/11/19 18:32	4
Zinc	**30**		4.1	1.7	mg/Kg		01/31/19 10:54	02/11/19 18:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.017	0.0025	mg/Kg		02/12/19 15:02	02/13/19 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.1**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DUP-33

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-12

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		59	41	ug/Kg		01/30/19 19:00	02/06/19 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/30/19 19:00*	*02/06/19 12:04*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/30/19 19:00*	*02/06/19 12:04*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/30/19 19:00*	*02/06/19 12:04*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.9	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,1,1,2-Tetrachloroethane	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,1,1-Trichloroethane	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,1,2-Trichloroethane	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,1-Dichloroethane	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,1-Dichloroethene	ND		1.2	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,1-Dichloropropene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,2,3-Trichlorobenzene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,2,4-Trichlorobenzene	ND		3.0	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,2,4-Trimethylbenzene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,2-Dibromo-3-Chloropropane	ND		3.0	1.2	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,2-Dichlorobenzene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,2-Dichloroethane	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,2-Dichloropropane	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,3,5-Trimethylbenzene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,3-Dichlorobenzene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,3-Dichloropropane	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,4-Dichlorobenzene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
2,2-Dichloropropane	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
2-Chlorotoluene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
2-Hexanone	ND		5.9	3.0	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
4-Chlorotoluene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
4-Isopropyltoluene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Benzene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Bromobenzene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Bromoform	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Bromomethane	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Carbon disulfide	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Carbon tetrachloride	ND		1.2	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Chlorobenzene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Chlorobromomethane	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Chloroethane	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Chloroform	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Chloromethane	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
cis-1,2-Dichloroethene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
cis-1,3-Dichloropropene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Chlorodibromomethane	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Dibromomethane	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Dichlorobromomethane	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1

Client Sample ID: DUP-33

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Ethylbenzene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Hexachlorobutadiene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Isopropylbenzene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Methylene Chloride	ND		5.9	3.0	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Methyl tert-butyl ether	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Naphthalene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
n-Butylbenzene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
N-Propylbenzene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
sec-Butylbenzene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Styrene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
tert-Butylbenzene	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Tetrachloroethene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Toluene	**0.71**		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
trans-1,2-Dichloroethene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
trans-1,3-Dichloropropene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Trichloroethene	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Trichlorofluoromethane	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.9	3.0	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Vinyl acetate	ND		4.7	2.4	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Vinyl chloride	ND		1.2	0.59	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Xylenes, Total	ND		1.2	0.77	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
Ethylene Dibromide	ND		0.59	0.30	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
2-Butanone (MEK)	**5.4**	**J**	5.9	3.0	ug/Kg		01/30/19 19:00	02/06/19 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		3.0	1.5	ug/Kg		01/30/19 19:00	02/06/19 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/30/19 19:00*	*02/06/19 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*01/30/19 19:00*	*02/06/19 12:04*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**21**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Acenaphthene	ND		60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Acenaphthylene	**11**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Fluorene	ND		60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Phenanthrene	**44**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Anthracene	**31**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Benzo[a]anthracene	**23**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Chrysene	**41**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Benzo[a]pyrene	**26**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Benzo[b]fluoranthene	**44**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Benzo[k]fluoranthene	**14**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Benzo[g,h,i]perylene	**35**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Indeno[1,2,3-cd]pyrene	**20**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Fluoranthene	**51**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Pyrene	**51**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
Dibenz(a,h)anthracene	ND		60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1
2-Methylnaphthalene	**19**	**J**	60	8.0	ug/Kg		02/05/19 06:11	02/06/19 21:11	1

Client Sample ID: DUP-33

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*104*		*29 - 120*	*02/05/19 06:11*	*02/06/19 21:11*	*1*
Nitrobenzene-d5	*97*		*11 - 118*	*02/05/19 06:11*	*02/06/19 21:11*	*1*
Terphenyl-d14	*106*		*10 - 120*	*02/05/19 06:11*	*02/06/19 21:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**38**	**B**	4.8	2.4	mg/Kg		02/06/19 07:07	02/06/19 20:41	1
Motor Oil Range Organics [C24-C36]	**64**	**B**	4.8	2.4	mg/Kg		02/06/19 07:07	02/06/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*02/06/19 07:07*	*02/06/19 20:41*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Endrin	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Toxaphene	ND		200	50	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
Chlordane (technical)	ND		50	9.9	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:00	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*28 - 115*	*02/06/19 06:33*	*02/07/19 14:00*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*21 - 117*	*02/06/19 06:33*	*02/07/19 14:00*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:30	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:30	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:30	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:30	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:30	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:30	1
Aroclor 1260	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:30	1

Client Sample ID: DUP-33

Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*02/05/19 13:19*	*02/06/19 19:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.1		1.3	0.21	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Arsenic	75		2.6	0.22	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Barium	100		1.3	0.18	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Beryllium	0.25	J	0.26	0.083	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Cadmium	1.4		0.32	0.032	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Chromium	27	B	1.3	0.14	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Cobalt	8.1		0.51	0.051	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Copper	260		3.8	1.8	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Lead	370	B	1.3	0.27	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Molybdenum	1.5		1.3	0.16	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Nickel	34		1.3	0.13	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Selenium	0.60	J B	2.6	0.38	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Silver	0.17	J	0.64	0.13	mg/Kg		01/31/19 10:54	02/13/19 14:36	4
Thallium	ND		1.3	0.37	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Vanadium	56		1.3	0.17	mg/Kg		01/31/19 10:54	02/11/19 18:37	4
Zinc	420		3.8	1.6	mg/Kg		01/31/19 10:54	02/11/19 18:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.016	0.0023	mg/Kg		02/12/19 15:02	02/13/19 18:27	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.5		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AQ7S-3.5-4

Date Collected: 01/30/19 13:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		77	54	ug/Kg		02/05/19 22:14	02/06/19 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*02/05/19 22:14*	*02/06/19 01:22*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*02/05/19 22:14*	*02/06/19 01:22*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*02/05/19 22:14*	*02/06/19 01:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.7	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,1,1-Trichloroethane	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,1,2-Trichloroethane	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,1-Dichloroethane	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,1-Dichloropropene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,2,3-Trichlorobenzene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,2,4-Trichlorobenzene	ND		3.8	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,2,4-Trimethylbenzene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,2-Dichlorobenzene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,2-Dichloroethane	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,2-Dichloropropane	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,3,5-Trimethylbenzene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,3-Dichlorobenzene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,3-Dichloropropane	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,4-Dichlorobenzene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
2,2-Dichloropropane	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
2-Chlorotoluene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
2-Hexanone	ND		7.7	3.8	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
4-Chlorotoluene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
4-Isopropyltoluene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Benzene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Bromobenzene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Bromoform	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Bromomethane	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Carbon disulfide	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Chlorobenzene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Chlorobromomethane	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Chloroethane	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Chloroform	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Chloromethane	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
cis-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
cis-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Chlorodibromomethane	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Dibromomethane	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Dichlorobromomethane	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1

Client Sample ID: DG-AQ7S-3.5-4

Date Collected: 01/30/19 13:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-13

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Ethylbenzene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Hexachlorobutadiene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Isopropylbenzene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Methylene Chloride	ND		7.7	3.8	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Methyl tert-butyl ether	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Naphthalene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
n-Butylbenzene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
N-Propylbenzene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
sec-Butylbenzene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Styrene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
tert-Butylbenzene	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Tetrachloroethene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Toluene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
trans-1,2-Dichloroethene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
trans-1,3-Dichloropropene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Trichloroethene	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Trichlorofluoromethane	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.7	3.8	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Vinyl acetate	ND		6.1	3.1	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Vinyl chloride	ND		1.5	0.77	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Xylenes, Total	ND		1.5	1.0	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
Ethylene Dibromide	ND		0.77	0.38	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
2-Butanone (MEK)	ND		7.7	3.8	ug/Kg		02/05/19 22:14	02/06/19 01:22	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		02/05/19 22:14	02/06/19 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*02/05/19 22:14*	*02/06/19 01:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/05/19 22:14*	*02/06/19 01:22*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**25**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Acenaphthene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Acenaphthylene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Fluorene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Phenanthrene	**24**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Anthracene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Benzo[a]anthracene	**7.1**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Chrysene	**14**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Benzo[a]pyrene	**5.2**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Benzo[b]fluoranthene	**12**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Benzo[k]fluoranthene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Benzo[g,h,i]perylene	**4.8**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Indeno[1,2,3-cd]pyrene	**4.3**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Fluoranthene	**16**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Pyrene	**14**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
Dibenz(a,h)anthracene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1
2-Methylnaphthalene	**27**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:34	1

Client Sample ID: DG-AQ7S-3.5-4

Date Collected: 01/30/19 13:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*29 - 120*	*02/05/19 06:11*	*02/06/19 21:34*	*1*
Nitrobenzene-d5	*86*		*11 - 118*	*02/05/19 06:11*	*02/06/19 21:34*	*1*
Terphenyl-d14	*97*		*10 - 120*	*02/05/19 06:11*	*02/06/19 21:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.4**	**B**	4.9	2.5	mg/Kg		02/06/19 07:07	02/06/19 22:27	1
Motor Oil Range Organics [C24-C36]	**9.3**	**B**	4.9	2.5	mg/Kg		02/06/19 07:07	02/06/19 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*78*		*40 - 140*	*02/06/19 07:07*	*02/06/19 22:27*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Endrin	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Toxaphene	ND		200	49	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/06/19 06:33	02/06/19 18:28	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*28 - 115*	*02/06/19 06:33*	*02/06/19 18:28*	*1*
DCB Decachlorobiphenyl (Surr)	*42*		*21 - 117*	*02/06/19 06:33*	*02/06/19 18:28*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:43	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:43	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:43	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:43	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:43	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:43	1
Aroclor 1260	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 19:43	1

Client Sample ID: DG-AQ7S-3.5-4

Date Collected: 01/30/19 13:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*02/05/19 13:19*	*02/06/19 19:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**9.4**		1.7	0.28	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Arsenic	**21**		3.3	0.28	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Barium	**320**		1.7	0.24	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Beryllium	**0.46**		0.33	0.11	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Cadmium	**0.91**		0.42	0.041	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Chromium	**51**	**B**	1.7	0.18	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Cobalt	**10**		0.67	0.067	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Copper	**1300**		5.0	2.4	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Lead	**1400**	**B**	1.7	0.35	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Molybdenum	**0.47**	**J**	1.7	0.21	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Nickel	**85**		1.7	0.17	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Selenium	ND		3.3	0.50	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Silver	**1.4**		0.83	0.17	mg/Kg		01/31/19 10:54	02/13/19 14:41	4
Thallium	ND		1.7	0.48	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Vanadium	**44**		1.7	0.23	mg/Kg		01/31/19 10:54	02/11/19 18:41	4
Zinc	**660**		5.0	2.1	mg/Kg		01/31/19 10:54	02/11/19 18:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.0**		0.067	0.0098	mg/Kg		02/12/19 15:02	02/13/19 18:47	4

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.1**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AQ11S-0.5-1

Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-14

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		85	59	ug/Kg		02/05/19 22:14	02/06/19 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*02/05/19 22:14*	*02/06/19 01:47*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*02/05/19 22:14*	*02/06/19 01:47*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*02/05/19 22:14*	*02/06/19 01:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,1,1-Trichloroethane	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,1,2-Trichloroethane	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,1-Dichloroethane	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,1-Dichloropropene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,2,3-Trichlorobenzene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,2,4-Trichlorobenzene	ND		4.2	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,2-Dichlorobenzene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,2-Dichloroethane	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,2-Dichloropropane	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,3-Dichlorobenzene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,3-Dichloropropane	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,4-Dichlorobenzene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
2-Chlorotoluene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
2-Hexanone	ND		8.5	4.2	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
4-Chlorotoluene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
4-Isopropyltoluene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Benzene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Bromobenzene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Bromoform	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Bromomethane	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Carbon disulfide	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Chlorobenzene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Chlorobromomethane	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Chloroethane	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Chloroform	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Chloromethane	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
cis-1,2-Dichloroethene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
cis-1,3-Dichloropropene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Chlorodibromomethane	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Dibromomethane	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Dichlorobromomethane	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1

Client Sample ID: DG-AQ11S-0.5-1

Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-14

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Ethylbenzene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Hexachlorobutadiene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Isopropylbenzene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Methylene Chloride	ND		8.5	4.2	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Methyl tert-butyl ether	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Naphthalene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
n-Butylbenzene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
N-Propylbenzene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
sec-Butylbenzene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Styrene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
tert-Butylbenzene	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Tetrachloroethene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Toluene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
trans-1,2-Dichloroethene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
trans-1,3-Dichloropropene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Trichloroethene	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Trichlorofluoromethane	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.5	4.2	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Vinyl acetate	ND		6.8	3.4	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Vinyl chloride	ND		1.7	0.85	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
Ethylene Dibromide	ND		0.85	0.42	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
2-Butanone (MEK)	ND		8.5	4.2	ug/Kg		02/05/19 22:14	02/06/19 01:47	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		02/05/19 22:14	02/06/19 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*02/05/19 22:14*	*02/06/19 01:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/05/19 22:14*	*02/06/19 01:47*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**6.1**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Acenaphthene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Acenaphthylene	**4.3**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Fluorene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Phenanthrene	**17**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Anthracene	**9.2**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Benzo[a]anthracene	**13**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Chrysene	**21**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Benzo[a]pyrene	**16**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Benzo[b]fluoranthene	**28**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Benzo[k]fluoranthene	**9.0**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Benzo[g,h,i]perylene	**17**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Indeno[1,2,3-cd]pyrene	**12**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Fluoranthene	**24**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Pyrene	**25**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
Dibenz(a,h)anthracene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1
2-Methylnaphthalene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/06/19 21:57	1

Client Sample ID: DG-AQ11S-0.5-1

Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*106*		*29 - 120*	*02/05/19 06:11*	*02/06/19 21:57*	*1*
Nitrobenzene-d5	*97*		*11 - 118*	*02/05/19 06:11*	*02/06/19 21:57*	*1*
Terphenyl-d14	*106*		*10 - 120*	*02/05/19 06:11*	*02/06/19 21:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**48**	**B**	9.8	4.9	mg/Kg		02/06/19 07:07	02/06/19 21:02	1
Motor Oil Range Organics [C24-C36]	**91**	**B**	9.8	4.9	mg/Kg		02/06/19 07:07	02/06/19 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*40 - 140*	*02/06/19 07:07*	*02/06/19 21:02*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Endrin	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Toxaphene	ND		200	50	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
Chlordane (technical)	ND		50	9.9	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/07/19 14:30	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/07/19 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*28 - 115*	*02/06/19 06:33*	*02/07/19 14:30*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*21 - 117*	*02/06/19 06:33*	*02/07/19 14:30*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:56	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:56	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:56	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:56	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:56	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:56	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 19:56	1

Client Sample ID: DG-AQ11S-0.5-1

Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*02/05/19 13:19*	*02/06/19 19:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.5**		1.3	0.22	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Arsenic	**2.2**	**J**	2.6	0.23	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Barium	**92**		1.3	0.19	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Beryllium	**0.37**		0.26	0.086	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Cadmium	**0.13**	**J**	0.33	0.033	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Chromium	**16**	**B**	1.3	0.14	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Cobalt	**9.6**		0.53	0.053	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Copper	**150**		4.0	1.9	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Lead	**230**	**B**	1.3	0.28	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Molybdenum	ND		1.3	0.17	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Nickel	**7.8**		1.3	0.14	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Selenium	ND		2.6	0.40	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Silver	ND		0.66	0.13	mg/Kg		01/31/19 10:54	02/13/19 14:45	4
Thallium	ND		1.3	0.38	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Vanadium	**82**		1.3	0.18	mg/Kg		01/31/19 10:54	02/11/19 18:46	4
Zinc	**190**		4.0	1.7	mg/Kg		01/31/19 10:54	02/11/19 18:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.015	0.0022	mg/Kg		02/12/19 15:02	02/13/19 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AQ11S-3.5-4

Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		94	66	ug/Kg		02/05/19 22:14	02/06/19 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*60 - 120*	*02/05/19 22:14*	*02/06/19 02:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*02/05/19 22:14*	*02/06/19 02:13*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*02/05/19 22:14*	*02/06/19 02:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.4	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,1,1-Trichloroethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,1,2-Trichloroethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,1-Dichloroethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,1-Dichloropropene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,2,3-Trichlorobenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,2,4-Trichlorobenzene	ND		4.7	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,2,4-Trimethylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,2-Dichlorobenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,2-Dichloroethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,2-Dichloropropane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,3,5-Trimethylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,3-Dichlorobenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,3-Dichloropropane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,4-Dichlorobenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
2-Chlorotoluene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
2-Hexanone	ND		9.4	4.7	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
4-Chlorotoluene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
4-Isopropyltoluene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Benzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Bromobenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Bromoform	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Bromomethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Carbon disulfide	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Chlorobenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Chlorobromomethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Chloroethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Chloroform	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Chloromethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
cis-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
cis-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Chlorodibromomethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Dibromomethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Dichlorobromomethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1

Client Sample ID: DG-AQ11S-3.5-4
Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Ethylbenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Hexachlorobutadiene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Isopropylbenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Methylene Chloride	ND		9.4	4.7	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Methyl tert-butyl ether	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Naphthalene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
n-Butylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
N-Propylbenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
sec-Butylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Styrene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
tert-Butylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Tetrachloroethene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Toluene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
trans-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
trans-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Trichloroethene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Trichlorofluoromethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.4	4.7	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Vinyl acetate	ND		7.5	3.8	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Vinyl chloride	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
Ethylene Dibromide	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		02/05/19 22:14	02/06/19 02:13	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.3	ug/Kg		02/05/19 22:14	02/06/19 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*	*02/05/19 22:14*	*02/06/19 02:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*02/05/19 22:14*	*02/06/19 02:13*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**6.1**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Acenaphthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Fluorene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Phenanthrene	**5.9**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Chrysene	**4.6**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Benzo[g,h,i]perylene	**4.7**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Fluoranthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 17:32	1

Client Sample ID: DG-AQ11S-3.5-4

Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*29 - 120*	*02/05/19 06:11*	*02/07/19 17:32*	*1*
Nitrobenzene-d5	*75*		*11 - 118*	*02/05/19 06:11*	*02/07/19 17:32*	*1*
Terphenyl-d14	*93*		*10 - 120*	*02/05/19 06:11*	*02/07/19 17:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.5**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 22:06	1
Motor Oil Range Organics [C24-C36]	**7.6**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*40 - 140*	*02/06/19 07:07*	*02/06/19 22:06*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Endrin	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Endrin ketone	ND		4.9	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Heptachlor	ND		4.9	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
delta-BHC	ND		9.7	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Toxaphene	ND		190	49	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
Chlordane (technical)	ND		49	9.7	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		02/06/19 06:33	02/06/19 18:43	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/06/19 06:33	02/06/19 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*28 - 115*	*02/06/19 06:33*	*02/06/19 18:43*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*21 - 117*	*02/06/19 06:33*	*02/06/19 18:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:10	1
Aroclor 1221	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:10	1
Aroclor 1232	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:10	1
Aroclor 1242	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:10	1
Aroclor 1248	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:10	1
Aroclor 1254	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:10	1
Aroclor 1260	ND		49	17	ug/Kg		02/05/19 13:19	02/06/19 20:10	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Client Sample ID: DG-AQ11S-3.5-4

Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*02/05/19 13:19*	*02/06/19 20:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	41		5.0	0.82	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Arsenic	21		9.9	0.84	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Barium	1400		2.0	0.28	mg/Kg		01/31/19 10:54	02/11/19 18:51	4
Beryllium	0.65		0.40	0.13	mg/Kg		01/31/19 10:54	02/11/19 18:51	4
Cadmium	2.4		1.2	0.12	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Chromium	88	B	5.0	0.52	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Cobalt	25		2.0	0.20	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Copper	740		15	7.1	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Lead	3900	B	5.0	1.0	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Molybdenum	2.2		2.0	0.25	mg/Kg		01/31/19 10:54	02/11/19 18:51	4
Nickel	150		5.0	0.50	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Selenium	5.6	J B	9.9	1.5	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Silver	8.0		2.5	0.50	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Thallium	ND		5.0	1.4	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Vanadium	25		5.0	0.67	mg/Kg		01/31/19 10:54	02/13/19 14:50	10
Zinc	2700		15	6.3	mg/Kg		01/31/19 10:54	02/13/19 14:50	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.016	0.0023	mg/Kg		02/12/19 15:02	02/13/19 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.0		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AT9S-0.5-1

Date Collected: 01/30/19 14:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		94	66	ug/Kg		02/05/19 22:14	02/06/19 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*02/05/19 22:14*	*02/06/19 02:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*02/05/19 22:14*	*02/06/19 02:38*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*02/05/19 22:14*	*02/06/19 02:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.4	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,1,1-Trichloroethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,1,2-Trichloroethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,1-Dichloroethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,1-Dichloroethene	ND		1.9	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,1-Dichloropropene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,2,3-Trichlorobenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,2,4-Trichlorobenzene	ND		4.7	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,2,4-Trimethylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,2-Dichlorobenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,2-Dichloroethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,2-Dichloropropane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,3,5-Trimethylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,3-Dichlorobenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,3-Dichloropropane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,4-Dichlorobenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
2-Chlorotoluene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
2-Hexanone	ND		9.4	4.7	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
4-Chlorotoluene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
4-Isopropyltoluene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Benzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Bromobenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Bromoform	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Bromomethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Carbon disulfide	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Carbon tetrachloride	ND		1.9	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Chlorobenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Chlorobromomethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Chloroethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Chloroform	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Chloromethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
cis-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
cis-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Chlorodibromomethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Dibromomethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Dichlorobromomethane	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1

Client Sample ID: DG-AT9S-0.5-1
Date Collected: 01/30/19 14:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-16
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Ethylbenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Hexachlorobutadiene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Isopropylbenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Methylene Chloride	ND		9.4	4.7	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Methyl tert-butyl ether	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Naphthalene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
n-Butylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
N-Propylbenzene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
sec-Butylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Styrene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
tert-Butylbenzene	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Tetrachloroethene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Toluene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
trans-1,2-Dichloroethene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
trans-1,3-Dichloropropene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Trichloroethene	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Trichlorofluoromethane	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.4	4.7	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Vinyl acetate	ND		7.5	3.8	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Vinyl chloride	ND		1.9	0.94	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Xylenes, Total	ND		1.9	1.2	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
Ethylene Dibromide	ND		0.94	0.47	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		02/05/19 22:14	02/06/19 02:38	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	2.4	ug/Kg		02/05/19 22:14	02/06/19 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*79 - 123*	*02/05/19 22:14*	*02/06/19 02:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*02/05/19 22:14*	*02/06/19 02:38*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**13**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Acenaphthene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Acenaphthylene	**12**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Fluorene	ND		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Phenanthrene	**36**		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Anthracene	**25**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Benzo[a]anthracene	**36**		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Chrysene	**48**		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Benzo[a]pyrene	**47**		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Benzo[b]fluoranthene	**79**		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Benzo[k]fluoranthene	**24**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Benzo[g,h,i]perylene	**42**		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Indeno[1,2,3-cd]pyrene	**36**		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Fluoranthene	**55**		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Pyrene	**59**		30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
Dibenz(a,h)anthracene	**8.7**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1
2-Methylnaphthalene	**16**	**J**	30	3.9	ug/Kg		02/05/19 06:11	02/07/19 16:00	1

Client Sample ID: DG-AT9S-0.5-1

Date Collected: 01/30/19 14:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*114*		*29 - 120*	*02/05/19 06:11*	*02/07/19 16:00*	*1*
Nitrobenzene-d5	*101*		*11 - 118*	*02/05/19 06:11*	*02/07/19 16:00*	*1*
Terphenyl-d14	*118*		*10 - 120*	*02/05/19 06:11*	*02/07/19 16:00*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/07/19 00:14	1
Motor Oil Range Organics [C24-C36]	**25**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/07/19 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*83*		*40 - 140*	*02/06/19 07:07*	*02/07/19 00:14*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Dieldrin	**3.2**	**J**	4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Endrin aldehyde	ND		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Endrin	ND		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Endrin ketone	ND		4.8	1.9	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Heptachlor	ND		4.8	1.9	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Heptachlor epoxide	ND		4.8	1.9	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
4,4'-DDE	**63**		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
4,4'-DDD	**5.6**		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Endosulfan I	ND		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Endosulfan II	ND		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
alpha-BHC	ND		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
beta-BHC	ND		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
gamma-BHC (Lindane)	ND		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
delta-BHC	ND		9.7	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Methoxychlor	ND		4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Toxaphene	ND		190	48	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
Chlordane (technical)	ND		48	9.7	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
alpha-Chlordane	ND		4.8	1.9	ug/Kg		02/07/19 11:14	02/08/19 12:46	1
gamma-Chlordane	**2.3**	**J**	4.8	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*28 - 115*	*02/07/19 11:14*	*02/08/19 12:46*	*1*
DCB Decachlorobiphenyl (Surr)	*132*	*X*	*21 - 117*	*02/07/19 11:14*	*02/08/19 12:46*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	**85**		24	7.3	ug/Kg		02/07/19 11:14	02/08/19 13:01	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		48	16	ug/Kg		02/07/19 11:14	02/08/19 18:18	1
Aroclor 1221	ND		48	16	ug/Kg		02/07/19 11:14	02/08/19 18:18	1
Aroclor 1232	ND		48	16	ug/Kg		02/07/19 11:14	02/08/19 18:18	1
Aroclor 1242	ND		48	16	ug/Kg		02/07/19 11:14	02/08/19 18:18	1

Client Sample ID: DG-AT9S-0.5-1
Date Collected: 01/30/19 14:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-16
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	ND		48	16	ug/Kg		02/07/19 11:14	02/08/19 18:18	1
Aroclor 1254	ND		48	16	ug/Kg		02/07/19 11:14	02/08/19 18:18	1
Aroclor 1260	**52**		48	16	ug/Kg		02/07/19 11:14	02/08/19 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*120*		*45 - 120*	*02/07/19 11:14*	*02/08/19 18:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**29**	**B**	1.3	0.21	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Arsenic	**9.0**		2.5	0.21	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Barium	**380**	**B**	1.3	0.18	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Beryllium	**0.12**	**J**	0.25	0.082	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Cadmium	**1.7**		0.31	0.031	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Chromium	**26**		1.3	0.13	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Cobalt	**9.5**		0.50	0.050	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Copper	**380**		3.8	1.8	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Lead	**1100**		1.3	0.26	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Molybdenum	**0.44**	**J**	1.3	0.16	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Nickel	**22**		1.3	0.13	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Selenium	ND		2.5	0.38	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Silver	**1.8**	**B**	0.63	0.13	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Thallium	ND		1.3	0.36	mg/Kg		02/01/19 17:30	02/05/19 13:00	4
Vanadium	**49**		1.3	0.17	mg/Kg		02/01/19 17:30	02/02/19 18:41	4
Zinc	**800**	**B**	3.8	1.6	mg/Kg		02/01/19 17:30	02/02/19 18:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.49**		0.015	0.0022	mg/Kg		02/08/19 09:15	02/08/19 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: DG-AT9S-3.5-4

Date Collected: 01/30/19 14:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-17

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		02/05/19 22:14	02/06/19 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*02/05/19 22:14*	*02/06/19 03:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*02/05/19 22:14*	*02/06/19 03:03*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*	*02/05/19 22:14*	*02/06/19 03:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
2-Hexanone	ND		7.8	3.9	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Benzene	**1.1**		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Bromobenzene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Bromoform	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Bromomethane	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Chloroethane	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Chloroform	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Chloromethane	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Dibromomethane	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1

Client Sample ID: DG-AT9S-3.5-4
Date Collected: 01/30/19 14:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-17
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Naphthalene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Styrene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Toluene	**0.52**	**J**	0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Trichloroethene	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Vinyl acetate	ND		6.3	3.1	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		02/05/19 22:14	02/06/19 03:03	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		02/05/19 22:14	02/06/19 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*79 - 123*	*02/05/19 22:14*	*02/06/19 03:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*02/05/19 22:14*	*02/06/19 03:03*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**6.6**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Acenaphthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Fluorene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Phenanthrene	**6.3**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Chrysene	**7.0**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Benzo[b]fluoranthene	**6.8**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Fluoranthene	**4.3**	**J**	30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 16:25	1

Client Sample ID: DG-AT9S-3.5-4

Date Collected: 01/30/19 14:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*107*		*29 - 120*	*02/05/19 06:11*	*02/07/19 16:25*	*1*
Nitrobenzene-d5	*98*		*11 - 118*	*02/05/19 06:11*	*02/07/19 16:25*	*1*
Terphenyl-d14	*123*	*X*	*10 - 120*	*02/05/19 06:11*	*02/07/19 16:25*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.4**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 19:16	1
Motor Oil Range Organics [C24-C36]	**7.5**	**B**	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*40 - 140*	*02/06/19 07:07*	*02/06/19 19:16*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
4,4'-DDT	**1.8**	**J**	4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
4,4'-DDE	**4.4**	**J**	4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
Chlordane (technical)	ND		49	9.9	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:14	02/08/19 12:32	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*28 - 115*	*02/07/19 11:14*	*02/08/19 12:32*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*21 - 117*	*02/07/19 11:14*	*02/08/19 12:32*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 18:32	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 18:32	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 18:32	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 18:32	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 18:32	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 18:32	1
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 18:32	1

Client Sample ID: DG-AT9S-3.5-4

Date Collected: 01/30/19 14:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*02/07/19 11:14*	*02/08/19 18:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	210		6.3	1.0	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Arsenic	41		13	1.1	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Barium	1600	B	3.1	0.45	mg/Kg		02/01/19 17:30	02/02/19 18:45	10
Beryllium	0.42	J	0.63	0.20	mg/Kg		02/01/19 17:30	02/02/19 18:45	10
Cadmium	8.0		1.6	0.16	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Chromium	69		6.3	0.67	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Cobalt	24		2.5	0.25	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Copper	1200		19	9.0	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Lead	5300		6.3	1.3	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Molybdenum	1.0	J	3.1	0.40	mg/Kg		02/01/19 17:30	02/02/19 18:45	10
Nickel	89		6.3	0.64	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Selenium	9.2	J	13	1.9	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Silver	8.3		3.1	0.64	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Thallium	ND		6.3	1.8	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Vanadium	40		6.3	0.86	mg/Kg		02/01/19 17:30	02/05/19 13:04	20
Zinc	4900	B	19	8.0	mg/Kg		02/01/19 17:30	02/05/19 13:04	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.015	0.0021	mg/Kg		02/08/19 09:15	02/08/19 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.3		0.1	0.1	%			02/13/19 00:22	1

Client Sample ID: FB-01.30.19
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-21
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/11/19 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*02/11/19 13:43*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*02/11/19 13:43*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/11/19 13:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Acetone	**49**		20	10	ug/L			02/11/19 13:43	1
Benzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Bromobenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Bromoform	ND		1.0	0.40	ug/L			02/11/19 13:43	1
Bromomethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/11/19 13:43	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/11/19 13:43	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/11/19 13:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Chloroethane	ND		1.0	0.40	ug/L			02/11/19 13:43	1
Chloroform	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Chloromethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/11/19 13:43	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Dibromomethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/11/19 13:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/11/19 13:43	1

Client Sample ID: FB-01.30.19
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/11/19 13:43	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/11/19 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/11/19 13:43	1
Naphthalene	ND		1.0	0.40	ug/L			02/11/19 13:43	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Styrene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Toluene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 13:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 13:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Trichloroethene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/11/19 13:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/11/19 13:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/11/19 13:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/11/19 13:43	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/11/19 13:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/11/19 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*02/11/19 13:43*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/11/19 13:43*	*1*

Client Sample ID: TB-01.30.19
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-22
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/11/19 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/11/19 14:12*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*02/11/19 14:12*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/11/19 14:12*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Acetone	ND		20	10	ug/L			02/11/19 14:12	1
Benzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Bromobenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Bromoform	ND		1.0	0.40	ug/L			02/11/19 14:12	1
Bromomethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/11/19 14:12	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/11/19 14:12	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/11/19 14:12	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Chloroethane	ND		1.0	0.40	ug/L			02/11/19 14:12	1
Chloroform	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Chloromethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/11/19 14:12	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Dibromomethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/11/19 14:12	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/11/19 14:12	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Client Sample ID: TB-01.30.19
Date Collected: 01/30/19 00:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/11/19 14:12	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/11/19 14:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/11/19 14:12	1
Naphthalene	ND		1.0	0.40	ug/L			02/11/19 14:12	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Styrene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Toluene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 14:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 14:12	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Trichloroethene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/11/19 14:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/11/19 14:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/11/19 14:12	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/11/19 14:12	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/11/19 14:12	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/11/19 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*02/11/19 14:12*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/11/19 14:12*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(79-123)	(70-130)
720-91089-1	DG-AG7S-0.5-1	99	106
720-91089-2	DG-AG7S-3.5-4	100	101
720-91089-3	DG-AB9S-0.5-1	97	106
720-91089-4	DG-AB9S-3.5-4	101	104
720-91089-5	DG-AH9S-0.5-1	99	101
720-91089-6	DG-AH9S-3.5-4	98	105
720-91089-7	DG-AJ9S-0.5-1	101	104
720-91089-8	DG-AJ9S-3.5-4	98	108
720-91089-9	DG-AL5S-0.5-1	101	99
720-91089-9 MS	DG-AL5S-0.5-1	101	97
720-91089-9 MSD	DG-AL5S-0.5-1	98	96
720-91089-10	DG-AL5S-3.5-4	97	102
720-91089-11	DG-AQ7S-0.5-1	99	104
720-91089-12	DUP-33	100	95
720-91089-13	DG-AQ7S-3.5-4	102	99
720-91089-14	DG-AQ11S-0.5-1	101	99
720-91089-15	DG-AQ11S-3.5-4	102	101
720-91089-16	DG-AT9S-0.5-1	104	97
720-91089-17	DG-AT9S-3.5-4	103	96
LCS 440-526258/5	Lab Control Sample	100	104
LCS 440-526931/27	Lab Control Sample	98	96
LCS 440-526986/6	Lab Control Sample	97	97
LCSD 440-526258/7	Lab Control Sample Dup	98	102
LCSD 440-526986/13	Lab Control Sample Dup	99	96
MB 440-526258/4	Method Blank	98	105
MB 440-526931/4	Method Blank	99	101
MB 440-526986/5	Method Blank	100	100

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-231822-F-22 MS	Matrix Spike	101	96
440-231822-F-22 MSD	Matrix Spike Duplicate	99	100
720-91089-21	FB-01.30.19	111	104
720-91089-22	TB-01.30.19	113	102
LCS 440-527862/5	Lab Control Sample	105	96
MB 440-527862/4	Method Blank	109	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-91089-1	DG-AG7S-0.5-1	101	106	98
720-91089-2	DG-AG7S-3.5-4	101	104	100
720-91089-3	DG-AB9S-0.5-1	103	107	97
720-91089-4	DG-AB9S-3.5-4	101	108	101
720-91089-5	DG-AH9S-0.5-1	100	108	99
720-91089-6	DG-AH9S-3.5-4	103	104	98
720-91089-7	DG-AJ9S-0.5-1	101	109	101
720-91089-8	DG-AJ9S-3.5-4	103	105	98
720-91089-9	DG-AL5S-0.5-1	102	102	101
720-91089-9 MS	DG-AL5S-0.5-1	102	101	101
720-91089-9 MSD	DG-AL5S-0.5-1	101	100	98
720-91089-10	DG-AL5S-3.5-4	103	105	97
720-91089-11	DG-AQ7S-0.5-1	101	105	99
720-91089-12	DUP-33	100	104	100
720-91089-13	DG-AQ7S-3.5-4	103	99	102
720-91089-14	DG-AQ11S-0.5-1	101	99	101
720-91089-15	DG-AQ11S-3.5-4	105	99	102
720-91089-16	DG-AT9S-0.5-1	100	102	104
720-91089-17	DG-AT9S-3.5-4	102	101	103
LCS 440-526259/6	Lab Control Sample	101	102	99
LCS 440-526932/6	Lab Control Sample	102	99	99
LCS 440-526987/7	Lab Control Sample	100	103	99
LCSD 440-526259/8	Lab Control Sample Dup	101	102	101
LCSD 440-526987/14	Lab Control Sample Dup	99	102	98
MB 440-526259/4	Method Blank	101	104	98
MB 440-526932/4	Method Blank	102	97	99
MB 440-526987/5	Method Blank	101	104	100

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-231822-F-22 MS	Matrix Spike	105	102	96
440-231822-F-22 MSD	Matrix Spike Duplicate	104	101	100
720-91089-21	FB-01.30.19	109	108	104
720-91089-22	TB-01.30.19	108	110	102
LCS 440-527863/6	Lab Control Sample	106	111	101
MB 440-527863/4	Method Blank	108	108	107

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(29-120)	(11-118)	(10-120)
720-91089-1	DG-AG7S-0.5-1	95	80	96
720-91089-2	DG-AG7S-3.5-4	96	87	99
720-91089-3	DG-AB9S-0.5-1	93	79	94
720-91089-4	DG-AB9S-3.5-4	96	87	96
720-91089-5	DG-AH9S-0.5-1	100	91	102
720-91089-6	DG-AH9S-3.5-4	89	84	91
720-91089-7	DG-AJ9S-0.5-1	87	82	88
720-91089-8	DG-AJ9S-3.5-4	105	95	109
720-91089-9	DG-AL5S-0.5-1	100	94	100
720-91089-9 MS	DG-AL5S-0.5-1	107	99	112
720-91089-9 MSD	DG-AL5S-0.5-1	103	95	107
720-91089-10	DG-AL5S-3.5-4	108	104	113
720-91089-11	DG-AQ7S-0.5-1	93	86	96
720-91089-12	DUP-33	104	97	106
720-91089-13	DG-AQ7S-3.5-4	94	86	97
720-91089-14	DG-AQ11S-0.5-1	106	97	106
720-91089-15	DG-AQ11S-3.5-4	87	75	93
720-91089-16	DG-AT9S-0.5-1	114	101	118
720-91089-17	DG-AT9S-3.5-4	107	98	123 X
LCS 440-526740/2-A	Lab Control Sample	83	75	87
MB 440-526740/1-A	Method Blank	91	83	96

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(40-140)
440-232028-A-1-A MS	Matrix Spike	83
440-232028-A-1-B MSD	Matrix Spike Duplicate	82
440-232051-E-1-A MS	Matrix Spike	96
440-232051-E-1-B MSD	Matrix Spike Duplicate	91
720-91089-1	DG-AG7S-0.5-1	92
720-91089-2	DG-AG7S-3.5-4	88
720-91089-3	DG-AB9S-0.5-1	68
720-91089-4	DG-AB9S-3.5-4	93
720-91089-5	DG-AH9S-0.5-1	96
720-91089-6	DG-AH9S-3.5-4	81
720-91089-7	DG-AJ9S-0.5-1	99
720-91089-8	DG-AJ9S-3.5-4	87
720-91089-9	DG-AL5S-0.5-1	72
720-91089-9 MS	DG-AL5S-0.5-1	76
720-91089-9 MSD	DG-AL5S-0.5-1	69
720-91089-10	DG-AL5S-3.5-4	84

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	OTCN1 (40-140)						
720-91089-11	DG-AQ7S-0.5-1	87						
720-91089-12	DUP-33	89						
720-91089-13	DG-AQ7S-3.5-4	78						
720-91089-14	DG-AQ11S-0.5-1	82						
720-91089-15	DG-AQ11S-3.5-4	81						
720-91089-16	DG-AT9S-0.5-1	83						
720-91089-17	DG-AT9S-3.5-4	70						
LCS 440-526522/2-A	Lab Control Sample	100						
LCS 440-526524/2-A	Lab Control Sample	87						
LCS 440-526992/2-A	Lab Control Sample	81						
MB 440-526522/1-A	Method Blank	90						
MB 440-526524/1-A	Method Blank	83						
MB 440-526992/1-A	Method Blank	84						

Surrogate Legend

OTCN = n-Octacosane

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TCX2 (28-115)	DCB2 (21-117)					
440-232505-G-1-A MS	Matrix Spike	76	66					
440-232505-G-1-B MSD	Matrix Spike Duplicate	74	61					
720-91089-1	DG-AG7S-0.5-1	56	111					
720-91089-2	DG-AG7S-3.5-4	81	71					
720-91089-3	DG-AB9S-0.5-1	43	35					
720-91089-4	DG-AB9S-3.5-4	57	48					
720-91089-5	DG-AH9S-0.5-1	55	64					
720-91089-6	DG-AH9S-3.5-4	70	70					
720-91089-7	DG-AJ9S-0.5-1	62	52					
720-91089-8	DG-AJ9S-3.5-4	76	67					
720-91089-9	DG-AL5S-0.5-1	69	125 X					
720-91089-9 MS	DG-AL5S-0.5-1	58	87					
720-91089-9 MSD	DG-AL5S-0.5-1	57	89					
720-91089-10	DG-AL5S-3.5-4	46	38					
720-91089-11	DG-AQ7S-0.5-1	57	59					
720-91089-12	DUP-33	84	71					
720-91089-13	DG-AQ7S-3.5-4	52	42					
720-91089-14	DG-AQ11S-0.5-1	75	84					
720-91089-15	DG-AQ11S-3.5-4	65	61					
720-91089-16	DG-AT9S-0.5-1	72	132 X					
720-91089-17	DG-AT9S-3.5-4	74	67					
720-91105-E-1-D MS	Matrix Spike	77	63					
720-91105-E-1-E MSD	Matrix Spike Duplicate	78	108					
LCS 440-526663/2-A	Lab Control Sample	71	83					
LCS 440-526983/2-A	Lab Control Sample	72	86					
MB 440-526663/1-A	Method Blank	67	81					

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX2 (28-115)	DCB2 (21-117)								
MB 440-526983/1-A	Method Blank	72	88								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB2 (45-120)									
720-91089-1	DG-AG7S-0.5-1	79									
720-91089-2	DG-AG7S-3.5-4	56									
720-91089-3	DG-AB9S-0.5-1	65									
720-91089-4	DG-AB9S-3.5-4	69									
720-91089-5	DG-AH9S-0.5-1	73									
720-91089-6	DG-AH9S-3.5-4	65									
720-91089-7	DG-AJ9S-0.5-1	58									
720-91089-7 - DL	DG-AJ9S-0.5-1	61									
720-91089-8	DG-AJ9S-3.5-4	63									
720-91089-9	DG-AL5S-0.5-1	74									
720-91089-9 MS	DG-AL5S-0.5-1	86									
720-91089-9 MSD	DG-AL5S-0.5-1	69									
720-91089-10	DG-AL5S-3.5-4	60									
720-91089-11	DG-AQ7S-0.5-1	62									
720-91089-12	DUP-33	61									
720-91089-13	DG-AQ7S-3.5-4	65									
720-91089-14	DG-AQ11S-0.5-1	66									
720-91089-15	DG-AQ11S-3.5-4	58									
720-91089-16	DG-AT9S-0.5-1	120									
720-91089-17	DG-AT9S-3.5-4	60									
720-91105-E-1-F MS	Matrix Spike	50									
720-91105-E-1-G MSD	Matrix Spike Duplicate	48									
LCS 440-526869/2-A	Lab Control Sample	91									
LCS 440-527345/5-A	Lab Control Sample	92									
MB 440-526869/1-A	Method Blank	88									
MB 440-527345/1-A	Method Blank	80									

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-526258/4
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Benzene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/01/19 08:30	1
Bromoform	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/01/19 08:30	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/01/19 08:30	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Chloroform	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
2-Hexanone	ND		10	5.0	ug/Kg			02/01/19 08:30	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/01/19 08:30	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Styrene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/01/19 08:30	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526258/4
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Toluene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/01/19 08:30	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/01/19 08:30	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/01/19 08:30	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/01/19 08:30	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/01/19 08:30	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/01/19 08:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/01/19 08:30	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/01/19 08:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*02/01/19 08:30*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*		*02/01/19 08:30*	*1*

Lab Sample ID: LCS 440-526258/5
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	19.8		ug/Kg		99	70 - 125
1,2-Dichlorobenzene	20.0	19.4		ug/Kg		97	75 - 120
1,3-Dichlorobenzene	20.0	19.3		ug/Kg		96	75 - 125
4-Chlorotoluene	20.0	19.8		ug/Kg		99	75 - 125
1,4-Dichlorobenzene	20.0	18.8		ug/Kg		94	75 - 120
1,3-Dichloropropane	20.0	20.2		ug/Kg		101	70 - 125
Benzene	20.0	19.9		ug/Kg		99	65 - 120
1,1-Dichloropropene	20.0	20.5		ug/Kg		102	70 - 130
Bromobenzene	20.0	19.8		ug/Kg		99	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.4		ug/Kg		97	50 - 135
Bromoform	20.0	19.3		ug/Kg		96	55 - 135
Bromomethane	20.0	19.7		ug/Kg		99	60 - 145
Carbon disulfide	20.0	18.7		ug/Kg		93	50 - 130
Carbon tetrachloride	20.0	20.4		ug/Kg		102	65 - 140
1,1-Dichloroethane	20.0	19.8		ug/Kg		99	70 - 130
Chlorobenzene	20.0	20.0		ug/Kg		100	75 - 120
1,2-Dichloroethane	20.0	19.0		ug/Kg		95	60 - 140
Chlorobromomethane	20.0	21.4		ug/Kg		107	70 - 135
1,1-Dichloroethene	20.0	20.6		ug/Kg		103	70 - 125
Chloroethane	20.0	19.1		ug/Kg		96	60 - 140
Chloroform	20.0	19.7		ug/Kg		99	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526258/5
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	17.9		ug/Kg		89	45 - 145
1,2-Dichloropropane	20.0	20.4		ug/Kg		102	70 - 130
cis-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	70 - 125
cis-1,3-Dichloropropene	20.0	20.8		ug/Kg		104	75 - 125
Chlorodibromomethane	20.0	20.7		ug/Kg		103	65 - 140
Dibromomethane	20.0	20.2		ug/Kg		101	70 - 130
Dichlorobromomethane	20.0	19.8		ug/Kg		99	70 - 135
2-Hexanone	20.0	18.6		ug/Kg		93	40 - 150
Dichlorodifluoromethane	20.0	19.8		ug/Kg		99	35 - 160
Ethylbenzene	20.0	20.0		ug/Kg		100	70 - 125
4-Isopropyltoluene	20.0	20.8		ug/Kg		104	75 - 125
Hexachlorobutadiene	20.0	19.3		ug/Kg		97	60 - 135
Isopropylbenzene	20.0	20.7		ug/Kg		103	75 - 130
Methylene Chloride	20.0	16.3		ug/Kg		82	55 - 135
Methyl tert-butyl ether	20.0	20.5		ug/Kg		102	60 - 140
Naphthalene	20.0	19.0		ug/Kg		95	55 - 135
1,1,1,2-Tetrachloroethane	20.0	19.9		ug/Kg		99	70 - 130
n-Butylbenzene	20.0	20.1		ug/Kg		101	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/Kg		101	55 - 140
N-Propylbenzene	20.0	20.6		ug/Kg		103	70 - 130
sec-Butylbenzene	20.0	21.1		ug/Kg		105	70 - 125
1,2,3-Trichlorobenzene	20.0	19.3		ug/Kg		97	60 - 130
Styrene	20.0	18.8		ug/Kg		94	75 - 130
1,2,4-Trichlorobenzene	20.0	19.9		ug/Kg		99	70 - 135
tert-Butylbenzene	20.0	19.9		ug/Kg		100	70 - 125
1,1,1-Trichloroethane	20.0	19.6		ug/Kg		98	65 - 135
Tetrachloroethene	20.0	19.8		ug/Kg		99	70 - 125
1,1,2-Trichloroethane	20.0	19.9		ug/Kg		100	65 - 135
Toluene	20.0	20.0		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	20.0	20.8		ug/Kg		104	70 - 125
1,2,3-Trichloropropane	20.0	20.1		ug/Kg		101	60 - 135
trans-1,3-Dichloropropene	20.0	20.3		ug/Kg		102	70 - 135
Trichloroethene	20.0	20.7		ug/Kg		103	70 - 125
1,2,4-Trimethylbenzene	20.0	20.0		ug/Kg		100	70 - 125
Trichlorofluoromethane	20.0	21.0		ug/Kg		105	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.3		ug/Kg		107	60 - 140
1,3,5-Trimethylbenzene	20.0	20.1		ug/Kg		100	70 - 125
Vinyl acetate	20.0	20.1		ug/Kg		100	45 - 145
Vinyl chloride	20.0	19.4		ug/Kg		97	55 - 135
m-Xylene & p-Xylene	20.0	19.7		ug/Kg		98	70 - 125
Ethylene Dibromide	20.0	20.8		ug/Kg		104	70 - 130
o-Xylene	20.0	19.7		ug/Kg		98	70 - 125
2-Butanone (MEK)	20.0	19.4		ug/Kg		97	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	19.0		ug/Kg		95	40 - 145
2,2-Dichloropropane	20.0	20.1		ug/Kg		101	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526258/5
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: LCSD 440-526258/7
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene			20.0	20.8		ug/Kg		104	70 - 125	5	20
1,2-Dichlorobenzene			20.0	20.3		ug/Kg		101	75 - 120	4	20
1,3-Dichlorobenzene			20.0	20.4		ug/Kg		102	75 - 125	6	20
4-Chlorotoluene			20.0	20.7		ug/Kg		103	75 - 125	5	20
1,4-Dichlorobenzene			20.0	20.0		ug/Kg		100	75 - 120	6	20
1,3-Dichloropropane			20.0	20.8		ug/Kg		104	70 - 125	3	20
Benzene			20.0	20.2		ug/Kg		101	65 - 120	2	20
1,1-Dichloropropene			20.0	20.9		ug/Kg		104	70 - 130	2	20
Bromobenzene			20.0	21.1		ug/Kg		106	75 - 120	7	20
1,2-Dibromo-3-Chloropropane			20.0	21.1		ug/Kg		106	50 - 135	9	30
Bromoform			20.0	20.5		ug/Kg		102	55 - 135	6	25
Bromomethane			20.0	20.3		ug/Kg		102	60 - 145	3	20
Carbon disulfide			20.0	18.9		ug/Kg		95	50 - 130	1	20
Carbon tetrachloride			20.0	20.4		ug/Kg		102	65 - 140	0	20
1,1-Dichloroethane			20.0	20.7		ug/Kg		104	70 - 130	5	20
Chlorobenzene			20.0	20.6		ug/Kg		103	75 - 120	3	20
1,2-Dichloroethane			20.0	19.9		ug/Kg		99	60 - 140	4	20
Chlorobromomethane			20.0	21.0		ug/Kg		105	70 - 135	2	20
1,1-Dichloroethene			20.0	20.3		ug/Kg		102	70 - 125	1	20
Chloroethane			20.0	19.1		ug/Kg		95	60 - 140	0	25
Chloroform			20.0	20.4		ug/Kg		102	70 - 130	3	20
Chloromethane			20.0	18.1		ug/Kg		90	45 - 145	1	25
1,2-Dichloropropane			20.0	20.9		ug/Kg		105	70 - 130	3	20
cis-1,2-Dichloroethene			20.0	20.3		ug/Kg		101	70 - 125	1	20
cis-1,3-Dichloropropene			20.0	21.4		ug/Kg		107	75 - 125	3	20
Chlorodibromomethane			20.0	20.6		ug/Kg		103	65 - 140	0	20
Dibromomethane			20.0	21.5		ug/Kg		108	70 - 130	6	20
Dichlorobromomethane			20.0	20.3		ug/Kg		102	70 - 135	3	20
2-Hexanone			20.0	20.7		ug/Kg		103	40 - 150	10	35
Dichlorodifluoromethane			20.0	19.9		ug/Kg		99	35 - 160	0	30
Ethylbenzene			20.0	20.4		ug/Kg		102	70 - 125	2	20
4-Isopropyltoluene			20.0	21.8		ug/Kg		109	75 - 125	5	20
Hexachlorobutadiene			20.0	20.1		ug/Kg		101	60 - 135	4	20
Isopropylbenzene			20.0	21.3		ug/Kg		106	75 - 130	3	20
Methylene Chloride			20.0	16.7		ug/Kg		83	55 - 135	2	20
Methyl tert-butyl ether			20.0	21.1		ug/Kg		105	60 - 140	3	25
Naphthalene			20.0	20.5		ug/Kg		103	55 - 135	8	25
1,1,1,2-Tetrachloroethane			20.0	21.4		ug/Kg		107	70 - 130	7	20
n-Butylbenzene			20.0	21.0		ug/Kg		105	70 - 130	4	20
1,1,2,2-Tetrachloroethane			20.0	21.7		ug/Kg		109	55 - 140	7	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526258/7
Matrix: Solid
Analysis Batch: 526258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	20.0	21.2		ug/Kg		106	70 - 130	3	20
sec-Butylbenzene	20.0	21.7		ug/Kg		108	70 - 125	3	20
1,2,3-Trichlorobenzene	20.0	21.0		ug/Kg		105	60 - 130	8	20
Styrene	20.0	19.3		ug/Kg		97	75 - 130	3	20
1,2,4-Trichlorobenzene	20.0	21.0		ug/Kg		105	70 - 135	5	20
tert-Butylbenzene	20.0	20.9		ug/Kg		105	70 - 125	5	20
1,1,1-Trichloroethane	20.0	20.3		ug/Kg		102	65 - 135	4	20
Tetrachloroethene	20.0	19.6		ug/Kg		98	70 - 125	1	20
1,1,2-Trichloroethane	20.0	20.9		ug/Kg		104	65 - 135	5	20
Toluene	20.0	20.4		ug/Kg		102	70 - 125	2	20
trans-1,2-Dichloroethene	20.0	20.5		ug/Kg		103	70 - 125	1	20
1,2,3-Trichloropropane	20.0	21.7		ug/Kg		109	60 - 135	8	25
trans-1,3-Dichloropropene	20.0	20.9		ug/Kg		104	70 - 135	2	20
Trichloroethene	20.0	21.4		ug/Kg		107	70 - 125	3	20
1,2,4-Trimethylbenzene	20.0	21.2		ug/Kg		106	70 - 125	6	20
Trichlorofluoromethane	20.0	21.2		ug/Kg		106	60 - 145	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.8		ug/Kg		104	60 - 140	2	40
1,3,5-Trimethylbenzene	20.0	20.9		ug/Kg		105	70 - 125	4	20
Vinyl acetate	20.0	20.7		ug/Kg		104	45 - 145	3	20
Vinyl chloride	20.0	19.6		ug/Kg		98	55 - 135	1	25
m-Xylene & p-Xylene	20.0	20.0		ug/Kg		100	70 - 125	2	20
Ethylene Dibromide	20.0	21.5		ug/Kg		108	70 - 130	3	20
o-Xylene	20.0	20.2		ug/Kg		101	70 - 125	3	20
2-Butanone (MEK)	20.0	21.5		ug/Kg		107	40 - 145	10	35
4-Methyl-2-pentanone (MIBK)	20.0	20.6		ug/Kg		103	40 - 145	8	35
2,2-Dichloropropane	20.0	20.4		ug/Kg		102	60 - 145	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		14.7	15.4		ug/Kg		105	50 - 150
1,1,1,2-Tetrachloroethane	ND		14.7	13.1		ug/Kg		89	65 - 145
1,1,1-Trichloroethane	ND		14.7	12.8		ug/Kg		87	65 - 145
1,1,2,2-Tetrachloroethane	ND		14.7	14.1		ug/Kg		96	40 - 160
1,1,2-Trichloroethane	ND		14.7	14.5		ug/Kg		99	65 - 140
1,1-Dichloroethane	ND		14.7	13.8		ug/Kg		94	65 - 135
1,1-Dichloroethene	ND		14.7	13.3		ug/Kg		91	65 - 135
1,1-Dichloropropene	ND		14.7	12.4		ug/Kg		85	65 - 135
1,2,3-Trichlorobenzene	ND		14.7	7.86		ug/Kg		54	45 - 145
1,2,4-Trichlorobenzene	ND		14.7	7.98		ug/Kg		54	50 - 140
1,2,4-Trimethylbenzene	ND		14.7	12.0		ug/Kg		82	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		14.7	12.5		ug/Kg		85	40 - 150
1,2-Dichlorobenzene	ND		14.7	11.0		ug/Kg		75	70 - 130
1,2-Dichloroethane	ND		14.7	13.3		ug/Kg		91	60 - 150
1,2-Dichloropropane	ND		14.7	14.1		ug/Kg		96	65 - 130
1,3,5-Trimethylbenzene	ND		14.7	12.1		ug/Kg		82	65 - 135
1,3-Dichlorobenzene	ND		14.7	11.0		ug/Kg		75	70 - 130
1,3-Dichloropropane	ND		14.7	14.0		ug/Kg		95	65 - 140
1,4-Dichlorobenzene	ND		14.7	10.7		ug/Kg		73	70 - 130
2,2-Dichloropropane	ND		14.7	12.1		ug/Kg		82	65 - 150
2-Chlorotoluene	ND		14.7	12.0		ug/Kg		82	60 - 135
2-Hexanone	ND		14.7	13.1		ug/Kg		89	35 - 160
4-Chlorotoluene	ND		14.7	11.4		ug/Kg		78	65 - 135
4-Isopropyltoluene	ND		14.7	11.4		ug/Kg		78	60 - 140
Benzene	ND		14.7	13.9		ug/Kg		95	65 - 130
Bromobenzene	ND		14.7	12.4		ug/Kg		85	65 - 140
Bromoform	ND		14.7	11.4		ug/Kg		78	50 - 145
Bromomethane	ND		14.7	14.6		ug/Kg		100	60 - 155
Carbon disulfide	ND		14.7	12.0		ug/Kg		82	40 - 140
Carbon tetrachloride	ND		14.7	11.5		ug/Kg		78	60 - 145
Chlorobenzene	ND		14.7	12.7		ug/Kg		87	70 - 130
Chlorobromomethane	ND		14.7	14.6		ug/Kg		99	65 - 145
Chloroethane	ND		14.7	13.4		ug/Kg		91	60 - 150
Chloroform	ND		14.7	13.9		ug/Kg		95	65 - 135
Chloromethane	ND		14.7	13.0		ug/Kg		88	40 - 145
cis-1,2-Dichloroethene	ND		14.7	14.3		ug/Kg		97	65 - 135
cis-1,3-Dichloropropene	ND		14.7	13.1		ug/Kg		89	70 - 135
Chlorodibromomethane	ND		14.7	12.7		ug/Kg		86	60 - 145
Dibromomethane	ND		14.7	13.6		ug/Kg		93	65 - 140
Dichlorobromomethane	ND		14.7	12.9		ug/Kg		88	65 - 145
Dichlorodifluoromethane	ND		14.7	11.8		ug/Kg		81	30 - 160
Ethylbenzene	ND		14.7	12.2		ug/Kg		83	70 - 135
Hexachlorobutadiene	ND		14.7	8.22		ug/Kg		56	50 - 145
Isopropylbenzene	ND		14.7	11.6		ug/Kg		79	70 - 145
m-Xylene & p-Xylene	ND		14.7	12.6		ug/Kg		86	70 - 130
Methylene Chloride	ND		14.7	12.0		ug/Kg		82	55 - 145
Methyl tert-butyl ether	ND		14.7	14.1		ug/Kg		96	55 - 155
Naphthalene	ND		14.7	9.56		ug/Kg		65	40 - 150
n-Butylbenzene	ND		14.7	10.3		ug/Kg		70	55 - 145
N-Propylbenzene	ND		14.7	11.6		ug/Kg		79	65 - 140
o-Xylene	ND		14.7	12.9		ug/Kg		88	65 - 130
sec-Butylbenzene	ND		14.7	11.3		ug/Kg		77	60 - 135
Styrene	ND		14.7	11.1		ug/Kg		76	70 - 140
tert-Butylbenzene	ND		14.7	12.3		ug/Kg		84	60 - 140
Tetrachloroethene	ND		14.7	12.4		ug/Kg		84	65 - 135
Toluene	ND		14.7	13.0		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	ND		14.7	13.4		ug/Kg		91	70 - 135
trans-1,3-Dichloropropene	ND		14.7	12.0		ug/Kg		82	60 - 145
Trichloroethene	ND		14.7	13.1		ug/Kg		89	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		14.7	13.2		ug/Kg		90	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14.7	12.9		ug/Kg		88	60 - 140
Vinyl acetate	ND	F2 F1	14.7	3.22	J F1	ug/Kg		22	40 - 150
Vinyl chloride	ND		14.7	13.4		ug/Kg		92	55 - 140
Ethylene Dibromide	ND		14.7	14.1		ug/Kg		96	65 - 140
2-Butanone (MEK)	ND		14.7	12.7		ug/Kg		87	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		14.7	12.8		ug/Kg		87	40 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		14.8	15.5		ug/Kg		105	50 - 150	0	30
1,1,1,2-Tetrachloroethane	ND		14.8	13.6		ug/Kg		92	65 - 145	4	20
1,1,1-Trichloroethane	ND		14.8	13.3		ug/Kg		90	65 - 145	4	20
1,1,2,2-Tetrachloroethane	ND		14.8	13.9		ug/Kg		94	40 - 160	2	30
1,1,2-Trichloroethane	ND		14.8	14.3		ug/Kg		97	65 - 140	1	30
1,1-Dichloroethane	ND		14.8	14.0		ug/Kg		95	65 - 135	1	25
1,1-Dichloroethene	ND		14.8	14.2		ug/Kg		96	65 - 135	7	25
1,1-Dichloropropene	ND		14.8	13.0		ug/Kg		88	65 - 135	4	20
1,2,3-Trichlorobenzene	ND		14.8	10.0		ug/Kg		68	45 - 145	24	30
1,2,4-Trichlorobenzene	ND		14.8	10.1		ug/Kg		68	50 - 140	24	30
1,2,4-Trimethylbenzene	ND		14.8	13.2		ug/Kg		90	65 - 140	10	25
1,2-Dibromo-3-Chloropropane	ND		14.8	11.1		ug/Kg		75	40 - 150	12	30
1,2-Dichlorobenzene	ND		14.8	12.6		ug/Kg		86	70 - 130	14	25
1,2-Dichloroethane	ND		14.8	13.5		ug/Kg		91	60 - 150	1	25
1,2-Dichloropropane	ND		14.8	14.5		ug/Kg		98	65 - 130	3	20
1,3,5-Trimethylbenzene	ND		14.8	13.2		ug/Kg		90	65 - 135	9	25
1,3-Dichlorobenzene	ND		14.8	12.9		ug/Kg		87	70 - 130	16	25
1,3-Dichloropropane	ND		14.8	13.8		ug/Kg		94	65 - 140	1	25
1,4-Dichlorobenzene	ND		14.8	12.1		ug/Kg		82	70 - 130	12	25
2,2-Dichloropropane	ND		14.8	12.8		ug/Kg		87	65 - 150	6	25
2-Chlorotoluene	ND		14.8	13.3		ug/Kg		90	60 - 135	10	25
2-Hexanone	ND		14.8	12.8		ug/Kg		87	35 - 160	2	40
4-Chlorotoluene	ND		14.8	13.1		ug/Kg		89	65 - 135	14	25
4-Isopropyltoluene	ND		14.8	12.7		ug/Kg		86	60 - 140	11	25
Benzene	ND		14.8	14.3		ug/Kg		97	65 - 130	3	20
Bromobenzene	ND		14.8	13.8		ug/Kg		94	65 - 140	11	25
Bromoform	ND		14.8	11.5		ug/Kg		78	50 - 145	1	30
Bromomethane	ND		14.8	15.4		ug/Kg		104	60 - 155	6	25
Carbon disulfide	ND		14.8	13.0		ug/Kg		88	40 - 140	8	20
Carbon tetrachloride	ND		14.8	12.0		ug/Kg		81	60 - 145	5	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	ND		14.8	13.6		ug/Kg		92	70 - 130	6	25
Chlorobromomethane	ND		14.8	15.1		ug/Kg		102	65 - 145	4	25
Chloroethane	ND		14.8	14.3		ug/Kg		97	60 - 150	7	25
Chloroform	ND		14.8	14.7		ug/Kg		100	65 - 135	6	20
Chloromethane	ND		14.8	13.7		ug/Kg		93	40 - 145	6	25
cis-1,2-Dichloroethene	ND		14.8	14.4		ug/Kg		98	65 - 135	1	25
cis-1,3-Dichloropropene	ND		14.8	13.4		ug/Kg		91	70 - 135	2	25
Chlorodibromomethane	ND		14.8	13.2		ug/Kg		90	60 - 145	4	25
Dibromomethane	ND		14.8	14.1		ug/Kg		95	65 - 140	4	25
Dichlorobromomethane	ND		14.8	13.4		ug/Kg		91	65 - 145	4	20
Dichlorodifluoromethane	ND		14.8	12.5		ug/Kg		85	30 - 160	6	35
Ethylbenzene	ND		14.8	12.8		ug/Kg		86	70 - 135	4	25
Hexachlorobutadiene	ND		14.8	9.79		ug/Kg		66	50 - 145	17	35
Isopropylbenzene	ND		14.8	12.7		ug/Kg		86	70 - 145	9	25
m-Xylene & p-Xylene	ND		14.8	13.2		ug/Kg		89	70 - 130	5	25
Methylene Chloride	ND		14.8	12.7		ug/Kg		86	55 - 145	6	25
Methyl tert-butyl ether	ND		14.8	14.4		ug/Kg		98	55 - 155	2	35
Naphthalene	ND		14.8	10.8		ug/Kg		73	40 - 150	12	40
n-Butylbenzene	ND		14.8	11.6		ug/Kg		79	55 - 145	12	30
N-Propylbenzene	ND		14.8	12.7		ug/Kg		86	65 - 140	9	25
o-Xylene	ND		14.8	13.8		ug/Kg		93	65 - 130	7	25
sec-Butylbenzene	ND		14.8	12.5		ug/Kg		85	60 - 135	10	25
Styrene	ND		14.8	12.1		ug/Kg		82	70 - 140	8	25
tert-Butylbenzene	ND		14.8	13.4		ug/Kg		91	60 - 140	8	25
Tetrachloroethene	ND		14.8	12.6		ug/Kg		85	65 - 135	2	25
Toluene	ND		14.8	13.2		ug/Kg		89	70 - 130	2	20
trans-1,2-Dichloroethene	ND		14.8	14.4		ug/Kg		98	70 - 135	8	25
trans-1,3-Dichloropropene	ND		14.8	12.2		ug/Kg		83	60 - 145	2	25
Trichloroethene	ND		14.8	14.2		ug/Kg		96	65 - 140	8	25
Trichlorofluoromethane	ND		14.8	13.4		ug/Kg		91	55 - 155	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14.8	13.0		ug/Kg		88	60 - 140	1	40
Vinyl acetate	ND	F2 F1	14.8	4.46	J F2 F1	ug/Kg		30	40 - 150	32	30
Vinyl chloride	ND		14.8	14.2		ug/Kg		96	55 - 140	5	30
Ethylene Dibromide	ND		14.8	13.9		ug/Kg		94	65 - 140	1	25
2-Butanone (MEK)	ND		14.8	13.9		ug/Kg		94	25 - 170	9	40
4-Methyl-2-pentanone (MIBK)	ND		14.8	11.8		ug/Kg		80	40 - 155	8	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*79 - 123*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 440-526931/4
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526931/4
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Benzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/05/19 19:25	1
Bromoform	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/05/19 19:25	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/05/19 19:25	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Chloroform	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
2-Hexanone	ND		10	5.0	ug/Kg			02/05/19 19:25	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/05/19 19:25	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Styrene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/05/19 19:25	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526931/4
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/05/19 19:25	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/05/19 19:25	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/05/19 19:25	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/05/19 19:25	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/05/19 19:25	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/05/19 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/05/19 19:25	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/05/19 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/05/19 19:25*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*		*02/05/19 19:25*	*1*

Lab Sample ID: LCS 440-526931/27
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	10.0	10.3		ug/Kg		103	70 - 125
1,2-Dichlorobenzene	10.0	10.7		ug/Kg		107	75 - 120
1,3-Dichlorobenzene	10.0	10.8		ug/Kg		108	75 - 125
4-Chlorotoluene	10.0	10.3		ug/Kg		103	75 - 125
1,4-Dichlorobenzene	10.0	10.5		ug/Kg		105	75 - 120
1,3-Dichloropropane	10.0	10.1		ug/Kg		101	70 - 125
Benzene	10.0	10.2		ug/Kg		102	65 - 120
1,1-Dichloropropene	10.0	10.3		ug/Kg		103	70 - 130
Bromobenzene	10.0	10.6		ug/Kg		106	75 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.82		ug/Kg		88	50 - 135
Bromoform	10.0	8.65		ug/Kg		87	55 - 135
Bromomethane	10.0	10.8		ug/Kg		108	60 - 145
Carbon disulfide	10.0	10.0		ug/Kg		100	50 - 130
Carbon tetrachloride	10.0	9.10		ug/Kg		91	65 - 140
1,1-Dichloroethane	10.0	9.96		ug/Kg		100	70 - 130
Chlorobenzene	10.0	10.3		ug/Kg		103	75 - 120
1,2-Dichloroethane	10.0	9.68		ug/Kg		97	60 - 140
Chlorobromomethane	10.0	10.6		ug/Kg		106	70 - 135
1,1-Dichloroethene	10.0	10.3		ug/Kg		103	70 - 125
Chloroethane	10.0	10.1		ug/Kg		101	60 - 140
Chloroform	10.0	10.1		ug/Kg		101	70 - 130
Chloromethane	10.0	9.80		ug/Kg		98	45 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526931/27
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	10.3		ug/Kg		103	70 - 130
cis-1,2-Dichloroethene	10.0	10.4		ug/Kg		104	70 - 125
cis-1,3-Dichloropropene	10.0	9.80		ug/Kg		98	75 - 125
Chlorodibromomethane	10.0	9.25		ug/Kg		93	65 - 140
Dibromomethane	10.0	10.5		ug/Kg		105	70 - 130
Dichlorobromomethane	10.0	9.61		ug/Kg		96	70 - 135
2-Hexanone	10.0	9.33		ug/Kg		93	40 - 150
Dichlorodifluoromethane	10.0	9.65		ug/Kg		96	35 - 160
Ethylbenzene	10.0	9.81		ug/Kg		98	70 - 125
4-Isopropyltoluene	10.0	10.7		ug/Kg		107	75 - 125
Hexachlorobutadiene	10.0	10.9		ug/Kg		109	60 - 135
Isopropylbenzene	10.0	9.88		ug/Kg		99	75 - 130
Methylene Chloride	10.0	9.08		ug/Kg		91	55 - 135
Methyl tert-butyl ether	10.0	9.66		ug/Kg		97	60 - 140
Naphthalene	10.0	10.1		ug/Kg		101	55 - 135
1,1,1,2-Tetrachloroethane	10.0	9.28		ug/Kg		93	70 - 130
n-Butylbenzene	10.0	10.7		ug/Kg		107	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/Kg		104	55 - 140
N-Propylbenzene	10.0	10.2		ug/Kg		102	70 - 130
sec-Butylbenzene	10.0	10.5		ug/Kg		105	70 - 125
1,2,3-Trichlorobenzene	10.0	10.3		ug/Kg		103	60 - 130
Styrene	10.0	9.71		ug/Kg		97	75 - 130
1,2,4-Trichlorobenzene	10.0	10.8		ug/Kg		108	70 - 135
tert-Butylbenzene	10.0	10.5		ug/Kg		105	70 - 125
1,1,1-Trichloroethane	10.0	9.69		ug/Kg		97	65 - 135
Tetrachloroethene	10.0	10.3		ug/Kg		103	70 - 125
1,1,2-Trichloroethane	10.0	10.6		ug/Kg		106	65 - 135
Toluene	10.0	9.65		ug/Kg		96	70 - 125
trans-1,2-Dichloroethene	10.0	10.6		ug/Kg		106	70 - 125
1,2,3-Trichloropropane	10.0	11.1		ug/Kg		111	60 - 135
trans-1,3-Dichloropropene	10.0	9.41		ug/Kg		94	70 - 135
Trichloroethene	10.0	10.6		ug/Kg		106	70 - 125
1,2,4-Trimethylbenzene	10.0	10.4		ug/Kg		104	70 - 125
Trichlorofluoromethane	10.0	10.7		ug/Kg		107	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.5		ug/Kg		105	60 - 140
1,3,5-Trimethylbenzene	10.0	10.3		ug/Kg		103	70 - 125
Vinyl acetate	10.0	9.19		ug/Kg		92	45 - 145
Vinyl chloride	10.0	10.6		ug/Kg		106	55 - 135
m-Xylene & p-Xylene	10.0	9.99		ug/Kg		100	70 - 125
Ethylene Dibromide	10.0	10.1		ug/Kg		101	70 - 130
o-Xylene	10.0	10.1		ug/Kg		101	70 - 125
2-Butanone (MEK)	10.0	10.3		ug/Kg		103	40 - 145
4-Methyl-2-pentanone (MIBK)	10.0	8.54		ug/Kg		85	40 - 145
2,2-Dichloropropane	10.0	9.96		ug/Kg		100	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526931/27
Matrix: Solid
Analysis Batch: 526931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		79 - 123

Lab Sample ID: MB 440-526986/5
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Benzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/06/19 08:47	1
Bromoform	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/06/19 08:47	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/06/19 08:47	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Chloroform	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
2-Hexanone	ND		10	5.0	ug/Kg			02/06/19 08:47	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/06/19 08:47	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526986/5
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Styrene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/06/19 08:47	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Toluene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/06/19 08:47	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/06/19 08:47	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/06/19 08:47	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/06/19 08:47	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/06/19 08:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/06/19 08:47	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/06/19 08:47*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/06/19 08:47*	*1*

Lab Sample ID: LCS 440-526986/6
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	19.9		ug/Kg		99	70 - 125
1,2-Dichlorobenzene	20.0	19.5		ug/Kg		98	75 - 120
1,3-Dichlorobenzene	20.0	19.4		ug/Kg		97	75 - 125
4-Chlorotoluene	20.0	20.2		ug/Kg		101	75 - 125
1,4-Dichlorobenzene	20.0	19.5		ug/Kg		97	75 - 120
1,3-Dichloropropane	20.0	19.8		ug/Kg		99	70 - 125
Benzene	20.0	19.6		ug/Kg		98	65 - 120
1,1-Dichloropropene	20.0	19.7		ug/Kg		98	70 - 130
Bromobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.4		ug/Kg		92	50 - 135
Bromoform	20.0	19.7		ug/Kg		98	55 - 135
Bromomethane	20.0	19.5		ug/Kg		98	60 - 145
Carbon disulfide	20.0	18.7		ug/Kg		93	50 - 130
Carbon tetrachloride	20.0	18.9		ug/Kg		95	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526986/6
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	19.5		ug/Kg		98	70 - 130
Chlorobenzene	20.0	19.9		ug/Kg		99	75 - 120
1,2-Dichloroethane	20.0	17.8		ug/Kg		89	60 - 140
Chlorobromomethane	20.0	20.1		ug/Kg		101	70 - 135
1,1-Dichloroethene	20.0	19.7		ug/Kg		99	70 - 125
Chloroethane	20.0	18.9		ug/Kg		95	60 - 140
Chloroform	20.0	19.1		ug/Kg		96	70 - 130
Chloromethane	20.0	16.4		ug/Kg		82	45 - 145
1,2-Dichloropropane	20.0	20.5		ug/Kg		103	70 - 130
cis-1,2-Dichloroethene	20.0	19.2		ug/Kg		96	70 - 125
cis-1,3-Dichloropropene	20.0	20.0		ug/Kg		100	75 - 125
Chlorodibromomethane	20.0	20.0		ug/Kg		100	65 - 140
Dibromomethane	20.0	20.0		ug/Kg		100	70 - 130
Dichlorobromomethane	20.0	18.9		ug/Kg		94	70 - 135
2-Hexanone	20.0	17.8		ug/Kg		89	40 - 150
Dichlorodifluoromethane	20.0	16.5		ug/Kg		82	35 - 160
Ethylbenzene	20.0	19.4		ug/Kg		97	70 - 125
4-Isopropyltoluene	20.0	20.9		ug/Kg		104	75 - 125
Hexachlorobutadiene	20.0	19.4		ug/Kg		97	60 - 135
Isopropylbenzene	20.0	19.8		ug/Kg		99	75 - 130
Methylene Chloride	20.0	15.3		ug/Kg		77	55 - 135
Methyl tert-butyl ether	20.0	19.3		ug/Kg		97	60 - 140
Naphthalene	20.0	18.6		ug/Kg		93	55 - 135
1,1,1,2-Tetrachloroethane	20.0	19.5		ug/Kg		97	70 - 130
n-Butylbenzene	20.0	20.0		ug/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/Kg		108	55 - 140
N-Propylbenzene	20.0	21.1		ug/Kg		106	70 - 130
sec-Butylbenzene	20.0	20.8		ug/Kg		104	70 - 125
1,2,3-Trichlorobenzene	20.0	19.7		ug/Kg		98	60 - 130
Styrene	20.0	17.9		ug/Kg		90	75 - 130
1,2,4-Trichlorobenzene	20.0	20.1		ug/Kg		100	70 - 135
tert-Butylbenzene	20.0	19.7		ug/Kg		99	70 - 125
1,1,1-Trichloroethane	20.0	18.6		ug/Kg		93	65 - 135
Tetrachloroethene	20.0	18.9		ug/Kg		94	70 - 125
1,1,2-Trichloroethane	20.0	20.3		ug/Kg		101	65 - 135
Toluene	20.0	19.7		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	20.0	19.3		ug/Kg		97	70 - 125
1,2,3-Trichloropropane	20.0	20.4		ug/Kg		102	60 - 135
trans-1,3-Dichloropropene	20.0	19.4		ug/Kg		97	70 - 135
Trichloroethene	20.0	19.7		ug/Kg		99	70 - 125
1,2,4-Trimethylbenzene	20.0	20.1		ug/Kg		100	70 - 125
Trichlorofluoromethane	20.0	19.3		ug/Kg		96	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.7		ug/Kg		98	60 - 140
1,3,5-Trimethylbenzene	20.0	20.4		ug/Kg		102	70 - 125
Vinyl acetate	20.0	20.1		ug/Kg		101	45 - 145
Vinyl chloride	20.0	17.1		ug/Kg		86	55 - 135
m-Xylene & p-Xylene	20.0	19.0		ug/Kg		95	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526986/6
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	20.0	20.1		ug/Kg		100	70 - 130
o-Xylene	20.0	19.2		ug/Kg		96	70 - 125
2-Butanone (MEK)	20.0	19.8		ug/Kg		99	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/Kg		93	40 - 145
2,2-Dichloropropane	20.0	19.1		ug/Kg		96	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-526986/13
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	20.0	18.9		ug/Kg		94	70 - 125	5	20
1,2-Dichlorobenzene	20.0	17.9		ug/Kg		89	75 - 120	9	20
1,3-Dichlorobenzene	20.0	18.3		ug/Kg		91	75 - 125	6	20
4-Chlorotoluene	20.0	18.7		ug/Kg		94	75 - 125	7	20
1,4-Dichlorobenzene	20.0	18.4		ug/Kg		92	75 - 120	6	20
1,3-Dichloropropane	20.0	18.5		ug/Kg		92	70 - 125	7	20
Benzene	20.0	19.0		ug/Kg		95	65 - 120	3	20
1,1-Dichloropropene	20.0	19.4		ug/Kg		97	70 - 130	1	20
Bromobenzene	20.0	18.8		ug/Kg		94	75 - 120	10	20
1,2-Dibromo-3-Chloropropane	20.0	16.8		ug/Kg		84	50 - 135	9	30
Bromoform	20.0	18.2		ug/Kg		91	55 - 135	8	25
Bromomethane	20.0	18.7		ug/Kg		94	60 - 145	4	20
Carbon disulfide	20.0	18.6		ug/Kg		93	50 - 130	0	20
Carbon tetrachloride	20.0	18.9		ug/Kg		94	65 - 140	0	20
1,1-Dichloroethane	20.0	18.6		ug/Kg		93	70 - 130	5	20
Chlorobenzene	20.0	18.8		ug/Kg		94	75 - 120	6	20
1,2-Dichloroethane	20.0	16.6		ug/Kg		83	60 - 140	7	20
Chlorobromomethane	20.0	18.8		ug/Kg		94	70 - 135	7	20
1,1-Dichloroethene	20.0	19.9		ug/Kg		100	70 - 125	1	20
Chloroethane	20.0	18.0		ug/Kg		90	60 - 140	5	25
Chloroform	20.0	18.3		ug/Kg		92	70 - 130	4	20
Chloromethane	20.0	16.0		ug/Kg		80	45 - 145	2	25
1,2-Dichloropropane	20.0	18.8		ug/Kg		94	70 - 130	9	20
cis-1,2-Dichloroethene	20.0	18.5		ug/Kg		92	70 - 125	4	20
cis-1,3-Dichloropropene	20.0	19.5		ug/Kg		97	75 - 125	3	20
Chlorodibromomethane	20.0	18.2		ug/Kg		91	65 - 140	9	20
Dibromomethane	20.0	18.0		ug/Kg		90	70 - 130	11	20
Dichlorobromomethane	20.0	18.2		ug/Kg		91	70 - 135	4	20
2-Hexanone	20.0	17.6		ug/Kg		88	40 - 150	1	35
Dichlorodifluoromethane	20.0	16.5		ug/Kg		83	35 - 160	0	30
Ethylbenzene	20.0	18.9		ug/Kg		94	70 - 125	3	20
4-Isopropyltoluene	20.0	20.0		ug/Kg		100	75 - 125	4	20
Hexachlorobutadiene	20.0	18.1		ug/Kg		90	60 - 135	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526986/13
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene			20.0	19.9		ug/Kg		99	75 - 130	0	20
Methylene Chloride			20.0	15.1		ug/Kg		76	55 - 135	1	20
Methyl tert-butyl ether			20.0	18.0		ug/Kg		90	60 - 140	7	25
Naphthalene			20.0	17.2		ug/Kg		86	55 - 135	8	25
1,1,1,2-Tetrachloroethane			20.0	18.8		ug/Kg		94	70 - 130	4	20
n-Butylbenzene			20.0	19.2		ug/Kg		96	70 - 130	4	20
1,1,2,2-Tetrachloroethane			20.0	19.4		ug/Kg		97	55 - 140	11	30
N-Propylbenzene			20.0	19.9		ug/Kg		99	70 - 130	6	20
sec-Butylbenzene			20.0	20.1		ug/Kg		100	70 - 125	4	20
1,2,3-Trichlorobenzene			20.0	17.9		ug/Kg		90	60 - 130	9	20
Styrene			20.0	17.3		ug/Kg		86	75 - 130	4	20
1,2,4-Trichlorobenzene			20.0	18.5		ug/Kg		93	70 - 135	8	20
tert-Butylbenzene			20.0	19.2		ug/Kg		96	70 - 125	2	20
1,1,1-Trichloroethane			20.0	18.4		ug/Kg		92	65 - 135	1	20
Tetrachloroethene			20.0	19.2		ug/Kg		96	70 - 125	2	20
1,1,2-Trichloroethane			20.0	18.6		ug/Kg		93	65 - 135	9	20
Toluene			20.0	19.2		ug/Kg		96	70 - 125	2	20
trans-1,2-Dichloroethene			20.0	19.3		ug/Kg		97	70 - 125	0	20
1,2,3-Trichloropropane			20.0	18.3		ug/Kg		91	60 - 135	11	25
trans-1,3-Dichloropropene			20.0	18.2		ug/Kg		91	70 - 135	6	20
Trichloroethene			20.0	19.2		ug/Kg		96	70 - 125	3	20
1,2,4-Trimethylbenzene			20.0	18.8		ug/Kg		94	70 - 125	7	20
Trichlorofluoromethane			20.0	19.6		ug/Kg		98	60 - 145	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	20.2		ug/Kg		101	60 - 140	2	40
1,3,5-Trimethylbenzene			20.0	19.2		ug/Kg		96	70 - 125	6	20
Vinyl acetate			20.0	18.1		ug/Kg		91	45 - 145	11	20
Vinyl chloride			20.0	17.2		ug/Kg		86	55 - 135	0	25
m-Xylene & p-Xylene			20.0	18.9		ug/Kg		94	70 - 125	1	20
Ethylene Dibromide			20.0	18.8		ug/Kg		94	70 - 130	6	20
o-Xylene			20.0	18.8		ug/Kg		94	70 - 125	2	20
2-Butanone (MEK)			20.0	18.5		ug/Kg		92	40 - 145	7	35
4-Methyl-2-pentanone (MIBK)			20.0	18.3		ug/Kg		91	40 - 145	2	35
2,2-Dichloropropane			20.0	18.9		ug/Kg		95	60 - 145	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: MB 440-527862/4
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			02/11/19 08:41	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527862/4
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Benzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Bromobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/11/19 08:41	1
Bromoform	ND		1.0	0.40	ug/L			02/11/19 08:41	1
Bromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/11/19 08:41	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chloroethane	ND		1.0	0.40	ug/L			02/11/19 08:41	1
Chloroform	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chloromethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Dibromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
2-Hexanone	ND		5.0	2.5	ug/L			02/11/19 08:41	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/11/19 08:41	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/11/19 08:41	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Naphthalene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
Styrene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Toluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527862/4
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/11/19 08:41	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Trichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/11/19 08:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/11/19 08:41	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/11/19 08:41	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/11/19 08:41	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/11/19 08:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/11/19 08:41	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/11/19 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*02/11/19 08:41*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/11/19 08:41*	*1*

Lab Sample ID: LCS 440-527862/5
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	27.9		ug/L		112	10 - 150
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
1,2-Dichlorobenzene	25.0	26.4		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	27.3		ug/L		109	70 - 130
4-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	26.9		ug/L		107	70 - 130
Benzene	25.0	26.9		ug/L		108	68 - 130
1,1-Dichloropropene	25.0	26.6		ug/L		107	70 - 130
Bromobenzene	25.0	26.1		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.8		ug/L		107	52 - 140
Bromoform	25.0	26.5		ug/L		106	60 - 148
Bromomethane	25.0	25.1		ug/L		100	64 - 139
Carbon disulfide	25.0	24.8		ug/L		99	52 - 136
Carbon tetrachloride	25.0	26.9		ug/L		108	60 - 150
1,1-Dichloroethane	25.0	26.7		ug/L		107	64 - 130
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dichloroethane	25.0	29.0		ug/L		116	57 - 138
Chlorobromomethane	25.0	27.9		ug/L		112	70 - 130
1,1-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
Chloroethane	25.0	24.4		ug/L		98	64 - 135
Chloroform	25.0	24.7		ug/L		99	70 - 130
Chloromethane	25.0	21.9		ug/L		88	47 - 140
1,2-Dichloropropane	25.0	28.0		ug/L		112	67 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527862/5
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	28.4		ug/L		114	70 - 133
cis-1,3-Dichloropropene	25.0	29.5		ug/L		118	70 - 133
Chlorodibromomethane	25.0	27.4		ug/L		110	69 - 145
Dibromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorobromomethane	25.0	29.2		ug/L		117	70 - 132
2-Hexanone	25.0	24.7		ug/L		99	10 - 150
Dichlorodifluoromethane	25.0	21.3		ug/L		85	29 - 150
Ethylbenzene	25.0	25.3		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	26.7		ug/L		107	70 - 132
Hexachlorobutadiene	25.0	28.2		ug/L		113	10 - 150
Isopropylbenzene	25.0	26.2		ug/L		105	70 - 136
Methylene Chloride	25.0	24.0		ug/L		96	52 - 130
Methyl tert-butyl ether	25.0	28.3		ug/L		113	63 - 131
Naphthalene	25.0	26.3		ug/L		105	60 - 140
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	60 - 141
n-Butylbenzene	25.0	28.3		ug/L		113	65 - 150
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	63 - 130
N-Propylbenzene	25.0	26.1		ug/L		104	67 - 139
sec-Butylbenzene	25.0	26.1		ug/L		104	70 - 138
1,2,3-Trichlorobenzene	25.0	28.6		ug/L		114	60 - 140
Styrene	25.0	26.0		ug/L		104	70 - 134
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	60 - 140
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	28.1		ug/L		112	70 - 130
Tetrachloroethene	25.0	25.7		ug/L		103	70 - 130
1,1,2-Trichloroethane	25.0	27.8		ug/L		111	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	28.1		ug/L		112	70 - 130
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	63 - 130
trans-1,3-Dichloropropene	25.0	29.1		ug/L		116	70 - 132
Trichloroethene	25.0	27.2		ug/L		109	70 - 130
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 135
Trichlorofluoromethane	25.0	25.6		ug/L		102	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.4		ug/L		102	60 - 140
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		105	70 - 136
Vinyl acetate	25.0	28.9		ug/L		116	48 - 140
Vinyl chloride	25.0	22.7		ug/L		91	59 - 133
m-Xylene & p-Xylene	25.0	27.6		ug/L		110	70 - 130
Ethylene Dibromide	25.0	26.7		ug/L		107	70 - 130
o-Xylene	25.0	26.8		ug/L		107	70 - 130
2-Butanone (MEK)	25.0	24.4		ug/L		98	44 - 150
4-Methyl-2-pentanone (MIBK)	25.0	24.4		ug/L		97	59 - 149
2,2-Dichloropropane	25.0	29.2		ug/L		117	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MS
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	23.9		ug/L		95	10 - 150
2-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 130
1,2-Dichlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.4		ug/L		105	70 - 130
4-Chlorotoluene	ND		25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	ND		25.0	25.4		ug/L		101	70 - 130
Benzene	ND		25.0	26.7		ug/L		107	66 - 130
1,1-Dichloropropene	ND		25.0	27.8		ug/L		111	64 - 130
Bromobenzene	ND		25.0	24.9		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	23.6		ug/L		94	48 - 140
Bromoform	ND		25.0	24.5		ug/L		98	59 - 150
Bromomethane	ND		25.0	24.2		ug/L		97	62 - 131
Carbon disulfide	ND		25.0	24.4		ug/L		98	49 - 140
Carbon tetrachloride	ND		25.0	26.4		ug/L		106	60 - 150
1,1-Dichloroethane	ND		25.0	26.5		ug/L		106	65 - 130
Chlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130
1,2-Dichloroethane	ND		25.0	27.6		ug/L		110	56 - 146
Chlorobromomethane	ND		25.0	27.1		ug/L		109	70 - 130
1,1-Dichloroethene	ND		25.0	24.8		ug/L		99	70 - 130
Chloroethane	ND		25.0	24.5		ug/L		98	68 - 130
Chloroform	ND		25.0	23.2		ug/L		93	70 - 130
Chloromethane	ND		25.0	21.8		ug/L		87	39 - 144
1,2-Dichloropropane	ND		25.0	26.9		ug/L		107	69 - 130
cis-1,2-Dichloroethene	ND		25.0	27.6		ug/L		111	70 - 130
cis-1,3-Dichloropropene	ND		25.0	28.2		ug/L		113	70 - 133
Chlorodibromomethane	ND		25.0	26.4		ug/L		106	70 - 148
Dibromomethane	ND		25.0	23.9		ug/L		96	70 - 130
Dichlorobromomethane	ND		25.0	27.5		ug/L		110	70 - 138
2-Hexanone	ND		25.0	20.8		ug/L		83	10 - 150
Dichlorodifluoromethane	ND		25.0	20.5		ug/L		82	25 - 142
Ethylbenzene	ND		25.0	25.5		ug/L		102	70 - 130
4-Isopropyltoluene	ND		25.0	25.9		ug/L		103	70 - 130
Hexachlorobutadiene	ND		25.0	26.3		ug/L		105	10 - 150
Isopropylbenzene	0.38	J	25.0	26.3		ug/L		104	70 - 132
Methylene Chloride	ND		25.0	22.8		ug/L		91	52 - 130
Methyl tert-butyl ether	ND		25.0	26.4		ug/L		106	70 - 130
Naphthalene	ND		25.0	24.1		ug/L		96	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	25.8		ug/L		103	60 - 149
n-Butylbenzene	ND		25.0	27.8		ug/L		111	61 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.1		ug/L		92	63 - 130
N-Propylbenzene	0.32	J	25.0	26.1		ug/L		103	66 - 135
sec-Butylbenzene	ND		25.0	25.6		ug/L		103	67 - 134
1,2,3-Trichlorobenzene	ND		25.0	26.9		ug/L		108	60 - 140
Styrene	ND		25.0	24.9		ug/L		100	29 - 150
1,2,4-Trichlorobenzene	ND		25.0	25.7		ug/L		103	60 - 140
tert-Butylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
1,1,1-Trichloroethane	ND		25.0	28.1		ug/L		113	70 - 130
Tetrachloroethene	ND		25.0	26.7		ug/L		107	70 - 137
1,1,2-Trichloroethane	ND		25.0	27.5		ug/L		110	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231822-F-22 MS
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.60		25.0	25.8		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.9		ug/L		112	70 - 130
1,2,3-Trichloropropane	ND		25.0	22.0		ug/L		88	60 - 130
trans-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	70 - 138
Trichloroethene	ND		25.0	26.7		ug/L		107	70 - 130
1,2,4-Trimethylbenzene	ND		25.0	25.6		ug/L		103	70 - 130
Trichlorofluoromethane	ND		25.0	25.7		ug/L		103	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.7		ug/L		103	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	25.3		ug/L		101	70 - 130
Vinyl acetate	ND		25.0	26.4		ug/L		106	23 - 150
Vinyl chloride	ND		25.0	22.4		ug/L		90	50 - 137
m-Xylene & p-Xylene	0.57	J	25.0	27.8		ug/L		109	70 - 133
Ethylene Dibromide	ND		25.0	25.2		ug/L		101	70 - 131
o-Xylene	0.29	J	25.0	25.9		ug/L		102	70 - 133
2-Butanone (MEK)	ND		25.0	19.3		ug/L		77	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.9		ug/L		87	52 - 150
2,2-Dichloropropane	ND		25.0	28.7		ug/L		115	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	24.5		ug/L		98	10 - 150	3	35
2-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 130	0	20
1,2-Dichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	1	20
4-Chlorotoluene	ND		25.0	25.9		ug/L		104	70 - 130	4	20
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	25.7		ug/L		103	70 - 130	1	25
Benzene	ND		25.0	27.2		ug/L		109	66 - 130	2	20
1,1-Dichloropropene	ND		25.0	27.3		ug/L		109	64 - 130	2	20
Bromobenzene	ND		25.0	26.1		ug/L		104	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.3		ug/L		97	48 - 140	3	30
Bromoform	ND		25.0	25.9		ug/L		103	59 - 150	5	25
Bromomethane	ND		25.0	24.7		ug/L		99	62 - 131	2	25
Carbon disulfide	ND		25.0	24.1		ug/L		96	49 - 140	1	20
Carbon tetrachloride	ND		25.0	26.2		ug/L		105	60 - 150	1	25
1,1-Dichloroethane	ND		25.0	27.0		ug/L		108	65 - 130	2	20
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	4	20
1,2-Dichloroethane	ND		25.0	28.4		ug/L		114	56 - 146	3	20
Chlorobromomethane	ND		25.0	27.4		ug/L		109	70 - 130	1	25
1,1-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	ND		25.0	24.3		ug/L		97	68 - 130	1	25
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130	4	20
Chloromethane	ND		25.0	20.9		ug/L		83	39 - 144	4	25
1,2-Dichloropropane	ND		25.0	27.5		ug/L		110	69 - 130	2	20
cis-1,2-Dichloroethene	ND		25.0	27.4		ug/L		109	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	29.4		ug/L		118	70 - 133	4	20
Chlorodibromomethane	ND		25.0	27.2		ug/L		109	70 - 148	3	25
Dibromomethane	ND		25.0	24.9		ug/L		99	70 - 130	4	25
Dichlorobromomethane	ND		25.0	28.0		ug/L		112	70 - 138	1	20
2-Hexanone	ND		25.0	22.0		ug/L		88	10 - 150	6	35
Dichlorodifluoromethane	ND		25.0	19.9		ug/L		80	25 - 142	3	30
Ethylbenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
4-Isopropyltoluene	ND		25.0	27.4		ug/L		109	70 - 130	6	20
Hexachlorobutadiene	ND		25.0	28.0		ug/L		112	10 - 150	6	20
Isopropylbenzene	0.38	J	25.0	27.2		ug/L		107	70 - 132	3	20
Methylene Chloride	ND		25.0	23.2		ug/L		93	52 - 130	2	20
Methyl tert-butyl ether	ND		25.0	28.8		ug/L		115	70 - 130	9	25
Naphthalene	ND		25.0	26.0		ug/L		104	60 - 140	8	30
1,1,1,2-Tetrachloroethane	ND		25.0	26.9		ug/L		108	60 - 149	4	20
n-Butylbenzene	ND		25.0	28.7		ug/L		115	61 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	63 - 130	4	30
N-Propylbenzene	0.32	J	25.0	27.1		ug/L		107	66 - 135	4	20
sec-Butylbenzene	ND		25.0	25.9		ug/L		104	67 - 134	1	20
1,2,3-Trichlorobenzene	ND		25.0	28.7		ug/L		115	60 - 140	7	20
Styrene	ND		25.0	26.4		ug/L		106	29 - 150	6	35
1,2,4-Trichlorobenzene	ND		25.0	27.2		ug/L		109	60 - 140	5	20
tert-Butylbenzene	ND		25.0	26.5		ug/L		106	70 - 130	4	20
1,1,1-Trichloroethane	ND		25.0	27.8		ug/L		111	70 - 130	1	20
Tetrachloroethene	ND		25.0	27.3		ug/L		109	70 - 137	2	20
1,1,2-Trichloroethane	ND		25.0	29.2		ug/L		117	70 - 130	6	25
Toluene	0.60		25.0	26.7		ug/L		105	70 - 130	4	20
trans-1,2-Dichloroethene	ND		25.0	27.1		ug/L		108	70 - 130	3	20
1,2,3-Trichloropropane	ND		25.0	22.1		ug/L		88	60 - 130	0	30
trans-1,3-Dichloropropene	ND		25.0	28.8		ug/L		115	70 - 138	6	25
Trichloroethene	ND		25.0	27.2		ug/L		109	70 - 130	2	20
1,2,4-Trimethylbenzene	ND		25.0	27.0		ug/L		108	70 - 130	5	25
Trichlorofluoromethane	ND		25.0	25.5		ug/L		102	60 - 150	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.9		ug/L		100	60 - 140	3	20
1,3,5-Trimethylbenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
Vinyl acetate	ND		25.0	26.8		ug/L		107	23 - 150	1	30
Vinyl chloride	ND		25.0	22.9		ug/L		92	50 - 137	2	30
m-Xylene & p-Xylene	0.57	J	25.0	28.3		ug/L		111	70 - 133	2	25
Ethylene Dibromide	ND		25.0	26.3		ug/L		105	70 - 131	4	25
o-Xylene	0.29	J	25.0	27.6		ug/L		109	70 - 133	6	20
2-Butanone (MEK)	ND		25.0	19.5		ug/L		78	48 - 140	1	40
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.0		ug/L		92	52 - 150	5	35
2,2-Dichloropropane	ND		25.0	28.7		ug/L		115	69 - 138	0	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	100		80 - 128

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-526259/4
Matrix: Solid
Analysis Batch: 526259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/01/19 08:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		60 - 120		02/01/19 08:30	1
4-Bromofluorobenzene (Surr)	104		79 - 120		02/01/19 08:30	1
Toluene-d8 (Surr)	98		79 - 123		02/01/19 08:30	1

Lab Sample ID: LCS 440-526259/6
Matrix: Solid
Analysis Batch: 526259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	863		ug/Kg		86	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		60 - 120
4-Bromofluorobenzene (Surr)	102		79 - 120
Toluene-d8 (Surr)	99		79 - 123

Lab Sample ID: LCSD 440-526259/8
Matrix: Solid
Analysis Batch: 526259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	814		ug/Kg		81	60 - 135	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	101		60 - 120
4-Bromofluorobenzene (Surr)	102		79 - 120
Toluene-d8 (Surr)	101		79 - 123

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 526932

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1010	765		ug/Kg		76	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 526932

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1020	830		ug/Kg		81	55 - 140	8	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-526932/4
Matrix: Solid
Analysis Batch: 526932

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/05/19 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*02/05/19 19:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*		*02/05/19 19:25*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*		*02/05/19 19:25*	*1*

Lab Sample ID: LCS 440-526932/6
Matrix: Solid
Analysis Batch: 526932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			1000	927		ug/Kg		93	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-526987/5
Matrix: Solid
Analysis Batch: 526987

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/06/19 08:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*02/06/19 08:47*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*02/06/19 08:47*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/06/19 08:47*	*1*

Lab Sample ID: LCS 440-526987/7
Matrix: Solid
Analysis Batch: 526987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	820		ug/Kg		82	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: LCSD 440-526987/14
Matrix: Solid
Analysis Batch: 526987

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	874		ug/Kg		87	60 - 135	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-527863/4
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/11/19 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/11/19 08:41*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*02/11/19 08:41*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/11/19 08:41*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-527863/6
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	457		ug/L		91	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MS
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	100		1730	1820		ug/L		100	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	100		1730	1830		ug/L		100	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-526740/1-A
Matrix: Solid
Analysis Batch: 527282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Acenaphthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Acenaphthylene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Fluorene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Phenanthrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-526740/1-A
Matrix: Solid
Analysis Batch: 527282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Fluoranthene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Pyrene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1
2-Methylnaphthalene	ND		30	4.0	ug/Kg		02/05/19 06:11	02/07/19 13:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*29 - 120*	*02/05/19 06:11*	*02/07/19 13:43*	*1*
Nitrobenzene-d5	*83*		*11 - 118*	*02/05/19 06:11*	*02/07/19 13:43*	*1*
Terphenyl-d14	*96*		*10 - 120*	*02/05/19 06:11*	*02/07/19 13:43*	*1*

Lab Sample ID: LCS 440-526740/2-A
Matrix: Solid
Analysis Batch: 527282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526740

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	66.7	47.0		ug/Kg		71	46 - 120
Acenaphthene	66.7	51.0		ug/Kg		77	48 - 120
Acenaphthylene	66.7	51.4		ug/Kg		77	47 - 120
Fluorene	66.7	53.2		ug/Kg		80	47 - 120
Phenanthrene	66.7	50.5		ug/Kg		76	47 - 120
Anthracene	66.7	49.1		ug/Kg		74	46 - 120
Benzo[a]anthracene	66.7	50.7		ug/Kg		76	48 - 120
Chrysene	66.7	50.8		ug/Kg		76	48 - 120
Benzo[a]pyrene	66.7	49.4		ug/Kg		74	48 - 120
Benzo[b]fluoranthene	66.7	50.3		ug/Kg		75	49 - 120
Benzo[k]fluoranthene	66.7	49.7		ug/Kg		75	48 - 120
Benzo[g,h,i]perylene	66.7	48.7		ug/Kg		73	38 - 127
Indeno[1,2,3-cd]pyrene	66.7	49.5		ug/Kg		74	42 - 120
Fluoranthene	66.7	50.8		ug/Kg		76	46 - 120
Pyrene	66.7	50.9		ug/Kg		76	46 - 120
Dibenz(a,h)anthracene	66.7	49.1		ug/Kg		74	39 - 120
2-Methylnaphthalene	66.7	48.2		ug/Kg		72	49 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*29 - 120*
Nitrobenzene-d5	*75*		*11 - 118*
Terphenyl-d14	*87*		*10 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 527279

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526740

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	63		65.5	90.4		ug/Kg		41	10 - 150
Acenaphthene	ND		65.5	64.1		ug/Kg		98	10 - 150
Acenaphthylene	16	J	65.5	77.3		ug/Kg		93	23 - 114
Fluorene	3.9	J	65.5	68.6		ug/Kg		105	10 - 150
Phenanthrene	49		65.5	95.5		ug/Kg		71	10 - 150
Anthracene	46		65.5	107		ug/Kg		93	10 - 150
Benzo[a]anthracene	26	J	65.5	86.4		ug/Kg		93	10 - 150
Chrysene	34		65.5	91.7		ug/Kg		88	10 - 150
Benzo[a]pyrene	28	J	65.5	90.1		ug/Kg		95	10 - 150
Benzo[b]fluoranthene	45		65.5	106		ug/Kg		94	10 - 150
Benzo[k]fluoranthene	14	J	65.5	76.1		ug/Kg		94	10 - 150
Benzo[g,h,i]perylene	35		65.5	97.9		ug/Kg		95	10 - 143
Indeno[1,2,3-cd]pyrene	25	J	65.5	84.9		ug/Kg		91	10 - 138
Fluoranthene	47		65.5	94.3		ug/Kg		72	10 - 150
Pyrene	42		65.5	92.5		ug/Kg		77	10 - 150
Dibenz(a,h)anthracene	5.3	J	65.5	60.5		ug/Kg		84	10 - 127
2-Methylnaphthalene	32		65.5	82.4		ug/Kg		77	15 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*107*		*29 - 120*
Nitrobenzene-d5	*99*		*11 - 118*
Terphenyl-d14	*112*		*10 - 120*

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 527279

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526740

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	63		66.3	107		ug/Kg		66	10 - 150	17	40
Acenaphthene	ND		66.3	64.4		ug/Kg		97	10 - 150	0	39
Acenaphthylene	16	J	66.3	83.6		ug/Kg		102	23 - 114	8	38
Fluorene	3.9	J	66.3	69.2		ug/Kg		104	10 - 150	1	40
Phenanthrene	49		66.3	116		ug/Kg		100	10 - 150	19	40
Anthracene	46		66.3	131		ug/Kg		128	10 - 150	20	40
Benzo[a]anthracene	26	J	66.3	88.1		ug/Kg		94	10 - 150	2	40
Chrysene	34		66.3	94.9		ug/Kg		92	10 - 150	3	40
Benzo[a]pyrene	28	J	66.3	91.1		ug/Kg		95	10 - 150	1	40
Benzo[b]fluoranthene	45		66.3	114		ug/Kg		105	10 - 150	7	40
Benzo[k]fluoranthene	14	J	66.3	80.9		ug/Kg		101	10 - 150	6	40
Benzo[g,h,i]perylene	35		66.3	103		ug/Kg		102	10 - 143	5	40
Indeno[1,2,3-cd]pyrene	25	J	66.3	82.8		ug/Kg		87	10 - 138	3	40
Fluoranthene	47		66.3	103		ug/Kg		84	10 - 150	9	40
Pyrene	42		66.3	102		ug/Kg		91	10 - 150	10	40
Dibenz(a,h)anthracene	5.3	J	66.3	54.3		ug/Kg		74	10 - 127	11	40
2-Methylnaphthalene	32		66.3	91.2		ug/Kg		90	15 - 127	10	40

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 527279

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526740

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*103*		*29 - 120*
Nitrobenzene-d5	*95*		*11 - 118*
Terphenyl-d14	*107*		*10 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-526522/1-A
Matrix: Solid
Analysis Batch: 526643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	2.5	mg/Kg		02/04/19 06:11	02/04/19 14:29	1
Motor Oil Range Organics [C24-C36]	ND		5.0	2.5	mg/Kg		02/04/19 06:11	02/04/19 14:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*90*		*40 - 140*	*02/04/19 06:11*	*02/04/19 14:29*	*1*

Lab Sample ID: LCS 440-526522/2-A
Matrix: Solid
Analysis Batch: 526643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526522

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.7	62.4		mg/Kg		94	45 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*100*		*40 - 140*

Lab Sample ID: 440-232051-E-1-A MS
Matrix: Solid
Analysis Batch: 526643

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	2.4	J	66.1	59.3		mg/Kg		90	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*96*		*40 - 140*

Lab Sample ID: 440-232051-E-1-B MSD
Matrix: Solid
Analysis Batch: 526643

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.4	J	66.2	56.6		mg/Kg		86	40 - 120	5	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-232051-E-1-B MSD
Matrix: Solid
Analysis Batch: 526643

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526522

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*91*		*40 - 140*

Lab Sample ID: MB 440-526524/1-A
Matrix: Solid
Analysis Batch: 526644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.44	J	5.0	2.5	mg/Kg		02/04/19 06:18	02/04/19 14:32	1
Motor Oil Range Organics [C24-C36]	3.46	J	5.0	2.5	mg/Kg		02/04/19 06:18	02/04/19 14:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*83*		*40 - 140*	*02/04/19 06:18*	*02/04/19 14:32*	*1*

Lab Sample ID: LCS 440-526524/2-A
Matrix: Solid
Analysis Batch: 526644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526524

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.7	57.2		mg/Kg		86	45 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*87*		*40 - 140*

Lab Sample ID: 440-232028-A-1-A MS
Matrix: Solid
Analysis Batch: 526644

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	200	F2 F1 B	65.8	145	F1	mg/Kg		-85	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*83*		*40 - 140*

Lab Sample ID: 440-232028-A-1-B MSD
Matrix: Solid
Analysis Batch: 526644

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	200	F2 F1 B	66.1	200	F2 F1	mg/Kg		-2	40 - 120	32	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*82*		*40 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-526992/1-A
Matrix: Solid
Analysis Batch: 527137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.31	J	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 16:04	1
Motor Oil Range Organics [C24-C36]	3.61	J	5.0	2.5	mg/Kg		02/06/19 07:07	02/06/19 16:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*84*		*40 - 140*	*02/06/19 07:07*	*02/06/19 16:04*	*1*

Lab Sample ID: LCS 440-526992/2-A
Matrix: Solid
Analysis Batch: 527137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.7	53.2		mg/Kg		80	45 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*81*		*40 - 140*

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 527137

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526992

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	15	B	66.0	69.7		mg/Kg		83	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*76*		*40 - 140*

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 527137

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526992

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	15	B	65.2	60.0		mg/Kg		69	40 - 120	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*69*		*40 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-526663/1-A
Matrix: Solid
Analysis Batch: 526813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-526663/1-A
Matrix: Solid
Analysis Batch: 526813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Endrin	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
delta-BHC	ND		10	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Toxaphene	ND		200	50	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
Chlordane (technical)	ND		50	10	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/04/19 13:21	02/05/19 16:22	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/04/19 13:21	02/05/19 16:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*28 - 115*	*02/04/19 13:21*	*02/05/19 16:22*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*21 - 117*	*02/04/19 13:21*	*02/05/19 16:22*	*1*

Lab Sample ID: LCS 440-526663/2-A
Matrix: Solid
Analysis Batch: 526813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	10.2		ug/Kg		76	53 - 115
Dieldrin	13.3	10.9		ug/Kg		82	57 - 115
Endrin aldehyde	13.3	9.31		ug/Kg		70	54 - 115
Endrin	13.3	11.4		ug/Kg		85	61 - 120
Endrin ketone	13.3	11.7		ug/Kg		88	54 - 119
Heptachlor	13.3	10.2		ug/Kg		76	52 - 115
Heptachlor epoxide	13.3	10.5		ug/Kg		79	59 - 115
4,4'-DDT	13.3	11.1		ug/Kg		83	60 - 131
4,4'-DDE	13.3	11.0		ug/Kg		83	55 - 115
4,4'-DDD	13.3	11.2		ug/Kg		84	59 - 118
Endosulfan I	13.3	10.7		ug/Kg		81	56 - 115
Endosulfan II	13.3	11.0		ug/Kg		83	60 - 117
alpha-BHC	13.3	10.9		ug/Kg		82	57 - 115
beta-BHC	13.3	10.4		ug/Kg		78	58 - 115
gamma-BHC (Lindane)	13.3	10.7		ug/Kg		80	56 - 115
delta-BHC	13.3	10.9		ug/Kg		82	52 - 115
Endosulfan sulfate	13.3	10.6		ug/Kg		79	60 - 115

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-526663/2-A
Matrix: Solid
Analysis Batch: 526813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526663

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methoxychlor			13.3	11.7		ug/Kg		88	60 - 133		
alpha-Chlordane			13.3	11.3		ug/Kg		85	56 - 115		
gamma-Chlordane			13.3	11.3		ug/Kg		85	38 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*83*		*21 - 117*

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 526813

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aldrin	ND		13.0	8.27		ug/Kg		64	10 - 150		
Dieldrin	ND		13.0	8.32		ug/Kg		64	10 - 150		
Endrin aldehyde	ND		13.0	7.69		ug/Kg		59	10 - 131		
Endrin	ND		13.0	8.97		ug/Kg		69	10 - 150		
Endrin ketone	ND		13.0	9.55		ug/Kg		74	10 - 134		
Heptachlor	ND		13.0	8.63		ug/Kg		67	10 - 150		
Heptachlor epoxide	ND		13.0	12.1		ug/Kg		94	10 - 150		
4,4'-DDT	ND		13.0	10.8		ug/Kg		84	13 - 141		
4,4'-DDE	ND		13.0	8.48		ug/Kg		65	10 - 150		
4,4'-DDD	ND		13.0	9.21		ug/Kg		71	10 - 150		
Endosulfan I	ND		13.0	8.42		ug/Kg		65	10 - 150		
Endosulfan II	ND		13.0	8.54		ug/Kg		66	10 - 150		
alpha-BHC	ND		13.0	8.82		ug/Kg		68	12 - 125		
beta-BHC	ND		13.0	8.53		ug/Kg		66	10 - 150		
gamma-BHC (Lindane)	ND		13.0	8.85		ug/Kg		68	20 - 119		
delta-BHC	ND		13.0	8.77	J	ug/Kg		68	12 - 130		
Endosulfan sulfate	ND		13.0	9.77		ug/Kg		75	10 - 150		
Methoxychlor	ND		13.0	8.87		ug/Kg		68	10 - 150		
alpha-Chlordane	ND		13.0	8.46		ug/Kg		65	10 - 150		
gamma-Chlordane	ND		13.0	8.55		ug/Kg		66	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*58*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*87*		*21 - 117*

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 526813

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526663

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.1	8.25		ug/Kg		63	10 - 150	0	26
Dieldrin	ND		13.1	8.41		ug/Kg		64	10 - 150	1	28
Endrin aldehyde	ND		13.1	7.66		ug/Kg		58	10 - 131	0	33
Endrin	ND		13.1	8.98		ug/Kg		68	10 - 150	0	27
Endrin ketone	ND		13.1	9.62		ug/Kg		73	10 - 134	1	40

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 526813

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526663

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor	ND		13.1	8.71		ug/Kg		66	10 - 150	1	28
Heptachlor epoxide	ND		13.1	12.3		ug/Kg		93	10 - 150	1	25
4,4'-DDT	ND		13.1	10.7		ug/Kg		81	13 - 141	2	26
4,4'-DDE	ND		13.1	8.43		ug/Kg		64	10 - 150	1	40
4,4'-DDD	ND		13.1	9.16		ug/Kg		70	10 - 150	1	26
Endosulfan I	ND		13.1	8.40		ug/Kg		64	10 - 150	0	32
Endosulfan II	ND		13.1	8.26		ug/Kg		63	10 - 150	3	25
alpha-BHC	ND		13.1	8.87		ug/Kg		68	12 - 125	1	18
beta-BHC	ND		13.1	8.56		ug/Kg		65	10 - 150	0	33
gamma-BHC (Lindane)	ND		13.1	8.94		ug/Kg		68	20 - 119	1	24
delta-BHC	ND		13.1	8.86	J	ug/Kg		68	12 - 130	1	35
Endosulfan sulfate	ND		13.1	9.88		ug/Kg		75	10 - 150	1	35
Methoxychlor	ND		13.1	8.68		ug/Kg		66	10 - 150	2	34
alpha-Chlordane	ND		13.1	8.42		ug/Kg		64	10 - 150	0	40
gamma-Chlordane	ND		13.1	8.53		ug/Kg		65	10 - 150	0	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*89*		*21 - 117*

Lab Sample ID: MB 440-526983/1-A
Matrix: Solid
Analysis Batch: 527064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Endrin	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
delta-BHC	ND		10	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Toxaphene	ND		200	50	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
Chlordane (technical)	ND		50	10	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/06/19 06:33	02/06/19 14:28	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/06/19 06:33	02/06/19 14:28	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-526983/1-A
Matrix: Solid
Analysis Batch: 527064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526983

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		28 - 115	02/06/19 06:33	02/06/19 14:28	1
DCB Decachlorobiphenyl (Surr)	88		21 - 117	02/06/19 06:33	02/06/19 14:28	1

Lab Sample ID: LCS 440-526983/2-A
Matrix: Solid
Analysis Batch: 527064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	10.2		ug/Kg		76	53 - 115
Dieldrin	13.3	10.9		ug/Kg		81	57 - 115
Endrin aldehyde	13.3	9.54		ug/Kg		72	54 - 115
Endrin	13.3	11.1		ug/Kg		83	61 - 120
Endrin ketone	13.3	10.3		ug/Kg		77	54 - 119
Heptachlor	13.3	9.99		ug/Kg		75	52 - 115
Heptachlor epoxide	13.3	10.2		ug/Kg		77	59 - 115
4,4'-DDT	13.3	9.64		ug/Kg		72	60 - 131
4,4'-DDE	13.3	10.4		ug/Kg		78	55 - 115
4,4'-DDD	13.3	11.0		ug/Kg		82	59 - 118
Endosulfan I	13.3	10.8		ug/Kg		81	56 - 115
Endosulfan II	13.3	10.7		ug/Kg		80	60 - 117
alpha-BHC	13.3	9.40		ug/Kg		71	57 - 115
beta-BHC	13.3	9.62		ug/Kg		72	58 - 115
gamma-BHC (Lindane)	13.3	8.18		ug/Kg		61	56 - 115
delta-BHC	13.3	9.22	J	ug/Kg		69	52 - 115
Endosulfan sulfate	13.3	10.2		ug/Kg		76	60 - 115
Methoxychlor	13.3	10.0		ug/Kg		75	60 - 133
alpha-Chlordane	13.3	10.4		ug/Kg		78	56 - 115
gamma-Chlordane	13.3	10.1		ug/Kg		76	38 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		28 - 115
DCB Decachlorobiphenyl (Surr)	86		21 - 117

Lab Sample ID: 440-232505-G-1-A MS
Matrix: Solid
Analysis Batch: 527335

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		13.3	10.3		ug/Kg		78	10 - 150
Dieldrin	66	E	13.3	73.2	E 4	ug/Kg		57	10 - 150
Endrin aldehyde	ND		13.3	8.09		ug/Kg		61	10 - 131
Endrin	ND		13.3	11.3		ug/Kg		85	10 - 150
Endrin ketone	ND		13.3	9.35		ug/Kg		70	10 - 134
Heptachlor	ND		13.3	9.50		ug/Kg		72	10 - 150
Heptachlor epoxide	ND		13.3	11.7		ug/Kg		88	10 - 150
4,4'-DDT	13		13.3	22.8		ug/Kg		76	13 - 141
4,4'-DDE	140	E	13.3	142	E 4	ug/Kg		21	10 - 150
4,4'-DDD	23		13.3	27.1		ug/Kg		32	10 - 150

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-232505-G-1-A MS
Matrix: Solid
Analysis Batch: 527335

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 526983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan I	ND		13.3	13.1		ug/Kg		99	10 - 150
Endosulfan II	ND		13.3	9.90		ug/Kg		75	10 - 150
alpha-BHC	ND		13.3	9.52		ug/Kg		72	12 - 125
beta-BHC	ND		13.3	9.21		ug/Kg		69	10 - 150
gamma-BHC (Lindane)	ND		13.3	8.49		ug/Kg		64	20 - 119
delta-BHC	ND		13.3	8.98	J	ug/Kg		68	12 - 130
Endosulfan sulfate	ND		13.3	7.40	J	ug/Kg		56	10 - 150
Methoxychlor	ND		13.3	8.66		ug/Kg		65	10 - 150
alpha-Chlordane	5.7	p	13.3	15.1	p	ug/Kg		71	10 - 150
gamma-Chlordane	18		13.3	27.7		ug/Kg		76	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*66*		*21 - 117*

Lab Sample ID: 440-232505-G-1-B MSD
Matrix: Solid
Analysis Batch: 527335

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 526983

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.0	9.70		ug/Kg		75	10 - 150	6	26
Dieldrin	66	E	13.0	67.8	E 4	ug/Kg		17	10 - 150	8	28
Endrin aldehyde	ND		13.0	7.45		ug/Kg		57	10 - 131	8	33
Endrin	ND		13.0	10.4		ug/Kg		80	10 - 150	8	27
Endrin ketone	ND		13.0	7.88		ug/Kg		61	10 - 134	17	40
Heptachlor	ND		13.0	8.97		ug/Kg		69	10 - 150	6	28
Heptachlor epoxide	ND		13.0	11.0		ug/Kg		85	10 - 150	6	25
4,4'-DDT	13		13.0	20.4		ug/Kg		59	13 - 141	11	26
4,4'-DDE	140	E	13.0	137	E 4	ug/Kg		-19	10 - 150	4	40
4,4'-DDD	23		13.0	25.0		ug/Kg		17	10 - 150	8	26
Endosulfan I	ND		13.0	12.2		ug/Kg		94	10 - 150	7	32
Endosulfan II	ND		13.0	9.40		ug/Kg		72	10 - 150	5	25
alpha-BHC	ND		13.0	8.87		ug/Kg		68	12 - 125	7	18
beta-BHC	ND		13.0	8.73		ug/Kg		67	10 - 150	5	33
gamma-BHC (Lindane)	ND		13.0	8.19		ug/Kg		63	20 - 119	4	24
delta-BHC	ND		13.0	8.64	J	ug/Kg		66	12 - 130	4	35
Endosulfan sulfate	ND		13.0	7.06	J	ug/Kg		54	10 - 150	5	35
Methoxychlor	ND		13.0	7.48		ug/Kg		57	10 - 150	15	34
alpha-Chlordane	5.7	p	13.0	13.9	p	ug/Kg		63	10 - 150	8	40
gamma-Chlordane	18		13.0	25.3		ug/Kg		59	10 - 150	9	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*61*		*21 - 117*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91105-E-1-D MS
Matrix: Solid
Analysis Batch: 527580

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 527345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		13.2	10.1		ug/Kg		77	10 - 150
Dieldrin	ND		13.2	9.13		ug/Kg		69	10 - 150
Endrin aldehyde	ND		13.2	9.93		ug/Kg		75	10 - 131
Endrin	ND		13.2	9.98		ug/Kg		76	10 - 150
Endrin ketone	ND		13.2	7.51		ug/Kg		57	10 - 134
Heptachlor	ND		13.2	8.51		ug/Kg		65	10 - 150
Heptachlor epoxide	ND		13.2	12.0		ug/Kg		91	10 - 150
4,4'-DDT	3.3	J	13.2	10.3		ug/Kg		53	13 - 141
4,4'-DDE	2.7	J	13.2	12.7		ug/Kg		76	10 - 150
4,4'-DDD	ND		13.2	8.99		ug/Kg		68	10 - 150
Endosulfan I	ND		13.2	8.67		ug/Kg		66	10 - 150
Endosulfan II	ND		13.2	11.9		ug/Kg		90	10 - 150
alpha-BHC	ND		13.2	9.98		ug/Kg		76	12 - 125
beta-BHC	ND		13.2	12.0		ug/Kg		91	10 - 150
gamma-BHC (Lindane)	ND		13.2	9.38		ug/Kg		71	20 - 119
delta-BHC	ND		13.2	7.40	J	ug/Kg		56	12 - 130
Endosulfan sulfate	ND		13.2	12.1		ug/Kg		92	10 - 150
Methoxychlor	ND		13.2	8.33		ug/Kg		63	10 - 150
alpha-Chlordane	ND		13.2	8.04		ug/Kg		61	10 - 150
gamma-Chlordane	ND		13.2	11.2		ug/Kg		85	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*63*		*21 - 117*

Lab Sample ID: 720-91105-E-1-E MSD
Matrix: Solid
Analysis Batch: 527580

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 527345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.1	10.4		ug/Kg		79	10 - 150	2	26
Dieldrin	ND		13.1	9.75		ug/Kg		74	10 - 150	7	28
Endrin aldehyde	ND		13.1	10.7		ug/Kg		81	10 - 131	7	33
Endrin	ND		13.1	9.95		ug/Kg		76	10 - 150	0	27
Endrin ketone	ND		13.1	7.52		ug/Kg		57	10 - 134	0	40
Heptachlor	ND		13.1	8.33		ug/Kg		63	10 - 150	2	28
Heptachlor epoxide	ND		13.1	12.4		ug/Kg		94	10 - 150	3	25
4,4'-DDT	3.3	J	13.1	9.51		ug/Kg		47	13 - 141	8	26
4,4'-DDE	2.7	J	13.1	13.4		ug/Kg		81	10 - 150	5	40
4,4'-DDD	ND		13.1	9.73		ug/Kg		74	10 - 150	8	26
Endosulfan I	ND		13.1	8.99		ug/Kg		68	10 - 150	4	32
Endosulfan II	ND		13.1	9.37		ug/Kg		71	10 - 150	24	25
alpha-BHC	ND		13.1	10.2		ug/Kg		77	12 - 125	2	18
beta-BHC	ND		13.1	13.9		ug/Kg		106	10 - 150	14	33
gamma-BHC (Lindane)	ND		13.1	9.54		ug/Kg		73	20 - 119	2	24
delta-BHC	ND		13.1	7.37	J	ug/Kg		56	12 - 130	0	35
Endosulfan sulfate	ND		13.1	12.8		ug/Kg		97	10 - 150	5	35
Methoxychlor	ND		13.1	7.90		ug/Kg		60	10 - 150	5	34

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91105-E-1-E MSD
Matrix: Solid
Analysis Batch: 527580

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 527345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-Chlordane	ND		13.1	8.19		ug/Kg		62	10 - 150	2	40
gamma-Chlordane	ND		13.1	12.1		ug/Kg		92	10 - 150	7	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*108*		*21 - 117*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-526869/1-A
Matrix: Solid
Analysis Batch: 527127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1221	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1232	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1242	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1248	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1254	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1
Aroclor 1260	ND		50	17	ug/Kg		02/05/19 13:19	02/06/19 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*02/05/19 13:19*	*02/06/19 16:10*	*1*

Lab Sample ID: LCS 440-526869/2-A
Matrix: Solid
Analysis Batch: 527127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	239		ug/Kg		90	65 - 115
Aroclor 1260	267	267		ug/Kg		100	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 527127

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	200		ug/Kg		75	50 - 120
Aroclor 1260	22	J	266	228		ug/Kg		77	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 527127

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 526869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		263	166		ug/Kg		63	50 - 120	19	30
Aroclor 1260	22	J	263	180		ug/Kg		60	50 - 125	23	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*

Lab Sample ID: MB 440-527345/1-A
Matrix: Solid
Analysis Batch: 527620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1221	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1232	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1242	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1248	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1254	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1260	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*02/07/19 11:12*	*02/08/19 13:28*	*1*

Lab Sample ID: LCS 440-527345/5-A
Matrix: Solid
Analysis Batch: 527416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527345

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			267	256		ug/Kg		96	65 - 115
Aroclor 1260			267	266		ug/Kg		100	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*45 - 120*

Lab Sample ID: 720-91105-E-1-F MS
Matrix: Solid
Analysis Batch: 527416

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 527345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND	F1	265	113	F1	ug/Kg		43	50 - 120
Aroclor 1260	29	J F1	265	116	F1	ug/Kg		33	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-91105-E-1-G MSD
Matrix: Solid
Analysis Batch: 527416

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 527345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	F1	262	112	F1	ug/Kg		43	50 - 120	1	30
Aroclor 1260	29	J F1	262	112	F1	ug/Kg		32	50 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259517/1-A
Matrix: Solid
Analysis Batch: 259732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.209	J	0.50	0.083	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Arsenic	ND		1.0	0.085	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Barium	0.0931	J	0.50	0.071	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Beryllium	ND		0.10	0.033	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Cadmium	ND		0.13	0.012	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Chromium	ND		0.50	0.053	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Cobalt	ND		0.20	0.020	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Copper	ND		1.5	0.71	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Lead	ND		0.50	0.11	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Nickel	ND		0.50	0.051	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Selenium	ND		1.0	0.15	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Silver	0.141	J	0.25	0.051	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Vanadium	ND		0.50	0.068	mg/Kg		02/01/19 17:30	02/02/19 17:29	1
Zinc	ND		1.5	0.64	mg/Kg		02/01/19 17:30	02/02/19 17:29	1

Lab Sample ID: MB 720-259517/1-A
Matrix: Solid
Analysis Batch: 259834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.15	mg/Kg		02/01/19 17:30	02/05/19 11:48	1

Lab Sample ID: LCS 720-259517/2-A
Matrix: Solid
Analysis Batch: 259732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	54.1		mg/Kg		108	80 - 120
Arsenic	50.0	57.0		mg/Kg		114	80 - 120
Barium	50.0	55.6		mg/Kg		111	80 - 120
Beryllium	50.0	55.4		mg/Kg		111	80 - 120
Cadmium	50.0	56.7		mg/Kg		113	80 - 120
Chromium	50.0	57.4		mg/Kg		115	80 - 120
Cobalt	50.0	57.8		mg/Kg		116	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259517/2-A
Matrix: Solid
Analysis Batch: 259732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	50.0	56.5		mg/Kg		113	80 - 120
Lead	50.0	57.5		mg/Kg		115	80 - 120
Molybdenum	50.0	58.0		mg/Kg		116	80 - 120
Nickel	50.0	57.3		mg/Kg		115	80 - 120
Selenium	50.0	54.8		mg/Kg		110	80 - 120
Silver	25.0	27.3		mg/Kg		109	80 - 120
Vanadium	50.0	57.1		mg/Kg		114	80 - 120
Zinc	50.0	56.7		mg/Kg		113	80 - 120

Lab Sample ID: LCS 720-259517/2-A
Matrix: Solid
Analysis Batch: 259834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	50.1		mg/Kg		100	80 - 120

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 259732

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 259517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.5	F1 B	38.5	9.88	F1	mg/Kg		19	75 - 125
Arsenic	9.1		38.5	50.8		mg/Kg		109	75 - 125
Barium	96	F1 B F2	38.5	308	F1	mg/Kg		552	75 - 125
Beryllium	ND		38.5	38.7		mg/Kg		100	75 - 125
Cadmium	1.2		38.5	41.1		mg/Kg		104	75 - 125
Chromium	26		38.5	71.4		mg/Kg		117	75 - 125
Cobalt	8.5		38.5	47.9		mg/Kg		103	75 - 125
Copper	140	F1	38.5	215	F1	mg/Kg		189	75 - 125
Lead	220		38.5	284	4	mg/Kg		170	75 - 125
Molybdenum	2.4		38.5	40.8		mg/Kg		100	75 - 125
Nickel	29		38.5	77.4		mg/Kg		125	75 - 125
Selenium	1.6	J	38.5	38.4		mg/Kg		96	75 - 125
Silver	0.47	J B	19.2	19.9		mg/Kg		101	75 - 125
Vanadium	52		38.5	85.6		mg/Kg		89	75 - 125
Zinc	240	B	38.5	371	4 B	mg/Kg		337	75 - 125

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 259834

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 259517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		38.5	34.5		mg/Kg		90	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 259732

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 259517

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.5	F1 B	38.5	10.2	F1	mg/Kg		20	75 - 125	4	20
Arsenic	9.1		38.5	56.1		mg/Kg		122	75 - 125	10	20
Barium	96	F1 B F2	38.5	191	F1 F2	mg/Kg		247	75 - 125	47	20
Beryllium	ND		38.5	40.5		mg/Kg		105	75 - 125	5	20
Cadmium	1.2		38.5	42.6		mg/Kg		108	75 - 125	4	20
Chromium	26		38.5	68.9		mg/Kg		111	75 - 125	4	20
Cobalt	8.5		38.5	51.2		mg/Kg		111	75 - 125	7	20
Copper	140	F1	38.5	182		mg/Kg		103	75 - 125	17	20
Lead	220		38.5	263	4	mg/Kg		115	75 - 125	8	20
Molybdenum	2.4		38.5	43.6		mg/Kg		107	75 - 125	7	20
Nickel	29		38.5	73.4		mg/Kg		115	75 - 125	5	20
Selenium	1.6	J	38.5	40.0		mg/Kg		100	75 - 125	4	20
Silver	0.47	J B	19.2	20.7		mg/Kg		105	75 - 125	4	20
Vanadium	52		38.5	90.2		mg/Kg		101	75 - 125	5	20
Zinc	240	B	38.5	342	4 B	mg/Kg		261	75 - 125	8	20

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 259834

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 259517

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		38.5	36.6		mg/Kg		95	75 - 125	6	20

Lab Sample ID: MB 720-259560/1-A
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Arsenic	ND		1.0	0.085	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Barium	ND		0.50	0.071	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Beryllium	ND		0.10	0.033	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Cadmium	ND		0.13	0.012	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Chromium	0.0547	J	0.50	0.053	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Cobalt	ND		0.20	0.020	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Copper	ND		1.5	0.71	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Lead	0.257	J	0.50	0.11	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Nickel	ND		0.50	0.051	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Selenium	0.153	J	1.0	0.15	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Silver	ND		0.25	0.051	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Thallium	ND		0.50	0.15	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Vanadium	ND		0.50	0.068	mg/Kg		01/31/19 10:54	02/11/19 16:33	1
Zinc	ND		1.5	0.64	mg/Kg		01/31/19 10:54	02/11/19 16:33	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259560/2-A
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.7		mg/Kg		99	80 - 120
Arsenic	50.0	49.2		mg/Kg		98	80 - 120
Barium	50.0	51.1		mg/Kg		102	80 - 120
Beryllium	50.0	50.4		mg/Kg		101	80 - 120
Cadmium	50.0	49.9		mg/Kg		100	80 - 120
Chromium	50.0	51.2		mg/Kg		102	80 - 120
Cobalt	50.0	50.3		mg/Kg		101	80 - 120
Copper	50.0	52.4		mg/Kg		105	80 - 120
Lead	50.0	51.5		mg/Kg		103	80 - 120
Molybdenum	50.0	50.3		mg/Kg		101	80 - 120
Nickel	50.0	50.5		mg/Kg		101	80 - 120
Selenium	50.0	48.7		mg/Kg		97	80 - 120
Silver	25.0	26.5		mg/Kg		106	80 - 120
Thallium	50.0	50.6		mg/Kg		101	80 - 120
Vanadium	50.0	51.0		mg/Kg		102	80 - 120
Zinc	50.0	50.4		mg/Kg		101	80 - 120

Lab Sample ID: 720-91087-A-21-A MS
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	43	F1	36.5	51.8	F1	mg/Kg		24	75 - 125
Arsenic	25	F1	36.5	67.5		mg/Kg		117	75 - 125
Barium	970		36.5	1470	4	mg/Kg		1360	75 - 125
Beryllium	0.46		36.5	43.6		mg/Kg		118	75 - 125
Cadmium	4.0		36.5	41.0		mg/Kg		101	75 - 125
Chromium	57	B F1	36.5	114	F1	mg/Kg		156	75 - 125
Cobalt	11		36.5	48.5		mg/Kg		103	75 - 125
Copper	910	F2	36.5	2840	4	mg/Kg		5283	75 - 125
Lead	3900	B F2	36.5	5890	4	mg/Kg		5372	75 - 125
Molybdenum	1.1	J	36.5	38.1		mg/Kg		101	75 - 125
Nickel	91	F1 F2	36.5	208	F1	mg/Kg		321	75 - 125
Selenium	ND		36.5	33.7		mg/Kg		92	75 - 125
Silver	5.7	F1	18.2	37.7	F1	mg/Kg		176	75 - 125
Thallium	ND		36.5	32.5		mg/Kg		89	75 - 125
Vanadium	33	F1	36.5	85.3	F1	mg/Kg		142	75 - 125
Zinc	2300		36.5	2910	4	mg/Kg		1547	75 - 125

Lab Sample ID: 720-91087-A-21-B MSD
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	43	F1	36.5	63.1	F1	mg/Kg		55	75 - 125	20	20
Arsenic	25	F1	36.5	72.0	F1	mg/Kg		129	75 - 125	6	20
Barium	970		36.5	1380	4	mg/Kg		1113	75 - 125	6	20
Beryllium	0.46		36.5	43.8		mg/Kg		119	75 - 125	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91087-A-21-B MSD
Matrix: Solid
Analysis Batch: 260183

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	4.0		36.5	42.2		mg/Kg		105	75 - 125	3	20
Chromium	57	B F1	36.5	113	F1	mg/Kg		154	75 - 125	1	20
Cobalt	11		36.5	50.8		mg/Kg		110	75 - 125	5	20
Copper	910	F2	36.5	1650	4 F2	mg/Kg		2017	75 - 125	53	20
Lead	3900	B F2	36.5	4030	4 F2	mg/Kg		279	75 - 125	37	20
Molybdenum	1.1	J	36.5	38.5		mg/Kg		102	75 - 125	1	20
Nickel	91	F1 F2	36.5	138	F1 F2	mg/Kg		131	75 - 125	40	20
Selenium	ND		36.5	31.9		mg/Kg		87	75 - 125	6	20
Silver	5.7	F1	18.2	31.0	F1	mg/Kg		139	75 - 125	20	20
Thallium	ND		36.5	33.0		mg/Kg		90	75 - 125	2	20
Vanadium	33	F1	36.5	88.2	F1	mg/Kg		150	75 - 125	3	20
Zinc	2300		36.5	3200	4	mg/Kg		2352	75 - 125	10	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259561/1-A
Matrix: Solid
Analysis Batch: 260353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/12/19 15:02	02/13/19 17:31	1

Lab Sample ID: LCS 720-259561/2-A
Matrix: Solid
Analysis Batch: 260353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.796		mg/Kg		96	80 - 120

Lab Sample ID: 720-91087-A-21-D MS
Matrix: Solid
Analysis Batch: 260353

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.90		0.806	1.69		mg/Kg		99	75 - 125

Lab Sample ID: 720-91087-A-21-E MSD
Matrix: Solid
Analysis Batch: 260353

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.90		0.806	1.55		mg/Kg		82	75 - 125	8	20

Lab Sample ID: MB 720-259564/1-A
Matrix: Solid
Analysis Batch: 260058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/08/19 09:15	02/08/19 13:54	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-259564/2-A
Matrix: Solid
Analysis Batch: 260058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.765		mg/Kg		92	80 - 120		

Lab Sample ID: 720-91089-9 MS
Matrix: Solid
Analysis Batch: 260058

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 259564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.34		0.714	1.01		mg/Kg		95	75 - 125		

Lab Sample ID: 720-91089-9 MSD
Matrix: Solid
Analysis Batch: 260058

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA
Prep Batch: 259564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.34		0.714	1.02		mg/Kg		96	75 - 125	1	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91089-9 DU
Matrix: Solid
Analysis Batch: 528341

Client Sample ID: DG-AL5S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.2			13.2		%				0.3	20

GC/MS VOA

Analysis Batch: 526258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	8260B	526365
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	8260B	526365
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	8260B	526365
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	8260B	526365
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	8260B	526365
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	8260B	526365
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	8260B	526365
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	8260B	526365
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	8260B	526365
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	8260B	526365
MB 440-526258/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526258/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526258/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 526259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
MB 440-526259/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526259/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-526259/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 526365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	5035	
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	5035	
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	5035	
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	5035	
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	5035	
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	5035	
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	5035	
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	5035	
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 526365 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	5035	
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	5035	
720-91089-12	DUP-33	Total/NA	Solid	5035	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	5035	
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 526931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	8260B	526365
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	8260B	526955
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	8260B	526955
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	8260B	526955
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	8260B	526955
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	8260B	526955
MB 440-526931/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-526931/27	Lab Control Sample	Total/NA	Solid	8260B	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	8260B	526365
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	8260B	526365

Analysis Batch: 526932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526955
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526955
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526955
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526955
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526955
MB 440-526932/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526932/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526365

Prep Batch: 526955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	5035	
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	5035	
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	5035	
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	5035	
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 526986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-12	DUP-33	Total/NA	Solid	8260B	526365

GC/MS VOA (Continued)

Analysis Batch: 526986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-526986/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-526986/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526986/13	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 526987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-12	DUP-33	Total/NA	Solid	8260B/CA_LUFT MS	526365
MB 440-526987/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526987/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-526987/14	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 527862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-21	FB-01.30.19	Total/NA	Water	8260B	
720-91089-22	TB-01.30.19	Total/NA	Water	8260B	
MB 440-527862/4	Method Blank	Total/NA	Water	8260B	
LCS 440-527862/5	Lab Control Sample	Total/NA	Water	8260B	
440-231822-F-22 MS	Matrix Spike	Total/NA	Water	8260B	
440-231822-F-22 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 527863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-21	FB-01.30.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91089-22	TB-01.30.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-527863/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-527863/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-231822-F-22 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-231822-F-22 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 526740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	3546	
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	3546	
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	3546	
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	3546	
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	3546	
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	3546	
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	3546	
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	3546	
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	3546	
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 526740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	3546	
720-91089-12	DUP-33	Total/NA	Solid	3546	
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	3546	
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	3546	
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	3546	
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	3546	
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	3546	
MB 440-526740/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526740/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	3546	
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 527041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	8270C SIM	526740
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	8270C SIM	526740
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	8270C SIM	526740
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	8270C SIM	526740
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	8270C SIM	526740
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	8270C SIM	526740
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	8270C SIM	526740
720-91089-12	DUP-33	Total/NA	Solid	8270C SIM	526740
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	8270C SIM	526740
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	8270C SIM	526740

Analysis Batch: 527279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	8270C SIM	526740
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	8270C SIM	526740
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	8270C SIM	526740
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	8270C SIM	526740
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	8270C SIM	526740

Analysis Batch: 527282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	8270C SIM	526740
MB 440-526740/1-A	Method Blank	Total/NA	Solid	8270C SIM	526740
LCS 440-526740/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	526740

Analysis Batch: 527530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	8270C SIM	526740

Analysis Batch: 527818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	8270C SIM	526740
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	8270C SIM	526740

GC Semi VOA

Prep Batch: 526522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	3546	
MB 440-526522/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526522/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-232051-E-1-A MS	Matrix Spike	Total/NA	Solid	3546	
440-232051-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 526524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	3546	
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	3546	
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	3546	
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	3546	
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	3546	
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	3546	
MB 440-526524/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526524/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-232028-A-1-A MS	Matrix Spike	Total/NA	Solid	3546	
440-232028-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 526643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	8015B	526522
MB 440-526522/1-A	Method Blank	Total/NA	Solid	8015B	526522
LCS 440-526522/2-A	Lab Control Sample	Total/NA	Solid	8015B	526522
440-232051-E-1-A MS	Matrix Spike	Total/NA	Solid	8015B	526522
440-232051-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	526522

Analysis Batch: 526644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	8015B	526524
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	8015B	526524
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	8015B	526524
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	8015B	526524
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	8015B	526524
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	8015B	526524
MB 440-526524/1-A	Method Blank	Total/NA	Solid	8015B	526524
LCS 440-526524/2-A	Lab Control Sample	Total/NA	Solid	8015B	526524
440-232028-A-1-A MS	Matrix Spike	Total/NA	Solid	8015B	526524
440-232028-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	526524

Prep Batch: 526663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	3546	
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	3546	
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	3546	
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	3546	
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	3546	
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	3546	
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	3546	
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	3546	
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 526663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	3546	
MB 440-526663/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526663/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	3546	
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 526811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	8081A	526663
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	8081A	526663
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	8081A	526663
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	8081A	526663

Analysis Batch: 526813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	8081A	526663
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	8081A	526663
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	8081A	526663
MB 440-526663/1-A	Method Blank	Total/NA	Solid	8081A	526663
LCS 440-526663/2-A	Lab Control Sample	Total/NA	Solid	8081A	526663
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	8081A	526663
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	8081A	526663

Prep Batch: 526869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	3546	
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	3546	
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	3546	
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	3546	
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	3546	
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	3546	
720-91089-7 - DL	DG-AJ9S-0.5-1	Total/NA	Solid	3546	
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	3546	
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	3546	
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	3546	
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	3546	
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	3546	
720-91089-12	DUP-33	Total/NA	Solid	3546	
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	3546	
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	3546	
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	3546	
MB 440-526869/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526869/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	3546	
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 526983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	3546	
720-91089-12	DUP-33	Total/NA	Solid	3546	
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 526983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	3546	
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	3546	
MB 440-526983/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526983/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-232505-G-1-A MS	Matrix Spike	Total/NA	Solid	3546	
440-232505-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 526992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	3546	
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	3546	
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	3546	
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	3546	
720-91089-12	DUP-33	Total/NA	Solid	3546	
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	3546	
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	3546	
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	3546	
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	3546	
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	3546	
MB 440-526992/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526992/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	3546	
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 527063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	8081A	526663
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	8081A	526663
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	8081A	526663

Analysis Batch: 527064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	8081A	526983
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	8081A	526983
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	8081A	526983
MB 440-526983/1-A	Method Blank	Total/NA	Solid	8081A	526983
LCS 440-526983/2-A	Lab Control Sample	Total/NA	Solid	8081A	526983

Analysis Batch: 527127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	8082	526869
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	8082	526869
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	8082	526869
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	8082	526869
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	8082	526869
720-91089-12	DUP-33	Total/NA	Solid	8082	526869
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	8082	526869
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	8082	526869
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	8082	526869
MB 440-526869/1-A	Method Blank	Total/NA	Solid	8082	526869
LCS 440-526869/2-A	Lab Control Sample	Total/NA	Solid	8082	526869

GC Semi VOA (Continued)

Analysis Batch: 527127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	8082	526869
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	8082	526869

Analysis Batch: 527137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	8015B	526992
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	8015B	526992
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	8015B	526992
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	8015B	526992
720-91089-12	DUP-33	Total/NA	Solid	8015B	526992
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	8015B	526992
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	8015B	526992
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	8015B	526992
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	8015B	526992
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	8015B	526992
MB 440-526992/1-A	Method Blank	Total/NA	Solid	8015B	526992
LCS 440-526992/2-A	Lab Control Sample	Total/NA	Solid	8015B	526992
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	8015B	526992
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	8015B	526992

Analysis Batch: 527335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-12	DUP-33	Total/NA	Solid	8081A	526983
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	8081A	526983
440-232505-G-1-A MS	Matrix Spike	Total/NA	Solid	8081A	526983
440-232505-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	526983

Prep Batch: 527345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-16 - DL	DG-AT9S-0.5-1	Total/NA	Solid	3546	
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	3546	
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	3546	
MB 440-527345/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-527345/5-A	Lab Control Sample	Total/NA	Solid	3546	
720-91105-E-1-D MS	Matrix Spike	Total/NA	Solid	3546	
720-91105-E-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
720-91105-E-1-F MS	Matrix Spike	Total/NA	Solid	3546	
720-91105-E-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 527416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	8082	526869
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	8082	526869
720-91089-7 - DL	DG-AJ9S-0.5-1	Total/NA	Solid	8082	526869
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	8082	526869
LCS 440-527345/5-A	Lab Control Sample	Total/NA	Solid	8082	527345
720-91105-E-1-F MS	Matrix Spike	Total/NA	Solid	8082	527345
720-91105-E-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	527345

GC Semi VOA (Continued)

Analysis Batch: 527580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	8081A	527345
720-91089-16 - DL	DG-AT9S-0.5-1	Total/NA	Solid	8081A	527345
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	8081A	527345
720-91105-E-1-D MS	Matrix Spike	Total/NA	Solid	8081A	527345
720-91105-E-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	527345

Analysis Batch: 527620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	8082	526869
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	8082	526869
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	8082	526869
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	8082	527345
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	8082	527345
MB 440-527345/1-A	Method Blank	Total/NA	Solid	8082	527345

Metals

Prep Batch: 259517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	3050B	
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	3050B	
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	3050B	
MB 720-259517/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259517/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	3050B	
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	3050B	
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	3050B	
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	3050B	
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	3050B	
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	3050B	
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	3050B	
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	3050B	
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	3050B	
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	3050B	
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	3050B	
720-91089-12	DUP-33	Total/NA	Solid	3050B	
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	3050B	
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	3050B	
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	3050B	
MB 720-259560/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259560/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91087-A-21-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-91087-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 259561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	7471A	
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	7471A	
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	7471A	
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	7471A	
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	7471A	
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	7471A	
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	7471A	
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	7471A	
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	7471A	
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	7471A	
720-91089-12	DUP-33	Total/NA	Solid	7471A	
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	7471A	
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	7471A	
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	7471A	
MB 720-259561/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259561/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91087-A-21-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-91087-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	7471A	
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	7471A	
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	7471A	
MB 720-259564/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259564/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	7471A	
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	7471A	

Analysis Batch: 259732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	6010B	259517
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	6010B	259517
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	6010B	259517
MB 720-259517/1-A	Method Blank	Total/NA	Solid	6010B	259517
LCS 720-259517/2-A	Lab Control Sample	Total/NA	Solid	6010B	259517
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	6010B	259517
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	6010B	259517

Analysis Batch: 259834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	6010B	259517
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	6010B	259517
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	6010B	259517
MB 720-259517/1-A	Method Blank	Total/NA	Solid	6010B	259517
LCS 720-259517/2-A	Lab Control Sample	Total/NA	Solid	6010B	259517
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	6010B	259517
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	6010B	259517

Metals (Continued)

Analysis Batch: 260058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	7471A	259564
MB 720-259564/1-A	Method Blank	Total/NA	Solid	7471A	259564
LCS 720-259564/2-A	Lab Control Sample	Total/NA	Solid	7471A	259564
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	7471A	259564
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	7471A	259564

Analysis Batch: 260135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	7471A	259564
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	7471A	259564

Analysis Batch: 260183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	6010B	259560
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	6010B	259560
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	6010B	259560
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	6010B	259560
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	6010B	259560
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	6010B	259560
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	6010B	259560
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	6010B	259560
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	6010B	259560
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	6010B	259560
720-91089-12	DUP-33	Total/NA	Solid	6010B	259560
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	6010B	259560
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	6010B	259560
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	6010B	259560
MB 720-259560/1-A	Method Blank	Total/NA	Solid	6010B	259560
LCS 720-259560/2-A	Lab Control Sample	Total/NA	Solid	6010B	259560
720-91087-A-21-A MS	Matrix Spike	Total/NA	Solid	6010B	259560
720-91087-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259560

Analysis Batch: 260311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	6010B	259560
720-91089-12	DUP-33	Total/NA	Solid	6010B	259560
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	6010B	259560
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	6010B	259560
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	6010B	259560

Analysis Batch: 260353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	7471A	259561
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	7471A	259561
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	7471A	259561
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	7471A	259561
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	7471A	259561
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	7471A	259561
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	7471A	259561
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	7471A	259561
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	7471A	259561

Metals (Continued)

Analysis Batch: 260353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	7471A	259561
720-91089-12	DUP-33	Total/NA	Solid	7471A	259561
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	7471A	259561
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	7471A	259561
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	7471A	259561
MB 720-259561/1-A	Method Blank	Total/NA	Solid	7471A	259561
LCS 720-259561/2-A	Lab Control Sample	Total/NA	Solid	7471A	259561
720-91087-A-21-D MS	Matrix Spike	Total/NA	Solid	7471A	259561
720-91087-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259561

General Chemistry

Analysis Batch: 528341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91089-1	DG-AG7S-0.5-1	Total/NA	Solid	Moisture	
720-91089-2	DG-AG7S-3.5-4	Total/NA	Solid	Moisture	
720-91089-3	DG-AB9S-0.5-1	Total/NA	Solid	Moisture	
720-91089-4	DG-AB9S-3.5-4	Total/NA	Solid	Moisture	
720-91089-5	DG-AH9S-0.5-1	Total/NA	Solid	Moisture	
720-91089-6	DG-AH9S-3.5-4	Total/NA	Solid	Moisture	
720-91089-7	DG-AJ9S-0.5-1	Total/NA	Solid	Moisture	
720-91089-8	DG-AJ9S-3.5-4	Total/NA	Solid	Moisture	
720-91089-9	DG-AL5S-0.5-1	Total/NA	Solid	Moisture	
720-91089-10	DG-AL5S-3.5-4	Total/NA	Solid	Moisture	
720-91089-11	DG-AQ7S-0.5-1	Total/NA	Solid	Moisture	
720-91089-12	DUP-33	Total/NA	Solid	Moisture	
720-91089-13	DG-AQ7S-3.5-4	Total/NA	Solid	Moisture	
720-91089-14	DG-AQ11S-0.5-1	Total/NA	Solid	Moisture	
720-91089-15	DG-AQ11S-3.5-4	Total/NA	Solid	Moisture	
720-91089-16	DG-AT9S-0.5-1	Total/NA	Solid	Moisture	
720-91089-17	DG-AT9S-3.5-4	Total/NA	Solid	Moisture	
720-91089-9 MS	DG-AL5S-0.5-1	Total/NA	Solid	Moisture	
720-91089-9 MSD	DG-AL5S-0.5-1	Total/NA	Solid	Moisture	
720-91089-9 DU	DG-AL5S-0.5-1	Total/NA	Solid	Moisture	

Client Sample ID: DG-AG7S-0.5-1

Lab Sample ID: 720-91089-1

Date Collected: 01/30/19 09:10

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 14:27	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 14:27	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 18:31	L1B	TAL IRV
Total/NA	Prep	3546			526524	02/04/19 06:18	L1A	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/04/19 22:44	MPD	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526813	02/05/19 18:56	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 14:00	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:40	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 17:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AG7S-3.5-4

Lab Sample ID: 720-91089-2

Date Collected: 01/30/19 09:10

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 14:52	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 14:52	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 18:54	L1B	TAL IRV
Total/NA	Prep	3546			526524	02/04/19 06:18	L1A	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 01:35	MPD	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	527063	02/06/19 15:10	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 14:40	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:44	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AB9S-0.5-1

Lab Sample ID: 720-91089-3

Date Collected: 01/30/19 10:20

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 15:17	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 15:17	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 19:17	L1B	TAL IRV
Total/NA	Prep	3546			526524	02/04/19 06:18	L1A	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/04/19 23:27	MPD	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526813	02/05/19 19:48	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 17:43	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:49	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AB9S-3.5-4

Lab Sample ID: 720-91089-4

Date Collected: 01/30/19 10:20

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 15:41	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 15:41	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 19:40	L1B	TAL IRV
Total/NA	Prep	3546			526524	02/04/19 06:18	L1A	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/04/19 20:14	MPD	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526811	02/05/19 22:08	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 17:57	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260183	02/11/19 17:54	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:06	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AH9S-0.5-1

Lab Sample ID: 720-91089-5

Date Collected: 01/30/19 10:40

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 16:06	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 16:06	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 20:02	L1B	TAL IRV
Total/NA	Prep	3546			526524	02/04/19 06:18	L1A	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 00:31	MPD	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526811	02/05/19 22:23	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 14:13	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 17:59	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AH9S-3.5-4

Lab Sample ID: 720-91089-6

Date Collected: 01/30/19 10:40

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 16:30	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 16:30	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527818	02/10/19 20:34	L1B	TAL IRV
Total/NA	Prep	3546			526524	02/04/19 06:18	L1A	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/04/19 22:23	MPD	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	527063	02/06/19 15:25	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 14:53	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 18:03	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Client Sample ID: DG-AJ9S-0.5-1

Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 16:55	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 16:55	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527818	02/10/19 20:57	L1B	TAL IRV
Total/NA	Prep	3546			526522	02/04/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8015B		1	526643	02/04/19 19:39	LMB	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526811	02/05/19 22:38	D1D	TAL IRV
Total/NA	Prep	3546	DL		526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082	DL	3	527416	02/07/19 15:07	JM	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 18:37	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 18:08	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AJ9S-3.5-4

Date Collected: 01/30/19 11:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 17:19	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 17:19	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 15:36	L1B	TAL IRV
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/06/19 17:29	MPD	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	527063	02/06/19 15:39	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 15:20	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 18:13	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AL5S-0.5-1

Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526931	02/05/19 20:41	GMA	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526932	02/05/19 20:41	GMA	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 20:25	L1B	TAL IRV
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/06/19 16:25	MPD	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526813	02/05/19 18:05	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 14:27	JM	TAL IRV
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 18:36	OBI	TAL PLS
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259834	02/05/19 12:55	OBI	TAL PLS
Total/NA	Prep	7471A			259564	02/08/19 09:15	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260058	02/08/19 14:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AL5S-3.5-4

Date Collected: 01/30/19 11:30
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 17:44	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 17:44	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		2	527530	02/08/19 14:59	L1B	TAL IRV
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/06/19 18:33	MPD	TAL IRV
Total/NA	Prep	3546			526663	02/04/19 13:21	EGC	TAL IRV
Total/NA	Analysis	8081A		1	526811	02/05/19 22:54	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 19:03	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 18:27	OBI	TAL PLS
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260311	02/13/19 14:31	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:17	MAG	TAL PLS

Client Sample ID: DG-AL5S-3.5-4

Lab Sample ID: 720-91089-10

Date Collected: 01/30/19 11:30

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AQ7S-0.5-1

Lab Sample ID: 720-91089-11

Date Collected: 01/30/19 13:30

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526258	02/01/19 18:09	HR	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526259	02/01/19 18:09	HR	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 20:48	L1B	TAL IRV
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/06/19 19:58	MPD	TAL IRV
Total/NA	Prep	3546			526983	02/06/19 06:33	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527064	02/06/19 18:13	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 19:17	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 18:32	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DUP-33

Lab Sample ID: 720-91089-12

Date Collected: 01/30/19 00:00

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526986	02/06/19 12:04	AYL	TAL IRV
Total/NA	Prep	5035			526365	01/30/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526987	02/06/19 12:04	AYL	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 21:11	L1B	TAL IRV
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/06/19 20:41	MPD	TAL IRV
Total/NA	Prep	3546			526983	02/06/19 06:33	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527335	02/07/19 14:00	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 19:30	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS

Client Sample ID: DUP-33

Lab Sample ID: 720-91089-12

Date Collected: 01/30/19 00:00

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		4	260183	02/11/19 18:37	OBI	TAL PLS
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260311	02/13/19 14:36	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AQ7S-3.5-4

Lab Sample ID: 720-91089-13

Date Collected: 01/30/19 13:30

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B		1	526931	02/06/19 01:22	GMA	TAL IRV
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526932	02/06/19 01:22	GMA	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 21:34	L1B	TAL IRV
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/06/19 22:27	MPD	TAL IRV
Total/NA	Prep	3546			526983	02/06/19 06:33	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527064	02/06/19 18:28	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 19:43	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 18:41	OBI	TAL PLS
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260311	02/13/19 14:41	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260353	02/13/19 18:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AQ11S-0.5-1

Lab Sample ID: 720-91089-14

Date Collected: 01/30/19 14:00

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B		1	526931	02/06/19 01:47	GMA	TAL IRV
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526932	02/06/19 01:47	GMA	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527041	02/06/19 21:57	L1B	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Client Sample ID: DG-AQ11S-0.5-1

Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/06/19 21:02	MPD	TAL IRV
Total/NA	Prep	3546			526983	02/06/19 06:33	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527335	02/07/19 14:30	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 19:56	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 18:46	OBI	TAL PLS
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260311	02/13/19 14:45	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AQ11S-3.5-4

Date Collected: 01/30/19 14:00
Date Received: 01/30/19 18:45

Lab Sample ID: 720-91089-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B		1	526931	02/06/19 02:13	GMA	TAL IRV
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526932	02/06/19 02:13	GMA	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527282	02/07/19 17:32	L1B	TAL IRV
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/06/19 22:06	MPD	TAL IRV
Total/NA	Prep	3546			526983	02/06/19 06:33	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527064	02/06/19 18:43	D1D	TAL IRV
Total/NA	Prep	3546			526869	02/05/19 13:19	EGC	TAL IRV
Total/NA	Analysis	8082		1	527127	02/06/19 20:10	JM	TAL IRV
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260183	02/11/19 18:51	OBI	TAL PLS
Total/NA	Prep	3050B			259560	01/31/19 10:54	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260311	02/13/19 14:50	OBI	TAL PLS
Total/NA	Prep	7471A			259561	02/12/19 15:02	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260353	02/13/19 18:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AT9S-0.5-1

Lab Sample ID: 720-91089-16

Date Collected: 01/30/19 14:30

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B		1	526931	02/06/19 02:38	GMA	TAL IRV
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526932	02/06/19 02:38	GMA	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 16:00	L1B	TAL IRV
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/07/19 00:14	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:14	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 12:46	D1D	TAL IRV
Total/NA	Prep	3546	DL		527345	02/07/19 11:14	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5	527580	02/08/19 13:01	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:14	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 18:18	JM	TAL IRV
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259732	02/02/19 18:41	OBI	TAL PLS
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		4	259834	02/05/19 13:00	OBI	TAL PLS
Total/NA	Prep	7471A			259564	02/08/19 09:15	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260135	02/08/19 16:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: DG-AT9S-3.5-4

Lab Sample ID: 720-91089-17

Date Collected: 01/30/19 14:30

Matrix: Solid

Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B		1	526931	02/06/19 03:03	GMA	TAL IRV
Total/NA	Prep	5035			526955	02/05/19 22:14	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526932	02/06/19 03:03	GMA	TAL IRV
Total/NA	Prep	3546			526740	02/05/19 06:11	L1A	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 16:25	L1B	TAL IRV
Total/NA	Prep	3546			526992	02/06/19 07:07	L1A	TAL IRV
Total/NA	Analysis	8015B		1	527137	02/06/19 19:16	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:14	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 12:32	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:14	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 18:32	JM	TAL IRV
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		10	259732	02/02/19 18:45	OBI	TAL PLS
Total/NA	Prep	3050B			259517	02/01/19 17:30	GLL	TAL PLS
Total/NA	Analysis	6010B		20	259834	02/05/19 13:04	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Client Sample ID: DG-AT9S-3.5-4

Lab Sample ID: 720-91089-17

Date Collected: 01/30/19 14:30
Matrix: Solid
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259564	02/08/19 09:15	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260135	02/08/19 16:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	528341	02/13/19 00:22	QTN	TAL IRV

Client Sample ID: FB-01.30.19

Lab Sample ID: 720-91089-21

Date Collected: 01/30/19 00:00
Matrix: Water
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527862	02/11/19 13:43	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527863	02/11/19 13:43	WC	TAL IRV

Client Sample ID: TB-01.30.19

Lab Sample ID: 720-91089-22

Date Collected: 01/30/19 00:00
Matrix: Water
Date Received: 01/30/19 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527862	02/11/19 14:12	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527863	02/11/19 14:12	WC	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91089-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3546	Solid	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total
8270C SIM	3546	Solid	2-Methylnaphthalene
8270C SIM	3546	Solid	Acenaphthene
8270C SIM	3546	Solid	Acenaphthylene
8270C SIM	3546	Solid	Anthracene
8270C SIM	3546	Solid	Benzo[a]anthracene
8270C SIM	3546	Solid	Benzo[a]pyrene
8270C SIM	3546	Solid	Benzo[b]fluoranthene
8270C SIM	3546	Solid	Benzo[g,h,i]perylene
8270C SIM	3546	Solid	Benzo[k]fluoranthene
8270C SIM	3546	Solid	Chrysene
8270C SIM	3546	Solid	Dibenz(a,h)anthracene
8270C SIM	3546	Solid	Fluoranthene
8270C SIM	3546	Solid	Fluorene
8270C SIM	3546	Solid	Indeno[1,2,3-cd]pyrene
8270C SIM	3546	Solid	Naphthalene
8270C SIM	3546	Solid	Phenanthrene
8270C SIM	3546	Solid	Pyrene
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL IRV
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91089-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91089-1	DG-AG7S-0.5-1	Solid	01/30/19 09:10	01/30/19 18:45
720-91089-2	DG-AG7S-3.5-4	Solid	01/30/19 09:10	01/30/19 18:45
720-91089-3	DG-AB9S-0.5-1	Solid	01/30/19 10:20	01/30/19 18:45
720-91089-4	DG-AB9S-3.5-4	Solid	01/30/19 10:20	01/30/19 18:45
720-91089-5	DG-AH9S-0.5-1	Solid	01/30/19 10:40	01/30/19 18:45
720-91089-6	DG-AH9S-3.5-4	Solid	01/30/19 10:40	01/30/19 18:45
720-91089-7	DG-AJ9S-0.5-1	Solid	01/30/19 11:00	01/30/19 18:45
720-91089-8	DG-AJ9S-3.5-4	Solid	01/30/19 11:00	01/30/19 18:45
720-91089-9	DG-AL5S-0.5-1	Solid	01/30/19 11:30	01/30/19 18:45
720-91089-10	DG-AL5S-3.5-4	Solid	01/30/19 11:30	01/30/19 18:45
720-91089-11	DG-AQ7S-0.5-1	Solid	01/30/19 13:30	01/30/19 18:45
720-91089-12	DUP-33	Solid	01/30/19 00:00	01/30/19 18:45
720-91089-13	DG-AQ7S-3.5-4	Solid	01/30/19 13:30	01/30/19 18:45
720-91089-14	DG-AQ11S-0.5-1	Solid	01/30/19 14:00	01/30/19 18:45
720-91089-15	DG-AQ11S-3.5-4	Solid	01/30/19 14:00	01/30/19 18:45
720-91089-16	DG-AT9S-0.5-1	Solid	01/30/19 14:30	01/30/19 18:45
720-91089-17	DG-AT9S-3.5-4	Solid	01/30/19 14:30	01/30/19 18:45
720-91089-21	FB-01.30.19	Water	01/30/19 00:00	01/30/19 18:45
720-91089-22	TB-01.30.19	Water	01/30/19 00:00	01/30/19 18:45

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: B190681
Received:02/01/2019
Reported:2/12/2019
Analyst: Megan Fisher

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AG7S-0.5-1 (720-91089-1)	B10696	No	None Detected	0.00
DG-AG7S-3.5-4 (720-91089-2)	B10697	No	None Detected	0.00
DG-AB9S-0.5-1 (720-91089-3)	B10698	No	None Detected	0.00
DG-AB9S-3.5-4 (720-91089-4)	B10699	No	None Detected	0.00
DG-AH9S-0.5-1 (720-91089-5)	B10700	No	None Detected	0.00
DG-AH9S-3.5-4 (720-91089-6)	B10701	No	None Detected	0.00
DG-AJ9S-0.5-1 (720-91089-7)	B10702	No	None Detected	0.00
DG-AJ9S-3.5-4 (720-91089-8)	B10703	No	None Detected	0.00
DG-AL5S-0.5-1 (720-91089-9)	B10704	No	None Detected	0.00
DG-AL5S-3.5-4 (720-91089-10)	B10705	No	None Detected	0.00
DG-AQ7S-0.5-1 (720-91089-11)	B10706	No	None Detected	0.00
DUP-33(720-91089-12)	B10707	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
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Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AQ7S-3.5-4 (720-91089-13)	B10708	No	None Detected	0.00
DG-AQ11S-0.5-1 (720-91089-14)	B10709	No	None Detected	0.00
DG-AQ11S-3.5-4 (720-91089-15)	B10710	No	None Detected	0.00
DG-AT9S-0.5-1 (720-91089-16)	B10711	No	None Detected	0.00
DG-AT9S-3.5-4 (720-91089-17)	B10712	No	None Detected	0.00
DG-AV9S-0.5-1 (720-91089-18)	B10713	No	None Detected	0.00
DG-AV9S-3.5-4 (720-91089-19)	B10714	No	None Detected	0.00
DG-AV9S-7.5-8 (720-91089-20)	B10715	No	None Detected	0.00

REVIEWED BY: _____

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

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Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

Eurofins CEI, Inc.
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B1901631 (2) B10696 - ~~B1010~~ B10715

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41011.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/13/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AG7S-0.5-1 (720-91089-1)	1/30/19	09:10 Pacific		Solid			X	1	
DG-AG7S-3.5-4 (720-91089-2)	1/30/19	09:10 Pacific		Solid			X	1	
DG-AB9S-0.5-1 (720-91089-3)	1/30/19	10:20 Pacific		Solid			X	1	
DG-AB9S-3.5-4 (720-91089-4)	1/30/19	10:20 Pacific		Solid			X	1	
DG-AH9S-0.5-1 (720-91089-5)	1/30/19	10:40 Pacific		Solid			X	1	
DG-AH9S-3.5-4 (720-91089-6)	1/30/19	10:40 Pacific		Solid			X	1	
DG-AJ9S-0.5-1 (720-91089-7)	1/30/19	11:00 Pacific		Solid			X	1	
DG-AJ9S-3.5-4 (720-91089-8)	1/30/19	11:00 Pacific		Solid			X	1	
DG-AL5S-0.5-1 (720-91089-9)	1/30/19	11:30 Pacific		Solid			X	1	

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Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by: Date:	Time: Method of Shipment:

Relinquished by:	Date/Time: 1/31/19 1244	Company TAPLS	Received by:	Date/Time: 2/1/19 10:30am	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

B190691 (20)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41011.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 730 SE Maynard Rd,	Due Date Requested: 2/13/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AL5S-3.5-4 (720-91089-10)	1/30/19	11:30 Pacific		Solid			X	1	
DG-AQ7S-0.5-1 (720-91089-11)	1/30/19	13:30 Pacific		Solid			X	1	
DUP-33 (720-91089-12)	1/30/19	Pacific		Solid			X	1	
DG-AQ7S-3.5-4 (720-91089-13)	1/30/19	13:30 Pacific		Solid			X	1	
DG-AQ11S-0.5-1 (720-91089-14)	1/30/19	14:00 Pacific		Solid			X	1	
DG-AQ11S-3.5-4 (720-91089-15)	1/30/19	14:00 Pacific		Solid			X	1	
DG-AT9S-0.5-1 (720-91089-16)	1/30/19	14:30 Pacific		Solid			X	1	
DG-AT9S-3.5-4 (720-91089-17)	1/30/19	14:30 Pacific		Solid			X	1	
DG-AV9S-0.5-1 (720-91089-18)	1/30/19	15:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/31/19 1244	TRPS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

2/18/2019

B1906081

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41011.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/13/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AV9S-3.5-4 (720-91089-19)	1/30/19	15:00 Pacific		Solid			X	1	
DG-AV9S-7.5-8 (720-91089-20)	1/30/19	15:00 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/31/19 1244	TAPS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91089

Chain of Custody Record

TestAmerica
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaffman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91089 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-AG7s-0.5-1	30 Jan 2019	0910	G	S	7	N		X	X	X	X	X	X	X	
2 DG-AG7s-3.5-4		0910													
3 DG-AB9s-0.5-1		1020													
4 DG-AB9s-3.5-4		1020													
5 DG-AH9s-0.5-1		1040													
6 DG-AH9s-3.5-4		1040													
7 DG-AJ9s-0.5-1		1100													
8 DG-AJ9s-3.5-4		1100													
9 DG-AL5s-0.5-1		1130				Y									
10 DG-AL5s-3.5-4		1130													
11 DG-AQ7s-0.5-1		1330													
12 DUP-33	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.9°C, 1.0°C, 0.7°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd: ____ Therm ID No. ____			
Relinquished by	Company Geosyntec	Date/Time 16:00 29 Jan 2019	Received by	Company TA PLS	Date/Time 1-30-19 16:00
Relinquished by	Company TA PLS	Date/Time 1-30-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

9/18/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91089

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaffman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13	DG-AQ7s-3.5-4	30 Jan 2019	1330	G	S	7	N		X	X	X	X	X	X	X	
14	DG-AQ11s-0.5-1		1400													
15	DG-AQ11s-3.5-4		1400													
16	DG-AT9s-0.5-1		1430													
17	DG-AT9s-3.5-4		1430													
18	DG-AV9s-0.5-1		1500													
19	DG-AV9s-3.5-4		1500													
20	DG-AV9s-7.5-8		1500	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	
21	FB-01.30.19		—			2			X							
22	TB-01.30.19	↓	—			2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company: Geosyntec	Date/Time: 29 Jan. 2019	Received by	Company: TA-PLS	Date/Time: 1-30-19 1610
Relinquished by	Company: TA-PLS	Date/Time: 1-30-19 1845	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

720-91089
GEOSYNTEC WED.
TERRA COTES

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC02

FedEx Express Package(s) - Dropped Off
478645743171 31.3 lbs. (S)

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 30, 2019 4:51:11 PM

720-91089-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 476645743171	COC No: 720-41010.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	8082 PCB Std	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5035B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instr
DG-AG7S-0.5-1 (720-91089-1)	1/30/19	09:10 Pacific		Solid	X	X	X			4
DG-AG7S-3.5-4 (720-91089-2)	1/30/19	09:10 Pacific		Solid	X	X	X			
DG-AB9S-0.5-1 (720-91089-3)	1/30/19	10:20 Pacific		Solid	X	X	X			
DG-AB9S-3.5-4 (720-91089-4)	1/30/19	10:20 Pacific		Solid	X	X	X			
DG-AH9S-0.5-1 (720-91089-5)	1/30/19	10:40 Pacific		Solid	X	X	X			
DG-AH9S-3.5-4 (720-91089-6)	1/30/19	10:40 Pacific		Solid	X	X	X			
DG-AJ9S-0.5-1 (720-91089-7)	1/30/19	11:00 Pacific		Solid	X	X	X			
DG-AJ9S-3.5-4 (720-91089-8)	1/30/19	11:00 Pacific		Solid	X	X	X			
DG-AL5S-0.5-1 (720-91089-9)	1/30/19	11:30 Pacific		Solid	X	X	X			3

720-91089 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/DR.RICH
Relinquished by:	Date/Time: 1/30/19 16:51	Company: TA-PLS	Received by: / Date/Time: / Company:
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company:
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: 1/31/19 0945 / Company: TA IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6/1.0 IR93

Ver: 09/20/2016

Encores or Terracores Frozen
Date: 01/31/19 Time: 14:45 Initials: CC

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41010.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_PW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_PW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035B 8260-(MOD) VOCs	8260/CA_LUFTMS/5035B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AL5S-0.5-1 (720-91089-9MS)	1/30/19	11:30 Pacific	MS	Solid	X	X			2
DG-AL5S-0.5-1 (720-91089-9MSD)	1/30/19	11:30 Pacific	MSD	Solid	X	X			1
DG-AL5S-3.5-4 (720-91089-10)	1/30/19	11:30 Pacific		Solid	X	X			4
DG-AQ7S-0.5-1 (720-91089-11)	1/30/19	13:30 Pacific		Solid	X	X			
DUP-33 (720-91089-12)	1/30/19	Pacific		Solid	X	X			
DG-AQ7S-3.5-4 (720-91089-13)	1/30/19	13:30 Pacific		Solid	X	X			
DG-AQ11S-0.5-1 (720-91089-14)	1/30/19	14:00 Pacific		Solid	X	X			
DG-AQ11S-3.5-4 (720-91089-15)	1/30/19	14:00 Pacific		Solid	X	X			
DG-AT9S-0.5-1 (720-91089-16)	1/30/19	14:30 Pacific		Solid	X	X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment: FED-EX	
Relinquished by:	Date/Time: 1/30/19 1651	Company TA-PLS	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/31/19 0445	Company TA IRV	

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41010.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Sesolid, Oowipe/oil, BT=Tissue, A=Air)	8082/3545 Standard 8082 + Pest list	8260/3545 (8260) Standard List	8270C_SIM/3546 (8270) (M/SG) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/Percent Moisture	8260B_LUFT/5035A_F_FW_7 8260 (MOD) VOCs + GRO	8260B/CA_LUFT/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260 (MOD) VOCs	8260B/CA_LUFT/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AT9S-3.5-4 (720-91089-17)	1/30/19	14:30 Pacific		Solid	X	X	X	X	X	X	X			
DG-AV9S-0.5-1 (720-91089-18)	1/30/19	15:00 Pacific		Solid	X	X	X	X	X	X	X			
DG-AV9S-3.5-4 (720-91089-19)	1/30/19	15:00 Pacific		Solid	X	X	X	X	X	X	X			
DG-AV9S-7.5-8 (720-91089-20)	1/30/19	15:00 Pacific		Solid	X	X	X	X	X	X	X			
FB-01.30.19 (720-91089-21)	1/30/19	Pacific		Water								X	X	check for 2 phases
TB-01.30.19 (720-91089-22)	1/30/19	Pacific		Water								X	X	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O
Relinquished by:	Date/Time: 1/30/19 16:51	Company: TAPLS	Received by: / Date/Time: / Company:
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: 1/31/19 0445 / Company: TA IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

720-91089
GEOSYNTEC WED.
TERRA COTES

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC02

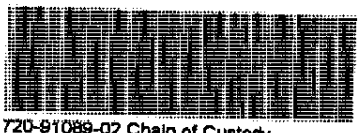
FedEx Express Package(s) - Dropped Off
478645743171 31.3 lbs. (S)

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 30, 2019 4:51:11 PM



720-91089-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91089

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

#188178

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 8th Floor	Analysis Turnaround Time			Sampler: Nathan Stedman
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91089 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1 DG-AG7s-0.5-1	30 Jan. 2019	0910	G	S	7	N		X	X	X	X	X	X	X	
2 DG-AG7s-3.5-4		0910													
3 DG-AB9s-0.5-1		1020													
4 DG-AB9s-3.5-4		1020													
5 DG-AH9s-0.5-1		1040													
6 DG-AH9s-3.5-4		1040													
7 DG-AJ9s-0.5-1		1100													
8 DG-AJ9s-3.5-4		1100													
9 DG-AL5s-0.5-1		1130					Y								
10 DG-AL5s-3.5-4		1130													
11 DG-AQ7s-0.5-1		1330													
12 DUP-33	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.9°C, 1.0°C, 0.7°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1610 29 Jan 2019	Received by:	Company: TA PLS	Date/Time: 1-30-19 1610
Relinquished by:	Company: TA PLS	Date/Time: 1-30-19 1845	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91089

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schatzman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bcheng@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
13	DG-AQ7s-3.5-4	30 Jan 2019	1330	G	S	1	N		X	X	X	X	X	X	X	
14	DG-AQ11s-0.5-1		1400													
15	DG-AQ11s-3.5-4		1400													
16	DG-AT9s-0.5-1		1430													
17	DG-AT9s-3.5-4		1430													
18	DG-AV9s-0.5-1		1500													
19	DG-AV9s-3.5-4		1500													
20	DG-AV9s-7.5-8		1500	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	
21	FB-01.30.19		—			2			X							
22	TB-01.30.19	↓	—			2			X							

Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd. _____	Therm ID No.:
Relinquished by: Nathan Schatzman	Company: Geosyntec	Date/Time: 1600 29 Jan 2019	Received by:	Company: TA PLS	Date/Time: 1-30-19 1600
Relinquished by:	Company: TA PLS	Date/Time: 1-30-19 1845	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41010.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Denan Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X											
DG-AG7S-0.5-1 (720-91089-1)	1/30/19	09:10 Pacific		Solid			X	X	X	X	X	X	X			3	(1)
DG-AG7S-3.5-4 (720-91089-2)	1/30/19	09:10 Pacific		Solid			X	X	X	X	X	X	X			3	
DG-AB9S-0.5-1 (720-91089-3)	1/30/19	10:20 Pacific		Solid			X	X	X	X	X	X	X			3	
DG-AB9S-3.5-4 (720-91089-4)	1/30/19	10:20 Pacific		Solid			X	X	X	X	X	X	X			3	
DG-AH9S-0.5-1 (720-91089-5)	1/30/19	10:40 Pacific		Solid			X	X	X	X	X	X	X			3	
DG-AH9S-3.5-4 (720-91089-6)	1/30/19	10:40 Pacific		Solid			X	X	X	X	X	X	X			3	
DG-AJ9S-0.5-1 (720-91089-7)	1/30/19	11:00 Pacific		Solid			X	X	X	X	X	X	X			3	
DG-AJ9S-3.5-4 (720-91089-8)	1/30/19	11:00 Pacific		Solid			X	X	X	X	X	X	X			3	
DG-AL5S-0.5-1 (720-91089-9)	1/30/19	11:30 Pacific		Solid			X	X	X	X	X	X	X			3	(2) 8oz jar

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/31/19 1259	Company: TAPS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 31/19 1030	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41010.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LUFTMS/5035A_F_FW_1 8260-(MOD)-VOCs + GRO	8260BCA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LUFTMS/5030B 8260-(MOD)-VOCs	8260BCA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:														
DG-AL5S-0.5-1 (720-91089-9MS)	1/30/19	11:30 Pacific	MS	Solid			X	X	X	X		X	X			1	
DG-AL5S-0.5-1 (720-91089-9MSD)	1/30/19	11:30 Pacific	MSD	Solid			X	X	X	X		X	X			1	
DG-AL5S-3.5-4 (720-91089-10)	1/30/19	11:30 Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AQ7S-0.5-1 (720-91089-11)	1/30/19	13:30 Pacific		Solid			X	X	X	X	X	X	X			1	
DUP-33 (720-91089-12)	1/30/19	Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AQ7S-3.5-4 (720-91089-13)	1/30/19	13:30 Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AQ11S-0.5-1 (720-91089-14)	1/30/19	14:00 Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AQ11S-3.5-4 (720-91089-15)	1/30/19	14:00 Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AT9S-0.5-1 (720-91089-16)	1/30/19	14:30 Pacific		Solid			X	X	X	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/31/19 1259	Company: TAPLS	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 31/19 1630	Company: TA PLV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No :
	Cooler Temperature(s) °C and Other Remarks:

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41010.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LL/5035A_E_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
			Preservation Code:														
DG-AT9S-3.5-4 (720-91089-17)	1/30/19	14:30 Pacific		Solid			X	X	X	X	X	X	X			5	(1)
DG-AV9S-0.5-1 (720-91089-18)	1/30/19	15:00 Pacific		Solid			X	X	X	X	X	X	X			5	
DG-AV9S-3.5-4 (720-91089-19)	1/30/19	15:00 Pacific		Solid			X	X	X	X	X	X	X			5	
DG-AV9S-7.5-8 (720-91089-20)	1/30/19	15:00 Pacific		Solid			X	X	X	X	X	X	X			5	1/30/19
~~FB-01.30.19 (720-91089-21)~~ 1/30/19	1/30/19	~~Pacific~~		~~Water~~									X	X		2	~~check for 2 phases~~
~~TB-01.30.19 (720-91089-22)~~	1/30/19	~~Pacific~~		~~Water~~									X	X		2	~~check for 2 phases~~
												1/30/19					

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 1/31/19 1259	Company TAPCS	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/1/19 10:30	Company TA PLV	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91089-1

Login Number: 91089
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91089-1

Login Number: 91089
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 01/31/19 03:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, January 31, 2019 10:05 PM
To: Kim, Martin C.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: TestAmerica Sample Login Confirmation files from 720-91089 Brisbane OU-2 Data Gap Investigation

-External Email-

Hello,

Please cancel samples 18, 19 and 20.

Thank you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
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Geosyntec consultants
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From: Kim, Martin <martin.kim@testamericainc.com>
Sent: Thursday, January 31, 2019 4:10 PM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: TestAmerica Sample Login Confirmation files from 720-91089 Brisbane OU-2 Data Gap Investigation

Hello,

Attached, please find the Sample Confirmation files for job 720-91089; Brisbane OU-2 Data Gap Investigation

Please feel free to contact me or your PM, Urvashi Patel, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

MARTIN C KIM
Project Manager Assistant

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [296873]
Attachments: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91104-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Jill Kellmann

Authorized for release by:
2/18/2019 3:13:40 PM
Jill Kellmann, Manager of Project Management
(916)374-4402
jill.kellmann@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91104-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91104-1

Comments
No additional comments.

Receipt
The samples were received on 1/31/2019 6:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.0º C, 0.8º C, 1.5º C, 1.5º C, 2.2º C and 4.1º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528261 recovered above the upper control limit for 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AB5W (720-91104-1), DG-AG7W (720-91104-2), DG-AL5W (720-91104-3), DG-AQ7W (720-91104-4) and (CCVIS 440-528261/2).

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528371 recovered above the upper control limit for 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AW3W (720-91104-5), DG-AQ11W (720-91104-6), DG-AS11W (720-91104-7), DG-AT9W (720-91104-8), DG-AO11W (720-91104-9), DG-T17W (720-91104-10), FB-01.31.19 (720-91104-11), DUP-31 (720-91104-12), TB-01.31.19 (720-91104-13) and (CCVIS 440-528371/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the nature of the sample matrix: DG-AQ11W (720-91104-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Surrogate recovery for the following sample was outside control limits. The sample was observed to be a cloudy light brown color with emulsion: DG-AL5W (720-91104-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-259741 and analytical batch 720-259875 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259741 and analytical batch 720-259997 were outside control limits. Sample matrix interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The method blank for preparation batch 720-259741 and analytical batch 720-259997 contained Barium, Copper above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 720-91104-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with method 8015B DRO preparation batch 440-527042. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with method 8270 SIM PAH preparation batch 440-526843. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AB5W — Lab Sample ID: 720-91104-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	160	J	500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110	J	500	100	ug/L	1		8015B	Total/NA
Arsenic	37		10	2.9	ug/L	1		6010B	Dissolved
Barium	66	B	50	1.6	ug/L	1		6010B	Dissolved
Beryllium	1.2	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	0.88	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.2	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	5.1		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	5.7	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	8.4		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	5.3	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	3.8	J	10	1.0	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AG7W — Lab Sample ID: 720-91104-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.54		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	180	J	500	99	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130	J	500	99	ug/L	1		8015B	Total/NA
Arsenic	9.9	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	230	B	50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.64	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	0.41	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.4	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	3.5		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	3.8	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	9.6		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	7.2	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	3.1	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	27		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AL5W — Lab Sample ID: 720-91104-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.0		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	460	J	500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	350	J	500	100	ug/L	1		8015B	Total/NA
Arsenic	160		10	2.9	ug/L	1		6010B	Dissolved
Barium	170	B	50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.61	J	2.0	0.59	ug/L	1		6010B	Dissolved
Chromium	1.7	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	6.0		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	11	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	11		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	9.7	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	8.3	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.5	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	14	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AQ7W — Lab Sample ID: 720-91104-4

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ7W (Continued) — Lab Sample ID: 720-91104-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.5		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	280	J	500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160	J	500	100	ug/L	1		8015B	Total/NA
Arsenic	34		10	2.9	ug/L	1		6010B	Dissolved
Barium	82	B	50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.21	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.8	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	6.5		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	12	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	16		5.0	2.2	ug/L	1		6010B	Dissolved
Nickel	8.6	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	51		20	7.4	ug/L	1		6010B	Dissolved
Mercury	0.19	J	0.20	0.10	ug/L	1		7470A	Dissolved

Client Sample ID: DG-AW3W — Lab Sample ID: 720-91104-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.1		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	1.1		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.60		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.59		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.33		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.99		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	1.7		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	1.9		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	2.0		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.62		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1.6		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	1.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	1.2		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	2.5		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	0.31		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	310	J	500	99	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	210	J	500	99	ug/L	1		8015B	Total/NA
Arsenic	67		10	2.9	ug/L	1		6010B	Dissolved
Barium	180	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.4	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	7.9		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.0	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	9.9		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	5.0	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	7.9	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.9	J	10	0.87	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AQ11W — Lab Sample ID: 720-91104-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.36	J	0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	620		520	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	500	J	520	100	ug/L	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ11W (Continued) — Lab Sample ID: 720-91104-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.1	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	570	B	50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.59	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cobalt	1.8	J	2.0	0.68	ug/L	1		6010B	Dissolved
Lead	9.1		5.0	2.2	ug/L	1		6010B	Dissolved
Zinc	12	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AS11W — Lab Sample ID: 720-91104-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.26	J	0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	260	J	500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	300	J	500	100	ug/L	1		8015B	Total/NA
Barium	250	B	50	1.6	ug/L	1		6010B	Dissolved
Beryllium	0.60	J	2.0	0.59	ug/L	1		6010B	Dissolved
Cadmium	0.41	J	2.0	0.21	ug/L	1		6010B	Dissolved
Cobalt	1.2	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	21		20	3.7	ug/L	1		6010B	Dissolved
Lead	16		5.0	2.2	ug/L	1		6010B	Dissolved
Nickel	4.6	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	220		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AT9W — Lab Sample ID: 720-91104-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.0		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	170	J	500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130	J	500	100	ug/L	1		8015B	Total/NA
Barium	500	B	50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.22	J	2.0	0.21	ug/L	1		6010B	Dissolved
Cobalt	3.5		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	8.5	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	17		5.0	2.2	ug/L	1		6010B	Dissolved
Nickel	6.8	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	380		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AO11W — Lab Sample ID: 720-91104-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.5		0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	0.88		0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	0.57	J	1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: DG-T17W — Lab Sample ID: 720-91104-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	21		20	10	ug/L	1		8260B	Total/NA
Toluene	0.62		0.50	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: FB-01.31.19 — Lab Sample ID: 720-91104-11

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB-01.31.19 (Continued) — Lab Sample ID: 720-91104-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	47		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: DUP-31 — Lab Sample ID: 720-91104-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150	J	510	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	110	J	510	100	ug/L	1		8015B	Total/NA
Arsenic	49		10	2.9	ug/L	1		6010B	Dissolved
Barium	70	B	50	1.6	ug/L	1		6010B	Dissolved
Cobalt	4.2		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.5	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	8.2		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	5.6	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	2.4	J	10	1.0	ug/L	1		6010B	Dissolved

Client Sample ID: TB-01.31.19 — Lab Sample ID: 720-91104-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AB5W
Date Collected: 01/31/19 10:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/13/19 03:26*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*02/13/19 03:26*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 03:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Acetone	ND		20	10	ug/L			02/13/19 03:26	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 03:26	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 03:26	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 03:26	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 03:26	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 03:26	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 03:26	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 03:26	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 03:26	1

Client Sample ID: DG-AB5W
Date Collected: 01/31/19 10:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 03:26	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 03:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 03:26	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 03:26	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 03:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 03:26	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 03:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 03:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 03:26	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 03:26	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 03:26	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*02/13/19 03:26*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 03:26*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Acenaphthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Acenaphthylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Fluorene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Phenanthrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Chrysene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 12:21	1

Client Sample ID: DG-AB5W

Date Collected: 01/31/19 10:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*110*		*38 - 120*	*02/05/19 11:37*	*02/07/19 12:21*	*1*
Nitrobenzene-d5	*97*		*10 - 120*	*02/05/19 11:37*	*02/07/19 12:21*	*1*
Terphenyl-d14	*96*		*21 - 120*	*02/05/19 11:37*	*02/07/19 12:21*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 15:10	1
Motor Oil Range Organics [C24-C36]	**110**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*45 - 120*	*02/06/19 10:01*	*02/07/19 15:10*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:04	1
Arsenic	**37**		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:04	1
Barium	**66**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:04	1
Beryllium	**1.2**	**J**	2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:04	1
Cadmium	**0.88**	**J**	2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:04	1
Chromium	**1.2**	**J**	10	0.70	ug/L		02/04/19 10:29	02/05/19 19:04	1
Cobalt	**5.1**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:04	1
Copper	**5.7**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 19:04	1
Lead	**8.4**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:04	1
Molybdenum	**5.3**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 19:04	1
Nickel	**3.8**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 19:04	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:04	1
Silver	ND	F1	5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:01	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:04	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 19:04	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 19:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AG7W
Date Collected: 01/31/19 11:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/13/19 03:52*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*02/13/19 03:52*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/13/19 03:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.54**		0.50	0.25	ug/L			02/13/19 03:52	1
Acetone	ND		20	10	ug/L			02/13/19 03:52	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 03:52	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 03:52	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 03:52	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 03:52	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 03:52	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 03:52	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 03:52	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 03:52	1

Client Sample ID: DG-AG7W
Date Collected: 01/31/19 11:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 03:52	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 03:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 03:52	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 03:52	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 03:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 03:52	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 03:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 03:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 03:52	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 03:52	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 03:52	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*02/13/19 03:52*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/13/19 03:52*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Acenaphthene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Acenaphthylene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Fluorene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Phenanthrene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Anthracene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Chrysene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Fluoranthene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Pyrene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 13:10	1

Client Sample ID: DG-AG7W

Date Collected: 01/31/19 11:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*115*		*38 - 120*	*02/05/19 11:37*	*02/07/19 13:10*	*1*
Nitrobenzene-d5	*104*		*10 - 120*	*02/05/19 11:37*	*02/07/19 13:10*	*1*
Terphenyl-d14	*91*		*21 - 120*	*02/05/19 11:37*	*02/07/19 13:10*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**180**	**J**	500	99	ug/L		02/06/19 10:01	02/07/19 15:32	1
Motor Oil Range Organics [C24-C36]	**130**	**J**	500	99	ug/L		02/06/19 10:01	02/07/19 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*68*		*45 - 120*	*02/06/19 10:01*	*02/07/19 15:32*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:09	1
Arsenic	**9.9**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 19:09	1
Barium	**230**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:09	1
Beryllium	**0.64**	**J**	2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:09	1
Cadmium	**0.41**	**J**	2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:09	1
Chromium	**1.4**	**J**	10	0.70	ug/L		02/04/19 10:29	02/05/19 19:09	1
Cobalt	**3.5**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:09	1
Copper	**3.8**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 19:09	1
Lead	**9.6**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:09	1
Molybdenum	**7.2**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 19:09	1
Nickel	**3.1**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 19:09	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:09	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:06	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:09	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 19:09	1
Zinc	**27**		20	7.4	ug/L		02/04/19 10:29	02/05/19 19:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AL5W
Date Collected: 01/31/19 11:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-3
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/13/19 04:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/13/19 04:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/13/19 04:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**3.0**		0.50	0.25	ug/L			02/13/19 04:17	1
Acetone	ND		20	10	ug/L			02/13/19 04:17	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 04:17	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 04:17	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 04:17	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 04:17	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 04:17	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 04:17	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 04:17	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 04:17	1

Client Sample ID: DG-AL5W
Date Collected: 01/31/19 11:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 04:17	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 04:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 04:17	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 04:17	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 04:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 04:17	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 04:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 04:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 04:17	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 04:17	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 04:17	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*02/13/19 04:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/13/19 04:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Acenaphthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Acenaphthylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Fluorene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Phenanthrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Chrysene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:34	1

Client Sample ID: DG-AL5W

Date Collected: 01/31/19 11:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*104*		*38 - 120*	*02/05/19 11:37*	*02/07/19 13:34*	*1*
Nitrobenzene-d5	*92*		*10 - 120*	*02/05/19 11:37*	*02/07/19 13:34*	*1*
Terphenyl-d14	*75*		*21 - 120*	*02/05/19 11:37*	*02/07/19 13:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**460**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 15:53	1
Motor Oil Range Organics [C24-C36]	**350**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*44*	*X*	*45 - 120*	*02/06/19 10:01*	*02/07/19 15:53*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:14	1
Arsenic	**160**		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:14	1
Barium	**170**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:14	1
Beryllium	**0.61**	**J**	2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:14	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:14	1
Chromium	**1.7**	**J**	10	0.70	ug/L		02/04/19 10:29	02/05/19 19:14	1
Cobalt	**6.0**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:14	1
Copper	**11**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 19:14	1
Lead	**11**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:14	1
Molybdenum	**9.7**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 19:14	1
Nickel	**8.3**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 19:14	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:14	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:11	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:14	1
Vanadium	**1.5**	**J**	10	0.87	ug/L		02/04/19 10:29	02/05/19 19:14	1
Zinc	**14**	**J**	20	7.4	ug/L		02/04/19 10:29	02/05/19 19:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AQ7W
Date Collected: 01/31/19 11:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-4
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/13/19 04:43*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*02/13/19 04:43*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 04:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**4.5**		0.50	0.25	ug/L			02/13/19 04:43	1
Acetone	ND		20	10	ug/L			02/13/19 04:43	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 04:43	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 04:43	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 04:43	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 04:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 04:43	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 04:43	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 04:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 04:43	1

Client Sample ID: DG-AQ7W
Date Collected: 01/31/19 11:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 04:43	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 04:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 04:43	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 04:43	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 04:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 04:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 04:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 04:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 04:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 04:43	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 04:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/13/19 04:43*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 04:43*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Acenaphthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Acenaphthylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Fluorene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Phenanthrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Chrysene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 13:58	1

Client Sample ID: DG-AQ7W

Date Collected: 01/31/19 11:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*109*		*38 - 120*	*02/05/19 11:37*	*02/07/19 13:58*	*1*
Nitrobenzene-d5	*99*		*10 - 120*	*02/05/19 11:37*	*02/07/19 13:58*	*1*
Terphenyl-d14	*87*		*21 - 120*	*02/05/19 11:37*	*02/07/19 13:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**280**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 16:14	1
Motor Oil Range Organics [C24-C36]	**160**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*45 - 120*	*02/06/19 10:01*	*02/07/19 16:14*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:19	1
Arsenic	**34**		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:19	1
Barium	**82**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:19	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:19	1
Cadmium	**0.21**	**J**	2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:19	1
Chromium	**1.8**	**J**	10	0.70	ug/L		02/04/19 10:29	02/05/19 19:19	1
Cobalt	**6.5**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:19	1
Copper	**12**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 19:19	1
Lead	**16**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:19	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:19	1
Nickel	**8.6**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 19:19	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:19	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:16	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:19	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 19:19	1
Zinc	**51**		20	7.4	ug/L		02/04/19 10:29	02/05/19 19:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**	**J**	0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:55	1

Client Sample ID: DG-AW3W

Date Collected: 01/31/19 12:10
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-5

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/13/19 14:45*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/13/19 14:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 14:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**4.1**		0.50	0.25	ug/L			02/13/19 14:45	1
Acetone	ND		20	10	ug/L			02/13/19 14:45	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 14:45	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 14:45	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 14:45	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 14:45	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 14:45	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 14:45	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 14:45	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 14:45	1

Client Sample ID: DG-AW3W

Date Collected: 01/31/19 12:10
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 14:45	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 14:45	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 14:45	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 14:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 14:45	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 14:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 14:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 14:45	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 14:45	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 14:45	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*02/13/19 14:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 14:45*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.1**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Acenaphthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Acenaphthylene	**0.60**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Fluorene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Phenanthrene	**0.59**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Anthracene	**0.33**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Benzo[a]anthracene	**0.99**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Chrysene	**1.7**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Benzo[a]pyrene	**1.9**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Benzo[b]fluoranthene	**2.0**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Benzo[k]fluoranthene	**0.62**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Benzo[g,h,i]perylene	**1.6**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Indeno[1,2,3-cd]pyrene	**1.2**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Fluoranthene	**1.2**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Pyrene	**2.5**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1
Dibenz(a,h)anthracene	**0.31**		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 14:23	1

Client Sample ID: DG-AW3W

Date Collected: 01/31/19 12:10
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*105*		*38 - 120*	*02/05/19 11:37*	*02/07/19 14:23*	*1*
Nitrobenzene-d5	*85*		*10 - 120*	*02/05/19 11:37*	*02/07/19 14:23*	*1*
Terphenyl-d14	*62*		*21 - 120*	*02/05/19 11:37*	*02/07/19 14:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**310**	**J**	500	99	ug/L		02/06/19 10:01	02/07/19 16:35	1
Motor Oil Range Organics [C24-C36]	**210**	**J**	500	99	ug/L		02/06/19 10:01	02/07/19 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*74*		*45 - 120*	*02/06/19 10:01*	*02/07/19 16:35*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:33	1
Arsenic	**67**		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:33	1
Barium	**180**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:33	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:33	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:33	1
Chromium	**1.4**	**J**	10	0.70	ug/L		02/04/19 10:29	02/05/19 19:33	1
Cobalt	**7.9**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:33	1
Copper	**6.0**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 19:33	1
Lead	**9.9**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:33	1
Molybdenum	**5.0**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 19:33	1
Nickel	**7.9**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 19:33	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:33	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:31	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:33	1
Vanadium	**1.9**	**J**	10	0.87	ug/L		02/04/19 10:29	02/05/19 19:33	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 19:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AQ11W
Date Collected: 01/31/19 13:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-6
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/13/19 15:10*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*02/13/19 15:10*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/13/19 15:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.36**	**J**	0.50	0.25	ug/L			02/13/19 15:10	1
Acetone	ND		20	10	ug/L			02/13/19 15:10	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 15:10	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 15:10	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 15:10	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 15:10	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 15:10	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 15:10	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 15:10	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 15:10	1

Client Sample ID: DG-AQ11W
Date Collected: 01/31/19 13:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 15:10	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 15:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 15:10	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 15:10	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 15:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 15:10	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 15:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 15:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 15:10	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 15:10	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 15:10	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*02/13/19 15:10*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/13/19 15:10*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Acenaphthene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Acenaphthylene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Fluorene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Phenanthrene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Anthracene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Benzo[a]anthracene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Chrysene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Benzo[a]pyrene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Benzo[b]fluoranthene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Benzo[k]fluoranthene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Benzo[g,h,i]perylene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Indeno[1,2,3-cd]pyrene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Fluoranthene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Pyrene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5
Dibenz(a,h)anthracene	ND		1.0	0.51	ug/L		02/05/19 11:37	02/07/19 14:47	5

Client Sample ID: DG-AQ11W

Date Collected: 01/31/19 13:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*38 - 120*	*02/05/19 11:37*	*02/07/19 14:47*	*5*
Nitrobenzene-d5	*66*		*10 - 120*	*02/05/19 11:37*	*02/07/19 14:47*	*5*
Terphenyl-d14	*89*		*21 - 120*	*02/05/19 11:37*	*02/07/19 14:47*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**620**		520	100	ug/L		02/06/19 10:01	02/07/19 16:57	1
Motor Oil Range Organics [C24-C36]	**500**	**J**	520	100	ug/L		02/06/19 10:01	02/07/19 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*45 - 120*	*02/06/19 10:01*	*02/07/19 16:57*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:38	1
Arsenic	**4.1**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 19:38	1
Barium	**570**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:38	1
Beryllium	**0.59**	**J**	2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:38	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:38	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/05/19 19:38	1
Cobalt	**1.8**	**J**	2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:38	1
Copper	ND		20	3.7	ug/L		02/04/19 10:29	02/05/19 19:38	1
Lead	**9.1**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:38	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:38	1
Nickel	ND		10	1.0	ug/L		02/04/19 10:29	02/05/19 19:38	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:38	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:36	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:38	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 19:38	1
Zinc	**12**	**J**	20	7.4	ug/L		02/04/19 10:29	02/05/19 19:38	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:57	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AS11W
Date Collected: 01/31/19 14:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-7
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/13/19 15:36*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/13/19 15:36*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 15:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Acetone	ND		20	10	ug/L			02/13/19 15:36	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 15:36	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 15:36	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 15:36	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 15:36	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 15:36	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 15:36	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 15:36	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 15:36	1

Client Sample ID: DG-AS11W
Date Collected: 01/31/19 14:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 15:36	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 15:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 15:36	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 15:36	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Toluene	**0.26**	**J**	0.50	0.25	ug/L			02/13/19 15:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 15:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 15:36	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 15:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 15:36	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 15:36	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 15:36	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*02/13/19 15:36*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 15:36*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Acenaphthene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Acenaphthylene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Fluorene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Phenanthrene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Anthracene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Chrysene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Fluoranthene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Pyrene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:33	1

Client Sample ID: DG-AS11W

Date Collected: 01/31/19 14:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*38 - 120*	*02/05/19 11:37*	*02/07/19 11:33*	*1*
Nitrobenzene-d5	*86*		*10 - 120*	*02/05/19 11:37*	*02/07/19 11:33*	*1*
Terphenyl-d14	*54*		*21 - 120*	*02/05/19 11:37*	*02/07/19 11:33*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**260**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 17:18	1
Motor Oil Range Organics [C24-C36]	**300**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*45 - 120*	*02/06/19 10:01*	*02/07/19 17:18*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:43	1
Arsenic	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:43	1
Barium	**250**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:43	1
Beryllium	**0.60**	**J**	2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:43	1
Cadmium	**0.41**	**J**	2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:43	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/05/19 19:43	1
Cobalt	**1.2**	**J**	2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:43	1
Copper	**21**		20	3.7	ug/L		02/04/19 10:29	02/05/19 19:43	1
Lead	**16**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:43	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:43	1
Nickel	**4.6**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 19:43	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:43	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:41	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:43	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 19:43	1
Zinc	**220**		20	7.4	ug/L		02/04/19 10:29	02/05/19 19:43	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:57	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AT9W
Date Collected: 01/31/19 14:40
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-8
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/13/19 16:01*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/13/19 16:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/13/19 16:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**2.0**		0.50	0.25	ug/L			02/13/19 16:01	1
Acetone	ND		20	10	ug/L			02/13/19 16:01	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 16:01	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 16:01	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 16:01	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 16:01	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 16:01	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 16:01	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 16:01	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 16:01	1

Client Sample ID: DG-AT9W

Date Collected: 01/31/19 14:40
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 16:01	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 16:01	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 16:01	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 16:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 16:01	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 16:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 16:01	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 16:01	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 16:01	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*02/13/19 16:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/13/19 16:01*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Acenaphthene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Acenaphthylene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Fluorene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Phenanthrene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Anthracene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Chrysene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Fluoranthene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Pyrene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		02/05/19 11:37	02/07/19 11:57	1

Client Sample ID: DG-AT9W

Date Collected: 01/31/19 14:40
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*38 - 120*	*02/05/19 11:37*	*02/07/19 11:57*	*1*
Nitrobenzene-d5	*76*		*10 - 120*	*02/05/19 11:37*	*02/07/19 11:57*	*1*
Terphenyl-d14	*72*		*21 - 120*	*02/05/19 11:37*	*02/07/19 11:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 18:01	1
Motor Oil Range Organics [C24-C36]	**130**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*67*		*45 - 120*	*02/06/19 10:01*	*02/07/19 18:01*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:48	1
Arsenic	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:48	1
Barium	**500**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:48	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:48	1
Cadmium	**0.22**	**J**	2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:48	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/05/19 19:48	1
Cobalt	**3.5**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:48	1
Copper	**8.5**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 19:48	1
Lead	**17**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:48	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:48	1
Nickel	**6.8**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 19:48	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:48	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:46	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:48	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 19:48	1
Zinc	**380**		20	7.4	ug/L		02/04/19 10:29	02/05/19 19:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:57	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AO11W
Date Collected: 01/31/19 15:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-9
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/13/19 16:27*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*02/13/19 16:27*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/13/19 16:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**1.5**		0.50	0.25	ug/L			02/13/19 16:27	1
Acetone	ND		20	10	ug/L			02/13/19 16:27	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 16:27	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 16:27	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 16:27	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 16:27	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 16:27	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 16:27	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 16:27	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 16:27	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-AO11W
Date Collected: 01/31/19 15:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 16:27	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 16:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 16:27	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 16:27	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Toluene	**0.88**		0.50	0.25	ug/L			02/13/19 16:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 16:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 16:27	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 16:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 16:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 16:27	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 16:27	1
Xylenes, Total	**0.57**	**J**	1.0	0.50	ug/L			02/13/19 16:27	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*02/13/19 16:27*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/13/19 16:27*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DG-T17W
Date Collected: 01/31/19 15:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-10
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*02/13/19 16:52*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/13/19 16:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 16:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Acetone	**21**		20	10	ug/L			02/13/19 16:52	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 16:52	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 16:52	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 16:52	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 16:52	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 16:52	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 16:52	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 16:52	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 16:52	1

Client Sample ID: DG-T17W
Date Collected: 01/31/19 15:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 16:52	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 16:52	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 16:52	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Toluene	**0.62**		0.50	0.25	ug/L			02/13/19 16:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 16:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 16:52	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 16:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 16:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 16:52	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 16:52	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 16:52	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*02/13/19 16:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 16:52*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: FB-01.31.19
Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-11
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/13/19 17:17*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*02/13/19 17:17*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/13/19 17:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Acetone	**47**		20	10	ug/L			02/13/19 17:17	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 17:17	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 17:17	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 17:17	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 17:17	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 17:17	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 17:17	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 17:17	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 17:17	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: FB-01.31.19
Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 17:17	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 17:17	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 17:17	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 17:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 17:17	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 17:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 17:17	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 17:17	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 17:17	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*02/13/19 17:17*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/13/19 17:17*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DUP-31

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-12

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*02/13/19 17:43*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*02/13/19 17:43*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/13/19 17:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Acetone	ND		20	10	ug/L			02/13/19 17:43	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 17:43	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 17:43	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 17:43	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 17:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 17:43	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 17:43	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 17:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 17:43	1

Client Sample ID: DUP-31
Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 17:43	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 17:43	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 17:43	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 17:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 17:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 17:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 17:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 17:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 17:43	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 17:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*02/13/19 17:43*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/13/19 17:43*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Acenaphthene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Acenaphthylene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Fluorene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Phenanthrene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Anthracene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Chrysene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Fluoranthene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Pyrene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		02/05/19 11:37	02/07/19 12:45	1

Client Sample ID: DUP-31

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*107*		*38 - 120*	*02/05/19 11:37*	*02/07/19 12:45*	*1*
Nitrobenzene-d5	*90*		*10 - 120*	*02/05/19 11:37*	*02/07/19 12:45*	*1*
Terphenyl-d14	*80*		*21 - 120*	*02/05/19 11:37*	*02/07/19 12:45*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**	**J**	510	100	ug/L		02/06/19 10:01	02/07/19 18:22	1
Motor Oil Range Organics [C24-C36]	**110**	**J**	510	100	ug/L		02/06/19 10:01	02/07/19 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*74*		*45 - 120*	*02/06/19 10:01*	*02/07/19 18:22*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:53	1
Arsenic	**49**		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:53	1
Barium	**70**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:53	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:53	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:53	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/05/19 19:53	1
Cobalt	**4.2**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:53	1
Copper	**6.5**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 19:53	1
Lead	**8.2**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:53	1
Molybdenum	**5.6**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 19:53	1
Nickel	**2.4**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 19:53	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:53	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:51	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:53	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 19:53	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 19:53	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 15:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:57	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: TB-01.31.19
Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-13
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/13/19 18:08*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*02/13/19 18:08*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/13/19 18:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Acetone	ND		20	10	ug/L			02/13/19 18:08	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 18:08	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 18:08	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 18:08	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 18:08	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 18:08	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 18:08	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 18:08	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 18:08	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: TB-01.31.19
Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 18:08	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 18:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 18:08	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 18:08	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 18:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 18:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 18:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 18:08	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 18:08	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 18:08	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*02/13/19 18:08*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/13/19 18:08*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCA	TOL								
Lab Sample ID	Client Sample ID	(70-130)	(80-128)								
440-232121-C-23 MS	Matrix Spike	97	99								
440-232121-C-23 MSD	Matrix Spike Duplicate	98	98								
440-232317-C-1 MS	Matrix Spike	101	98								
440-232317-C-1 MSD	Matrix Spike Duplicate	101	98								
720-91104-1	DG-AB5W	96	99								
720-91104-2	DG-AG7W	94	101								
720-91104-3	DG-AL5W	97	100								
720-91104-4	DG-AQ7W	98	99								
720-91104-5	DG-AW3W	107	99								
720-91104-6	DG-AQ11W	108	98								
720-91104-7	DG-AS11W	107	99								
720-91104-8	DG-AT9W	110	97								
720-91104-9	DG-AO11W	107	100								
720-91104-10	DG-T17W	109	99								
720-91104-11	FB-01.31.19	107	98								
720-91104-12	DUP-31	110	98								
720-91104-13	TB-01.31.19	111	97								
LCS 440-528261/5	Lab Control Sample	99	98								
LCS 440-528371/5	Lab Control Sample	101	97								
MB 440-528261/4	Method Blank	96	100								
MB 440-528371/4	Method Blank	100	99								

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DBFM	BFB	TOL							
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)							
440-232121-C-23 MS	Matrix Spike	103	92	99							
440-232121-C-23 MSD	Matrix Spike Duplicate	105	93	98							
440-232317-C-1 MS	Matrix Spike	105	93	98							
440-232317-C-1 MSD	Matrix Spike Duplicate	105	95	98							
720-91104-1	DG-AB5W	102	91	99							
720-91104-2	DG-AG7W	103	91	101							
720-91104-3	DG-AL5W	103	93	100							
720-91104-4	DG-AQ7W	104	91	99							
720-91104-5	DG-AW3W	107	89	99							
720-91104-6	DG-AQ11W	107	91	98							
720-91104-7	DG-AS11W	107	92	99							
720-91104-8	DG-AT9W	108	89	97							
720-91104-9	DG-AO11W	108	90	100							
720-91104-10	DG-T17W	109	89	99							
720-91104-11	FB-01.31.19	107	90	98							
720-91104-12	DUP-31	111	90	98							
720-91104-13	TB-01.31.19	108	90	97							

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
LCS 440-528262/6	Lab Control Sample	101	92	100
LCS 440-528372/6	Lab Control Sample	104	93	101
MB 440-528262/4	Method Blank	103	91	100
MB 440-528372/4	Method Blank	104	92	99

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-91104-1	DG-AB5W	110	97	96
720-91104-2	DG-AG7W	115	104	91
720-91104-3	DG-AL5W	104	92	75
720-91104-4	DG-AQ7W	109	99	87
720-91104-5	DG-AW3W	105	85	62
720-91104-6	DG-AQ11W	83	66	89
720-91104-7	DG-AS11W	95	86	54
720-91104-8	DG-AT9W	92	76	72
720-91104-12	DUP-31	107	90	80
LCS 440-526843/2-A	Lab Control Sample	82	75	105
LCSD 440-526843/3-A	Lab Control Sample Dup	100	93	111
MB 440-526843/1-A	Method Blank	98	95	109

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
720-91104-1	DG-AB5W	71
720-91104-2	DG-AG7W	68
720-91104-3	DG-AL5W	44 X
720-91104-4	DG-AQ7W	70
720-91104-5	DG-AW3W	74
720-91104-6	DG-AQ11W	64
720-91104-7	DG-AS11W	77
720-91104-8	DG-AT9W	67
720-91104-12	DUP-31	74
LCS 440-527042/2-A	Lab Control Sample	69

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**OTCN1 (45-120)**
LCSD 440-527042/3-A	Lab Control Sample Dup	77
MB 440-527042/1-A	Method Blank	66

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-528261/4
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Acetone	ND		20	10	ug/L			02/12/19 19:49	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 19:49	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 19:49	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 19:49	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 19:49	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 19:49	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 19:49	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 19:49	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 19:49	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 19:49	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 19:49	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 19:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528261/4
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 19:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 19:49	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 19:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 19:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 19:49	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 19:49	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 19:49	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*02/12/19 19:49*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/12/19 19:49*	*1*

Lab Sample ID: LCS 440-528261/5
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	10.2		ug/L		102	63 - 131
Acetone	10.0	ND		ug/L		43	10 - 150
Benzene	10.0	10.5		ug/L		105	68 - 130
Dichlorobromomethane	10.0	10.2		ug/L		102	70 - 132
Bromobenzene	10.0	10.7		ug/L		107	70 - 130
Chlorobromomethane	10.0	11.7		ug/L		117	70 - 130
Bromoform	10.0	10.8		ug/L		108	60 - 148
Bromomethane	10.0	10.6		ug/L		106	64 - 139
2-Butanone (MEK)	10.0	10.1		ug/L		101	44 - 150
n-Butylbenzene	10.0	10.4		ug/L		104	65 - 150
sec-Butylbenzene	10.0	10.2		ug/L		102	70 - 138
tert-Butylbenzene	10.0	10.7		ug/L		107	70 - 130
Carbon disulfide	10.0	9.57		ug/L		96	52 - 136
Carbon tetrachloride	10.0	10.7		ug/L		107	60 - 150
Chlorobenzene	10.0	11.1		ug/L		111	70 - 130
Chloroethane	10.0	9.49		ug/L		95	64 - 135
Chloroform	10.0	10.9		ug/L		109	70 - 130
Chloromethane	10.0	7.79		ug/L		78	47 - 140
2-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
4-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528261/5
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	10.0	10.7		ug/L		107	69 - 145
1,2-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 130
1,3-Dichlorobenzene	10.0	10.8		ug/L		108	70 - 130
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
1,3-Dichloropropane	10.0	10.6		ug/L		106	70 - 130
1,1-Dichloropropene	10.0	10.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	10.2		ug/L		102	52 - 140
Ethylene Dibromide	10.0	11.1		ug/L		111	70 - 130
Dibromomethane	10.0	11.2		ug/L		112	70 - 130
Dichlorodifluoromethane	10.0	8.44		ug/L		84	29 - 150
1,1-Dichloroethane	10.0	10.3		ug/L		103	64 - 130
1,2-Dichloroethane	10.0	10.1		ug/L		101	57 - 138
1,1-Dichloroethene	10.0	11.4		ug/L		114	70 - 130
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	70 - 133
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	70 - 130
1,2-Dichloropropane	10.0	10.5		ug/L		105	67 - 130
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	70 - 133
trans-1,3-Dichloropropene	10.0	9.82		ug/L		98	70 - 132
Ethylbenzene	10.0	10.4		ug/L		104	70 - 130
Hexachlorobutadiene	10.0	11.4		ug/L		114	10 - 150
2-Hexanone	10.0	9.11		ug/L		91	10 - 150
Isopropylbenzene	10.0	10.5		ug/L		105	70 - 136
4-Isopropyltoluene	10.0	10.9		ug/L		109	70 - 132
Methylene Chloride	10.0	9.38		ug/L		94	52 - 130
4-Methyl-2-pentanone (MIBK)	10.0	8.90		ug/L		89	59 - 149
Naphthalene	10.0	10.3		ug/L		103	60 - 140
N-Propylbenzene	10.0	9.94		ug/L		99	67 - 139
Styrene	10.0	9.92		ug/L		99	70 - 134
1,1,1,2-Tetrachloroethane	10.0	10.9		ug/L		109	60 - 141
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	63 - 130
Tetrachloroethene	10.0	11.3		ug/L		113	70 - 130
Toluene	10.0	10.1		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	10.0	10.9		ug/L		109	60 - 140
1,2,4-Trichlorobenzene	10.0	11.2		ug/L		112	60 - 140
1,1,1-Trichloroethane	10.0	10.9		ug/L		109	70 - 130
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	70 - 130
Trichloroethene	10.0	11.6		ug/L		116	70 - 130
Trichlorofluoromethane	10.0	11.4		ug/L		114	60 - 150
1,2,3-Trichloropropane	10.0	11.4		ug/L		114	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.4		ug/L		114	60 - 140
1,2,4-Trimethylbenzene	10.0	10.2		ug/L		102	70 - 135
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	70 - 136
Vinyl acetate	10.0	9.27		ug/L		93	48 - 140
Vinyl chloride	10.0	9.07		ug/L		91	59 - 133
m-Xylene & p-Xylene	10.0	10.7		ug/L		107	70 - 130
o-Xylene	10.0	10.7		ug/L		107	70 - 130
2,2-Dichloropropane	10.0	10.2		ug/L		102	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528261/5
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-232121-C-23 MS
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		10.0	9.58		ug/L		96	70 - 130
Acetone	ND	F1	10.0	11.5	J	ug/L		115	10 - 150
Benzene	ND		10.0	10.5		ug/L		105	66 - 130
Dichlorobromomethane	ND		10.0	10.2		ug/L		102	70 - 138
Bromobenzene	ND		10.0	11.0		ug/L		110	70 - 130
Chlorobromomethane	ND		10.0	11.0		ug/L		110	70 - 130
Bromoform	ND		10.0	12.0		ug/L		120	59 - 150
Bromomethane	ND		10.0	10.3		ug/L		103	62 - 131
2-Butanone (MEK)	ND		10.0	10.8		ug/L		108	48 - 140
n-Butylbenzene	ND		10.0	10.9		ug/L		109	61 - 149
sec-Butylbenzene	ND		10.0	11.1		ug/L		111	67 - 134
tert-Butylbenzene	ND		10.0	11.6		ug/L		116	70 - 130
Carbon disulfide	ND		10.0	10.1		ug/L		101	49 - 140
Carbon tetrachloride	ND		10.0	11.0		ug/L		110	60 - 150
Chlorobenzene	ND		10.0	11.3		ug/L		113	70 - 130
Chloroethane	ND		10.0	9.48		ug/L		95	68 - 130
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130
Chloromethane	ND		10.0	7.41		ug/L		74	39 - 144
2-Chlorotoluene	ND		10.0	10.6		ug/L		106	70 - 130
4-Chlorotoluene	ND		10.0	10.5		ug/L		105	70 - 130
Chlorodibromomethane	ND		10.0	11.0		ug/L		110	70 - 148
1,2-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130
1,3-Dichlorobenzene	ND		10.0	11.1		ug/L		111	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130
1,3-Dichloropropane	ND		10.0	10.5		ug/L		105	70 - 130
1,1-Dichloropropene	ND		10.0	11.2		ug/L		112	64 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	9.72		ug/L		97	48 - 140
Ethylene Dibromide	ND		10.0	11.3		ug/L		113	70 - 131
Dibromomethane	ND		10.0	10.9		ug/L		109	70 - 130
Dichlorodifluoromethane	ND		10.0	8.25		ug/L		83	25 - 142
1,1-Dichloroethane	ND		10.0	10.1		ug/L		101	65 - 130
1,2-Dichloroethane	ND		10.0	9.78		ug/L		98	56 - 146
1,1-Dichloroethene	ND		10.0	11.8		ug/L		118	70 - 130
cis-1,2-Dichloroethene	ND		10.0	10.9		ug/L		109	70 - 130
trans-1,2-Dichloroethene	ND		10.0	11.3		ug/L		113	70 - 130
1,2-Dichloropropane	ND		10.0	10.2		ug/L		102	69 - 130
cis-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 133
trans-1,3-Dichloropropene	ND		10.0	9.83		ug/L		98	70 - 138
Ethylbenzene	ND		10.0	10.8		ug/L		108	70 - 130
Hexachlorobutadiene	ND		10.0	11.5		ug/L		115	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232121-C-23 MS
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		10.0	8.27		ug/L		83	10 - 150
Isopropylbenzene	ND		10.0	11.2		ug/L		112	70 - 132
4-Isopropyltoluene	ND		10.0	11.8		ug/L		118	70 - 130
Methylene Chloride	ND		10.0	9.50		ug/L		95	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.29		ug/L		93	52 - 150
Naphthalene	ND		10.0	10.5		ug/L		105	60 - 140
N-Propylbenzene	ND		10.0	10.7		ug/L		107	66 - 135
Styrene	ND		10.0	10.2		ug/L		102	29 - 150
1,1,1,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	60 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	10.1		ug/L		101	63 - 130
Tetrachloroethene	ND		10.0	12.1		ug/L		121	70 - 137
Toluene	ND		10.0	10.5		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	ND		10.0	10.6		ug/L		106	60 - 140
1,2,4-Trichlorobenzene	ND		10.0	11.2		ug/L		112	60 - 140
1,1,1-Trichloroethane	ND		10.0	11.2		ug/L		112	70 - 130
1,1,2-Trichloroethane	ND		10.0	10.4		ug/L		104	70 - 130
Trichloroethene	ND		10.0	12.0		ug/L		120	70 - 130
Trichlorofluoromethane	ND		10.0	11.9		ug/L		119	60 - 150
1,2,3-Trichloropropane	ND	F1	10.0	12.4		ug/L		124	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.9		ug/L		119	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	10.7		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	ND		10.0	10.9		ug/L		109	70 - 130
Vinyl acetate	ND		10.0	8.51		ug/L		85	23 - 150
Vinyl chloride	ND		10.0	8.99		ug/L		90	50 - 137
m-Xylene & p-Xylene	ND		10.0	11.5		ug/L		115	70 - 133
o-Xylene	ND		10.0	11.2		ug/L		112	70 - 133
2,2-Dichloropropane	ND		10.0	10.9		ug/L		109	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-232121-C-23 MSD
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		10.0	10.5		ug/L		105	70 - 130	9	25
Acetone	ND	F1	10.0	15.3	J F1	ug/L		153	10 - 150	28	35
Benzene	ND		10.0	10.5		ug/L		105	66 - 130	0	20
Dichlorobromomethane	ND		10.0	10.4		ug/L		104	70 - 138	2	20
Bromobenzene	ND		10.0	11.2		ug/L		112	70 - 130	2	20
Chlorobromomethane	ND		10.0	12.2		ug/L		122	70 - 130	10	25
Bromoform	ND		10.0	12.5		ug/L		125	59 - 150	4	25
Bromomethane	ND		10.0	10.5		ug/L		105	62 - 131	2	25
2-Butanone (MEK)	ND		10.0	11.5		ug/L		115	48 - 140	6	40
n-Butylbenzene	ND		10.0	10.7		ug/L		107	61 - 149	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232121-C-23 MSD
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		10.0	10.8		ug/L		108	67 - 134	3	20
tert-Butylbenzene	ND		10.0	11.5		ug/L		115	70 - 130	1	20
Carbon disulfide	ND		10.0	10.1		ug/L		101	49 - 140	1	20
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	60 - 150	1	25
Chlorobenzene	ND		10.0	11.2		ug/L		112	70 - 130	1	20
Chloroethane	ND		10.0	9.49		ug/L		95	68 - 130	0	25
Chloroform	ND		10.0	10.8		ug/L		108	70 - 130	3	20
Chloromethane	ND		10.0	7.64		ug/L		76	39 - 144	3	25
2-Chlorotoluene	ND		10.0	10.2		ug/L		102	70 - 130	4	20
4-Chlorotoluene	ND		10.0	10.6		ug/L		106	70 - 130	0	20
Chlorodibromomethane	ND		10.0	11.5		ug/L		115	70 - 148	5	25
1,2-Dichlorobenzene	ND		10.0	11.1		ug/L		111	70 - 130	2	20
1,3-Dichlorobenzene	ND		10.0	11.2		ug/L		112	70 - 130	1	20
1,4-Dichlorobenzene	ND		10.0	10.7		ug/L		107	70 - 130	2	20
1,3-Dichloropropane	ND		10.0	10.7		ug/L		107	70 - 130	2	25
1,1-Dichloropropene	ND		10.0	11.1		ug/L		111	64 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		10.0	10.8		ug/L		108	48 - 140	11	30
Ethylene Dibromide	ND		10.0	11.9		ug/L		119	70 - 131	4	25
Dibromomethane	ND		10.0	11.2		ug/L		112	70 - 130	2	25
Dichlorodifluoromethane	ND		10.0	8.64		ug/L		86	25 - 142	5	30
1,1-Dichloroethane	ND		10.0	10.3		ug/L		103	65 - 130	2	20
1,2-Dichloroethane	ND		10.0	10.4		ug/L		104	56 - 146	6	20
1,1-Dichloroethene	ND		10.0	11.8		ug/L		118	70 - 130	0	20
cis-1,2-Dichloroethene	ND		10.0	11.3		ug/L		113	70 - 130	4	20
trans-1,2-Dichloroethene	ND		10.0	11.5		ug/L		115	70 - 130	1	20
1,2-Dichloropropane	ND		10.0	10.2		ug/L		102	69 - 130	1	20
cis-1,3-Dichloropropene	ND		10.0	10.3		ug/L		103	70 - 133	0	20
trans-1,3-Dichloropropene	ND		10.0	10.0		ug/L		100	70 - 138	2	25
Ethylbenzene	ND		10.0	10.6		ug/L		106	70 - 130	2	20
Hexachlorobutadiene	ND		10.0	11.0		ug/L		110	10 - 150	5	20
2-Hexanone	ND		10.0	8.80		ug/L		88	10 - 150	6	35
Isopropylbenzene	ND		10.0	11.1		ug/L		111	70 - 132	1	20
4-Isopropyltoluene	ND		10.0	11.7		ug/L		117	70 - 130	0	20
Methylene Chloride	ND		10.0	9.94		ug/L		99	52 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.46		ug/L		95	52 - 150	2	35
Naphthalene	ND		10.0	11.9		ug/L		119	60 - 140	12	30
N-Propylbenzene	ND		10.0	10.5		ug/L		105	66 - 135	2	20
Styrene	ND		10.0	10.0		ug/L		100	29 - 150	2	35
1,1,1,2-Tetrachloroethane	ND		10.0	11.2		ug/L		112	60 - 149	4	20
1,1,2,2-Tetrachloroethane	ND		10.0	10.9		ug/L		109	63 - 130	7	30
Tetrachloroethene	ND		10.0	11.8		ug/L		118	70 - 137	2	20
Toluene	ND		10.0	10.3		ug/L		103	70 - 130	2	20
1,2,3-Trichlorobenzene	ND		10.0	11.2		ug/L		112	60 - 140	5	20
1,2,4-Trichlorobenzene	ND		10.0	11.4		ug/L		114	60 - 140	2	20
1,1,1-Trichloroethane	ND		10.0	11.3		ug/L		113	70 - 130	1	20
1,1,2-Trichloroethane	ND		10.0	11.6		ug/L		116	70 - 130	10	25
Trichloroethene	ND		10.0	11.7		ug/L		117	70 - 130	2	20
Trichlorofluoromethane	ND		10.0	11.9		ug/L		119	60 - 150	0	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232121-C-23 MSD
Matrix: Water
Analysis Batch: 528261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND	F1	10.0	13.1	F1	ug/L		131	60 - 130	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.6		ug/L		116	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		10.0	10.8		ug/L		108	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		10.0	10.9		ug/L		109	70 - 130	0	20
Vinyl acetate	ND		10.0	9.35		ug/L		94	23 - 150	9	30
Vinyl chloride	ND		10.0	9.23		ug/L		92	50 - 137	3	30
m-Xylene & p-Xylene	ND		10.0	11.2		ug/L		112	70 - 133	2	25
o-Xylene	ND		10.0	11.0		ug/L		110	70 - 133	1	20
2,2-Dichloropropane	ND		10.0	10.9		ug/L		109	69 - 138	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: MB 440-528371/4
Matrix: Water
Analysis Batch: 528371

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Acetone	ND		20	10	ug/L			02/13/19 07:59	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 07:59	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 07:59	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 07:59	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 07:59	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 07:59	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 07:59	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 07:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528371/4
Matrix: Water
Analysis Batch: 528371

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 07:59	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 07:59	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 07:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 07:59	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 07:59	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 07:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 07:59	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 07:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 07:59	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 07:59	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 07:59	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 07:59	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 07:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/13/19 07:59*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 07:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528371/5
Matrix: Water
Analysis Batch: 528371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	9.57		ug/L		96	63 - 131
Acetone	10.0	ND		ug/L		36	10 - 150
Benzene	10.0	9.91		ug/L		99	68 - 130
Dichlorobromomethane	10.0	9.76		ug/L		98	70 - 132
Bromobenzene	10.0	10.1		ug/L		101	70 - 130
Chlorobromomethane	10.0	11.0		ug/L		110	70 - 130
Bromoform	10.0	10.1		ug/L		101	60 - 148
Bromomethane	10.0	10.9		ug/L		109	64 - 139
2-Butanone (MEK)	10.0	6.82		ug/L		68	44 - 150
n-Butylbenzene	10.0	9.56		ug/L		96	65 - 150
sec-Butylbenzene	10.0	9.55		ug/L		95	70 - 138
tert-Butylbenzene	10.0	9.98		ug/L		100	70 - 130
Carbon disulfide	10.0	9.35		ug/L		94	52 - 136
Carbon tetrachloride	10.0	10.1		ug/L		101	60 - 150
Chlorobenzene	10.0	10.3		ug/L		103	70 - 130
Chloroethane	10.0	9.48		ug/L		95	64 - 135
Chloroform	10.0	10.3		ug/L		103	70 - 130
Chloromethane	10.0	8.17		ug/L		82	47 - 140
2-Chlorotoluene	10.0	9.21		ug/L		92	70 - 130
4-Chlorotoluene	10.0	9.53		ug/L		95	70 - 130
Chlorodibromomethane	10.0	10.3		ug/L		103	69 - 145
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,4-Dichlorobenzene	10.0	9.82		ug/L		98	70 - 130
1,3-Dichloropropane	10.0	9.77		ug/L		98	70 - 130
1,1-Dichloropropene	10.0	9.94		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	8.74		ug/L		87	52 - 140
Ethylene Dibromide	10.0	10.2		ug/L		102	70 - 130
Dibromomethane	10.0	10.3		ug/L		103	70 - 130
Dichlorodifluoromethane	10.0	9.62		ug/L		96	29 - 150
1,1-Dichloroethane	10.0	9.61		ug/L		96	64 - 130
1,2-Dichloroethane	10.0	9.84		ug/L		98	57 - 138
1,1-Dichloroethene	10.0	10.6		ug/L		106	70 - 130
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	70 - 133
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 130
1,2-Dichloropropane	10.0	9.64		ug/L		96	67 - 130
cis-1,3-Dichloropropene	10.0	9.28		ug/L		93	70 - 133
trans-1,3-Dichloropropene	10.0	9.35		ug/L		93	70 - 132
Ethylbenzene	10.0	9.56		ug/L		96	70 - 130
Hexachlorobutadiene	10.0	11.0		ug/L		110	10 - 150
2-Hexanone	10.0	8.11		ug/L		81	10 - 150
Isopropylbenzene	10.0	10.1		ug/L		101	70 - 136
4-Isopropyltoluene	10.0	10.1		ug/L		101	70 - 132
Methylene Chloride	10.0	9.13		ug/L		91	52 - 130
4-Methyl-2-pentanone (MIBK)	10.0	7.81		ug/L		78	59 - 149
Naphthalene	10.0	9.22		ug/L		92	60 - 140
N-Propylbenzene	10.0	9.16		ug/L		92	67 - 139
Styrene	10.0	9.54		ug/L		95	70 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528371/5
Matrix: Water
Analysis Batch: 528371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	60 - 141
1,1,2,2-Tetrachloroethane	10.0	9.24		ug/L		92	63 - 130
Tetrachloroethene	10.0	10.6		ug/L		106	70 - 130
Toluene	10.0	9.36		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	10.0	10.2		ug/L		102	60 - 140
1,2,4-Trichlorobenzene	10.0	10.4		ug/L		104	60 - 140
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	70 - 130
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	70 - 130
Trichloroethene	10.0	10.7		ug/L		107	70 - 130
Trichlorofluoromethane	10.0	11.3		ug/L		113	60 - 150
1,2,3-Trichloropropane	10.0	10.3		ug/L		103	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.6		ug/L		116	60 - 140
1,2,4-Trimethylbenzene	10.0	9.49		ug/L		95	70 - 135
1,3,5-Trimethylbenzene	10.0	9.49		ug/L		95	70 - 136
Vinyl acetate	10.0	8.25		ug/L		82	48 - 140
Vinyl chloride	10.0	9.49		ug/L		95	59 - 133
m-Xylene & p-Xylene	10.0	9.90		ug/L		99	70 - 130
o-Xylene	10.0	10.1		ug/L		101	70 - 130
2,2-Dichloropropane	10.0	9.98		ug/L		100	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 440-232317-C-1 MS
Matrix: Water
Analysis Batch: 528371

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		50.0	44.9		ug/L		90	70 - 130
Acetone	250		50.0	300	4	ug/L		93	10 - 150
Benzene	ND		50.0	45.9		ug/L		92	66 - 130
Dichlorobromomethane	ND		50.0	47.7		ug/L		95	70 - 138
Bromobenzene	ND		50.0	48.6		ug/L		97	70 - 130
Chlorobromomethane	ND		50.0	51.8		ug/L		104	70 - 130
Bromoform	ND		50.0	47.4		ug/L		95	59 - 150
Bromomethane	ND		50.0	47.5		ug/L		95	62 - 131
2-Butanone (MEK)	ND		50.0	56.6		ug/L		113	48 - 140
n-Butylbenzene	ND		50.0	45.2		ug/L		90	61 - 149
sec-Butylbenzene	ND		50.0	44.7		ug/L		89	67 - 134
tert-Butylbenzene	ND		50.0	47.2		ug/L		94	70 - 130
Carbon disulfide	ND		50.0	40.2		ug/L		80	49 - 140
Carbon tetrachloride	ND		50.0	46.9		ug/L		94	60 - 150
Chlorobenzene	ND		50.0	49.1		ug/L		98	70 - 130
Chloroethane	ND		50.0	40.3		ug/L		81	68 - 130
Chloroform	1.4	J	50.0	48.4		ug/L		94	70 - 130
Chloromethane	ND		50.0	32.6		ug/L		65	39 - 144

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232317-C-1 MS
Matrix: Water
Analysis Batch: 528371

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		50.0	45.1		ug/L		90	70 - 130
4-Chlorotoluene	ND		50.0	45.2		ug/L		90	70 - 130
Chlorodibromomethane	ND		50.0	49.4		ug/L		99	70 - 148
1,2-Dichlorobenzene	34		50.0	82.6		ug/L		97	70 - 130
1,3-Dichlorobenzene	ND		50.0	49.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		50.0	48.2		ug/L		96	70 - 130
1,3-Dichloropropane	ND		50.0	45.9		ug/L		92	70 - 130
1,1-Dichloropropene	ND		50.0	44.9		ug/L		90	64 - 130
1,2-Dibromo-3-Chloropropane	ND		50.0	44.8		ug/L		90	48 - 140
Ethylene Dibromide	ND		50.0	48.1		ug/L		96	70 - 131
Dibromomethane	ND		50.0	49.7		ug/L		99	70 - 130
Dichlorodifluoromethane	ND		50.0	37.1		ug/L		74	25 - 142
1,1-Dichloroethane	13		50.0	57.3		ug/L		88	65 - 130
1,2-Dichloroethane	2.8		50.0	50.1		ug/L		94	56 - 146
1,1-Dichloroethene	240		50.0	275	4	ug/L		63	70 - 130
cis-1,2-Dichloroethene	410		50.0	446	4	ug/L		65	70 - 130
trans-1,2-Dichloroethene	1.9	J	50.0	48.6		ug/L		94	70 - 130
1,2-Dichloropropane	ND		50.0	47.4		ug/L		95	69 - 130
cis-1,3-Dichloropropene	ND		50.0	45.7		ug/L		91	70 - 133
trans-1,3-Dichloropropene	ND		50.0	45.3		ug/L		91	70 - 138
Ethylbenzene	ND		50.0	44.3		ug/L		89	70 - 130
Hexachlorobutadiene	ND		50.0	52.7		ug/L		105	10 - 150
2-Hexanone	ND		50.0	39.3		ug/L		79	10 - 150
Isopropylbenzene	ND		50.0	46.4		ug/L		93	70 - 132
4-Isopropyltoluene	ND		50.0	48.2		ug/L		96	70 - 130
Methylene Chloride	ND		50.0	41.9		ug/L		84	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		50.0	37.8		ug/L		76	52 - 150
Naphthalene	ND		50.0	45.8		ug/L		92	60 - 140
N-Propylbenzene	ND		50.0	42.7		ug/L		85	66 - 135
Styrene	ND		50.0	43.4		ug/L		87	29 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	49.0		ug/L		98	60 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	45.0		ug/L		90	63 - 130
Tetrachloroethene	13		50.0	62.7		ug/L		99	70 - 137
Toluene	1.6	J	50.0	44.6		ug/L		86	70 - 130
1,2,3-Trichlorobenzene	ND		50.0	51.9		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	6.6		50.0	57.7		ug/L		102	60 - 140
1,1,1-Trichloroethane	ND		50.0	46.5		ug/L		93	70 - 130
1,1,2-Trichloroethane	ND		50.0	46.4		ug/L		93	70 - 130
Trichloroethene	370		50.0	403	4	ug/L		76	70 - 130
Trichlorofluoromethane	ND		50.0	50.0		ug/L		100	60 - 150
1,2,3-Trichloropropane	ND		50.0	52.8		ug/L		106	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	23		50.0	72.3		ug/L		98	60 - 140
1,2,4-Trimethylbenzene	1.5	J	50.0	47.3		ug/L		91	70 - 130
1,3,5-Trimethylbenzene	ND		50.0	45.5		ug/L		91	70 - 130
Vinyl acetate	ND		50.0	38.4		ug/L		77	23 - 150
Vinyl chloride	55		50.0	90.0		ug/L		70	50 - 137
m-Xylene & p-Xylene	ND		50.0	47.9		ug/L		96	70 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232317-C-1 MS
Matrix: Water
Analysis Batch: 528371

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	ND		50.0	48.8		ug/L		98	70 - 133
2,2-Dichloropropane	ND		50.0	46.1		ug/L		92	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-232317-C-1 MSD
Matrix: Water
Analysis Batch: 528371

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		50.0	45.3		ug/L		91	70 - 130	1	25
Acetone	250		50.0	276	4	ug/L		45	10 - 150	8	35
Benzene	ND		50.0	45.8		ug/L		92	66 - 130	0	20
Dichlorobromomethane	ND		50.0	46.5		ug/L		93	70 - 138	3	20
Bromobenzene	ND		50.0	49.7		ug/L		99	70 - 130	2	20
Chlorobromomethane	ND		50.0	52.0		ug/L		104	70 - 130	0	25
Bromoform	ND		50.0	48.5		ug/L		97	59 - 150	2	25
Bromomethane	ND		50.0	47.9		ug/L		96	62 - 131	1	25
2-Butanone (MEK)	ND		50.0	65.7		ug/L		131	48 - 140	15	40
n-Butylbenzene	ND		50.0	46.3		ug/L		93	61 - 149	2	20
sec-Butylbenzene	ND		50.0	46.8		ug/L		94	67 - 134	4	20
tert-Butylbenzene	ND		50.0	48.4		ug/L		97	70 - 130	2	20
Carbon disulfide	ND		50.0	41.8		ug/L		84	49 - 140	4	20
Carbon tetrachloride	ND		50.0	47.8		ug/L		96	60 - 150	2	25
Chlorobenzene	ND		50.0	49.7		ug/L		99	70 - 130	1	20
Chloroethane	ND		50.0	41.0		ug/L		82	68 - 130	2	25
Chloroform	1.4	J	50.0	49.2		ug/L		95	70 - 130	2	20
Chloromethane	ND		50.0	33.7		ug/L		67	39 - 144	3	25
2-Chlorotoluene	ND		50.0	45.0		ug/L		90	70 - 130	0	20
4-Chlorotoluene	ND		50.0	45.2		ug/L		90	70 - 130	0	20
Chlorodibromomethane	ND		50.0	49.6		ug/L		99	70 - 148	1	25
1,2-Dichlorobenzene	34		50.0	81.7		ug/L		95	70 - 130	1	20
1,3-Dichlorobenzene	ND		50.0	49.7		ug/L		99	70 - 130	0	20
1,4-Dichlorobenzene	ND		50.0	48.1		ug/L		96	70 - 130	0	20
1,3-Dichloropropane	ND		50.0	46.2		ug/L		92	70 - 130	1	25
1,1-Dichloropropene	ND		50.0	46.5		ug/L		93	64 - 130	4	20
1,2-Dibromo-3-Chloropropane	ND		50.0	42.8		ug/L		86	48 - 140	4	30
Ethylene Dibromide	ND		50.0	47.5		ug/L		95	70 - 131	1	25
Dibromomethane	ND		50.0	48.0		ug/L		96	70 - 130	3	25
Dichlorodifluoromethane	ND		50.0	37.5		ug/L		75	25 - 142	1	30
1,1-Dichloroethane	13		50.0	58.2		ug/L		90	65 - 130	1	20
1,2-Dichloroethane	2.8		50.0	50.3		ug/L		95	56 - 146	0	20
1,1-Dichloroethene	240		50.0	274	4	ug/L		62	70 - 130	0	20
cis-1,2-Dichloroethene	410		50.0	447	4	ug/L		67	70 - 130	0	20
trans-1,2-Dichloroethene	1.9	J	50.0	49.7		ug/L		96	70 - 130	2	20
1,2-Dichloropropane	ND		50.0	47.1		ug/L		94	69 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232317-C-1 MSD
Matrix: Water
Analysis Batch: 528371

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND		50.0	44.8		ug/L		90	70 - 133	2	20
trans-1,3-Dichloropropene	ND		50.0	45.3		ug/L		91	70 - 138	0	25
Ethylbenzene	ND		50.0	46.2		ug/L		92	70 - 130	4	20
Hexachlorobutadiene	ND		50.0	53.3		ug/L		107	10 - 150	1	20
2-Hexanone	ND		50.0	37.1		ug/L		74	10 - 150	6	35
Isopropylbenzene	ND		50.0	46.7		ug/L		93	70 - 132	1	20
4-Isopropyltoluene	ND		50.0	49.3		ug/L		99	70 - 130	2	20
Methylene Chloride	ND		50.0	40.6		ug/L		81	52 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	35.5		ug/L		71	52 - 150	6	35
Naphthalene	ND		50.0	44.5		ug/L		89	60 - 140	3	30
N-Propylbenzene	ND		50.0	44.5		ug/L		89	66 - 135	4	20
Styrene	ND		50.0	44.7		ug/L		89	29 - 150	3	35
1,1,1,2-Tetrachloroethane	ND		50.0	48.6		ug/L		97	60 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		50.0	44.5		ug/L		89	63 - 130	1	30
Tetrachloroethene	13		50.0	64.4		ug/L		102	70 - 137	3	20
Toluene	1.6	J	50.0	45.9		ug/L		88	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		50.0	50.7		ug/L		101	60 - 140	2	20
1,2,4-Trichlorobenzene	6.6		50.0	57.9		ug/L		103	60 - 140	0	20
1,1,1-Trichloroethane	ND		50.0	49.2		ug/L		98	70 - 130	6	20
1,1,2-Trichloroethane	ND		50.0	47.4		ug/L		95	70 - 130	2	25
Trichloroethene	370		50.0	402	4	ug/L		73	70 - 130	0	20
Trichlorofluoromethane	ND		50.0	52.3		ug/L		105	60 - 150	4	25
1,2,3-Trichloropropane	ND		50.0	50.1		ug/L		100	60 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	23		50.0	74.5		ug/L		102	60 - 140	3	20
1,2,4-Trimethylbenzene	1.5	J	50.0	47.0		ug/L		91	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		50.0	46.5		ug/L		93	70 - 130	2	20
Vinyl acetate	ND		50.0	38.9		ug/L		78	23 - 150	1	30
Vinyl chloride	55		50.0	90.2		ug/L		71	50 - 137	0	30
m-Xylene & p-Xylene	ND		50.0	48.7		ug/L		97	70 - 133	2	25
o-Xylene	ND		50.0	49.0		ug/L		98	70 - 133	0	20
2,2-Dichloropropane	ND		50.0	48.5		ug/L		97	69 - 138	5	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-528262/4
Matrix: Water
Analysis Batch: 528262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 19:49	1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-528262/4
Matrix: Water
Analysis Batch: 528262

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		76 - 132		02/12/19 19:49	1
4-Bromofluorobenzene (Surr)	91		80 - 120		02/12/19 19:49	1
Toluene-d8 (Surr)	100		80 - 128		02/12/19 19:49	1

Lab Sample ID: LCS 440-528262/6
Matrix: Water
Analysis Batch: 528262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	439		ug/L		88	55 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		76 - 132
4-Bromofluorobenzene (Surr)	92		80 - 120
Toluene-d8 (Surr)	100		80 - 128

Lab Sample ID: 440-232121-C-23 MS
Matrix: Water
Analysis Batch: 528262

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	460		690	820		ug/L		52	50 - 145		

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	103		76 - 132
4-Bromofluorobenzene (Surr)	92		80 - 120
Toluene-d8 (Surr)	99		80 - 128

Lab Sample ID: 440-232121-C-23 MSD
Matrix: Water
Analysis Batch: 528262

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	460		690	871		ug/L		59	50 - 145	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	105		76 - 132
4-Bromofluorobenzene (Surr)	93		80 - 120
Toluene-d8 (Surr)	98		80 - 128

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-528372/4
Matrix: Water
Analysis Batch: 528372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 07:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/13/19 07:59*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/13/19 07:59*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/13/19 07:59*	*1*

Lab Sample ID: LCS 440-528372/6
Matrix: Water
Analysis Batch: 528372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	436		ug/L		87	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-232317-C-1 MS
Matrix: Water
Analysis Batch: 528372

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	1300		3450	4400		ug/L		90	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-232317-C-1 MSD
Matrix: Water
Analysis Batch: 528372

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1300		3450	4400		ug/L		90	50 - 145	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-526843/1-A
Matrix: Water
Analysis Batch: 527279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Acenaphthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Acenaphthylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Fluorene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Phenanthrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Chrysene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Fluoranthene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Pyrene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/05/19 11:37	02/07/19 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*38 - 120*	*02/05/19 11:37*	*02/07/19 09:07*	*1*
Nitrobenzene-d5	*95*		*10 - 120*	*02/05/19 11:37*	*02/07/19 09:07*	*1*
Terphenyl-d14	*109*		*21 - 120*	*02/05/19 11:37*	*02/07/19 09:07*	*1*

Lab Sample ID: LCS 440-526843/2-A
Matrix: Water
Analysis Batch: 527279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.670		ug/L		67	50 - 120
Acenaphthene	1.00	0.795		ug/L		79	55 - 120
Acenaphthylene	1.00	0.769		ug/L		77	53 - 120
Fluorene	1.00	0.876		ug/L		88	56 - 120
Phenanthrene	1.00	0.887		ug/L		89	56 - 120
Anthracene	1.00	0.843		ug/L		84	54 - 120
Benzo[a]anthracene	1.00	0.907		ug/L		91	53 - 120
Chrysene	1.00	0.924		ug/L		92	56 - 120
Benzo[a]pyrene	1.00	0.852		ug/L		85	44 - 120
Benzo[b]fluoranthene	1.00	0.925		ug/L		93	48 - 120
Benzo[k]fluoranthene	1.00	0.899		ug/L		90	47 - 121
Benzo[g,h,i]perylene	1.00	0.894		ug/L		89	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.895		ug/L		90	38 - 120
Fluoranthene	1.00	0.908		ug/L		91	59 - 120
Pyrene	1.00	0.893		ug/L		89	59 - 120
Dibenz(a,h)anthracene	1.00	0.894		ug/L		89	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*38 - 120*
Nitrobenzene-d5	*75*		*10 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-526843/2-A
Matrix: Water
Analysis Batch: 527279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526843

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*105*		*21 - 120*

Lab Sample ID: LCSD 440-526843/3-A
Matrix: Water
Analysis Batch: 527279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526843

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.00	0.857		ug/L		86	50 - 120	24	35
Acenaphthene			1.00	0.976		ug/L		98	55 - 120	20	35
Acenaphthylene			1.00	0.959		ug/L		96	53 - 120	22	35
Fluorene			1.00	1.03		ug/L		103	56 - 120	16	35
Phenanthrene			1.00	0.950		ug/L		95	56 - 120	7	35
Anthracene			1.00	0.928		ug/L		93	54 - 120	10	35
Benzo[a]anthracene			1.00	0.957		ug/L		96	53 - 120	5	35
Chrysene			1.00	0.967		ug/L		97	56 - 120	5	35
Benzo[a]pyrene			1.00	0.911		ug/L		91	44 - 120	7	35
Benzo[b]fluoranthene			1.00	1.00		ug/L		100	48 - 120	8	35
Benzo[k]fluoranthene			1.00	0.954		ug/L		95	47 - 121	6	35
Benzo[g,h,i]perylene			1.00	0.935		ug/L		94	41 - 123	5	35
Indeno[1,2,3-cd]pyrene			1.00	0.936		ug/L		94	38 - 120	4	35
Fluoranthene			1.00	0.986		ug/L		99	59 - 120	8	35
Pyrene			1.00	0.948		ug/L		95	59 - 120	6	35
Dibenz(a,h)anthracene			1.00	0.934		ug/L		93	38 - 122	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*100*		*38 - 120*
Nitrobenzene-d5	*93*		*10 - 120*
Terphenyl-d14	*111*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-527042/1-A
Matrix: Water
Analysis Batch: 527334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		02/06/19 10:01	02/07/19 14:28	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		02/06/19 10:01	02/07/19 14:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*45 - 120*	*02/06/19 10:01*	*02/07/19 14:28*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-527042/2-A
Matrix: Water
Analysis Batch: 527334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			1000	660		ug/L		66	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*69*		*45 - 120*

Lab Sample ID: LCSD 440-527042/3-A
Matrix: Water
Analysis Batch: 527334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	751		ug/L		75	40 - 115	13	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*77*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259741/1-A
Matrix: Water
Analysis Batch: 259875

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 18:36	1
Arsenic	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 18:36	1
Barium	1.73	J	50	1.6	ug/L		02/04/19 10:29	02/05/19 18:36	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 18:36	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 18:36	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/05/19 18:36	1
Cobalt	ND		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 18:36	1
Copper	ND		20	3.7	ug/L		02/04/19 10:29	02/05/19 18:36	1
Lead	ND		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 18:36	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 18:36	1
Nickel	ND		10	1.0	ug/L		02/04/19 10:29	02/05/19 18:36	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 18:36	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 18:36	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 18:36	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 18:36	1

Lab Sample ID: MB 720-259741/1-A
Matrix: Water
Analysis Batch: 259997

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/07/19 15:32	1
Arsenic	ND		10	2.9	ug/L		02/04/19 10:29	02/07/19 15:32	1
Barium	1.88	J	50	1.6	ug/L		02/04/19 10:29	02/07/19 15:32	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259741/1-A
Matrix: Water
Analysis Batch: 259997

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/07/19 15:32	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/07/19 15:32	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/07/19 15:32	1
Cobalt	ND		2.0	0.68	ug/L		02/04/19 10:29	02/07/19 15:32	1
Copper	4.15	J	20	3.7	ug/L		02/04/19 10:29	02/07/19 15:32	1
Lead	ND		5.0	2.2	ug/L		02/04/19 10:29	02/07/19 15:32	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/07/19 15:32	1
Nickel	ND		10	1.0	ug/L		02/04/19 10:29	02/07/19 15:32	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/07/19 15:32	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 15:32	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/07/19 15:32	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/07/19 15:32	1

Lab Sample ID: LCS 720-259741/2-A
Matrix: Water
Analysis Batch: 259875

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	945		ug/L		95	80 - 120
Arsenic	1000	933		ug/L		93	80 - 120
Barium	1000	897		ug/L		90	80 - 120
Beryllium	1000	898		ug/L		90	80 - 120
Cadmium	1000	974		ug/L		97	80 - 120
Chromium	1000	950		ug/L		95	80 - 120
Cobalt	1000	980		ug/L		98	80 - 120
Copper	1000	955		ug/L		96	80 - 120
Lead	1000	989		ug/L		99	80 - 120
Molybdenum	1000	941		ug/L		94	80 - 120
Nickel	1000	984		ug/L		98	80 - 120
Selenium	1000	981		ug/L		98	80 - 120
Thallium	1000	964		ug/L		96	80 - 120
Vanadium	1000	946		ug/L		95	80 - 120
Zinc	1000	975		ug/L		97	80 - 120

Lab Sample ID: LCS 720-259741/2-A
Matrix: Water
Analysis Batch: 260160

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	500	485		ug/L		97	80 - 120

Lab Sample ID: 720-91104-1 MS
Matrix: Water
Analysis Batch: 259875

Client Sample ID: DG-AB5W
Prep Type: Dissolved
Prep Batch: 259741

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	877		ug/L		88	75 - 125
Arsenic	37		1000	916		ug/L		88	75 - 125
Barium	66	B	1000	885		ug/L		82	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91104-1 MS
Matrix: Water
Analysis Batch: 259875

Client Sample ID: DG-AB5W
Prep Type: Dissolved
Prep Batch: 259741

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1.2	J	1000	895		ug/L		89	75 - 125
Cadmium	0.88	J	1000	912		ug/L		91	75 - 125
Chromium	1.2	J	1000	858		ug/L		86	75 - 125
Cobalt	5.1		1000	908		ug/L		90	75 - 125
Copper	5.7	J	1000	854		ug/L		85	75 - 125
Lead	8.4		1000	887		ug/L		88	75 - 125
Molybdenum	5.3	J	1000	869		ug/L		86	75 - 125
Nickel	3.8	J	1000	886		ug/L		88	75 - 125
Selenium	ND		1000	926		ug/L		93	75 - 125
Thallium	ND		1000	832		ug/L		83	75 - 125
Vanadium	ND		1000	861		ug/L		86	75 - 125
Zinc	ND		1000	912		ug/L		91	75 - 125

Lab Sample ID: 720-91104-1 MS
Matrix: Water
Analysis Batch: 259997

Client Sample ID: DG-AB5W
Prep Type: Dissolved
Prep Batch: 259741

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	924		ug/L		92	75 - 125
Arsenic	39		1000	931		ug/L		89	75 - 125
Barium	69	B	1000	1000		ug/L		93	75 - 125
Beryllium	ND		1000	891		ug/L		89	75 - 125
Cadmium	ND		1000	890		ug/L		89	75 - 125
Chromium	1.0	J	1000	901		ug/L		90	75 - 125
Cobalt	3.6		1000	852		ug/L		85	75 - 125
Copper	ND		1000	861		ug/L		86	75 - 125
Lead	ND		1000	892		ug/L		89	75 - 125
Molybdenum	4.4	J	1000	896		ug/L		89	75 - 125
Nickel	3.6	J	1000	882		ug/L		88	75 - 125
Selenium	ND		1000	914		ug/L		91	75 - 125
Silver	ND	F1	500	329	F1	ug/L		66	75 - 125
Vanadium	ND		1000	955		ug/L		95	75 - 125
Zinc	ND		1000	915		ug/L		91	75 - 125

Lab Sample ID: 720-91104-1 MSD
Matrix: Water
Analysis Batch: 259875

Client Sample ID: DG-AB5W
Prep Type: Dissolved
Prep Batch: 259741

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	866		ug/L		87	75 - 125	1	20
Arsenic	37		1000	912		ug/L		87	75 - 125	0	20
Barium	66	B	1000	926		ug/L		86	75 - 125	5	20
Beryllium	1.2	J	1000	876		ug/L		87	75 - 125	2	20
Cadmium	0.88	J	1000	908		ug/L		91	75 - 125	0	20
Chromium	1.2	J	1000	861		ug/L		86	75 - 125	0	20
Cobalt	5.1		1000	902		ug/L		90	75 - 125	1	20
Copper	5.7	J	1000	878		ug/L		87	75 - 125	3	20
Lead	8.4		1000	912		ug/L		90	75 - 125	3	20
Molybdenum	5.3	J	1000	869		ug/L		86	75 - 125	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91104-1 MSD
Matrix: Water
Analysis Batch: 259875

Client Sample ID: DG-AB5W
Prep Type: Dissolved
Prep Batch: 259741

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	3.8	J	1000	916		ug/L		91	75 - 125	3	20
Selenium	ND		1000	946		ug/L		95	75 - 125	2	20
Thallium	ND		1000	836		ug/L		84	75 - 125	1	20
Vanadium	ND		1000	889		ug/L		89	75 - 125	3	20
Zinc	ND		1000	929		ug/L		93	75 - 125	2	20

Lab Sample ID: 720-91104-1 MSD
Matrix: Water
Analysis Batch: 259997

Client Sample ID: DG-AB5W
Prep Type: Dissolved
Prep Batch: 259741

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	951		ug/L		95	75 - 125	3	20
Arsenic	39		1000	951		ug/L		91	75 - 125	2	20
Barium	69	B	1000	1010		ug/L		94	75 - 125	1	20
Beryllium	ND		1000	901		ug/L		90	75 - 125	1	20
Cadmium	ND		1000	917		ug/L		92	75 - 125	3	20
Chromium	1.0	J	1000	897		ug/L		90	75 - 125	0	20
Cobalt	3.6		1000	870		ug/L		87	75 - 125	2	20
Copper	ND		1000	855		ug/L		86	75 - 125	1	20
Lead	ND		1000	914		ug/L		91	75 - 125	2	20
Molybdenum	4.4	J	1000	912		ug/L		91	75 - 125	2	20
Nickel	3.6	J	1000	905		ug/L		90	75 - 125	3	20
Selenium	ND		1000	942		ug/L		94	75 - 125	3	20
Silver	ND	F1	500	337	F1	ug/L		67	75 - 125	3	20
Vanadium	ND		1000	960		ug/L		96	75 - 125	1	20
Zinc	ND		1000	939		ug/L		94	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259800/1-A
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 10:41	02/05/19 14:48	1

Lab Sample ID: LCS 720-259800/2-A
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	10.6		ug/L		106	85 - 115

Lab Sample ID: MB 720-259832/1-A
Matrix: Water
Analysis Batch: 259978

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 12:49	1

Lab Sample ID: LCS 720-259832/2-A
Matrix: Water
Analysis Batch: 259978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259832

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			10.0	9.82		ug/L		98	85 - 115		

Lab Sample ID: 720-91051-I-4-C MS
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 259800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		10.0	12.2		ug/L		122	75 - 125		

Lab Sample ID: 720-91051-I-4-D MSD
Matrix: Water
Analysis Batch: 259843

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 259800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	12.0		ug/L		120	75 - 125	2	20

Lab Sample ID: 720-91104-6 MS
Matrix: Water
Analysis Batch: 259978

Client Sample ID: DG-AQ11W
Prep Type: Dissolved
Prep Batch: 259832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		10.0	10.3		ug/L		103	75 - 125		

Lab Sample ID: 720-91104-6 MSD
Matrix: Water
Analysis Batch: 259978

Client Sample ID: DG-AQ11W
Prep Type: Dissolved
Prep Batch: 259832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	10.0		ug/L		100	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-259606/9
Matrix: Water
Analysis Batch: 259606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			01/31/19 20:55	1

Lab Sample ID: LCS 720-259606/10
Matrix: Water
Analysis Batch: 259606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	252		ug/L		101	90 - 110		

Lab Sample ID: LCSD 720-259606/11
Matrix: Water
Analysis Batch: 259606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	252		ug/L		101	90 - 110	0	20

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Lab Sample ID: 720-91104-1 MS
Matrix: Water
Analysis Batch: 259606

Client Sample ID: DG-AB5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	251		ug/L		100	85 - 115		

Lab Sample ID: 720-91104-1 MSD
Matrix: Water
Analysis Batch: 259606

Client Sample ID: DG-AB5W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	252		ug/L		101	85 - 115	0	20

GC/MS VOA

Analysis Batch: 528261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Total/NA	Water	8260B	
720-91104-2	DG-AG7W	Total/NA	Water	8260B	
720-91104-3	DG-AL5W	Total/NA	Water	8260B	
720-91104-4	DG-AQ7W	Total/NA	Water	8260B	
MB 440-528261/4	Method Blank	Total/NA	Water	8260B	
LCS 440-528261/5	Lab Control Sample	Total/NA	Water	8260B	
440-232121-C-23 MS	Matrix Spike	Total/NA	Water	8260B	
440-232121-C-23 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-2	DG-AG7W	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-3	DG-AL5W	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-4	DG-AQ7W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528262/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528262/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-232121-C-23 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-232121-C-23 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 528371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-5	DG-AW3W	Total/NA	Water	8260B	
720-91104-6	DG-AQ11W	Total/NA	Water	8260B	
720-91104-7	DG-AS11W	Total/NA	Water	8260B	
720-91104-8	DG-AT9W	Total/NA	Water	8260B	
720-91104-9	DG-AO11W	Total/NA	Water	8260B	
720-91104-10	DG-T17W	Total/NA	Water	8260B	
720-91104-11	FB-01.31.19	Total/NA	Water	8260B	
720-91104-12	DUP-31	Total/NA	Water	8260B	
720-91104-13	TB-01.31.19	Total/NA	Water	8260B	
MB 440-528371/4	Method Blank	Total/NA	Water	8260B	
LCS 440-528371/5	Lab Control Sample	Total/NA	Water	8260B	
440-232317-C-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-232317-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-5	DG-AW3W	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-6	DG-AQ11W	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-7	DG-AS11W	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-8	DG-AT9W	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 528372 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-9	DG-AO11W	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-10	DG-T17W	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-11	FB-01.31.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-12	DUP-31	Total/NA	Water	8260B/CA_LUFT MS	
720-91104-13	TB-01.31.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528372/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528372/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-232317-C-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-232317-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 526843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Total/NA	Water	3520C	
720-91104-2	DG-AG7W	Total/NA	Water	3520C	
720-91104-3	DG-AL5W	Total/NA	Water	3520C	
720-91104-4	DG-AQ7W	Total/NA	Water	3520C	
720-91104-5	DG-AW3W	Total/NA	Water	3520C	
720-91104-6	DG-AQ11W	Total/NA	Water	3520C	
720-91104-7	DG-AS11W	Total/NA	Water	3520C	
720-91104-8	DG-AT9W	Total/NA	Water	3520C	
720-91104-12	DUP-31	Total/NA	Water	3520C	
MB 440-526843/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-526843/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-526843/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 527279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Total/NA	Water	8270C SIM	526843
720-91104-2	DG-AG7W	Total/NA	Water	8270C SIM	526843
720-91104-3	DG-AL5W	Total/NA	Water	8270C SIM	526843
720-91104-4	DG-AQ7W	Total/NA	Water	8270C SIM	526843
720-91104-5	DG-AW3W	Total/NA	Water	8270C SIM	526843
720-91104-6	DG-AQ11W	Total/NA	Water	8270C SIM	526843
720-91104-7	DG-AS11W	Total/NA	Water	8270C SIM	526843
720-91104-8	DG-AT9W	Total/NA	Water	8270C SIM	526843
720-91104-12	DUP-31	Total/NA	Water	8270C SIM	526843
MB 440-526843/1-A	Method Blank	Total/NA	Water	8270C SIM	526843
LCS 440-526843/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	526843
LCSD 440-526843/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	526843

GC Semi VOA

Prep Batch: 527042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Total/NA	Water	3510C	
720-91104-2	DG-AG7W	Total/NA	Water	3510C	
720-91104-3	DG-AL5W	Total/NA	Water	3510C	
720-91104-4	DG-AQ7W	Total/NA	Water	3510C	
720-91104-5	DG-AW3W	Total/NA	Water	3510C	
720-91104-6	DG-AQ11W	Total/NA	Water	3510C	
720-91104-7	DG-AS11W	Total/NA	Water	3510C	
720-91104-8	DG-AT9W	Total/NA	Water	3510C	
720-91104-12	DUP-31	Total/NA	Water	3510C	
MB 440-527042/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-527042/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-527042/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 527334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Total/NA	Water	8015B	527042
720-91104-2	DG-AG7W	Total/NA	Water	8015B	527042
720-91104-3	DG-AL5W	Total/NA	Water	8015B	527042
720-91104-4	DG-AQ7W	Total/NA	Water	8015B	527042
720-91104-5	DG-AW3W	Total/NA	Water	8015B	527042
720-91104-6	DG-AQ11W	Total/NA	Water	8015B	527042
720-91104-7	DG-AS11W	Total/NA	Water	8015B	527042
720-91104-8	DG-AT9W	Total/NA	Water	8015B	527042
720-91104-12	DUP-31	Total/NA	Water	8015B	527042
MB 440-527042/1-A	Method Blank	Total/NA	Water	8015B	527042
LCS 440-527042/2-A	Lab Control Sample	Total/NA	Water	8015B	527042
LCSD 440-527042/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	527042

Metals

Prep Batch: 259741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Dissolved	Water	3005A	
720-91104-2	DG-AG7W	Dissolved	Water	3005A	
720-91104-3	DG-AL5W	Dissolved	Water	3005A	
720-91104-4	DG-AQ7W	Dissolved	Water	3005A	
720-91104-5	DG-AW3W	Dissolved	Water	3005A	
720-91104-6	DG-AQ11W	Dissolved	Water	3005A	
720-91104-7	DG-AS11W	Dissolved	Water	3005A	
720-91104-8	DG-AT9W	Dissolved	Water	3005A	
720-91104-12	DUP-31	Dissolved	Water	3005A	
MB 720-259741/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-259741/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-91104-1 MS	DG-AB5W	Dissolved	Water	3005A	
720-91104-1 MSD	DG-AB5W	Dissolved	Water	3005A	

Prep Batch: 259800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Dissolved	Water	7470A	
720-91104-2	DG-AG7W	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 259800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-3	DG-AL5W	Dissolved	Water	7470A	
720-91104-4	DG-AQ7W	Dissolved	Water	7470A	
720-91104-5	DG-AW3W	Dissolved	Water	7470A	
720-91104-7	DG-AS11W	Dissolved	Water	7470A	
720-91104-8	DG-AT9W	Dissolved	Water	7470A	
720-91104-12	DUP-31	Dissolved	Water	7470A	
MB 720-259800/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259800/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-91051-I-4-C MS	Matrix Spike	Dissolved	Water	7470A	
720-91051-I-4-D MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Prep Batch: 259832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-6	DG-AQ11W	Dissolved	Water	7470A	
MB 720-259832/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259832/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-91104-6 MS	DG-AQ11W	Dissolved	Water	7470A	
720-91104-6 MSD	DG-AQ11W	Dissolved	Water	7470A	

Analysis Batch: 259843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Dissolved	Water	7470A	259800
720-91104-2	DG-AG7W	Dissolved	Water	7470A	259800
720-91104-3	DG-AL5W	Dissolved	Water	7470A	259800
720-91104-4	DG-AQ7W	Dissolved	Water	7470A	259800
720-91104-5	DG-AW3W	Dissolved	Water	7470A	259800
720-91104-7	DG-AS11W	Dissolved	Water	7470A	259800
720-91104-8	DG-AT9W	Dissolved	Water	7470A	259800
720-91104-12	DUP-31	Dissolved	Water	7470A	259800
MB 720-259800/1-A	Method Blank	Total/NA	Water	7470A	259800
LCS 720-259800/2-A	Lab Control Sample	Total/NA	Water	7470A	259800
720-91051-I-4-C MS	Matrix Spike	Dissolved	Water	7470A	259800
720-91051-I-4-D MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	259800

Analysis Batch: 259875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Dissolved	Water	6010B	259741
720-91104-2	DG-AG7W	Dissolved	Water	6010B	259741
720-91104-3	DG-AL5W	Dissolved	Water	6010B	259741
720-91104-4	DG-AQ7W	Dissolved	Water	6010B	259741
720-91104-5	DG-AW3W	Dissolved	Water	6010B	259741
720-91104-6	DG-AQ11W	Dissolved	Water	6010B	259741
720-91104-7	DG-AS11W	Dissolved	Water	6010B	259741
720-91104-8	DG-AT9W	Dissolved	Water	6010B	259741
720-91104-12	DUP-31	Dissolved	Water	6010B	259741
MB 720-259741/1-A	Method Blank	Total Recoverable	Water	6010B	259741
LCS 720-259741/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259741
720-91104-1 MS	DG-AB5W	Dissolved	Water	6010B	259741
720-91104-1 MSD	DG-AB5W	Dissolved	Water	6010B	259741

Metals (Continued)

Analysis Batch: 259978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-6	DG-AQ11W	Dissolved	Water	7470A	259832
MB 720-259832/1-A	Method Blank	Total/NA	Water	7470A	259832
LCS 720-259832/2-A	Lab Control Sample	Total/NA	Water	7470A	259832
720-91104-6 MS	DG-AQ11W	Dissolved	Water	7470A	259832
720-91104-6 MSD	DG-AQ11W	Dissolved	Water	7470A	259832

Analysis Batch: 259997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Dissolved	Water	6010B	259741
720-91104-2	DG-AG7W	Dissolved	Water	6010B	259741
720-91104-3	DG-AL5W	Dissolved	Water	6010B	259741
720-91104-4	DG-AQ7W	Dissolved	Water	6010B	259741
720-91104-5	DG-AW3W	Dissolved	Water	6010B	259741
720-91104-6	DG-AQ11W	Dissolved	Water	6010B	259741
720-91104-7	DG-AS11W	Dissolved	Water	6010B	259741
720-91104-8	DG-AT9W	Dissolved	Water	6010B	259741
720-91104-12	DUP-31	Dissolved	Water	6010B	259741
MB 720-259741/1-A	Method Blank	Total Recoverable	Water	6010B	259741
720-91104-1 MS	DG-AB5W	Dissolved	Water	6010B	259741
720-91104-1 MSD	DG-AB5W	Dissolved	Water	6010B	259741

Analysis Batch: 260160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-259741/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259741

General Chemistry

Analysis Batch: 259606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91104-1	DG-AB5W	Total/NA	Water	7196A	
720-91104-2	DG-AG7W	Total/NA	Water	7196A	
720-91104-3	DG-AL5W	Total/NA	Water	7196A	
720-91104-4	DG-AQ7W	Total/NA	Water	7196A	
720-91104-5	DG-AW3W	Total/NA	Water	7196A	
720-91104-6	DG-AQ11W	Total/NA	Water	7196A	
720-91104-7	DG-AS11W	Total/NA	Water	7196A	
720-91104-8	DG-AT9W	Total/NA	Water	7196A	
720-91104-12	DUP-31	Total/NA	Water	7196A	
MB 720-259606/9	Method Blank	Total/NA	Water	7196A	
LCS 720-259606/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-259606/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-91104-1 MS	DG-AB5W	Total/NA	Water	7196A	
720-91104-1 MSD	DG-AB5W	Total/NA	Water	7196A	

Client Sample ID: DG-AB5W

Lab Sample ID: 720-91104-1

Date Collected: 01/31/19 10:00

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528261	02/13/19 03:26	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528262	02/13/19 03:26	GMA	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 12:21	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 15:10	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:01	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 19:04	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:30	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259606	01/31/19 20:55	ECB	TAL PLS

Client Sample ID: DG-AG7W

Lab Sample ID: 720-91104-2

Date Collected: 01/31/19 11:00

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528261	02/13/19 03:52	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528262	02/13/19 03:52	GMA	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 13:10	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 15:32	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:06	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 19:09	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:32	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259606	01/31/19 20:55	ECB	TAL PLS

Client Sample ID: DG-AL5W

Lab Sample ID: 720-91104-3

Date Collected: 01/31/19 11:30

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528261	02/13/19 04:17	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528262	02/13/19 04:17	GMA	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 13:34	L1B	TAL IRV

Client Sample ID: DG-AL5W

Lab Sample ID: 720-91104-3

Date Collected: 01/31/19 11:30

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 15:53	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:11	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 19:14	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:34	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259606	01/31/19 20:55	ECB	TAL PLS

Client Sample ID: DG-AQ7W

Lab Sample ID: 720-91104-4

Date Collected: 01/31/19 11:50

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528261	02/13/19 04:43	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528262	02/13/19 04:43	GMA	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 13:58	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 16:14	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:16	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 19:19	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:36	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259606	01/31/19 20:55	ECB	TAL PLS

Client Sample ID: DG-AW3W

Lab Sample ID: 720-91104-5

Date Collected: 01/31/19 12:10

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528371	02/13/19 14:45	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 14:45	RM	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 14:23	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 16:35	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:31	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS

Client Sample ID: DG-AW3W

Lab Sample ID: 720-91104-5

Date Collected: 01/31/19 12:10

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	259875	02/05/19 19:33	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:43	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259606	01/31/19 20:55	ECB	TAL PLS

Client Sample ID: DG-AQ11W

Lab Sample ID: 720-91104-6

Date Collected: 01/31/19 13:50

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528371	02/13/19 15:10	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 15:10	RM	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		5	527279	02/07/19 14:47	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 16:57	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:36	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 19:38	OBI	TAL PLS
Dissolved	Prep	7470A			259832	02/05/19 19:53	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259978	02/07/19 12:59	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259606	01/31/19 20:57	ECB	TAL PLS

Client Sample ID: DG-AS11W

Lab Sample ID: 720-91104-7

Date Collected: 01/31/19 14:20

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528371	02/13/19 15:36	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 15:36	RM	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 11:33	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 17:18	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:41	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 19:43	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:46	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259606	01/31/19 20:57	ECB	TAL PLS

Client Sample ID: DG-AT9W

Lab Sample ID: 720-91104-8

Date Collected: 01/31/19 14:40

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528371	02/13/19 16:01	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 16:01	RM	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 11:57	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 18:01	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:46	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 19:48	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:48	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259606	01/31/19 20:57	ECB	TAL PLS

Client Sample ID: DG-AO11W

Lab Sample ID: 720-91104-9

Date Collected: 01/31/19 15:20

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528371	02/13/19 16:27	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 16:27	RM	TAL IRV

Client Sample ID: DG-T17W

Lab Sample ID: 720-91104-10

Date Collected: 01/31/19 15:50

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528371	02/13/19 16:52	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 16:52	RM	TAL IRV

Client Sample ID: FB-01.31.19

Lab Sample ID: 720-91104-11

Date Collected: 01/31/19 00:00

Matrix: Water

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528371	02/13/19 17:17	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 17:17	RM	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Client Sample ID: DUP-31

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528371	02/13/19 17:43	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 17:43	RM	TAL IRV
Total/NA	Prep	3520C			526843	02/05/19 11:37	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527279	02/07/19 12:45	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 18:22	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:51	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 19:53	OBI	TAL PLS
Dissolved	Prep	7470A			259800	02/05/19 10:41	MAA	TAL PLS
Dissolved	Analysis	7470A		1	259843	02/05/19 15:50	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259606	01/31/19 20:57	ECB	TAL PLS

Client Sample ID: TB-01.31.19

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91104-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528371	02/13/19 18:08	RM	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528372	02/13/19 18:08	RM	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91104-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91104-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91104-1	DG-AB5W	Water	01/31/19 10:00	01/31/19 18:50
720-91104-2	DG-AG7W	Water	01/31/19 11:00	01/31/19 18:50
720-91104-3	DG-AL5W	Water	01/31/19 11:30	01/31/19 18:50
720-91104-4	DG-AQ7W	Water	01/31/19 11:50	01/31/19 18:50
720-91104-5	DG-AW3W	Water	01/31/19 12:10	01/31/19 18:50
720-91104-6	DG-AQ11W	Water	01/31/19 13:50	01/31/19 18:50
720-91104-7	DG-AS11W	Water	01/31/19 14:20	01/31/19 18:50
720-91104-8	DG-AT9W	Water	01/31/19 14:40	01/31/19 18:50
720-91104-9	DG-AO11W	Water	01/31/19 15:20	01/31/19 18:50
720-91104-10	DG-T17W	Water	01/31/19 15:50	01/31/19 18:50
720-91104-11	FB-01.31.19	Water	01/31/19 00:00	01/31/19 18:50
720-91104-12	DUP-31	Water	01/31/19 00:00	01/31/19 18:50
720-91104-13	TB-01.31.19	Water	01/31/19 00:00	01/31/19 18:50

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-91104

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1582619

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/31/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91104 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG-AB5W	1/31/2019	1000	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG-AG7W	1/31/2019	1100	G	GW	9	Y		X	X	X	X	X	
3	DG-AL5W	1/31/2019	1130	G	GW	9	Y		X	X	X	X	X	
4	DG-AQ7W	1/31/2019	1150	G	GW	9	Y		X	X	X	X	X	
5	DG-AW3W	1/31/2019	1210	G	GW	9	Y		X	X	X	X	X	
6	DG-AQ11W	1/31/2019	1350	G	GW	9	Y		X	X	X	X	X	
7	DG-AS11W	1/31/2019	1420	G	GW	9	Y		X	X	X	X	X	
8	DG-AT9W	1/31/2019	1440	G	GW	9	Y		X	X	X	X	X	
9	DG-AO11W	1/31/2019	1520	G	GW	3	N		X					
10	DG-T17W	1/31/2019	1550	G	GW	3	N		X					
11	FB-01.31.19	1/31/2019		G	GW	2	N		X					
(N8)	~~DUP-75~~ DUP-31	1/31/2019		G	GW	9	Y		X	X	X	X	X	
12														

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.5°C, 1.5°C, 0.8°C, 0.0°C, 2.2°C, 1.1°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____	Therm ID No _____
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/31/2019 1615	Received by:	Company: TA PLS	Date/Time: 1-31-19 1615
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19 1615	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/31/19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2/18/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-91104 Chain of Custody Record

158024

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/31/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec com, mkahrilas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
			G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
13 TB-01.31.19	1/31/2019		G	GW	2	N		X					

MS MS MS MS

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____	Therm ID No _____

Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/31/2019 1615	Received by:	Company: TA PLS	Date/Time: 1-31-19 16:15
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-31-19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41028.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91104-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/12/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AB5W (720-91104-1)	1/31/19	10:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AG7W (720-91104-2)	1/31/19	11.00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AL5W (720-91104-3)	1/31/19	11:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AQ7W (720-91104-4)	1/31/19	11:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AW3W (720-91104-5)	1/31/19	12:10 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AQ11W (720-91104-6)	1/31/19	13:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AS11W (720-91104-7)	1/31/19	14:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AT9W (720-91104-8)	1/31/19	14:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AO11W (720-91104-9)	1/31/19	15:20 Pacific		Water			X	X			3	check for 2 phases

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:
Relinquished by:	Date/Time: 1/31/19 1232 Company: TAPL Received by: Date/Time: Company:
Relinquished by:	Date/Time: Company: Received by: Date/Time: 2/1/19 @ 1045 Company: TAL
Relinquished by:	Date/Time: Company: Received by: Date/Time: Company:
Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 4571 3458 Cooler Temperature(s) °C and Other Remarks: 3.0/3.5

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No.: 720-41028.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91104-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/12/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastes/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-T17W (720-91104-10)	1/31/19	15:50 Pacific		Water			X	X			3	check for 2 phases
FB-01.31.19 (720-91104-11)	1/31/19	Pacific		Water			X	X			2	check for 2 phases
DUP-31 (720-91104-12)	1/31/19	Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-01.31.19 (720-91104-13)	1/31/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		2/1/19 1232	TAPLS			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91104-1

Login Number: 91104
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91104-1

Login Number: 91104
List Number: 2
Creator: Avila, Stephanie 1

List Source: TestAmerica Irvine
List Creation: 02/02/19 01:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91105-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 8:53:05 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91105-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91105-1

Comments
Client was informed of broken vials when sample acknowledgments were sent.
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 1/31/2019 6:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.0º C, 0.8º C, 1.5º C, 1.5º C, 2.2º C and 4.1º C.

Receipt Exceptions

One or more containers for the following sample was received broken or leaking: FB-01.31.19 (720-91105-18).
Received both FB vials broken.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-526536 recovered above the upper control limit for Vinyl chloride and 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AS11S-0.5-1 (720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AS11S-7.5-8 (720-91105-3), DG-AW3S-0.5-1 (720-91105-4), DG-AW3S-3.5-4 (720-91105-5), DG-AY3S-0.5-1 (720-91105-6), DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8) and (CCVIS 440-526536/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The method blank for preparation batch 720-259667 and analytical batch 720-260119 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259667 and analytical batch 720-260119 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-AW3S-3.5-4 (720-91105-5). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259687 and analytical batch 720-260175 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AS11S-0.5-1 (720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AW3S-0.5-1 (720-91105-4), DG-AY3S-0.5-1 (720-91105-6), DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8), DG-Y15S-3.5-4 (720-91105-9), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11), DUP-109 (720-91105-12), DG-AC15S-3.5-4 (720-91105-13), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-0.5-1 (720-91105-15), DG-AN13S-9.5-10 (720-91105-17) and DUP-111 (720-91105-20). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Internal standard (ISTD) response for the following sample was outside control limits: DG-AN13S-9.5-10 (720-91105-17). The sample(s) was re-analyzed with concurring results, and the original set of data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following 8015-DRO samples required a dilution due to the nature of the sample matrix: DG-AS11S-0.5-1 (720-91105-1), (720-91105-E-1-A MS) and (720-91105-E-1-B MSD). Because of this dilution, the surrogate spike concentration in the

Job ID: 720-91105-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: Due to the high concentration of C10-C28, the 8015-DRO matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 440-526652 and analytical batch 440-526844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015B: The 8015-DRO method blank for preparation batch 440-526652 and analytical batch 440-526644 contained C10-C28 and C24-C36 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The following 8015-DRO sample required a dilution due to the nature of the sample matrix: DG-AN13S-0.5-1 (720-91105-15). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AS11S-0.5-1 (720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AS11S-7.5-8 (720-91105-3), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11), DG-AC15S-3.5-4 (720-91105-13), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-0.5-1 (720-91105-15), DG-AN13S-9.5-10 (720-91105-17), DUP-111 (720-91105-20), (720-91105-E-1-D MS) and (720-91105-E-1-E MSD).

Method 8082: The following sample contained more than one Aroclor with insufficient separation. Results biased high due to shared peaks: DG-AS11S-0.5-1 (720-91105-1).

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 440-527345 and analytical batch 440-527416 were outside control limits: (720-91105-E-1-F MS) and (720-91105-E-1-G MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AC15S-3.5-4 (720-91105-13), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-9.5-10 (720-91105-17) and DUP-111 (720-91105-20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The method blank for preparation batch 720-259629 and analytical batch 720-259950 contained Barium, Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259629 and analytical batch 720-259950 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Chromium-129%, Copper-148%, Lead-260%, Vanadium-134%, Zinc-140% associated with batch 720-259950 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259950 was outside control limits for Cobalt-25%, Lead-12%: (720-91012-A-16-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AS11S-0.5-1 (720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AS11S-7.5-8 (720-91105-3), DG-AW3S-0.5-1 (720-91105-4), DG-AW3S-3.5-4 (720-91105-5), DG-AY3S-0.5-1 (720-91105-6), DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8), DG-Y15S-3.5-4 (720-91105-9), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11), DUP-109 (720-91105-12), DG-AC15S-3.5-4 (720-91105-13) and DG-AC15S-7.5-8 (720-91105-14). Elevated reporting limits (RLs) are provided.

Method 7471A: The method blank for preparation batch 720-259641 and analytical batch 720-260373 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Job ID: 720-91105-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 6010B: The method blank for preparation batch 720-259672 and analytical batch 720-260374 contained Beryllium, Antimony, and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259672 and analytical batch 720-260374 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-133%, Beryllium-128%, Chromium-128%, Copper-127%, Molybdenum-126%, and Vanadium-192% associated with batch 720-260374 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260374 was outside control limits for Cobalt-16%, Chromium-15%, Nickel-16% and Vanadium-11%: (720-91106-A-6-F SD)

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-260374 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DUP-111 (720-91105-20) and (CCV 720-260374/43). Affected sample results for these compounds have been qualified with a "^" symbol .

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AN13S-0.5-1 (720-91105-15), DG-AN13S-3.5-4 (720-91105-16), DG-AN13S-9.5-10 (720-91105-17) and DUP-111 (720-91105-20). Elevated reporting limits (RLs) are provided.

Method 6010B: The following sample was diluted to bring the concentration of target analyte (Lead) within the calibration range: DG-AN13S-9.5-10 (720-91105-17). Elevated reporting limits (RLs) are provided.

Method 6010B: The following sample was diluted due to the abundance of non-target analytes: DG-AN13S-9.5-10 (720-91105-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: 8270_SIM_3546: Due to the matrix, the following sample could not be concentrated to the final method required volume and was volumed to 2 mL. DG-AS11S-0.5-1 (720-91105-1). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM_3546: Due to the matrix, the following samples could not be concentrated to the final method required volume and were volumed to 2 mL. DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11) and DG-AC15S-7.5-8 (720-91105-14). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM_3546: Due to the matrix, the following sample could not be concentrated to the final method required volume and was volumed to 5 mL. DG-AN13S-0.5-1 (720-91105-15). The reporting limits (RLs) are elevated proportionately.

Method 3546:8015B DRO: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AS11S-0.5-1 (720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AW3S-0.5-1 (720-91105-4), DG-AW3S-3.5-4 (720-91105-5), DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8), DG-Y15S-3.5-4 (720-91105-9), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11), DUP-109 (720-91105-12), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-0.5-1 (720-91105-15), DUP-111 (720-91105-20), (720-91105-E-1 MS) and (720-91105-E-1 MSD). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8015B DRO: The following samples were diluted due to the nature of the sample matrix: DG-AS11S-7.5-8 (720-91105-3), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-3.5-4 (720-91105-13), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-0.5-1 (720-91105-15) and DG-AN13S-9.5-10 (720-91105-17). Elevated reporting limits (RLs) are provided.

Job ID: 720-91105-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 3546: 8082_PCB: The following sample was diluted due to the nature of the sample matrix: DG-AC15S-7.5-8 (720-91105-14). Elevated reporting limits (RLs) are provided.

Method 3546: 8081A_PEST: The following sample was diluted due to the nature of the sample matrix: DG-AC15S-7.5-8 (720-91105-14). Elevated reporting limits (RLs) are provided.

Method 3546: 8081A_PEST: The following samples were diluted due to the nature of the sample matrix: DG-AS11S-3.5-4 (720-91105-2) and DG-AS11S-7.5-8 (720-91105-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AS11S-0.5-1

Lab Sample ID: 720-91105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	460	J	490	190	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	590		490	210	ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	510		490	420	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	300	J B	490	210	ug/Kg	50		8270C SIM	Total/NA
Chrysene	190	J	490	140	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	400	J	490	140	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	190	J	490	180	ug/Kg	50		8270C SIM	Total/NA
Pyrene	460	J	490	170	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2000	B	100	50	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2700	B	100	50	mg/Kg	10		8015B	Total/NA
4,4'-DDT	3.3	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	2.7	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1254	46	J	49	17	ug/Kg	1		8082	Total/NA
Aroclor 1260	29	J F1	49	17	ug/Kg	1		8082	Total/NA
Antimony	19		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	20		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	550	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.32		0.24	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	3.3		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	59		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	430		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	3200	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.68	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	34		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	3.9		2.4	0.35	mg/Kg	4		6010B	Total/NA
Silver	4.0		0.59	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	22		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	1400		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	1.5		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS11S-3.5-4

Lab Sample ID: 720-91105-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	29	J	49	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	130		49	15	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	120		49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	240		49	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	90		49	42	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	72	B	49	21	ug/Kg	10		8270C SIM	Total/NA
Chrysene	130		49	14	ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	43	J	49	34	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	220		49	14	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	82		49	41	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	54		49	34	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	90		49	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	190		49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	53	B	10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	76	B	10	5.0	mg/Kg	1		8015B	Total/NA
Aroclor 1260	27	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	39		4.0	0.66	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AS11S-3.5-4 (Continued) Lab Sample ID: 720-91105-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	30		8.0	0.68	mg/Kg	10		6010B	Total/NA
Barium	1700	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	11		1.0	0.099	mg/Kg	10		6010B	Total/NA
Chromium	360		4.0	0.42	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.6	0.16	mg/Kg	10		6010B	Total/NA
Copper	2400		12	5.7	mg/Kg	10		6010B	Total/NA
Lead	7100	B	4.0	0.84	mg/Kg	10		6010B	Total/NA
Molybdenum	1.0	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	73		4.0	0.41	mg/Kg	10		6010B	Total/NA
Silver	8.6		2.0	0.40	mg/Kg	10		6010B	Total/NA
Vanadium	43		4.0	0.54	mg/Kg	10		6010B	Total/NA
Zinc	4100		12	5.1	mg/Kg	10		6010B	Total/NA
Mercury	1.4		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS11S-7.5-8 Lab Sample ID: 720-91105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	2.7	J	4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	6.0		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	2.8	J B	4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Chrysene	4.1	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	6.1		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	7.4		4.9	3.5	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	11		4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	4.4	J	4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	11	B	7.5	3.8	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	11	B	7.5	3.8	mg/Kg	1		8015B	Total/NA
Antimony	63		3.8	0.64	mg/Kg	10		6010B	Total/NA
Arsenic	34		7.7	0.65	mg/Kg	10		6010B	Total/NA
Barium	1300	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.97		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	8.8		0.96	0.095	mg/Kg	10		6010B	Total/NA
Chromium	43		3.8	0.41	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	1300		12	5.5	mg/Kg	10		6010B	Total/NA
Lead	7300	B	3.8	0.81	mg/Kg	10		6010B	Total/NA
Molybdenum	1.6		1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	55		3.8	0.39	mg/Kg	10		6010B	Total/NA
Selenium	2.8	J	7.7	1.2	mg/Kg	10		6010B	Total/NA
Silver	6.3		1.9	0.39	mg/Kg	10		6010B	Total/NA
Vanadium	35		3.8	0.52	mg/Kg	10		6010B	Total/NA
Zinc	3100		12	4.9	mg/Kg	10		6010B	Total/NA
Mercury	0.26	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW3S-0.5-1 Lab Sample ID: 720-91105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	65	J	98	49	ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	55		49	24	ug/Kg	10		8270C SIM	Total/NA
Anthracene	76		49	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	180		49	15	ug/Kg	10		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AW3S-0.5-1 (Continued) Lab Sample ID: 720-91105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	340		49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	440		49	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	230		49	42	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	180	B	49	21	ug/Kg	10		8270C SIM	Total/NA
Chrysene	220		49	14	ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	76		49	34	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	230		49	14	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	200		49	41	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	75		49	34	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	110		49	18	ug/Kg	10		8270C SIM	Total/NA
Pyrene	260		49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	42	B	10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	52	B	10	5.0	mg/Kg	1		8015B	Total/NA
4,4'-DDT	1.5	J p	4.9	1.5	ug/Kg	1		8081A	Total/NA
Aroclor 1260	25	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	3.4		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	55		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	120	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	38		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	160		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	230	B	1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	3.2		1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	35		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	330		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.23	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW3S-3.5-4 Lab Sample ID: 720-91105-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	45	J	49	25	ug/Kg	5		8270C SIM	Total/NA
Acenaphthylene	69		25	12	ug/Kg	5		8270C SIM	Total/NA
Anthracene	43		25	9.9	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	140	F1	25	7.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	290		25	9.4	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	380		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	200		25	21	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	130		25	10	ug/Kg	5		8270C SIM	Total/NA
Chrysene	200		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	44		25	17	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	250		25	6.9	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	150		25	21	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	72		25	17	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	90		25	8.9	ug/Kg	5		8270C SIM	Total/NA
Pyrene	380		25	8.4	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	54	B	9.9	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	80	B	9.9	5.0	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AW3S-3.5-4 (Continued) Lab Sample ID: 720-91105-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	120		2.6	0.23	mg/Kg	4		6010B	Total/NA
Barium	130	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.15	J	0.26	0.086	mg/Kg	4		6010B	Total/NA
Cadmium	0.60		0.33	0.033	mg/Kg	4		6010B	Total/NA
Chromium	21		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.53	0.053	mg/Kg	4		6010B	Total/NA
Copper	130		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	150	B	1.3	0.28	mg/Kg	4		6010B	Total/NA
Molybdenum	0.29	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	18		1.3	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.6	0.40	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.66	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	260		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.19	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AY3S-0.5-1 Lab Sample ID: 720-91105-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	7.8	J	9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	12		9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	3.8	J	9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	11		9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	15		9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	14		9.8	8.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	6.9	J	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	6.0	J	9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	8.0	J	9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	10		9.8	8.2	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	4.4	J	9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	9.6	J	9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	17	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	14	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	0.44	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	8.8		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	37	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	13		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	120		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	22	B	1.3	0.26	mg/Kg	4		6010B	Total/NA
Nickel	6.5		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	54		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.081	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AY3S-3.5-4 Lab Sample ID: 720-91105-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	240	J	500	240	ug/Kg	50		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AY3S-3.5-4 (Continued) Lab Sample ID: 720-91105-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	440	J	500	190	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	470	J	500	210	ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	560		500	430	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	280	J	500	210	ug/Kg	50		8270C SIM	Total/NA
Chrysene	170	J	500	140	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	270	J	500	140	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	250	J	500	180	ug/Kg	50		8270C SIM	Total/NA
Pyrene	420	J	500	170	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	130	B	10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	170	B	10	5.0	mg/Kg	1		8015B	Total/NA
Antimony	2.6		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	150		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	61	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	0.49		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	23		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	9.7		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	89		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	62	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	22		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	100		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.27	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y15S-0.5-1 Lab Sample ID: 720-91105-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.45	J	0.89	0.44	ug/Kg	1		8260B	Total/NA
Anthracene	85	J	200	79	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	100	J	200	75	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	140	J	200	83	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	87	J	200	55	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	77	J	200	71	ug/Kg	20		8270C SIM	Total/NA
Pyrene	110	J	200	67	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	620	B	10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	860	B	10	5.0	mg/Kg	1		8015B	Total/NA
Dieldrin	2.4	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
Antimony	2.5		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	6.8		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	60	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.96		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	56		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	6.9		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	73		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	200	B	1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.79	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	19		1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	520		4.4	1.9	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y15S-0.5-1 (Continued) Lab Sample ID: 720-91105-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.12	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y15S-3.5-4 Lab Sample ID: 720-91105-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.2		0.88	0.44	ug/Kg	1		8260B	Total/NA
Anthracene	13	J	24	9.8	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	16	J	24	9.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	20	J	24	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	14	J	24	10	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	12	J	24	6.8	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	13	J	24	8.8	ug/Kg	5		8270C SIM	Total/NA
Pyrene	18	J	24	8.3	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	180	B	10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	270	B	10	5.0	mg/Kg	1		8015B	Total/NA
Antimony	4.2		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	4.2		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	75	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.38		0.26	0.085	mg/Kg	4		6010B	Total/NA
Cadmium	0.40		0.33	0.032	mg/Kg	4		6010B	Total/NA
Chromium	130		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	65		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	15	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	120		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.9	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	90		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	82		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	1.2	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y15S-7.5-8 Lab Sample ID: 720-91105-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	210000		20000	14000	ug/Kg	200		8260B/CA_LUFT MS	Total/NA
1,1,1-Trichloroethane	120	J	200	100	ug/Kg	200		8260B	Total/NA
1,1-Dichloroethane	120	J	200	100	ug/Kg	200		8260B	Total/NA
Chloroethane	260	J	500	200	ug/Kg	200		8260B	Total/NA
cis-1,2-Dichloroethene	540		200	100	ug/Kg	200		8260B	Total/NA
Trichloroethene	100	J	200	100	ug/Kg	200		8260B	Total/NA
2-Methylnaphthalene	2600		390	200	ug/Kg	20		8270C SIM	Total/NA
Acenaphthene	1000		200	110	ug/Kg	20		8270C SIM	Total/NA
Acenaphthylene	400		200	95	ug/Kg	20		8270C SIM	Total/NA
Anthracene	260		200	79	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	170	J	200	75	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	250		200	83	ug/Kg	20		8270C SIM	Total/NA
Chrysene	280		200	55	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	290		200	55	ug/Kg	20		8270C SIM	Total/NA
Fluorene	820		200	87	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	1300		200	140	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	990		200	71	ug/Kg	20		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y15S-7.5-8 (Continued) Lab Sample ID: 720-91105-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	830		200	67	ug/Kg	20		8270C SIM	Total/NA
Motor Oil Range Organics [C24-C36]	1600	B	30	15	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28] - DL	3600	B	150	76	mg/Kg	5		8015B	Total/NA
Antimony	1.7		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	7.6		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	42	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.84		0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	0.37		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	31		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	50		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	20	B	1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	31		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Thallium	0.37	J	1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	87		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.081	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC15S-0.5-1 Lab Sample ID: 720-91105-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	170	J	490	140	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	330	J	490	180	ug/Kg	50		8270C SIM	Total/NA
Pyrene	260	J	490	170	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	330	B	10	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	490	B	10	5.0	mg/Kg	1		8015B	Total/NA
Antimony	1.8		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	6.9		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	77	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.90		0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.33	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	47		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	32		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	19	B	1.8	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.41	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	37		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.7	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	61		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	83		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.053	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-109 Lab Sample ID: 720-91105-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.1		0.73	0.36	ug/Kg	1		8260B	Total/NA
Anthracene	13	J	25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	20	J	25	9.5	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	29		25	10	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	16	J	25	10	ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-109 (Continued) Lab Sample ID: 720-91105-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	9.3	J	25	7.0	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	18	J	25	7.0	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	16	J	25	9.0	ug/Kg	5		8270C SIM	Total/NA
Pyrene	26		25	8.5	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	120	B	9.9	5.0	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	170	B	9.9	5.0	mg/Kg	1		8015B	Total/NA
Antimony	5.2		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	4.2		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	51	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.47		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.51		0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	150		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	75		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	23	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	150		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	96		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	120		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.73	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC15S-3.5-4 Lab Sample ID: 720-91105-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	62	J	98	55	ug/Kg	20		8270C SIM	Total/NA
Acenaphthylene	130		98	47	ug/Kg	20		8270C SIM	Total/NA
Anthracene	2400		98	39	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	2000		98	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	2100		98	37	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	3200		98	41	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	610		98	84	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	1200		98	41	ug/Kg	20		8270C SIM	Total/NA
Chrysene	2400		98	27	ug/Kg	20		8270C SIM	Total/NA
Dibenz(a,h)anthracene	250		98	68	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	6600		98	27	ug/Kg	20		8270C SIM	Total/NA
Fluorene	96	J	98	43	ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	650		98	82	ug/Kg	20		8270C SIM	Total/NA
Naphthalene	73	J	98	68	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	240		98	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	6100		98	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	44	B	7.5	3.7	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	38	B	7.5	3.7	mg/Kg	1		8015B	Total/NA
Antimony	2.5		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	85		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	59	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.29		0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	57		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	39		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	150	B	1.2	0.25	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AC15S-3.5-4 (Continued) Lab Sample ID: 720-91105-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.25	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	27		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	260		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.13	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC15S-7.5-8 Lab Sample ID: 720-91105-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	97000		12000	8200	ug/Kg	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	530		120	58	ug/Kg	100		8260B	Total/NA
1,3,5-Trimethylbenzene	150		120	58	ug/Kg	100		8260B	Total/NA
4-Isopropyltoluene	180		120	58	ug/Kg	100		8260B	Total/NA
Ethylbenzene	76	J	120	58	ug/Kg	100		8260B	Total/NA
Isopropylbenzene	64	J	120	58	ug/Kg	100		8260B	Total/NA
Naphthalene	1400		290	120	ug/Kg	100		8260B	Total/NA
n-Butylbenzene	130	J	290	120	ug/Kg	100		8260B	Total/NA
N-Propylbenzene	91	J	120	58	ug/Kg	100		8260B	Total/NA
sec-Butylbenzene	67	J	290	58	ug/Kg	100		8260B	Total/NA
Xylenes, Total	370		230	120	ug/Kg	100		8260B	Total/NA
2-Methylnaphthalene	12000		990	500	ug/Kg	50		8270C SIM	Total/NA
Acenaphthene	1100		500	280	ug/Kg	50		8270C SIM	Total/NA
Acenaphthylene	410	J	500	240	ug/Kg	50		8270C SIM	Total/NA
Anthracene	690		500	200	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]anthracene	700		500	150	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	710		500	190	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	830		500	210	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	360	J	500	210	ug/Kg	50		8270C SIM	Total/NA
Chrysene	870		500	140	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	1400		500	140	ug/Kg	50		8270C SIM	Total/NA
Fluorene	2200		500	220	ug/Kg	50		8270C SIM	Total/NA
Naphthalene	6500		500	350	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	4200		500	180	ug/Kg	50		8270C SIM	Total/NA
Pyrene	2800		500	170	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3800	B	150	75	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2300	B	150	75	mg/Kg	5		8015B	Total/NA
Antimony	120		6.6	1.1	mg/Kg	20		6010B	Total/NA
Arsenic	50		13	1.1	mg/Kg	20		6010B	Total/NA
Barium	720	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.44		0.26	0.086	mg/Kg	4		6010B	Total/NA
Cadmium	17		1.6	0.16	mg/Kg	20		6010B	Total/NA
Chromium	65		6.6	0.70	mg/Kg	20		6010B	Total/NA
Cobalt	8.9		2.6	0.26	mg/Kg	20		6010B	Total/NA
Copper	1900		20	9.4	mg/Kg	20		6010B	Total/NA
Lead	6400	B	6.6	1.4	mg/Kg	20		6010B	Total/NA
Nickel	58		6.6	0.67	mg/Kg	20		6010B	Total/NA
Silver	17		3.3	0.66	mg/Kg	20		6010B	Total/NA
Vanadium	40		6.6	0.89	mg/Kg	20		6010B	Total/NA
Zinc	15000		20	8.4	mg/Kg	20		6010B	Total/NA
Mercury	2.6	B	0.064	0.0094	mg/Kg	4		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AN13S-0.5-1

Lab Sample ID: 720-91105-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	700	J	2400	690	ug/Kg	100		8270C SIM	Total/NA
Pyrene	1300	J	2400	830	ug/Kg	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	3400	B	300	150	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	6700	B	300	150	mg/Kg	10		8015B	Total/NA
4,4'-DDE	2.8	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
Antimony	0.92	J B	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	6.0		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	47		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.60	B	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	37		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	38		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	11		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	54		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J B	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	45		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.013	J B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AN13S-3.5-4

Lab Sample ID: 720-91105-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2.0	J	4.9	2.0	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	6.4		4.9	1.9	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	9.5		4.9	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	5.9		4.9	4.2	ug/Kg	1		8270C SIM	Total/NA
Chrysene	3.6	J	4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	9.5		4.9	1.4	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	4.7	J	4.9	4.1	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	4.7	J	4.9	1.8	ug/Kg	1		8270C SIM	Total/NA
Pyrene	13		4.9	1.7	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	26	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	33	B	5.0	2.5	mg/Kg	1		8015B	Total/NA
Antimony	1.1	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	0.39	J	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	250		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.77	B	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.28	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	41		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	81		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	5.4		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	35		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J B	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.29	J	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	69		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.14	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AN13S-9.5-10 — Lab Sample ID: 720-91105-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	79	J	99	69	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Carbon disulfide	1.4	J	2.0	0.99	ug/Kg	1		8260B	Total/NA
n-Butylbenzene	1.2	J	2.0	0.99	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	46		9.9	5.0	ug/Kg	1		8260B	Total/NA
2-Methylnaphthalene	280		97	49	ug/Kg	10		8270C SIM	Total/NA
Acenaphthene	88		49	27	ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	120		49	23	ug/Kg	10		8270C SIM	Total/NA
Anthracene	53		49	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	38	J *	49	18	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	67	*	49	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	34	J *	49	20	ug/Kg	10		8270C SIM	Total/NA
Chrysene	36	J	49	14	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	120		49	14	ug/Kg	10		8270C SIM	Total/NA
Fluorene	34	J	49	21	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	4900		49	34	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	330		49	17	ug/Kg	10		8270C SIM	Total/NA
Pyrene	160		49	17	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	54	B	15	7.6	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	31	B	15	7.6	mg/Kg	1		8015B	Total/NA
Antimony	18	B	9.6	1.6	mg/Kg	20		6010B	Total/NA
Arsenic	28		19	1.6	mg/Kg	20		6010B	Total/NA
Barium	500		9.6	1.4	mg/Kg	20		6010B	Total/NA
Cadmium	3.7		2.4	0.24	mg/Kg	20		6010B	Total/NA
Chromium	58		9.6	1.0	mg/Kg	20		6010B	Total/NA
Cobalt	6.0		3.8	0.38	mg/Kg	20		6010B	Total/NA
Copper	1200		29	14	mg/Kg	20		6010B	Total/NA
Lead	9200		9.6	2.0	mg/Kg	20		6010B	Total/NA
Molybdenum	3.7	J	9.6	1.2	mg/Kg	20		6010B	Total/NA
Nickel	34		9.6	0.98	mg/Kg	20		6010B	Total/NA
Silver	4.7	J	4.8	0.97	mg/Kg	20		6010B	Total/NA
Vanadium	19		9.6	1.3	mg/Kg	20		6010B	Total/NA
Zinc	2900		29	12	mg/Kg	20		6010B	Total/NA
Mercury	12	B	0.16	0.023	mg/Kg	10		7471A	Total/NA

Client Sample ID: TB-01.31.19 — Lab Sample ID: 720-91105-19

No Detections.

Client Sample ID: DUP-111 — Lab Sample ID: 720-91105-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	10	J	20	9.8	ug/Kg	2		8270C SIM	Total/NA
Acenaphthene	48		9.8	5.5	ug/Kg	2		8270C SIM	Total/NA
Anthracene	16		9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	6.2	J	9.8	3.7	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	9.6	J	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	4.9	J	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	5.0	J	9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	16		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Fluorene	50		9.8	4.3	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	9.8		9.8	6.9	ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-111 (Continued) Lab Sample ID: 720-91105-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	79		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	15		9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	910	B	15	7.5	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1100	B	15	7.5	mg/Kg	1		8015B	Total/NA
Aroclor 1260	18	J	49	17	ug/Kg	1		8082	Total/NA
Antimony	0.79	J B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	4.9		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	120		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.77	B	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	55		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	23		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	13		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	41		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.78	J B	3.4	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	58		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	55		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.036	B	0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AS11S-0.5-1 Lab Sample ID: 720-91105-1

Date Collected: 01/31/19 08:20 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		83	58	ug/Kg		01/31/19 19:00	02/04/19 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/31/19 19:00*	*02/04/19 14:02*	*1*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*	*01/31/19 19:00*	*02/04/19 14:02*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*	*01/31/19 19:00*	*02/04/19 14:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,1,1-Trichloroethane	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,1,2-Trichloroethane	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,1-Dichloroethane	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,1-Dichloroethene	ND		1.7	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,1-Dichloropropene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,2,3-Trichlorobenzene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,2,4-Trichlorobenzene	ND		4.1	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.7	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,2-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,2-Dichloroethane	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,2-Dichloropropane	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,3-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,3-Dichloropropane	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,4-Dichlorobenzene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
2-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
2-Hexanone	ND		8.3	4.1	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
4-Chlorotoluene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
4-Isopropyltoluene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Benzene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Bromobenzene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Bromoform	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Bromomethane	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Carbon disulfide	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Carbon tetrachloride	ND		1.7	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Chlorobenzene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Chlorobromomethane	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Chloroethane	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Chloroform	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Chloromethane	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
cis-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
cis-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Chlorodibromomethane	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Dibromomethane	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Dichlorobromomethane	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1

Client Sample ID: DG-AS11S-0.5-1 Lab Sample ID: 720-91105-1

Date Collected: 01/31/19 08:20 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Ethylbenzene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Hexachlorobutadiene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Isopropylbenzene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Methylene Chloride	ND		8.3	4.1	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Methyl tert-butyl ether	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Naphthalene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
n-Butylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
N-Propylbenzene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
sec-Butylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Styrene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
tert-Butylbenzene	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Tetrachloroethene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Toluene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
trans-1,2-Dichloroethene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
trans-1,3-Dichloropropene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Trichloroethene	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Trichlorofluoromethane	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.3	4.1	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Vinyl acetate	ND		6.6	3.3	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Vinyl chloride	ND		1.7	0.83	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
Ethylene Dibromide	ND		0.83	0.41	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
2-Butanone (MEK)	ND		8.3	4.1	ug/Kg		01/31/19 19:00	02/04/19 14:02	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	2.1	ug/Kg		01/31/19 19:00	02/04/19 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*	*01/31/19 19:00*	*02/04/19 14:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*01/31/19 19:00*	*02/04/19 14:02*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		980	490	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Acenaphthene	ND		490	280	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Acenaphthylene	ND		490	240	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Anthracene	ND		490	200	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Benzo[a]anthracene	ND		490	150	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Benzo[a]pyrene	**460**	**J**	490	190	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Benzo[b]fluoranthene	**590**		490	210	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Benzo[g,h,i]perylene	**510**		490	420	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Benzo[k]fluoranthene	**300**	**J B**	490	210	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Chrysene	**190**	**J**	490	140	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Dibenz(a,h)anthracene	ND		490	340	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Fluoranthene	**400**	**J**	490	140	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Fluorene	ND		490	220	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Indeno[1,2,3-cd]pyrene	ND		490	410	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Naphthalene	ND		490	340	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Phenanthrene	**190**	**J**	490	180	ug/Kg		02/01/19 14:01	02/14/19 01:38	50
Pyrene	**460**	**J**	490	170	ug/Kg		02/01/19 14:01	02/14/19 01:38	50

Client Sample ID: DG-AS11S-0.5-1
Date Collected: 01/31/19 08:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-1
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*124*	*X*	*33 - 120*	*02/01/19 14:01*	*02/14/19 01:38*	*50*
Terphenyl-d14	*191*	*X*	*35 - 146*	*02/01/19 14:01*	*02/14/19 01:38*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2000**	**B**	100	50	mg/Kg		02/04/19 12:49	02/05/19 17:37	10
Motor Oil Range Organics [C24-C36]	**2700**	**B**	100	50	mg/Kg		02/04/19 12:49	02/05/19 17:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*95*		*40 - 140*	*02/04/19 12:49*	*02/05/19 17:37*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
4,4'-DDT	**3.3**	**J**	4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
4,4'-DDE	**2.7**	**J**	4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 14:58	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*44*		*28 - 115*	*02/07/19 11:12*	*02/08/19 14:58*	*1*
DCB Decachlorobiphenyl (Surr)	*47*		*21 - 117*	*02/07/19 11:12*	*02/08/19 14:58*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	F1	49	17	ug/Kg		02/07/19 11:12	02/07/19 17:15	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:15	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:15	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:15	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:15	1
Aroclor 1254	**46**	**J**	49	17	ug/Kg		02/07/19 11:12	02/07/19 17:15	1
Aroclor 1260	**29**	**J F1**	49	17	ug/Kg		02/07/19 11:12	02/07/19 17:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AS11S-0.5-1

Date Collected: 01/31/19 08:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-1

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*45 - 120*	*02/07/19 11:12*	*02/07/19 17:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	19		1.2	0.20	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Arsenic	20		2.4	0.20	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Barium	550	B	1.2	0.17	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Beryllium	0.32		0.24	0.076	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Cadmium	3.3		0.29	0.029	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Chromium	59		1.2	0.12	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Cobalt	7.2		0.47	0.047	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Copper	430		3.5	1.7	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Lead	3200	B	1.2	0.25	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Molybdenum	0.68	J	1.2	0.15	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Nickel	34		1.2	0.12	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Selenium	3.9		2.4	0.35	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Silver	4.0		0.59	0.12	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Thallium	ND		1.2	0.34	mg/Kg		02/02/19 08:08	02/08/19 15:16	4
Vanadium	22		1.2	0.16	mg/Kg		02/02/19 08:08	02/06/19 21:55	4
Zinc	1400		3.5	1.5	mg/Kg		02/02/19 08:08	02/06/19 21:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.5		0.016	0.0024	mg/Kg		02/11/19 14:30	02/11/19 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.3		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91105-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AS11S-3.5-4
Lab Sample ID: 720-91105-2
Date Collected: 01/31/19 08:20
Matrix: Solid
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	72	ug/Kg		01/31/19 19:00	02/04/19 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/31/19 19:00*	*02/04/19 14:27*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/31/19 19:00*	*02/04/19 14:27*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:00*	*02/04/19 14:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,1,1-Trichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,1,2-Trichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,1-Dichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,1-Dichloroethene	ND		2.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,1-Dichloropropene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,2,4-Trichlorobenzene	ND		5.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,2-Dichlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,2-Dichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,2-Dichloropropane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,3-Dichlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,3-Dichloropropane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,4-Dichlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
2-Chlorotoluene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
2-Hexanone	ND		10	5.1	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
4-Isopropyltoluene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Benzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Bromobenzene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Bromoform	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Bromomethane	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Carbon disulfide	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Carbon tetrachloride	ND		2.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Chlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Chloroethane	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Chloroform	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Chloromethane	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
cis-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Chlorodibromomethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Dibromomethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Dichlorobromomethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1

Client Sample ID: DG-AS11S-3.5-4
Date Collected: 01/31/19 08:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Ethylbenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Isopropylbenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Methylene Chloride	ND		10	5.1	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Naphthalene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
N-Propylbenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Styrene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Tetrachloroethene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Toluene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
trans-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Trichloroethene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.1	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Vinyl acetate	ND		8.2	4.1	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Vinyl chloride	ND		2.0	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
Ethylene Dibromide	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
2-Butanone (MEK)	ND		10	5.1	ug/Kg		01/31/19 19:00	02/04/19 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.1	2.6	ug/Kg		01/31/19 19:00	02/04/19 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:00*	*02/04/19 14:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*01/31/19 19:00*	*02/04/19 14:27*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		98	49	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Acenaphthene	ND		49	27	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Acenaphthylene	ND		49	23	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Anthracene	**29**	**J**	49	20	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Benzo[a]anthracene	**130**		49	15	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Benzo[a]pyrene	**120**		49	19	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Benzo[b]fluoranthene	**240**		49	21	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Benzo[g,h,i]perylene	**90**		49	42	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Benzo[k]fluoranthene	**72**	**B**	49	21	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Chrysene	**130**		49	14	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Dibenz(a,h)anthracene	**43**	**J**	49	34	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Fluoranthene	**220**		49	14	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Fluorene	ND		49	21	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Indeno[1,2,3-cd]pyrene	**82**		49	41	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Naphthalene	**54**		49	34	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Phenanthrene	**90**		49	18	ug/Kg		02/01/19 14:01	02/14/19 02:02	10
Pyrene	**190**		49	17	ug/Kg		02/01/19 14:01	02/14/19 02:02	10

Client Sample ID: DG-AS11S-3.5-4
Date Collected: 01/31/19 08:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-2
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*02/01/19 14:01*	*02/14/19 02:02*	*10*
2-Fluorobiphenyl	*81*		*33 - 120*	*02/01/19 14:01*	*02/14/19 07:32*	*5*
Terphenyl-d14	*113*		*35 - 146*	*02/01/19 14:01*	*02/14/19 02:02*	*10*
Terphenyl-d14	*120*		*35 - 146*	*02/01/19 14:01*	*02/14/19 07:32*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**53**	**B**	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 04:48	1
Motor Oil Range Organics [C24-C36]	**76**	**B**	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*40 - 140*	*02/04/19 12:49*	*02/05/19 04:48*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Dieldrin	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Endrin aldehyde	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Endrin	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Endrin ketone	ND		15	6.0	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Heptachlor	ND		15	6.0	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Heptachlor epoxide	ND		15	6.0	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
4,4'-DDT	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
4,4'-DDE	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
4,4'-DDD	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Endosulfan I	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Endosulfan II	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
alpha-BHC	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
beta-BHC	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
gamma-BHC (Lindane)	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
delta-BHC	ND		30	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Endosulfan sulfate	ND		30	6.0	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Methoxychlor	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Toxaphene	ND		600	150	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
Chlordane (technical)	ND		150	30	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
alpha-Chlordane	ND		15	6.0	ug/Kg		02/12/19 13:32	02/13/19 13:30	1
gamma-Chlordane	ND		15	4.5	ug/Kg		02/12/19 13:32	02/13/19 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*28 - 115*	*02/12/19 13:32*	*02/13/19 13:30*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*21 - 117*	*02/12/19 13:32*	*02/13/19 13:30*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:29	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:29	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:29	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:29	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:29	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:29	1

Client Sample ID: DG-AS11S-3.5-4 Lab Sample ID: 720-91105-2

Date Collected: 01/31/19 08:20 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	27	J	49	17	ug/Kg		02/07/19 11:12	02/07/19 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*02/07/19 11:12*	*02/07/19 17:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	39		4.0	0.66	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Arsenic	30		8.0	0.68	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Barium	1700	B	1.6	0.23	mg/Kg		02/02/19 08:08	02/06/19 22:00	4
Beryllium	0.49		0.32	0.10	mg/Kg		02/02/19 08:08	02/06/19 22:00	4
Cadmium	11		1.0	0.099	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Chromium	360		4.0	0.42	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Cobalt	13		1.6	0.16	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Copper	2400		12	5.7	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Lead	7100	B	4.0	0.84	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Molybdenum	1.0	J	1.6	0.20	mg/Kg		02/02/19 08:08	02/06/19 22:00	4
Nickel	73		4.0	0.41	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Selenium	ND		8.0	1.2	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Silver	8.6		2.0	0.40	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Thallium	ND		4.0	1.2	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Vanadium	43		4.0	0.54	mg/Kg		02/02/19 08:08	02/08/19 15:21	10
Zinc	4100		12	5.1	mg/Kg		02/02/19 08:08	02/08/19 15:21	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.017	0.0025	mg/Kg		02/11/19 14:30	02/11/19 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.1		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AS11S-7.5-8

Date Collected: 01/31/19 08:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	54	ug/Kg		01/31/19 19:00	02/04/19 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/31/19 19:00*	*02/04/19 14:52*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/31/19 19:00*	*02/04/19 14:52*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:00*	*02/04/19 14:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Benzene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Bromoform	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Chloroform	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1

Client Sample ID: DG-AS11S-7.5-8 Lab Sample ID: 720-91105-3

Date Collected: 01/31/19 08:20 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Styrene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Toluene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Vinyl acetate	ND		6.2	3.1	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/31/19 19:00	02/04/19 14:52	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	1.9	ug/Kg		01/31/19 19:00	02/04/19 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:00*	*02/04/19 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/31/19 19:00*	*02/04/19 14:52*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Acenaphthene	ND		4.9	2.8	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Anthracene	ND		4.9	2.0	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Benzo[a]pyrene	**2.7**	**J**	4.9	1.9	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Benzo[b]fluoranthene	**6.0**		4.9	2.1	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Benzo[g,h,i]perylene	ND		4.9	4.2	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Benzo[k]fluoranthene	**2.8**	**J B**	4.9	2.1	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Chrysene	**4.1**	**J**	4.9	1.4	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Dibenz(a,h)anthracene	ND		4.9	3.5	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Fluoranthene	**6.1**		4.9	1.4	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Fluorene	ND		4.9	2.2	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Indeno[1,2,3-cd]pyrene	ND		4.9	4.2	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Naphthalene	**7.4**		4.9	3.5	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Phenanthrene	**11**		4.9	1.8	ug/Kg		02/01/19 14:01	02/14/19 00:51	1
Pyrene	**4.4**	**J**	4.9	1.7	ug/Kg		02/01/19 14:01	02/14/19 00:51	1

Client Sample ID: DG-AS11S-7.5-8
Date Collected: 01/31/19 08:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-3
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*02/01/19 14:01*	*02/14/19 00:51*	*1*
Terphenyl-d14	*104*		*35 - 146*	*02/01/19 14:01*	*02/14/19 00:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**	**B**	7.5	3.8	mg/Kg		02/04/19 12:49	02/05/19 06:13	1
Motor Oil Range Organics [C24-C36]	**11**	**B**	7.5	3.8	mg/Kg		02/04/19 12:49	02/05/19 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*83*		*40 - 140*	*02/04/19 12:49*	*02/05/19 06:13*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Dieldrin	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Endrin aldehyde	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Endrin	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Endrin ketone	ND		14	5.7	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Heptachlor	ND		14	5.7	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Heptachlor epoxide	ND		14	5.7	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
4,4'-DDT	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
4,4'-DDE	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
4,4'-DDD	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Endosulfan I	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Endosulfan II	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
alpha-BHC	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
beta-BHC	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
gamma-BHC (Lindane)	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
delta-BHC	ND		29	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Endosulfan sulfate	ND		29	5.7	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Methoxychlor	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Toxaphene	ND		570	140	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
Chlordane (technical)	ND		140	29	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
alpha-Chlordane	ND		14	5.7	ug/Kg		02/12/19 13:32	02/13/19 14:00	1
gamma-Chlordane	ND		14	4.3	ug/Kg		02/12/19 13:32	02/13/19 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*28 - 115*	*02/12/19 13:32*	*02/13/19 14:00*	*1*
DCB Decachlorobiphenyl (Surr)	*45*		*21 - 117*	*02/12/19 13:32*	*02/13/19 14:00*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/07/19 11:12	02/07/19 17:43	1
Aroclor 1221	ND		50	17	ug/Kg		02/07/19 11:12	02/07/19 17:43	1
Aroclor 1232	ND		50	17	ug/Kg		02/07/19 11:12	02/07/19 17:43	1
Aroclor 1242	ND		50	17	ug/Kg		02/07/19 11:12	02/07/19 17:43	1
Aroclor 1248	ND		50	17	ug/Kg		02/07/19 11:12	02/07/19 17:43	1
Aroclor 1254	ND		50	17	ug/Kg		02/07/19 11:12	02/07/19 17:43	1
Aroclor 1260	ND		50	17	ug/Kg		02/07/19 11:12	02/07/19 17:43	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AS11S-7.5-8

Date Collected: 01/31/19 08:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	58		45 - 120	02/07/19 11:12	02/07/19 17:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	63		3.8	0.64	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Arsenic	34		7.7	0.65	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Barium	1300	B	1.5	0.22	mg/Kg		02/02/19 08:08	02/06/19 22:05	4
Beryllium	0.97		0.31	0.10	mg/Kg		02/02/19 08:08	02/06/19 22:05	4
Cadmium	8.8		0.96	0.095	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Chromium	43		3.8	0.41	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Cobalt	13		1.5	0.15	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Copper	1300		12	5.5	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Lead	7300	B	3.8	0.81	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Molybdenum	1.6		1.5	0.20	mg/Kg		02/02/19 08:08	02/06/19 22:05	4
Nickel	55		3.8	0.39	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Selenium	2.8	J	7.7	1.2	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Silver	6.3		1.9	0.39	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Thallium	ND		3.8	1.1	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Vanadium	35		3.8	0.52	mg/Kg		02/02/19 08:08	02/08/19 15:26	10
Zinc	3100		12	4.9	mg/Kg		02/02/19 08:08	02/08/19 15:26	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26	B	0.017	0.0025	mg/Kg		02/13/19 18:00	02/14/19 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.1		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AW3S-0.5-1

Date Collected: 01/31/19 09:45
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	72	ug/Kg		01/31/19 19:00	02/04/19 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/31/19 19:00*	*02/04/19 15:17*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/31/19 19:00*	*02/04/19 15:17*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:00*	*02/04/19 15:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,1,1,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,1,1-Trichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,1,2-Trichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,1-Dichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,1-Dichloroethene	ND		2.1	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,1-Dichloropropene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,2,3-Trichlorobenzene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,2,4-Trichlorobenzene	ND		5.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,2,4-Trimethylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.1	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,2-Dichlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,2-Dichloroethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,2-Dichloropropane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,3,5-Trimethylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,3-Dichlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,3-Dichloropropane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,4-Dichlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
2,2-Dichloropropane	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
2-Chlorotoluene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
2-Hexanone	ND		10	5.1	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
4-Chlorotoluene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
4-Isopropyltoluene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Benzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Bromobenzene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Bromoform	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Bromomethane	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Carbon disulfide	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Carbon tetrachloride	ND		2.1	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Chlorobenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Chlorobromomethane	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Chloroethane	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Chloroform	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Chloromethane	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
cis-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Chlorodibromomethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Dibromomethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Dichlorobromomethane	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1

Client Sample ID: DG-AW3S-0.5-1 Lab Sample ID: 720-91105-4

Date Collected: 01/31/19 09:45 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Ethylbenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Hexachlorobutadiene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Isopropylbenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Methylene Chloride	ND		10	5.1	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Methyl tert-butyl ether	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Naphthalene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
n-Butylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
N-Propylbenzene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
sec-Butylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Styrene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
tert-Butylbenzene	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Tetrachloroethene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Toluene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
trans-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Trichloroethene	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Trichlorofluoromethane	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.1	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Vinyl acetate	ND		8.2	4.1	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Vinyl chloride	ND		2.1	1.0	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Xylenes, Total	ND		2.1	1.3	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
Ethylene Dibromide	ND		1.0	0.51	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
2-Butanone (MEK)	ND		10	5.1	ug/Kg		01/31/19 19:00	02/04/19 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.1	2.6	ug/Kg		01/31/19 19:00	02/04/19 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:00*	*02/04/19 15:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*01/31/19 19:00*	*02/04/19 15:17*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**65**	**J**	98	49	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Acenaphthene	ND		49	27	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Acenaphthylene	**55**		49	24	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Anthracene	**76**		49	20	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Benzo[a]anthracene	**180**		49	15	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Benzo[a]pyrene	**340**		49	19	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Benzo[b]fluoranthene	**440**		49	21	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Benzo[g,h,i]perylene	**230**		49	42	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Benzo[k]fluoranthene	**180**	**B**	49	21	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Chrysene	**220**		49	14	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Dibenz(a,h)anthracene	**76**		49	34	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Fluoranthene	**230**		49	14	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Fluorene	ND		49	22	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Indeno[1,2,3-cd]pyrene	**200**		49	41	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Naphthalene	**75**		49	34	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Phenanthrene	**110**		49	18	ug/Kg		02/01/19 14:01	02/14/19 02:25	10
Pyrene	**260**		49	17	ug/Kg		02/01/19 14:01	02/14/19 02:25	10

Client Sample ID: DG-AW3S-0.5-1 Lab Sample ID: 720-91105-4

Date Collected: 01/31/19 09:45 **Matrix: Solid**
Date Received: 01/31/19 18:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		33 - 120	02/01/19 14:01	02/14/19 02:25	10
2-Fluorobiphenyl	97		33 - 120	02/01/19 14:01	02/14/19 07:55	5
Terphenyl-d14	137		35 - 146	02/01/19 14:01	02/14/19 02:25	10
Terphenyl-d14	145		35 - 146	02/01/19 14:01	02/14/19 07:55	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	42	B	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 05:09	1
Motor Oil Range Organics [C24-C36]	52	B	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	96		40 - 140	02/04/19 12:49	02/05/19 05:09	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
4,4'-DDT	1.5	J p	4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		28 - 115	02/07/19 11:12	02/07/19 18:37	1
DCB Decachlorobiphenyl (Surr)	56		21 - 117	02/07/19 11:12	02/07/19 18:37	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:56	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:56	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:56	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:56	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:56	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 17:56	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AW3S-0.5-1

Date Collected: 01/31/19 09:45
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-4

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	25	J	49	17	ug/Kg		02/07/19 11:12	02/07/19 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*02/07/19 11:12*	*02/07/19 17:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.4		1.7	0.28	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Arsenic	55		3.4	0.29	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Barium	120	B	1.7	0.24	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Beryllium	0.12	J	0.34	0.11	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Cadmium	1.2		0.42	0.042	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Chromium	38		1.7	0.18	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Cobalt	13		0.67	0.067	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Copper	160		5.0	2.4	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Lead	230	B	1.7	0.35	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Molybdenum	3.2		1.7	0.22	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Nickel	35		1.7	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Selenium	1.8	J	3.4	0.50	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Silver	ND		0.84	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Thallium	ND		1.7	0.49	mg/Kg		02/02/19 08:08	02/08/19 15:30	4
Vanadium	74		1.7	0.23	mg/Kg		02/02/19 08:08	02/06/19 22:10	4
Zinc	330		5.0	2.1	mg/Kg		02/02/19 08:08	02/06/19 22:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/14/19 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1	0.1	%			02/06/19 20:53	1

Client Sample ID: DG-AW3S-3.5-4 Lab Sample ID: 720-91105-5

Date Collected: 01/31/19 09:45 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	53	ug/Kg		01/31/19 19:00	02/04/19 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/31/19 19:00*	*02/04/19 15:41*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*	*01/31/19 19:00*	*02/04/19 15:41*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:00*	*02/04/19 15:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,1,1-Trichloroethane	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,1,2-Trichloroethane	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,1-Dichloroethane	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,1-Dichloropropene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,2,4-Trichlorobenzene	ND		3.8	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,2-Dichlorobenzene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,2-Dichloroethane	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,2-Dichloropropane	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,3-Dichlorobenzene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,3-Dichloropropane	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,4-Dichlorobenzene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
2-Hexanone	ND		7.5	3.8	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
4-Isopropyltoluene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Benzene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Bromobenzene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Bromoform	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Bromomethane	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Chlorobenzene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Chloroethane	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Chloroform	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Chloromethane	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
cis-1,2-Dichloroethene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
cis-1,3-Dichloropropene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Chlorodibromomethane	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Dibromomethane	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Dichlorobromomethane	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1

Client Sample ID: DG-AW3S-3.5-4 Lab Sample ID: 720-91105-5

Date Collected: 01/31/19 09:45 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Ethylbenzene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Isopropylbenzene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Methylene Chloride	ND		7.5	3.8	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Naphthalene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
N-Propylbenzene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Styrene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Tetrachloroethene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Toluene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
trans-1,2-Dichloroethene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
trans-1,3-Dichloropropene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Trichloroethene	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.8	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Xylenes, Total	ND		1.5	0.98	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
Ethylene Dibromide	ND		0.75	0.38	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
2-Butanone (MEK)	ND		7.5	3.8	ug/Kg		01/31/19 19:00	02/04/19 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/31/19 19:00	02/04/19 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:00*	*02/04/19 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*01/31/19 19:00*	*02/04/19 15:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**45**	**J**	49	25	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Acenaphthene	ND		25	14	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Acenaphthylene	**69**		25	12	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Anthracene	**43**		25	9.9	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Benzo[a]anthracene	**140**	**F1**	25	7.4	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Benzo[a]pyrene	**290**		25	9.4	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Benzo[b]fluoranthene	**380**		25	10	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Benzo[g,h,i]perylene	**200**		25	21	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Benzo[k]fluoranthene	**130**		25	10	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Chrysene	**200**		25	6.9	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Dibenz(a,h)anthracene	**44**		25	17	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Fluoranthene	**250**		25	6.9	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Fluorene	ND		25	11	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Indeno[1,2,3-cd]pyrene	**150**		25	21	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Naphthalene	**72**		25	17	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Phenanthrene	**90**		25	8.9	ug/Kg		02/01/19 16:03	02/12/19 04:19	5
Pyrene	**380**		25	8.4	ug/Kg		02/01/19 16:03	02/12/19 04:19	5

Client Sample ID: DG-AW3S-3.5-4
Date Collected: 01/31/19 09:45
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-5
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*33 - 120*	*02/01/19 16:03*	*02/12/19 04:19*	*5*
Terphenyl-d14	*137*		*35 - 146*	*02/01/19 16:03*	*02/12/19 04:19*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**54**	**B**	9.9	5.0	mg/Kg		02/04/19 12:49	02/05/19 05:30	1
Motor Oil Range Organics [C24-C36]	**80**	**B**	9.9	5.0	mg/Kg		02/04/19 12:49	02/05/19 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*95*		*40 - 140*	*02/04/19 12:49*	*02/05/19 05:30*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
Chlordane (technical)	ND		49	9.9	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 18:52	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*		*28 - 115*	*02/07/19 11:12*	*02/07/19 18:52*	*1*
DCB Decachlorobiphenyl (Surr)	*34*		*21 - 117*	*02/07/19 11:12*	*02/07/19 18:52*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:10	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:10	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:10	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:10	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:10	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:10	1
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:10	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AW3S-3.5-4

Date Collected: 01/31/19 09:45
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-5

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*02/07/19 11:12*	*02/07/19 18:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.3	0.22	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Arsenic	120		2.6	0.23	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Barium	130	B	1.3	0.19	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Beryllium	0.15	J	0.26	0.086	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Cadmium	0.60		0.33	0.033	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Chromium	21		1.3	0.14	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Cobalt	9.6		0.53	0.053	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Copper	130		4.0	1.9	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Lead	150	B	1.3	0.28	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Molybdenum	0.29	J	1.3	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Nickel	18		1.3	0.14	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Selenium	1.2	J	2.6	0.40	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Silver	0.13	J	0.66	0.13	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Thallium	ND		1.3	0.38	mg/Kg		02/02/19 08:08	02/08/19 15:35	4
Vanadium	77		1.3	0.18	mg/Kg		02/02/19 08:08	02/06/19 22:14	4
Zinc	260		4.0	1.7	mg/Kg		02/02/19 08:08	02/06/19 22:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.014	0.0021	mg/Kg		02/13/19 18:00	02/14/19 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.1	%			02/06/19 20:53	1

Client Sample ID: DG-AY3S-0.5-1 Lab Sample ID: 720-91105-6

Date Collected: 01/31/19 10:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		88	62	ug/Kg		01/31/19 19:00	02/04/19 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/31/19 19:00*	*02/04/19 16:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/31/19 19:00*	*02/04/19 16:06*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:00*	*02/04/19 16:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
2-Hexanone	ND		8.8	4.4	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Benzene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Bromobenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Bromoform	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Bromomethane	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Chloroethane	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Chloroform	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Chloromethane	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Dibromomethane	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1

Client Sample ID: DG-AY3S-0.5-1 Lab Sample ID: 720-91105-6

Date Collected: 01/31/19 10:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Naphthalene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Styrene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Tetrachloroethene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Toluene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Trichloroethene	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Xylenes, Total	ND		1.8	1.1	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		01/31/19 19:00	02/04/19 16:06	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/31/19 19:00	02/04/19 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:00*	*02/04/19 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*01/31/19 19:00*	*02/04/19 16:06*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		20	9.8	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Acenaphthene	ND		9.8	5.5	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Acenaphthylene	**7.8**	**J**	9.8	4.7	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Anthracene	**12**		9.8	3.9	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Benzo[a]anthracene	**3.8**	**J**	9.8	2.9	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Benzo[a]pyrene	**11**		9.8	3.7	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Benzo[b]fluoranthene	**15**		9.8	4.1	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Benzo[g,h,i]perylene	**14**		9.8	8.4	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Benzo[k]fluoranthene	**6.9**	**J**	9.8	4.1	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Chrysene	**6.0**	**J**	9.8	2.7	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Dibenz(a,h)anthracene	ND		9.8	6.8	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Fluoranthene	**8.0**	**J**	9.8	2.7	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Fluorene	ND		9.8	4.3	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Indeno[1,2,3-cd]pyrene	**10**		9.8	8.2	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Naphthalene	ND		9.8	6.8	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Phenanthrene	**4.4**	**J**	9.8	3.5	ug/Kg		02/01/19 16:03	02/14/19 02:49	2
Pyrene	**9.6**	**J**	9.8	3.3	ug/Kg		02/01/19 16:03	02/14/19 02:49	2

Client Sample ID: DG-AY3S-0.5-1
Lab Sample ID: 720-91105-6

Date Collected: 01/31/19 10:15
Matrix: Solid
Date Received: 01/31/19 18:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		33 - 120	02/01/19 16:03	02/14/19 02:49	2
Terphenyl-d14	131		35 - 146	02/01/19 16:03	02/14/19 02:49	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	17	B	5.0	2.5	mg/Kg		02/04/19 12:49	02/05/19 11:56	1
Motor Oil Range Organics [C24-C36]	14	B	5.0	2.5	mg/Kg		02/04/19 12:49	02/05/19 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	85		40 - 140	02/04/19 12:49	02/05/19 11:56	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
Chlordane (technical)	ND		49	9.9	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:07	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		28 - 115	02/07/19 11:12	02/07/19 19:07	1
DCB Decachlorobiphenyl (Surr)	45		21 - 117	02/07/19 11:12	02/07/19 19:07	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:23	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:23	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:23	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:23	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:23	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:23	1
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:23	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AY3S-0.5-1

Date Collected: 01/31/19 10:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*02/07/19 11:12*	*02/07/19 18:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.44**	**J**	1.3	0.21	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Arsenic	**8.8**		2.5	0.21	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Barium	**37**	**B**	1.3	0.18	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Beryllium	**0.11**	**J**	0.25	0.082	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Cadmium	**0.24**	**J**	0.31	0.031	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Chromium	**13**		1.3	0.13	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Cobalt	**11**		0.50	0.050	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Copper	**120**		3.8	1.8	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Lead	**22**	**B**	1.3	0.26	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Molybdenum	ND		1.3	0.16	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Nickel	**6.5**		1.3	0.13	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Selenium	ND		2.5	0.38	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Silver	ND		0.63	0.13	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Thallium	ND		1.3	0.36	mg/Kg		02/02/19 08:08	02/08/19 15:40	4
Vanadium	**110**		1.3	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:19	4
Zinc	**54**		3.8	1.6	mg/Kg		02/02/19 08:08	02/06/19 22:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.081**	**B**	0.016	0.0023	mg/Kg		02/13/19 18:00	02/14/19 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AY3S-3.5-4

Date Collected: 01/31/19 10:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	51	ug/Kg		01/31/19 19:00	02/04/19 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*01/31/19 19:00*	*02/04/19 16:31*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/31/19 19:00*	*02/04/19 16:31*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:00*	*02/04/19 16:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,2,4-Trichlorobenzene	ND		3.6	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,2,4-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,3,5-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
2,2-Dichloropropane	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
2-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
2-Hexanone	ND		7.2	3.6	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
4-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
4-Isopropyltoluene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Benzene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Bromobenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Bromoform	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Bromomethane	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Chloroethane	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Chloroform	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Chloromethane	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Dibromomethane	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1

Client Sample ID: DG-AY3S-3.5-4 Lab Sample ID: 720-91105-7

Date Collected: 01/31/19 10:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Hexachlorobutadiene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Naphthalene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
n-Butylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
N-Propylbenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
sec-Butylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Styrene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
tert-Butylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Tetrachloroethene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Toluene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Trichloroethene	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Xylenes, Total	ND		1.4	0.94	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
2-Butanone (MEK)	ND		7.2	3.6	ug/Kg		01/31/19 19:00	02/04/19 16:31	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/31/19 19:00	02/04/19 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:00*	*02/04/19 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*01/31/19 19:00*	*02/04/19 16:31*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		990	500	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Acenaphthene	ND		500	280	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Acenaphthylene	**240**	**J**	500	240	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Anthracene	ND		500	200	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Benzo[a]anthracene	ND		500	150	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Benzo[a]pyrene	**440**	**J**	500	190	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Benzo[b]fluoranthene	**470**	**J**	500	210	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Benzo[g,h,i]perylene	**560**		500	430	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Benzo[k]fluoranthene	**280**	**J**	500	210	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Chrysene	**170**	**J**	500	140	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Dibenz(a,h)anthracene	ND		500	350	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Fluoranthene	**270**	**J**	500	140	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Fluorene	ND		500	220	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Indeno[1,2,3-cd]pyrene	ND		500	420	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Naphthalene	ND		500	350	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Phenanthrene	**250**	**J**	500	180	ug/Kg		02/01/19 16:03	02/14/19 03:13	50
Pyrene	**420**	**J**	500	170	ug/Kg		02/01/19 16:03	02/14/19 03:13	50

Client Sample ID: DG-AY3S-3.5-4
Date Collected: 01/31/19 10:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-7
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*119*		*33 - 120*	*02/01/19 16:03*	*02/14/19 03:13*	*50*
Terphenyl-d14	*189*	*X*	*35 - 146*	*02/01/19 16:03*	*02/14/19 03:13*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**	**B**	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 06:56	1
Motor Oil Range Organics [C24-C36]	**170**	**B**	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*91*		*40 - 140*	*02/04/19 12:49*	*02/05/19 06:56*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:22	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*28 - 115*	*02/07/19 11:12*	*02/07/19 19:22*	*1*
DCB Decachlorobiphenyl (Surr)	*47*		*21 - 117*	*02/07/19 11:12*	*02/07/19 19:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:37	1
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:37	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AY3S-3.5-4

Date Collected: 01/31/19 10:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-7

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*02/07/19 11:12*	*02/07/19 18:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.3	0.22	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Arsenic	150		2.6	0.22	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Barium	61	B	1.3	0.18	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Beryllium	0.18	J	0.26	0.084	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Cadmium	0.49		0.32	0.032	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Chromium	23		1.3	0.14	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Cobalt	9.7		0.52	0.052	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Copper	89		3.9	1.8	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Lead	62	B	1.3	0.27	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Molybdenum	ND		1.3	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Nickel	22		1.3	0.13	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Selenium	1.3	J	2.6	0.39	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Silver	ND		0.65	0.13	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Thallium	ND		1.3	0.38	mg/Kg		02/02/19 08:08	02/08/19 15:44	4
Vanadium	52		1.3	0.18	mg/Kg		02/02/19 08:08	02/06/19 22:24	4
Zinc	100		3.9	1.6	mg/Kg		02/02/19 08:08	02/06/19 22:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27	B	0.015	0.0023	mg/Kg		02/13/19 18:00	02/14/19 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.0		0.1	0.1	%			02/06/19 20:53	1

Client Sample ID: DG-Y15S-0.5-1 Lab Sample ID: 720-91105-8

Date Collected: 01/31/19 11:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		89	62	ug/Kg		01/31/19 19:00	02/04/19 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*01/31/19 19:00*	*02/04/19 16:55*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/31/19 19:00*	*02/04/19 16:55*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/31/19 19:00*	*02/04/19 16:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.9	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,1,1-Trichloroethane	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,1,2-Trichloroethane	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,1-Dichloroethane	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,1-Dichloropropene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,2,3-Trichlorobenzene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,2,4-Trichlorobenzene	ND		4.4	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,2,4-Trimethylbenzene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,2-Dichlorobenzene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,2-Dichloroethane	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,2-Dichloropropane	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,3,5-Trimethylbenzene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,3-Dichlorobenzene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,3-Dichloropropane	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,4-Dichlorobenzene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
2,2-Dichloropropane	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
2-Chlorotoluene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
2-Hexanone	ND		8.9	4.4	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
4-Chlorotoluene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
4-Isopropyltoluene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Benzene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Bromobenzene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Bromoform	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Bromomethane	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Carbon disulfide	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Chlorobenzene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Chlorobromomethane	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Chloroethane	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Chloroform	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Chloromethane	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
cis-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
cis-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Chlorodibromomethane	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Dibromomethane	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Dichlorobromomethane	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1

Client Sample ID: DG-Y15S-0.5-1 Lab Sample ID: 720-91105-8

Date Collected: 01/31/19 11:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Ethylbenzene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Hexachlorobutadiene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Isopropylbenzene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Methylene Chloride	ND		8.9	4.4	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Methyl tert-butyl ether	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Naphthalene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
n-Butylbenzene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
N-Propylbenzene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
sec-Butylbenzene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Styrene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
tert-Butylbenzene	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Tetrachloroethene	**0.45**	**J**	0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Toluene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
trans-1,2-Dichloroethene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
trans-1,3-Dichloropropene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Trichloroethene	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Trichlorofluoromethane	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.9	4.4	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Vinyl acetate	ND		7.1	3.6	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Vinyl chloride	ND		1.8	0.89	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Xylenes, Total	ND		1.8	1.2	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
Ethylene Dibromide	ND		0.89	0.44	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
2-Butanone (MEK)	ND		8.9	4.4	ug/Kg		01/31/19 19:00	02/04/19 16:55	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/31/19 19:00	02/04/19 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*01/31/19 19:00*	*02/04/19 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*01/31/19 19:00*	*02/04/19 16:55*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		400	200	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Acenaphthene	ND		200	110	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Acenaphthylene	ND		200	95	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Anthracene	**85**	**J**	200	79	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Benzo[a]anthracene	ND		200	59	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Benzo[a]pyrene	**100**	**J**	200	75	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Benzo[b]fluoranthene	**140**	**J**	200	83	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Benzo[g,h,i]perylene	ND		200	170	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Benzo[k]fluoranthene	ND		200	83	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Chrysene	ND		200	55	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Dibenz(a,h)anthracene	ND		200	140	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Fluoranthene	**87**	**J**	200	55	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Fluorene	ND		200	87	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Indeno[1,2,3-cd]pyrene	ND		200	170	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Naphthalene	ND		200	140	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Phenanthrene	**77**	**J**	200	71	ug/Kg		02/01/19 16:03	02/14/19 03:36	20
Pyrene	**110**	**J**	200	67	ug/Kg		02/01/19 16:03	02/14/19 03:36	20

Client Sample ID: DG-Y15S-0.5-1
Lab Sample ID: 720-91105-8

Date Collected: 01/31/19 11:15
Matrix: Solid
Date Received: 01/31/19 18:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	115		33 - 120	02/01/19 16:03	02/14/19 03:36	20
Terphenyl-d14	172	X	35 - 146	02/01/19 16:03	02/14/19 03:36	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**620**	**B**	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 07:17	1
Motor Oil Range Organics [C24-C36]	**860**	**B**	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	91		40 - 140	02/04/19 12:49	02/05/19 07:17	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Dieldrin	**2.4**	**J**	4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:37	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		28 - 115	02/07/19 11:12	02/07/19 19:37	1
DCB Decachlorobiphenyl (Surr)	52		21 - 117	02/07/19 11:12	02/07/19 19:37	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:50	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:50	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:50	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:50	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:50	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:50	1
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 18:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-Y15S-0.5-1

Date Collected: 01/31/19 11:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-8

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	62		45 - 120	02/07/19 11:12	02/07/19 18:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.5	0.24	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Arsenic	6.8		2.9	0.25	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Barium	60	B	1.5	0.21	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Beryllium	0.11	J	0.29	0.096	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Cadmium	0.96		0.37	0.036	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Chromium	56		1.5	0.16	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Cobalt	6.9		0.59	0.059	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Copper	73		4.4	2.1	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Lead	200	B	1.5	0.31	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Molybdenum	0.79	J	1.5	0.19	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Nickel	19		1.5	0.15	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Selenium	ND		2.9	0.44	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Silver	ND		0.74	0.15	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Thallium	ND		1.5	0.43	mg/Kg		02/02/19 08:08	02/08/19 15:49	4
Vanadium	45		1.5	0.20	mg/Kg		02/02/19 08:08	02/06/19 22:29	4
Zinc	520		4.4	1.9	mg/Kg		02/02/19 08:08	02/06/19 22:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	B	0.017	0.0025	mg/Kg		02/13/19 18:00	02/14/19 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.1		0.1	0.1	%			02/06/19 20:53	1

Client Sample ID: DG-Y15S-3.5-4 Lab Sample ID: 720-91105-9

Date Collected: 01/31/19 11:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		88	62	ug/Kg		01/31/19 19:30	02/06/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*	*01/31/19 19:30*	*02/06/19 13:18*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/31/19 19:30*	*02/06/19 13:18*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 19:30*	*02/06/19 13:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
2-Hexanone	ND		8.8	4.4	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Benzene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Bromobenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Bromoform	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Bromomethane	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Chloroethane	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Chloroform	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Chloromethane	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Dibromomethane	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1

Client Sample ID: DG-Y15S-3.5-4
Date Collected: 01/31/19 11:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Naphthalene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Styrene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Tetrachloroethene	**1.2**		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Toluene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Trichloroethene	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Vinyl acetate	ND		7.0	3.5	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Xylenes, Total	ND		1.8	1.1	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		01/31/19 19:30	02/06/19 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		01/31/19 19:30	02/06/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 19:30*	*02/06/19 13:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*01/31/19 19:30*	*02/06/19 13:18*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		49	24	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Acenaphthene	ND		24	14	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Acenaphthylene	ND		24	12	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Anthracene	**13**	**J**	24	9.8	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Benzo[a]anthracene	ND		24	7.3	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Benzo[a]pyrene	**16**	**J**	24	9.3	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Benzo[b]fluoranthene	**20**	**J**	24	10	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Benzo[g,h,i]perylene	ND		24	21	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Benzo[k]fluoranthene	**14**	**J**	24	10	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Chrysene	ND		24	6.8	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Dibenz(a,h)anthracene	ND		24	17	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Fluoranthene	**12**	**J**	24	6.8	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Fluorene	ND		24	11	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Indeno[1,2,3-cd]pyrene	ND		24	21	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Naphthalene	ND		24	17	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Phenanthrene	**13**	**J**	24	8.8	ug/Kg		02/01/19 16:03	02/14/19 04:00	5
Pyrene	**18**	**J**	24	8.3	ug/Kg		02/01/19 16:03	02/14/19 04:00	5

Client Sample ID: DG-Y15S-3.5-4 Lab Sample ID: 720-91105-9

Date Collected: 01/31/19 11:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		33 - 120	02/01/19 16:03	02/14/19 04:00	5
Terphenyl-d14	154	X	35 - 146	02/01/19 16:03	02/14/19 04:00	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	180	B	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 07:39	1
Motor Oil Range Organics [C24-C36]	270	B	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	94		40 - 140	02/04/19 12:49	02/05/19 07:39	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 19:52	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		28 - 115	02/07/19 11:12	02/07/19 19:52	1
DCB Decachlorobiphenyl (Surr)	65		21 - 117	02/07/19 11:12	02/07/19 19:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:04	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:04	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:04	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:04	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:04	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:04	1
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:04	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-Y15S-3.5-4

Date Collected: 01/31/19 11:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-9

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	71		45 - 120	02/07/19 11:12	02/07/19 19:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.2		1.3	0.22	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Arsenic	4.2		2.6	0.22	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Barium	75	B	1.3	0.19	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Beryllium	0.38		0.26	0.085	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Cadmium	0.40		0.33	0.032	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Chromium	130		1.3	0.14	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Cobalt	18		0.52	0.052	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Copper	65		3.9	1.9	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Lead	15	B	1.3	0.27	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Molybdenum	0.28	J	1.3	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Nickel	120		1.3	0.13	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Selenium	1.9	J	2.6	0.39	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Silver	ND		0.65	0.13	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Thallium	ND		1.3	0.38	mg/Kg		02/02/19 08:08	02/08/19 15:54	4
Vanadium	90		1.3	0.18	mg/Kg		02/02/19 08:08	02/06/19 22:33	4
Zinc	82		3.9	1.7	mg/Kg		02/02/19 08:08	02/06/19 22:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/14/19 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.8		0.1	0.1	%			02/06/19 20:53	1

Client Sample ID: DG-Y15S-7.5-8 **Lab Sample ID: 720-91105-10**
Date Collected: 01/31/19 11:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**210000**		20000	14000	ug/Kg		02/03/19 10:47	02/07/19 15:16	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*	*02/03/19 10:47*	*02/07/19 15:16*	*200*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*	*02/03/19 10:47*	*02/07/19 15:16*	*200*
Toluene-d8 (Surr)	*98*		*60 - 140*	*02/03/19 10:47*	*02/07/19 15:16*	*200*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1000	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,1,1,2-Tetrachloroethane	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,1,1-Trichloroethane	**120**	**J**	200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,1,2,2-Tetrachloroethane	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,1,2-Trichloroethane	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,1-Dichloroethane	**120**	**J**	200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,1-Dichloroethene	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,1-Dichloropropene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,2,3-Trichlorobenzene	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,2,4-Trichlorobenzene	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,2,4-Trimethylbenzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,2-Dibromo-3-Chloropropane	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,2-Dichlorobenzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,2-Dichloroethane	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,2-Dichloropropane	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,3,5-Trimethylbenzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,3-Dichlorobenzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,3-Dichloropropane	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,4-Dichlorobenzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
2,2-Dichloropropane	ND		400	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
2-Chlorotoluene	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
2-Hexanone	ND		2500	1000	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
4-Chlorotoluene	ND		500	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
4-Isopropyltoluene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Benzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Bromobenzene	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Bromoform	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Bromomethane	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Carbon disulfide	ND		500	250	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Carbon tetrachloride	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Chlorobenzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Chlorobromomethane	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Chloroethane	**260**	**J**	500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Chloroform	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Chloromethane	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
cis-1,2-Dichloroethene	**540**		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
cis-1,3-Dichloropropene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Chlorodibromomethane	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Dibromomethane	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Dichlorobromomethane	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200

Client Sample ID: DG-Y15S-7.5-8 Lab Sample ID: 720-91105-10

Date Collected: 01/31/19 11:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Ethylbenzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Hexachlorobutadiene	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Isopropylbenzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Methylene Chloride	ND		2000	1000	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Methyl tert-butyl ether	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Naphthalene	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
n-Butylbenzene	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
N-Propylbenzene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
sec-Butylbenzene	ND		500	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Styrene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
tert-Butylbenzene	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Tetrachloroethene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Toluene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
trans-1,2-Dichloroethene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
trans-1,3-Dichloropropene	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Trichloroethene	**100**	**J**	200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Trichlorofluoromethane	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	400	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Vinyl acetate	ND		1000	500	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Vinyl chloride	ND		500	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Xylenes, Total	ND		400	200	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
Ethylene Dibromide	ND		200	100	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
2-Butanone (MEK)	ND		2000	1000	ug/Kg		02/03/19 10:47	02/07/19 15:16	200
4-Methyl-2-pentanone (MIBK)	ND		1000	400	ug/Kg		02/03/19 10:47	02/07/19 15:16	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*60 - 140*	*02/03/19 10:47*	*02/07/19 15:16*	*200*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*02/03/19 10:47*	*02/07/19 15:16*	*200*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**2600**		390	200	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Acenaphthene	**1000**		200	110	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Acenaphthylene	**400**		200	95	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Anthracene	**260**		200	79	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Benzo[a]anthracene	ND		200	59	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Benzo[a]pyrene	**170**	**J**	200	75	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Benzo[b]fluoranthene	**250**		200	83	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Benzo[g,h,i]perylene	ND		200	170	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Benzo[k]fluoranthene	ND		200	83	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Chrysene	**280**		200	55	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Dibenz(a,h)anthracene	ND		200	140	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Fluoranthene	**290**		200	55	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Fluorene	**820**		200	87	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Indeno[1,2,3-cd]pyrene	ND		200	170	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Naphthalene	**1300**		200	140	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Phenanthrene	**990**		200	71	ug/Kg		02/01/19 16:03	02/14/19 04:23	20
Pyrene	**830**		200	67	ug/Kg		02/01/19 16:03	02/14/19 04:23	20

Client Sample ID: DG-Y15S-7.5-8
Date Collected: 01/31/19 11:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-10
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*125*	*X*	*33 - 120*	*02/01/19 16:03*	*02/14/19 04:23*	*20*
Terphenyl-d14	*171*	*X*	*35 - 146*	*02/01/19 16:03*	*02/14/19 04:23*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**1600**	**B**	30	15	mg/Kg		02/04/19 12:49	02/05/19 08:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*108*		*40 - 140*	*02/04/19 12:49*	*02/05/19 08:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3600**	**B**	150	76	mg/Kg		02/04/19 12:49	02/06/19 11:19	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 16:41	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*28 - 115*	*02/07/19 11:12*	*02/08/19 16:41*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*21 - 117*	*02/07/19 11:12*	*02/08/19 16:41*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:17	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:17	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:17	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:17	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:17	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:17	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-Y15S-7.5-8
Date Collected: 01/31/19 11:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-10
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:12	02/07/19 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*02/07/19 11:12*	*02/07/19 19:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.2	0.20	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Arsenic	7.6		2.4	0.20	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Barium	42	B	1.2	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Beryllium	0.84		0.24	0.078	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Cadmium	0.37		0.30	0.030	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Chromium	31		1.2	0.13	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Cobalt	14		0.48	0.048	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Copper	50		3.6	1.7	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Lead	20	B	1.2	0.25	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Molybdenum	0.20	J	1.2	0.15	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Nickel	31		1.2	0.12	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Selenium	1.4	J	2.4	0.36	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Silver	ND		0.60	0.12	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Thallium	0.37	J	1.2	0.35	mg/Kg		02/02/19 08:08	02/08/19 15:59	4
Vanadium	36		1.2	0.16	mg/Kg		02/02/19 08:08	02/06/19 22:38	4
Zinc	87		3.6	1.5	mg/Kg		02/02/19 08:08	02/06/19 22:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/14/19 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	36.2		0.1	0.1	%			02/06/19 20:53	1

Client Sample ID: DG-AC15S-0.5-1 Lab Sample ID: 720-91105-11

Date Collected: 01/31/19 12:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	53	ug/Kg		01/31/19 19:30	02/06/19 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/31/19 19:30*	*02/06/19 13:43*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/31/19 19:30*	*02/06/19 13:43*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:30*	*02/06/19 13:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.6	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,2,3-Trichlorobenzene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,2,4-Trichlorobenzene	ND		3.8	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,2,4-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,2-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,3,5-Trimethylbenzene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,3-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,4-Dichlorobenzene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
2,2-Dichloropropane	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
2-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
2-Hexanone	ND		7.6	3.8	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
4-Chlorotoluene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
4-Isopropyltoluene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Benzene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Bromobenzene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Bromoform	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Bromomethane	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Chloroethane	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Chloroform	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Chloromethane	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Dibromomethane	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1

Client Sample ID: DG-AC15S-0.5-1 Lab Sample ID: 720-91105-11

Date Collected: 01/31/19 12:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Hexachlorobutadiene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Naphthalene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
n-Butylbenzene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
N-Propylbenzene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
sec-Butylbenzene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Styrene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
tert-Butylbenzene	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Toluene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Trichloroethene	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Vinyl acetate	ND		6.1	3.0	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Xylenes, Total	ND		1.5	0.99	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
2-Butanone (MEK)	ND		7.6	3.8	ug/Kg		01/31/19 19:30	02/06/19 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		01/31/19 19:30	02/06/19 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:30*	*02/06/19 13:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*01/31/19 19:30*	*02/06/19 13:43*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		980	490	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Acenaphthene	ND		490	270	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Acenaphthylene	ND		490	240	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Anthracene	ND		490	200	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Benzo[a]anthracene	ND		490	150	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Benzo[a]pyrene	ND		490	190	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Benzo[b]fluoranthene	ND		490	210	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Benzo[g,h,i]perylene	ND		490	420	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Benzo[k]fluoranthene	ND		490	210	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Chrysene	ND		490	140	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Dibenz(a,h)anthracene	ND		490	340	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Fluoranthene	**170**	**J**	490	140	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Fluorene	ND		490	220	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Indeno[1,2,3-cd]pyrene	ND		490	410	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Naphthalene	ND		490	340	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Phenanthrene	**330**	**J**	490	180	ug/Kg		02/01/19 16:03	02/14/19 04:47	50
Pyrene	**260**	**J**	490	170	ug/Kg		02/01/19 16:03	02/14/19 04:47	50

Client Sample ID: DG-AC15S-0.5-1 Lab Sample ID: 720-91105-11

Date Collected: 01/31/19 12:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	113		33 - 120	02/01/19 16:03	02/14/19 04:47	50
Terphenyl-d14	175	X	35 - 146	02/01/19 16:03	02/14/19 04:47	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	330	B	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 08:43	1
Motor Oil Range Organics [C24-C36]	490	B	10	5.0	mg/Kg		02/04/19 12:49	02/05/19 08:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	99		40 - 140	02/04/19 12:49	02/05/19 08:43	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Endrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Toxaphene	ND		200	50	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
Chlordane (technical)	ND		50	9.9	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/08/19 15:42	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		28 - 115	02/07/19 11:12	02/08/19 15:42	1
DCB Decachlorobiphenyl (Surr)	79		21 - 117	02/07/19 11:12	02/08/19 15:42	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:45	1
Aroclor 1221	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:45	1
Aroclor 1232	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:45	1
Aroclor 1242	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:45	1
Aroclor 1248	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:45	1
Aroclor 1254	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:45	1
Aroclor 1260	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AC15S-0.5-1

Date Collected: 01/31/19 12:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-11

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*02/07/19 11:12*	*02/08/19 18:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.8	0.30	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Arsenic	6.9		3.7	0.31	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Barium	77	B	1.8	0.26	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Beryllium	0.90		0.37	0.12	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Cadmium	0.33	J	0.46	0.046	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Chromium	47		1.8	0.19	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Cobalt	11		0.73	0.073	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Copper	32		5.5	2.6	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Lead	19	B	1.8	0.39	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Molybdenum	0.41	J	1.8	0.23	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Nickel	37		1.8	0.19	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Selenium	1.4	J	3.7	0.55	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Silver	ND		0.92	0.19	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Thallium	ND		1.8	0.53	mg/Kg		02/02/19 08:08	02/08/19 16:13	4
Vanadium	61		1.8	0.25	mg/Kg		02/02/19 08:08	02/06/19 22:53	4
Zinc	83		5.5	2.3	mg/Kg		02/02/19 08:08	02/06/19 22:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053	B	0.015	0.0022	mg/Kg		02/13/19 18:00	02/14/19 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.1	%			02/06/19 20:53	1

Client Sample ID: DUP-109 — Lab Sample ID: 720-91105-12

Date Collected: 01/31/19 00:00 — **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		73	51	ug/Kg		01/31/19 19:30	02/06/19 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*01/31/19 19:30*	*02/06/19 14:08*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*01/31/19 19:30*	*02/06/19 14:08*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:30*	*02/06/19 14:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,1,1-Trichloroethane	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,1,2-Trichloroethane	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,1-Dichloroethane	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,1-Dichloroethene	ND		1.5	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,1-Dichloropropene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,2,3-Trichlorobenzene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,2,4-Trichlorobenzene	ND		3.6	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.5	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,2-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,2-Dichloroethane	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,2-Dichloropropane	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,3-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,3-Dichloropropane	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,4-Dichlorobenzene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
2-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
2-Hexanone	ND		7.3	3.6	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
4-Chlorotoluene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
4-Isopropyltoluene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Benzene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Bromobenzene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Bromoform	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Bromomethane	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Carbon disulfide	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Carbon tetrachloride	ND		1.5	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Chlorobenzene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Chlorobromomethane	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Chloroethane	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Chloroform	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Chloromethane	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
cis-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
cis-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Chlorodibromomethane	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Dibromomethane	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Dichlorobromomethane	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1

Client Sample ID: DUP-109 — Lab Sample ID: 720-91105-12

Date Collected: 01/31/19 00:00 — **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Ethylbenzene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Hexachlorobutadiene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Isopropylbenzene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Methylene Chloride	ND		7.3	3.6	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Methyl tert-butyl ether	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Naphthalene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
n-Butylbenzene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
N-Propylbenzene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
sec-Butylbenzene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Styrene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
tert-Butylbenzene	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Tetrachloroethene	**1.1**		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Toluene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
trans-1,2-Dichloroethene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
trans-1,3-Dichloropropene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Trichloroethene	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Trichlorofluoromethane	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.3	3.6	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Vinyl acetate	ND		5.8	2.9	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Vinyl chloride	ND		1.5	0.73	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Xylenes, Total	ND		1.5	0.94	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
Ethylene Dibromide	ND		0.73	0.36	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
2-Butanone (MEK)	ND		7.3	3.6	ug/Kg		01/31/19 19:30	02/06/19 14:08	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/31/19 19:30	02/06/19 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:30*	*02/06/19 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*01/31/19 19:30*	*02/06/19 14:08*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		50	25	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Acenaphthene	ND		25	14	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Acenaphthylene	ND		25	12	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Anthracene	**13**	**J**	25	10	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Benzo[a]anthracene	ND		25	7.5	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Benzo[a]pyrene	**20**	**J**	25	9.5	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Benzo[b]fluoranthene	**29**		25	10	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Benzo[g,h,i]perylene	ND		25	21	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Benzo[k]fluoranthene	**16**	**J**	25	10	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Chrysene	**9.3**	**J**	25	7.0	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Dibenz(a,h)anthracene	ND		25	17	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Fluoranthene	**18**	**J**	25	7.0	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Fluorene	ND		25	11	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Indeno[1,2,3-cd]pyrene	ND		25	21	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Naphthalene	ND		25	17	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Phenanthrene	**16**	**J**	25	9.0	ug/Kg		02/01/19 16:03	02/14/19 05:10	5
Pyrene	**26**		25	8.5	ug/Kg		02/01/19 16:03	02/14/19 05:10	5

Client Sample ID: DUP-109

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*33 - 120*	*02/01/19 16:03*	*02/14/19 05:10*	*5*
Terphenyl-d14	*157*	*X*	*35 - 146*	*02/01/19 16:03*	*02/14/19 05:10*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**120**	**B**	9.9	5.0	mg/Kg		02/04/19 12:49	02/05/19 09:05	1
Motor Oil Range Organics [C24-C36]	**170**	**B**	9.9	5.0	mg/Kg		02/04/19 12:49	02/05/19 09:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*95*		*40 - 140*	*02/04/19 12:49*	*02/05/19 09:05*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Endrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Toxaphene	ND		200	50	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
Chlordane (technical)	ND		50	9.9	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/07/19 20:37	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*28 - 115*	*02/07/19 11:12*	*02/07/19 20:37*	*1*
DCB Decachlorobiphenyl (Surr)	*52*		*21 - 117*	*02/07/19 11:12*	*02/07/19 20:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:59	1
Aroclor 1221	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:59	1
Aroclor 1232	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:59	1
Aroclor 1242	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:59	1
Aroclor 1248	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:59	1
Aroclor 1254	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:59	1
Aroclor 1260	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 18:59	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DUP-109

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*02/07/19 11:12*	*02/08/19 18:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2		1.6	0.27	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Arsenic	4.2		3.3	0.28	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Barium	51	B	1.6	0.23	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Beryllium	0.47		0.33	0.11	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Cadmium	0.51		0.41	0.041	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Chromium	150		1.6	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Cobalt	19		0.66	0.066	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Copper	75		4.9	2.3	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Lead	23	B	1.6	0.34	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Molybdenum	ND		1.6	0.21	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Nickel	150		1.6	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Selenium	1.5	J	3.3	0.49	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Silver	ND		0.82	0.17	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Thallium	ND		1.6	0.48	mg/Kg		02/02/19 08:08	02/08/19 16:18	4
Vanadium	96		1.6	0.22	mg/Kg		02/02/19 08:08	02/06/19 22:58	4
Zinc	120		4.9	2.1	mg/Kg		02/02/19 08:08	02/06/19 22:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.73	B	0.015	0.0023	mg/Kg		02/13/19 18:00	02/14/19 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.2		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AC15S-3.5-4

Date Collected: 01/31/19 12:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		01/31/19 19:30	02/06/19 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/31/19 19:30*	*02/06/19 14:32*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*01/31/19 19:30*	*02/06/19 14:32*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:30*	*02/06/19 14:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
2-Hexanone	ND		7.8	3.9	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Benzene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Bromobenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Bromoform	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Bromomethane	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Chloroethane	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Chloroform	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Chloromethane	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Dibromomethane	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1

Client Sample ID: DG-AC15S-3.5-4 Lab Sample ID: 720-91105-13

Date Collected: 01/31/19 12:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Naphthalene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Styrene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Toluene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Trichloroethene	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Vinyl acetate	ND		6.3	3.1	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		01/31/19 19:30	02/06/19 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		01/31/19 19:30	02/06/19 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*01/31/19 19:30*	*02/06/19 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*01/31/19 19:30*	*02/06/19 14:32*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	98	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Acenaphthene	**62**	**J**	98	55	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Acenaphthylene	**130**		98	47	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Anthracene	**2400**		98	39	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Benzo[a]anthracene	**2000**		98	29	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Benzo[a]pyrene	**2100**		98	37	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Benzo[b]fluoranthene	**3200**		98	41	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Benzo[g,h,i]perylene	**610**		98	84	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Benzo[k]fluoranthene	**1200**		98	41	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Chrysene	**2400**		98	27	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Dibenz(a,h)anthracene	**250**		98	68	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Fluoranthene	**6600**		98	27	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Fluorene	**96**	**J**	98	43	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Indeno[1,2,3-cd]pyrene	**650**		98	82	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Naphthalene	**73**	**J**	98	68	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Phenanthrene	**240**		98	35	ug/Kg		02/01/19 16:03	02/14/19 05:34	20
Pyrene	**6100**		98	33	ug/Kg		02/01/19 16:03	02/14/19 05:34	20

Client Sample ID: DG-AC15S-3.5-4 Lab Sample ID: 720-91105-13

Date Collected: 01/31/19 12:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		33 - 120	02/01/19 16:03	02/14/19 05:34	20
Terphenyl-d14	141		35 - 146	02/01/19 16:03	02/14/19 05:34	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	44	B	7.5	3.7	mg/Kg		02/04/19 12:49	02/05/19 11:13	1
Motor Oil Range Organics [C24-C36]	38	B	7.5	3.7	mg/Kg		02/04/19 12:49	02/05/19 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	85		40 - 140	02/04/19 12:49	02/05/19 11:13	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
delta-BHC	ND		9.8	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
Chlordane (technical)	ND		49	9.8	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:30	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		28 - 115	02/07/19 11:12	02/08/19 13:30	1
DCB Decachlorobiphenyl (Surr)	86		21 - 117	02/07/19 11:12	02/08/19 13:30	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 20:07	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 20:07	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 20:07	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 20:07	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 20:07	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 20:07	1
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 20:07	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AC15S-3.5-4

Date Collected: 01/31/19 12:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-13

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*02/07/19 11:12*	*02/08/19 20:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.2	0.20	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Arsenic	85		2.4	0.20	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Barium	59	B	1.2	0.17	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Beryllium	0.29		0.24	0.078	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Cadmium	1.2		0.30	0.030	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Chromium	57		1.2	0.13	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Cobalt	8.9		0.48	0.048	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Copper	39		3.6	1.7	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Lead	150	B	1.2	0.25	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Molybdenum	0.25	J	1.2	0.15	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Nickel	27		1.2	0.12	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Selenium	1.0	J	2.4	0.36	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Silver	ND		0.60	0.12	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Thallium	ND		1.2	0.35	mg/Kg		02/02/19 08:08	02/08/19 16:22	4
Vanadium	43		1.2	0.16	mg/Kg		02/02/19 08:08	02/06/19 23:02	4
Zinc	260		3.6	1.5	mg/Kg		02/02/19 08:08	02/06/19 23:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/14/19 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.9		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AC15S-7.5-8

Date Collected: 01/31/19 12:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-14

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**97000**		12000	8200	ug/Kg		02/03/19 10:47	02/07/19 15:42	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*55 - 140*	*02/03/19 10:47*	*02/07/19 15:42*	*100*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*	*02/03/19 10:47*	*02/07/19 15:42*	*100*
Toluene-d8 (Surr)	*100*		*60 - 140*	*02/03/19 10:47*	*02/07/19 15:42*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		580	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,1,1,2-Tetrachloroethane	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,1,1-Trichloroethane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,1,2,2-Tetrachloroethane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,1,2-Trichloroethane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,1-Dichloroethane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,1-Dichloroethene	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,1-Dichloropropene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,2,3-Trichlorobenzene	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,2,4-Trichlorobenzene	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,2,4-Trimethylbenzene	**530**		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,2-Dibromo-3-Chloropropane	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,2-Dichlorobenzene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,2-Dichloroethane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,2-Dichloropropane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,3,5-Trimethylbenzene	**150**		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,3-Dichlorobenzene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,3-Dichloropropane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,4-Dichlorobenzene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
2,2-Dichloropropane	ND		230	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
2-Chlorotoluene	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
2-Hexanone	ND		1500	580	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
4-Chlorotoluene	ND		290	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
4-Isopropyltoluene	**180**		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Benzene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Bromobenzene	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Bromoform	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Bromomethane	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Carbon disulfide	ND		290	150	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Carbon tetrachloride	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Chlorobenzene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Chlorobromomethane	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Chloroethane	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Chloroform	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Chloromethane	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
cis-1,2-Dichloroethene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
cis-1,3-Dichloropropene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Chlorodibromomethane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Dibromomethane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Dichlorobromomethane	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100

Client Sample ID: DG-AC15S-7.5-8 Lab Sample ID: 720-91105-14

Date Collected: 01/31/19 12:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Ethylbenzene	**76**	**J**	120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Hexachlorobutadiene	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Isopropylbenzene	**64**	**J**	120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Methylene Chloride	ND		1200	580	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Methyl tert-butyl ether	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Naphthalene	**1400**		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
n-Butylbenzene	**130**	**J**	290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
N-Propylbenzene	**91**	**J**	120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
sec-Butylbenzene	**67**	**J**	290	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Styrene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
tert-Butylbenzene	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Tetrachloroethene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Toluene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
trans-1,2-Dichloroethene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
trans-1,3-Dichloropropene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Trichloroethene	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Trichlorofluoromethane	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		580	230	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Vinyl acetate	ND		580	290	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Vinyl chloride	ND		290	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Xylenes, Total	**370**		230	120	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
Ethylene Dibromide	ND		120	58	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
2-Butanone (MEK)	ND		1200	580	ug/Kg		02/03/19 10:47	02/07/19 15:42	100
4-Methyl-2-pentanone (MIBK)	ND		580	230	ug/Kg		02/03/19 10:47	02/07/19 15:42	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*60 - 140*	*02/03/19 10:47*	*02/07/19 15:42*	*100*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*02/03/19 10:47*	*02/07/19 15:42*	*100*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**12000**		990	500	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Acenaphthene	**1100**		500	280	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Acenaphthylene	**410**	**J**	500	240	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Anthracene	**690**		500	200	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Benzo[a]anthracene	**700**		500	150	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Benzo[a]pyrene	**710**		500	190	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Benzo[b]fluoranthene	**830**		500	210	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Benzo[g,h,i]perylene	ND		500	430	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Benzo[k]fluoranthene	**360**	**J**	500	210	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Chrysene	**870**		500	140	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Dibenz(a,h)anthracene	ND		500	350	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Fluoranthene	**1400**		500	140	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Fluorene	**2200**		500	220	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Indeno[1,2,3-cd]pyrene	ND		500	420	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Naphthalene	**6500**		500	350	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Phenanthrene	**4200**		500	180	ug/Kg		02/01/19 16:03	02/14/19 05:58	50
Pyrene	**2800**		500	170	ug/Kg		02/01/19 16:03	02/14/19 05:58	50

Client Sample ID: DG-AC15S-7.5-8 Lab Sample ID: 720-91105-14

Date Collected: 01/31/19 12:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		33 - 120	02/01/19 16:03	02/14/19 05:58	50
Terphenyl-d14	128		35 - 146	02/01/19 16:03	02/14/19 05:58	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3800	B	150	75	mg/Kg		02/04/19 12:49	02/06/19 11:41	5
Motor Oil Range Organics [C24-C36]	2300	B	150	75	mg/Kg		02/04/19 12:49	02/06/19 11:41	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	67		40 - 140	02/04/19 12:49	02/06/19 11:41	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Dieldrin	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Endrin aldehyde	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Endrin	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Endrin ketone	ND		10	4.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Heptachlor	ND		10	4.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Heptachlor epoxide	ND		10	4.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
4,4'-DDT	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
4,4'-DDE	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
4,4'-DDD	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Endosulfan I	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Endosulfan II	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
alpha-BHC	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
beta-BHC	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
gamma-BHC (Lindane)	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
delta-BHC	ND		20	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Endosulfan sulfate	ND		20	4.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Methoxychlor	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Toxaphene	ND		400	100	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
Chlordane (technical)	ND		100	20	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
alpha-Chlordane	ND		10	4.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1
gamma-Chlordane	ND		10	3.0	ug/Kg		02/07/19 11:12	02/08/19 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		28 - 115	02/07/19 11:12	02/08/19 17:39	1
DCB Decachlorobiphenyl (Surr)	55		21 - 117	02/07/19 11:12	02/08/19 17:39	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	34	ug/Kg		02/07/19 11:12	02/08/19 20:20	1
Aroclor 1221	ND		100	34	ug/Kg		02/07/19 11:12	02/08/19 20:20	1
Aroclor 1232	ND		100	34	ug/Kg		02/07/19 11:12	02/08/19 20:20	1
Aroclor 1242	ND		100	34	ug/Kg		02/07/19 11:12	02/08/19 20:20	1
Aroclor 1248	ND		100	34	ug/Kg		02/07/19 11:12	02/08/19 20:20	1
Aroclor 1254	ND		100	34	ug/Kg		02/07/19 11:12	02/08/19 20:20	1
Aroclor 1260	ND		100	34	ug/Kg		02/07/19 11:12	02/08/19 20:20	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AC15S-7.5-8

Date Collected: 01/31/19 12:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-14

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*45 - 120*	*02/07/19 11:12*	*02/08/19 20:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	120		6.6	1.1	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Arsenic	50		13	1.1	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Barium	720	B	1.3	0.19	mg/Kg		02/02/19 08:08	02/06/19 23:07	4
Beryllium	0.44		0.26	0.086	mg/Kg		02/02/19 08:08	02/06/19 23:07	4
Cadmium	17		1.6	0.16	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Chromium	65		6.6	0.70	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Cobalt	8.9		2.6	0.26	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Copper	1900		20	9.4	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Lead	6400	B	6.6	1.4	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Molybdenum	ND		1.3	0.17	mg/Kg		02/02/19 08:08	02/06/19 23:07	4
Nickel	58		6.6	0.67	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Selenium	ND		13	2.0	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Silver	17		3.3	0.66	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Thallium	ND		6.6	1.9	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Vanadium	40		6.6	0.89	mg/Kg		02/02/19 08:08	02/08/19 16:27	20
Zinc	15000		20	8.4	mg/Kg		02/02/19 08:08	02/08/19 16:27	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.6	B	0.064	0.0094	mg/Kg		02/13/19 18:00	02/14/19 12:20	4

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.4		0.1	0.1	%			02/06/19 20:53	1

Client Sample ID: DG-AN13S-0.5-1 Lab Sample ID: 720-91105-15

Date Collected: 01/31/19 13:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		96	67	ug/Kg		01/31/19 19:30	02/06/19 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/31/19 19:30*	*02/06/19 14:57*	*1*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*	*01/31/19 19:30*	*02/06/19 14:57*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/31/19 19:30*	*02/06/19 14:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.6	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,1,1,2-Tetrachloroethane	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,1,1-Trichloroethane	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,1,2-Trichloroethane	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,1-Dichloroethane	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,1-Dichloroethene	ND		1.9	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,1-Dichloropropene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,2,3-Trichlorobenzene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,2,4-Trichlorobenzene	ND		4.8	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,2,4-Trimethylbenzene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,2-Dibromo-3-Chloropropane	ND		4.8	1.9	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,2-Dichlorobenzene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,2-Dichloroethane	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,2-Dichloropropane	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,3,5-Trimethylbenzene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,3-Dichlorobenzene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,3-Dichloropropane	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,4-Dichlorobenzene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
2,2-Dichloropropane	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
2-Chlorotoluene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
2-Hexanone	ND		9.6	4.8	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
4-Chlorotoluene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
4-Isopropyltoluene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Benzene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Bromobenzene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Bromoform	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Bromomethane	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Carbon disulfide	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Carbon tetrachloride	ND		1.9	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Chlorobenzene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Chlorobromomethane	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Chloroethane	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Chloroform	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Chloromethane	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
cis-1,2-Dichloroethene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
cis-1,3-Dichloropropene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Chlorodibromomethane	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Dibromomethane	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Dichlorobromomethane	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1

Client Sample ID: DG-AN13S-0.5-1 Lab Sample ID: 720-91105-15

Date Collected: 01/31/19 13:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Ethylbenzene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Hexachlorobutadiene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Isopropylbenzene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Methylene Chloride	ND		9.6	4.8	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Methyl tert-butyl ether	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Naphthalene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
n-Butylbenzene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
N-Propylbenzene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
sec-Butylbenzene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Styrene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
tert-Butylbenzene	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Tetrachloroethene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Toluene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
trans-1,2-Dichloroethene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
trans-1,3-Dichloropropene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Trichloroethene	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Trichlorofluoromethane	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.6	4.8	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Vinyl acetate	ND		7.7	3.8	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Vinyl chloride	ND		1.9	0.96	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Xylenes, Total	ND		1.9	1.3	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
Ethylene Dibromide	ND		0.96	0.48	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
2-Butanone (MEK)	ND		9.6	4.8	ug/Kg		01/31/19 19:30	02/06/19 14:57	1
4-Methyl-2-pentanone (MIBK)	ND		4.8	2.4	ug/Kg		01/31/19 19:30	02/06/19 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*79 - 123*	*01/31/19 19:30*	*02/06/19 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*01/31/19 19:30*	*02/06/19 14:57*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		4900	2400	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Acenaphthene	ND		2400	1400	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Acenaphthylene	ND		2400	1200	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Anthracene	ND		2400	980	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Benzo[a]anthracene	ND		2400	730	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Benzo[a]pyrene	ND		2400	930	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Benzo[b]fluoranthene	ND		2400	1000	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Benzo[g,h,i]perylene	ND		2400	2100	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Benzo[k]fluoranthene	ND		2400	1000	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Chrysene	ND		2400	690	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Dibenz(a,h)anthracene	ND		2400	1700	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Fluoranthene	**700**	**J**	2400	690	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Fluorene	ND		2400	1100	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Indeno[1,2,3-cd]pyrene	ND		2400	2100	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Naphthalene	ND		2400	1700	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Phenanthrene	ND		2400	880	ug/Kg		02/01/19 16:03	02/14/19 06:21	100
Pyrene	**1300**	**J**	2400	830	ug/Kg		02/01/19 16:03	02/14/19 06:21	100

Client Sample ID: DG-AN13S-0.5-1 Lab Sample ID: 720-91105-15

Date Collected: 01/31/19 13:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	X	33 - 120	02/01/19 16:03	02/14/19 06:21	100
Terphenyl-d14	0	X	35 - 146	02/01/19 16:03	02/14/19 06:21	100

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3400	B	300	150	mg/Kg		02/04/19 12:49	02/06/19 12:02	10
Motor Oil Range Organics [C24-C36]	6700	B	300	150	mg/Kg		02/04/19 12:49	02/06/19 12:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	32	X	40 - 140	02/04/19 12:49	02/06/19 12:02	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
4,4'-DDE	2.8	J	4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
Chlordane (technical)	ND		49	9.9	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 17:10	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	43		28 - 115	02/07/19 11:12	02/08/19 17:10	1
DCB Decachlorobiphenyl (Surr)	45		21 - 117	02/07/19 11:12	02/08/19 17:10	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:40	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:40	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:40	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:40	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:40	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:40	1
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AN13S-0.5-1

Date Collected: 01/31/19 13:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*02/07/19 11:12*	*02/08/19 19:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.92**	**J B**	1.9	0.32	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Arsenic	**6.0**		3.8	0.32	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Barium	**47**		1.9	0.27	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Beryllium	**0.60**	**B**	0.38	0.12	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Cadmium	**0.19**	**J**	0.48	0.047	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Chromium	**37**		1.9	0.20	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Cobalt	**11**		0.76	0.076	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Copper	**38**		5.7	2.7	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Lead	**11**		1.9	0.40	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Molybdenum	ND		1.9	0.24	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Nickel	**54**		1.9	0.19	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Selenium	**2.3**	**J B**	3.8	0.57	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Silver	ND		0.95	0.19	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Thallium	ND		1.9	0.55	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Vanadium	**59**		1.9	0.26	mg/Kg		02/13/19 08:41	02/14/19 11:39	4
Zinc	**45**		5.7	2.4	mg/Kg		02/13/19 08:41	02/14/19 11:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J B**	0.016	0.0024	mg/Kg		02/13/19 18:00	02/14/19 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AN13S-3.5-4

Date Collected: 01/31/19 13:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-16

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		72	50	ug/Kg		01/31/19 19:30	02/06/19 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/31/19 19:30*	*02/06/19 15:21*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/31/19 19:30*	*02/06/19 15:21*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:30*	*02/06/19 15:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.2	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,1,1-Trichloroethane	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,1,2-Trichloroethane	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,1-Dichloroethane	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,1-Dichloropropene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,2,3-Trichlorobenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,2,4-Trichlorobenzene	ND		3.6	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,2,4-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,2-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,2-Dichloroethane	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,2-Dichloropropane	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,3,5-Trimethylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,3-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,3-Dichloropropane	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,4-Dichlorobenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
2,2-Dichloropropane	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
2-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
2-Hexanone	ND		7.2	3.6	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
4-Chlorotoluene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
4-Isopropyltoluene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Benzene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Bromobenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Bromoform	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Bromomethane	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Carbon disulfide	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Chlorobenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Chlorobromomethane	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Chloroethane	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Chloroform	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Chloromethane	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
cis-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
cis-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Chlorodibromomethane	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Dibromomethane	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Dichlorobromomethane	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1

Client Sample ID: DG-AN13S-3.5-4 — Lab Sample ID: 720-91105-16

Date Collected: 01/31/19 13:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Ethylbenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Hexachlorobutadiene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Isopropylbenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Methylene Chloride	ND		7.2	3.6	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Methyl tert-butyl ether	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Naphthalene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
n-Butylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
N-Propylbenzene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
sec-Butylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Styrene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
tert-Butylbenzene	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Tetrachloroethene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Toluene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
trans-1,2-Dichloroethene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
trans-1,3-Dichloropropene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Trichloroethene	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Trichlorofluoromethane	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.2	3.6	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Vinyl acetate	ND		5.7	2.9	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Vinyl chloride	ND		1.4	0.72	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Xylenes, Total	ND		1.4	0.93	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
Ethylene Dibromide	ND		0.72	0.36	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
2-Butanone (MEK)	ND		7.2	3.6	ug/Kg		01/31/19 19:30	02/06/19 15:21	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		01/31/19 19:30	02/06/19 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:30*	*02/06/19 15:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*01/31/19 19:30*	*02/06/19 15:21*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		9.9	4.9	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Acenaphthene	ND		4.9	2.8	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Acenaphthylene	ND		4.9	2.4	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Anthracene	**2.0**	**J**	4.9	2.0	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Benzo[a]anthracene	ND		4.9	1.5	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Benzo[a]pyrene	**6.4**		4.9	1.9	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Benzo[b]fluoranthene	**9.5**		4.9	2.1	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Benzo[g,h,i]perylene	**5.9**		4.9	4.2	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Benzo[k]fluoranthene	ND		4.9	2.1	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Chrysene	**3.6**	**J**	4.9	1.4	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Dibenz(a,h)anthracene	ND		4.9	3.4	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Fluoranthene	**9.5**		4.9	1.4	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Fluorene	ND		4.9	2.2	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Indeno[1,2,3-cd]pyrene	**4.7**	**J**	4.9	4.1	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Naphthalene	ND		4.9	3.4	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Phenanthrene	**4.7**	**J**	4.9	1.8	ug/Kg		02/01/19 16:03	02/14/19 01:15	1
Pyrene	**13**		4.9	1.7	ug/Kg		02/01/19 16:03	02/14/19 01:15	1

Client Sample ID: DG-AN13S-3.5-4
Lab Sample ID: 720-91105-16

Date Collected: 01/31/19 13:00
Matrix: Solid
Date Received: 01/31/19 18:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*02/01/19 16:03*	*02/14/19 01:15*	*1*
Terphenyl-d14	*111*		*35 - 146*	*02/01/19 16:03*	*02/14/19 01:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**26**	**B**	5.0	2.5	mg/Kg		02/04/19 12:49	02/05/19 11:34	1
Motor Oil Range Organics [C24-C36]	**33**	**B**	5.0	2.5	mg/Kg		02/04/19 12:49	02/05/19 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*88*		*40 - 140*	*02/04/19 12:49*	*02/05/19 11:34*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Endrin ketone	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Heptachlor	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Toxaphene	ND		200	49	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
Chlordane (technical)	ND		49	9.9	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
alpha-Chlordane	ND		4.9	2.0	ug/Kg		02/07/19 11:12	02/07/19 17:47	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:12	02/07/19 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*28 - 115*	*02/07/19 11:12*	*02/07/19 17:47*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*21 - 117*	*02/07/19 11:12*	*02/07/19 17:47*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:53	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:53	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:53	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:53	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:53	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:53	1
Aroclor 1260	ND		49	17	ug/Kg		02/07/19 11:12	02/08/19 19:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AN13S-3.5-4

Date Collected: 01/31/19 13:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-16

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*02/07/19 11:12*	*02/08/19 19:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	1.6	0.27	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Arsenic	0.39	J	3.2	0.27	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Barium	250		1.6	0.23	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Beryllium	0.77	B	0.32	0.10	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Cadmium	0.28	J	0.40	0.040	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Chromium	41		1.6	0.17	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Cobalt	21		0.65	0.065	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Copper	81		4.8	2.3	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Lead	5.4		1.6	0.34	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Molybdenum	ND		1.6	0.21	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Nickel	35		1.6	0.16	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Selenium	1.7	J B	3.2	0.48	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Silver	0.29	J	0.81	0.16	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Thallium	ND		1.6	0.47	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Vanadium	120		1.6	0.22	mg/Kg		02/13/19 08:41	02/14/19 11:43	4
Zinc	69		4.8	2.0	mg/Kg		02/13/19 08:41	02/14/19 11:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14	B	0.015	0.0023	mg/Kg		02/13/19 18:00	02/14/19 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AN13S-9.5-10

Date Collected: 01/31/19 13:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-17

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**79**	**J**	99	69	ug/Kg		01/31/19 19:30	02/06/19 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*01/31/19 19:30*	*02/06/19 15:46*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*	*01/31/19 19:30*	*02/06/19 15:46*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/31/19 19:30*	*02/06/19 15:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,1,1-Trichloroethane	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,1,2-Trichloroethane	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,1-Dichloroethane	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,1-Dichloropropene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,2,3-Trichlorobenzene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,2,4-Trichlorobenzene	ND		5.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,2-Dichlorobenzene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,2-Dichloroethane	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,2-Dichloropropane	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,3-Dichlorobenzene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,3-Dichloropropane	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,4-Dichlorobenzene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
2-Chlorotoluene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
2-Hexanone	ND		9.9	5.0	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
4-Chlorotoluene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
4-Isopropyltoluene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Benzene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Bromobenzene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Bromoform	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Bromomethane	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Carbon disulfide	**1.4**	**J**	2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Chlorobenzene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Chlorobromomethane	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Chloroethane	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Chloroform	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Chloromethane	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
cis-1,2-Dichloroethene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
cis-1,3-Dichloropropene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Chlorodibromomethane	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Dibromomethane	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Dichlorobromomethane	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1

Client Sample ID: DG-AN13S-9.5-10 Lab Sample ID: 720-91105-17

Date Collected: 01/31/19 13:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Ethylbenzene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Hexachlorobutadiene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Isopropylbenzene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Methylene Chloride	ND		9.9	5.0	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Methyl tert-butyl ether	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Naphthalene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
n-Butylbenzene	**1.2**	**J**	2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
N-Propylbenzene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
sec-Butylbenzene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Styrene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
tert-Butylbenzene	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Tetrachloroethene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Toluene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
trans-1,2-Dichloroethene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
trans-1,3-Dichloropropene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Trichloroethene	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Trichlorofluoromethane	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.9	5.0	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Vinyl acetate	ND		7.9	4.0	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Vinyl chloride	ND		2.0	0.99	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Xylenes, Total	ND		2.0	1.3	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
Ethylene Dibromide	ND		0.99	0.50	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
2-Butanone (MEK)	**46**		9.9	5.0	ug/Kg		01/31/19 19:30	02/06/19 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg		01/31/19 19:30	02/06/19 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*01/31/19 19:30*	*02/06/19 15:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*01/31/19 19:30*	*02/06/19 15:46*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**280**		97	49	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Acenaphthene	**88**		49	27	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Acenaphthylene	**120**		49	23	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Anthracene	**53**		49	19	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Benzo[a]anthracene	ND		49	15	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Benzo[a]pyrene	**38**	**J ***	49	18	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Benzo[b]fluoranthene	**67**	*****	49	20	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Benzo[g,h,i]perylene	ND	*	49	42	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Benzo[k]fluoranthene	**34**	**J ***	49	20	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Chrysene	**36**	**J**	49	14	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Dibenz(a,h)anthracene	ND	*	49	34	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Fluoranthene	**120**		49	14	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Fluorene	**34**	**J**	49	21	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Indeno[1,2,3-cd]pyrene	ND	*	49	41	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Naphthalene	**4900**		49	34	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Phenanthrene	**330**		49	17	ug/Kg		02/01/19 16:03	02/14/19 06:45	10
Pyrene	**160**		49	17	ug/Kg		02/01/19 16:03	02/14/19 06:45	10

Client Sample ID: DG-AN13S-9.5-10

Date Collected: 01/31/19 13:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-17

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		33 - 120	02/01/19 16:03	02/14/19 06:45	10
Terphenyl-d14	101		35 - 146	02/01/19 16:03	02/14/19 06:45	10

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	54	B	15	7.6	mg/Kg		02/04/19 12:49	02/05/19 12:18	1
Motor Oil Range Organics [C24-C36]	31	B	15	7.6	mg/Kg		02/04/19 12:49	02/05/19 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	84		40 - 140	02/04/19 12:49	02/05/19 12:18	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Endrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
delta-BHC	ND		9.9	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Toxaphene	ND		200	50	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
Chlordane (technical)	ND		50	9.9	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/08/19 13:45	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/08/19 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		28 - 115	02/07/19 11:12	02/08/19 13:45	1
DCB Decachlorobiphenyl (Surr)	69		21 - 117	02/07/19 11:12	02/08/19 13:45	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 20:34	1
Aroclor 1221	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 20:34	1
Aroclor 1232	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 20:34	1
Aroclor 1242	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 20:34	1
Aroclor 1248	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 20:34	1
Aroclor 1254	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 20:34	1
Aroclor 1260	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 20:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AN13S-9.5-10

Date Collected: 01/31/19 13:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-17

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*02/07/19 11:12*	*02/08/19 20:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**18**	**B**	9.6	1.6	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Arsenic	**28**		19	1.6	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Barium	**500**		9.6	1.4	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Beryllium	ND		1.9	0.63	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Cadmium	**3.7**		2.4	0.24	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Chromium	**58**		9.6	1.0	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Cobalt	**6.0**		3.8	0.38	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Copper	**1200**		29	14	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Lead	**9200**		9.6	2.0	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Molybdenum	**3.7**	**J**	9.6	1.2	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Nickel	**34**		9.6	0.98	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Selenium	ND		19	2.9	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Silver	**4.7**	**J**	4.8	0.97	mg/Kg		02/13/19 08:41	02/14/19 16:36	20
Thallium	ND		9.6	2.8	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Vanadium	**19**		9.6	1.3	mg/Kg		02/13/19 08:41	02/14/19 14:53	20
Zinc	**2900**		29	12	mg/Kg		02/13/19 08:41	02/14/19 14:53	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**12**	**B**	0.16	0.023	mg/Kg		02/13/19 18:00	02/14/19 12:25	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**36.6**		0.1	0.1	%			02/06/19 20:53	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: TB-01.31.19

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-19

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/11/19 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*02/11/19 14:40*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*02/11/19 14:40*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/11/19 14:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Acetone	ND		20	10	ug/L			02/11/19 14:40	1
Benzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Bromobenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Bromoform	ND		1.0	0.40	ug/L			02/11/19 14:40	1
Bromomethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/11/19 14:40	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/11/19 14:40	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/11/19 14:40	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Chloroethane	ND		1.0	0.40	ug/L			02/11/19 14:40	1
Chloroform	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Chloromethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/11/19 14:40	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Dibromomethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/11/19 14:40	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/11/19 14:40	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91105-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: TB-01.31.19
Lab Sample ID: 720-91105-19
Date Collected: 01/31/19 00:00
Matrix: Water
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/11/19 14:40	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/11/19 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/11/19 14:40	1
Naphthalene	ND		1.0	0.40	ug/L			02/11/19 14:40	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Styrene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Toluene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 14:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 14:40	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Trichloroethene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/11/19 14:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/11/19 14:40	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/11/19 14:40	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/11/19 14:40	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/11/19 14:40	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/11/19 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*02/11/19 14:40*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/11/19 14:40*	*1*

Client Sample ID: DUP-111 Lab Sample ID: 720-91105-20

Date Collected: 01/31/19 00:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		01/31/19 19:30	02/06/19 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*01/31/19 19:30*	*02/06/19 16:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*01/31/19 19:30*	*02/06/19 16:11*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*01/31/19 19:30*	*02/06/19 16:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
2-Hexanone	ND		7.4	3.7	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Benzene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Bromobenzene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Bromoform	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Bromomethane	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Chloroethane	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Chloroform	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Chloromethane	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Dibromomethane	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1

Client Sample ID: DUP-111 **Lab Sample ID: 720-91105-20**
Date Collected: 01/31/19 00:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Naphthalene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Styrene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Toluene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Trichloroethene	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		01/31/19 19:30	02/06/19 16:11	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		01/31/19 19:30	02/06/19 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*01/31/19 19:30*	*02/06/19 16:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*01/31/19 19:30*	*02/06/19 16:11*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**10**	**J**	20	9.8	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Acenaphthene	**48**		9.8	5.5	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Acenaphthylene	ND		9.8	4.7	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Anthracene	**16**		9.8	3.9	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Benzo[a]anthracene	ND		9.8	2.9	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Benzo[a]pyrene	**6.2**	**J**	9.8	3.7	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Benzo[b]fluoranthene	**9.6**	**J**	9.8	4.1	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Benzo[g,h,i]perylene	ND		9.8	8.4	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Benzo[k]fluoranthene	**4.9**	**J**	9.8	4.1	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Chrysene	**5.0**	**J**	9.8	2.7	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Dibenz(a,h)anthracene	ND		9.8	6.9	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Fluoranthene	**16**		9.8	2.7	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Fluorene	**50**		9.8	4.3	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Indeno[1,2,3-cd]pyrene	ND		9.8	8.2	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Naphthalene	**9.8**		9.8	6.9	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Phenanthrene	**79**		9.8	3.5	ug/Kg		02/01/19 16:03	02/14/19 07:08	2
Pyrene	**15**		9.8	3.3	ug/Kg		02/01/19 16:03	02/14/19 07:08	2

Client Sample ID: DUP-111

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-20

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		33 - 120	02/01/19 16:03	02/14/19 07:08	2
Terphenyl-d14	117		35 - 146	02/01/19 16:03	02/14/19 07:08	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**910**	**B**	15	7.5	mg/Kg		02/04/19 12:49	02/05/19 10:30	1
Motor Oil Range Organics [C24-C36]	**1100**	**B**	15	7.5	mg/Kg		02/04/19 12:49	02/05/19 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	82		40 - 140	02/04/19 12:49	02/05/19 10:30	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Dieldrin	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Endrin	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Endrin ketone	ND		4.9	1.9	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Heptachlor	ND		4.9	1.9	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Heptachlor epoxide	ND		4.9	1.9	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
4,4'-DDE	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
4,4'-DDD	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Endosulfan I	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Endosulfan II	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
alpha-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
beta-BHC	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
delta-BHC	ND		9.7	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Endosulfan sulfate	ND		9.7	1.9	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Methoxychlor	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Toxaphene	ND		190	49	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
Chlordane (technical)	ND		49	9.7	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
alpha-Chlordane	ND		4.9	1.9	ug/Kg		02/07/19 11:14	02/08/19 16:11	1
gamma-Chlordane	ND		4.9	1.5	ug/Kg		02/07/19 11:14	02/08/19 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	44		28 - 115	02/07/19 11:14	02/08/19 16:11	1
DCB Decachlorobiphenyl (Surr)	47		21 - 117	02/07/19 11:14	02/08/19 16:11	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 20:47	1
Aroclor 1221	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 20:47	1
Aroclor 1232	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 20:47	1
Aroclor 1242	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 20:47	1
Aroclor 1248	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 20:47	1
Aroclor 1254	ND		49	17	ug/Kg		02/07/19 11:14	02/08/19 20:47	1
Aroclor 1260	**18**	**J**	49	17	ug/Kg		02/07/19 11:14	02/08/19 20:47	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DUP-111

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-20

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*02/07/19 11:14*	*02/08/19 20:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.79**	**J B**	1.7	0.28	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Arsenic	**4.9**		3.4	0.29	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Barium	**120**		1.7	0.24	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Beryllium	**0.77**	**B**	0.34	0.11	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Cadmium	**0.21**	**J**	0.42	0.042	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Chromium	**55**		1.7	0.18	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Cobalt	**12**		0.67	0.067	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Copper	**23**		5.0	2.4	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Lead	**13**		1.7	0.35	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Molybdenum	ND		1.7	0.22	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Nickel	**41**		1.7	0.17	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Selenium	**0.78**	**J B**	3.4	0.50	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Silver	ND		0.84	0.17	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Thallium	ND	^	1.7	0.49	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Vanadium	**58**		1.7	0.23	mg/Kg		02/13/19 08:41	02/14/19 12:03	4
Zinc	**55**		5.0	2.1	mg/Kg		02/13/19 08:41	02/14/19 12:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**	**B**	0.015	0.0023	mg/Kg		02/13/19 18:00	02/14/19 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.1	%			02/06/19 20:53	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCA (70-130)	TOL (79-123)
440-231317-A-2 MS	Matrix Spike	98	97
440-231317-A-2 MSD	Matrix Spike Duplicate	100	98
720-91105-1	DG-AS11S-0.5-1	108	96
720-91105-2	DG-AS11S-3.5-4	108	99
720-91105-3	DG-AS11S-7.5-8	103	98
720-91105-4	DG-AW3S-0.5-1	105	98
720-91105-5	DG-AW3S-3.5-4	102	98
720-91105-6	DG-AY3S-0.5-1	101	98
720-91105-7	DG-AY3S-3.5-4	103	99
720-91105-8	DG-Y15S-0.5-1	106	97
720-91105-9	DG-Y15S-3.5-4	96	100
720-91105-11	DG-AC15S-0.5-1	98	99
720-91105-12	DUP-109	99	99
720-91105-13	DG-AC15S-3.5-4	98	98
720-91105-15	DG-AN13S-0.5-1	96	104
720-91105-16	DG-AN13S-3.5-4	95	99
720-91105-17	DG-AN13S-9.5-10	97	101
720-91105-20	DUP-111	99	100
LCS 440-526536/6	Lab Control Sample	95	99
LCS 440-526986/6	Lab Control Sample	97	97
LCSD 440-526986/13	Lab Control Sample Dup	96	99
MB 440-526536/5	Method Blank	99	100
MB 440-526986/5	Method Blank	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TOL (60-140)	DCA (60-140)
720-91105-10	DG-Y15S-7.5-8	98	103
720-91105-14	DG-AC15S-7.5-8	100	99
LCS 440-527268/6	Lab Control Sample	97	104
LCSD 440-527268/7	Lab Control Sample Dup	99	104
MB 440-527268/5	Method Blank	97	105

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCA (70-130)	TOL (80-128)
440-231822-F-22 MS	Matrix Spike	101	96

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	
Lab Sample ID	Client Sample ID	(70-130)	(80-128)	
440-231822-F-22 MSD	Matrix Spike Duplicate	99	100	
720-91105-19	TB-01.31.19	118	102	
LCS 440-527862/5	Lab Control Sample	105	96	
MB 440-527862/4	Method Blank	109	107	

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DBFM	BFB	TOL						
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)						
440-231317-A-2 MS	Matrix Spike	102	99	97						
440-231317-A-2 MSD	Matrix Spike Duplicate	100	100	98						
720-91105-1	DG-AS11S-0.5-1	101	108	96						
720-91105-2	DG-AS11S-3.5-4	102	107	99						
720-91105-3	DG-AS11S-7.5-8	101	104	98						
720-91105-4	DG-AW3S-0.5-1	101	103	98						
720-91105-5	DG-AW3S-3.5-4	100	105	98						
720-91105-6	DG-AY3S-0.5-1	101	104	98						
720-91105-7	DG-AY3S-3.5-4	103	107	99						
720-91105-8	DG-Y15S-0.5-1	104	104	97						
720-91105-9	DG-Y15S-3.5-4	99	104	100						
720-91105-11	DG-AC15S-0.5-1	101	104	99						
720-91105-12	DUP-109	102	103	99						
720-91105-13	DG-AC15S-3.5-4	101	104	98						
720-91105-15	DG-AN13S-0.5-1	100	113	104						
720-91105-16	DG-AN13S-3.5-4	101	102	99						
720-91105-17	DG-AN13S-9.5-10	100	107	101						
720-91105-20	DUP-111	101	102	99						
LCS 440-526537/7	Lab Control Sample	99	101	99						
LCS 440-526987/7	Lab Control Sample	100	103	99						
LCSD 440-526987/14	Lab Control Sample Dup	99	102	98						
MB 440-526537/5	Method Blank	100	104	100						
MB 440-526987/5	Method Blank	101	104	100						

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DBFM	BFB	TOL						
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)						
720-91105-10	DG-Y15S-7.5-8	104	98	98						
720-91105-14	DG-AC15S-7.5-8	101	96	100						

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
LCS 440-527269/8	Lab Control Sample	101	98	100
LCSD 440-527269/9	Lab Control Sample Dup	103	95	99
MB 440-527269/5	Method Blank	104	97	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-231822-F-22 MS	Matrix Spike	105	102	96
440-231822-F-22 MSD	Matrix Spike Duplicate	104	101	100
720-91105-19	TB-01.31.19	113	110	102
LCS 440-527863/6	Lab Control Sample	106	111	101
MB 440-527863/4	Method Blank	108	108	107

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-91069-E-8-E MS	Matrix Spike	94	119
720-91069-E-8-F MSD	Matrix Spike Duplicate	92	116
720-91105-1	DG-AS11S-0.5-1	124 X	191 X
720-91105-2	DG-AS11S-3.5-4	78	113
720-91105-2	DG-AS11S-3.5-4	81	120
720-91105-3	DG-AS11S-7.5-8	78	104
720-91105-4	DG-AW3S-0.5-1	93	137
720-91105-4	DG-AW3S-0.5-1	97	145
720-91105-5	DG-AW3S-3.5-4	102	137
720-91105-5 MS	DG-AW3S-3.5-4	95	135
720-91105-5 MSD	DG-AW3S-3.5-4	86	122
720-91105-6	DG-AY3S-0.5-1	82	131
720-91105-7	DG-AY3S-3.5-4	119	189 X
720-91105-8	DG-Y15S-0.5-1	115	172 X
720-91105-9	DG-Y15S-3.5-4	101	154 X
720-91105-10	DG-Y15S-7.5-8	125 X	171 X
720-91105-11	DG-AC15S-0.5-1	113	175 X
720-91105-12	DUP-109	101	157 X
720-91105-13	DG-AC15S-3.5-4	96	141
720-91105-14	DG-AC15S-7.5-8	96	128

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	FBP (33-120)	TPHL (35-146)
720-91105-15	DG-AN13S-0.5-1	0 X	0 X
720-91105-16	DG-AN13S-3.5-4	81	111
720-91105-17	DG-AN13S-9.5-10	89	101
720-91105-20	DUP-111	79	117
LCS 720-259667/2-A	Lab Control Sample	90	121
LCS 720-259687/2-A	Lab Control Sample	84	112
MB 720-259667/1-A	Method Blank	93	120
MB 720-259687/1-A	Method Blank	96	117

Surrogate Legend

FBP = 2-Fluorobiphenyl

TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (40-140)
720-91105-1	DG-AS11S-0.5-1	95
720-91105-1 MS	DG-AS11S-0.5-1	114
720-91105-1 MSD	DG-AS11S-0.5-1	104
720-91105-2	DG-AS11S-3.5-4	87
720-91105-3	DG-AS11S-7.5-8	83
720-91105-4	DG-AW3S-0.5-1	96
720-91105-5	DG-AW3S-3.5-4	95
720-91105-6	DG-AY3S-0.5-1	85
720-91105-7	DG-AY3S-3.5-4	91
720-91105-8	DG-Y15S-0.5-1	91
720-91105-9	DG-Y15S-3.5-4	94
720-91105-10	DG-Y15S-7.5-8	108
720-91105-11	DG-AC15S-0.5-1	99
720-91105-12	DUP-109	95
720-91105-13	DG-AC15S-3.5-4	85
720-91105-14	DG-AC15S-7.5-8	67
720-91105-15	DG-AN13S-0.5-1	32 X
720-91105-16	DG-AN13S-3.5-4	88
720-91105-17	DG-AN13S-9.5-10	84
720-91105-20	DUP-111	82
LCS 440-526652/2-A	Lab Control Sample	91
MB 440-526652/1-A	Method Blank	96

Surrogate Legend

OTCN = n-Octacosane

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (28-115)	DCB2 (21-117)
440-232901-G-1-H MS	Matrix Spike	74	69

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91105-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (28-115)	DCB2 (21-117)
440-232901-G-1-I MSD	Matrix Spike Duplicate	72	64
720-91105-1	DG-AS11S-0.5-1	44	47
720-91105-1 MS	DG-AS11S-0.5-1	77	63
720-91105-1 MSD	DG-AS11S-0.5-1	78	108
720-91105-2	DG-AS11S-3.5-4	54	58
720-91105-3	DG-AS11S-7.5-8	58	45
720-91105-4	DG-AW3S-0.5-1	60	56
720-91105-5	DG-AW3S-3.5-4	46	34
720-91105-6	DG-AY3S-0.5-1	57	45
720-91105-7	DG-AY3S-3.5-4	55	47
720-91105-8	DG-Y15S-0.5-1	52	52
720-91105-9	DG-Y15S-3.5-4	60	65
720-91105-10	DG-Y15S-7.5-8	79	62
720-91105-11	DG-AC15S-0.5-1	56	79
720-91105-12	DUP-109	54	52
720-91105-13	DG-AC15S-3.5-4	90	86
720-91105-14	DG-AC15S-7.5-8	66	55
720-91105-15	DG-AN13S-0.5-1	43	45
720-91105-16	DG-AN13S-3.5-4	82	70
720-91105-17	DG-AN13S-9.5-10	68	69
720-91105-20	DUP-111	44	47
LCS 440-527345/2-A	Lab Control Sample	86	113
LCS 440-528096/2-A	Lab Control Sample	78	89
MB 440-527345/1-A	Method Blank	50	71
MB 440-528096/1-A	Method Blank	75	86

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
720-91105-1	DG-AS11S-0.5-1	96
720-91105-1 MS	DG-AS11S-0.5-1	50
720-91105-1 MSD	DG-AS11S-0.5-1	48
720-91105-2	DG-AS11S-3.5-4	71
720-91105-3	DG-AS11S-7.5-8	58
720-91105-4	DG-AW3S-0.5-1	72
720-91105-5	DG-AW3S-3.5-4	81
720-91105-6	DG-AY3S-0.5-1	69
720-91105-7	DG-AY3S-3.5-4	58
720-91105-8	DG-Y15S-0.5-1	62
720-91105-9	DG-Y15S-3.5-4	71
720-91105-10	DG-Y15S-7.5-8	61
720-91105-11	DG-AC15S-0.5-1	65
720-91105-12	DUP-109	59
720-91105-13	DG-AC15S-3.5-4	77

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91105-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCB2 (45-120)								
720-91105-14	DG-AC15S-7.5-8	84								
720-91105-15	DG-AN13S-0.5-1	55								
720-91105-16	DG-AN13S-3.5-4	58								
720-91105-17	DG-AN13S-9.5-10	50								
720-91105-20	DUP-111	72								
LCS 440-527345/5-A	Lab Control Sample	92								
MB 440-527345/1-A	Method Blank	80								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-526536/5
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Benzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/04/19 09:07	1
Bromoform	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/04/19 09:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/04/19 09:07	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Chloroform	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
2-Hexanone	ND		10	5.0	ug/Kg			02/04/19 09:07	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/04/19 09:07	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Styrene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/04/19 09:07	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526536/5
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Toluene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/04/19 09:07	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/04/19 09:07	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/04/19 09:07	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/04/19 09:07	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/04/19 09:07	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/04/19 09:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/04/19 09:07	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/04/19 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/04/19 09:07*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/04/19 09:07*	*1*

Lab Sample ID: LCS 440-526536/6
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	19.8		ug/Kg		99	70 - 125
1,2-Dichlorobenzene	20.0	19.5		ug/Kg		97	75 - 120
1,3-Dichlorobenzene	20.0	19.2		ug/Kg		96	75 - 125
4-Chlorotoluene	20.0	20.0		ug/Kg		100	75 - 125
1,4-Dichlorobenzene	20.0	19.1		ug/Kg		95	75 - 120
1,3-Dichloropropane	20.0	18.9		ug/Kg		95	70 - 125
Benzene	20.0	19.5		ug/Kg		97	65 - 120
1,1-Dichloropropene	20.0	19.7		ug/Kg		99	70 - 130
Bromobenzene	20.0	20.3		ug/Kg		102	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/Kg		97	50 - 135
Bromoform	20.0	18.1		ug/Kg		90	55 - 135
Bromomethane	20.0	18.7		ug/Kg		94	60 - 145
Carbon disulfide	20.0	18.6		ug/Kg		93	50 - 130
Carbon tetrachloride	20.0	18.8		ug/Kg		94	65 - 140
1,1-Dichloroethane	20.0	18.9		ug/Kg		94	70 - 130
Chlorobenzene	20.0	19.3		ug/Kg		97	75 - 120
1,2-Dichloroethane	20.0	17.5		ug/Kg		87	60 - 140
Chlorobromomethane	20.0	19.9		ug/Kg		100	70 - 135
1,1-Dichloroethene	20.0	19.6		ug/Kg		98	70 - 125
Chloroethane	20.0	18.4		ug/Kg		92	60 - 140
Chloroform	20.0	19.2		ug/Kg		96	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526536/6
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	16.3		ug/Kg		82	45 - 145
1,2-Dichloropropane	20.0	20.1		ug/Kg		101	70 - 130
cis-1,2-Dichloroethene	20.0	19.3		ug/Kg		97	70 - 125
cis-1,3-Dichloropropene	20.0	20.0		ug/Kg		100	75 - 125
Chlorodibromomethane	20.0	19.3		ug/Kg		97	65 - 140
Dibromomethane	20.0	19.5		ug/Kg		97	70 - 130
Dichlorobromomethane	20.0	18.8		ug/Kg		94	70 - 135
2-Hexanone	20.0	18.2		ug/Kg		91	40 - 150
Dichlorodifluoromethane	20.0	16.9		ug/Kg		84	35 - 160
Ethylbenzene	20.0	19.1		ug/Kg		96	70 - 125
4-Isopropyltoluene	20.0	21.0		ug/Kg		105	75 - 125
Hexachlorobutadiene	20.0	19.4		ug/Kg		97	60 - 135
Isopropylbenzene	20.0	19.6		ug/Kg		98	75 - 130
Methylene Chloride	20.0	15.1		ug/Kg		76	55 - 135
Methyl tert-butyl ether	20.0	18.7		ug/Kg		93	60 - 140
Naphthalene	20.0	18.6		ug/Kg		93	55 - 135
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/Kg		94	70 - 130
n-Butylbenzene	20.0	20.3		ug/Kg		101	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/Kg		102	55 - 140
N-Propylbenzene	20.0	20.9		ug/Kg		104	70 - 130
sec-Butylbenzene	20.0	21.0		ug/Kg		105	70 - 125
1,2,3-Trichlorobenzene	20.0	19.2		ug/Kg		96	60 - 130
Styrene	20.0	17.8		ug/Kg		89	75 - 130
1,2,4-Trichlorobenzene	20.0	20.2		ug/Kg		101	70 - 135
tert-Butylbenzene	20.0	20.2		ug/Kg		101	70 - 125
1,1,1-Trichloroethane	20.0	18.8		ug/Kg		94	65 - 135
Tetrachloroethene	20.0	18.4		ug/Kg		92	70 - 125
1,1,2-Trichloroethane	20.0	19.7		ug/Kg		99	65 - 135
Toluene	20.0	19.5		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	20.0	19.6		ug/Kg		98	70 - 125
1,2,3-Trichloropropane	20.0	20.2		ug/Kg		101	60 - 135
trans-1,3-Dichloropropene	20.0	18.6		ug/Kg		93	70 - 135
Trichloroethene	20.0	19.8		ug/Kg		99	70 - 125
1,2,4-Trimethylbenzene	20.0	20.0		ug/Kg		100	70 - 125
Trichlorofluoromethane	20.0	19.5		ug/Kg		97	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.1		ug/Kg		101	60 - 140
1,3,5-Trimethylbenzene	20.0	20.1		ug/Kg		100	70 - 125
Vinyl acetate	20.0	19.2		ug/Kg		96	45 - 145
Vinyl chloride	20.0	17.8		ug/Kg		89	55 - 135
m-Xylene & p-Xylene	20.0	18.9		ug/Kg		94	70 - 125
Ethylene Dibromide	20.0	19.0		ug/Kg		95	70 - 130
o-Xylene	20.0	19.1		ug/Kg		95	70 - 125
2-Butanone (MEK)	20.0	18.8		ug/Kg		94	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	18.3		ug/Kg		92	40 - 145
2,2-Dichloropropane	20.0	18.8		ug/Kg		94	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526536/6
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 440-231317-A-2 MS
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		20.0	20.1		ug/Kg		101	60 - 135
1,2-Dichlorobenzene	ND		20.0	19.3		ug/Kg		97	70 - 130
1,3-Dichlorobenzene	ND		20.0	19.2		ug/Kg		96	70 - 130
4-Chlorotoluene	ND		20.0	20.1		ug/Kg		101	65 - 135
1,4-Dichlorobenzene	ND		20.0	19.3		ug/Kg		97	70 - 130
1,3-Dichloropropane	ND		20.0	19.9		ug/Kg		100	65 - 140
Benzene	ND		20.0	21.4		ug/Kg		107	65 - 130
1,1-Dichloropropene	ND		20.0	21.6		ug/Kg		108	65 - 135
Bromobenzene	ND		20.0	20.3		ug/Kg		102	65 - 140
1,2-Dibromo-3-Chloropropane	ND		20.0	18.6		ug/Kg		93	40 - 150
Bromoform	ND		20.0	19.3		ug/Kg		97	50 - 145
Bromomethane	ND		20.0	21.1		ug/Kg		105	60 - 155
Carbon disulfide	ND		20.0	20.9		ug/Kg		105	40 - 140
Carbon tetrachloride	ND		20.0	20.8		ug/Kg		104	60 - 145
1,1-Dichloroethane	ND		20.0	21.2		ug/Kg		106	65 - 135
Chlorobenzene	ND		20.0	19.9		ug/Kg		100	70 - 130
1,2-Dichloroethane	ND		20.0	19.0		ug/Kg		95	60 - 150
Chlorobromomethane	ND		20.0	21.3		ug/Kg		107	65 - 145
1,1-Dichloroethene	ND		20.0	22.3		ug/Kg		112	65 - 135
Chloroethane	ND		20.0	21.0		ug/Kg		105	60 - 150
Chloroform	ND		20.0	21.0		ug/Kg		105	65 - 135
Chloromethane	ND		20.0	18.8		ug/Kg		94	40 - 145
1,2-Dichloropropane	ND		20.0	21.1		ug/Kg		106	65 - 130
cis-1,2-Dichloroethene	ND		20.0	21.2		ug/Kg		106	65 - 135
cis-1,3-Dichloropropene	ND		20.0	20.9		ug/Kg		105	70 - 135
Chlorodibromomethane	ND		20.0	19.6		ug/Kg		98	60 - 145
Dibromomethane	ND		20.0	20.7		ug/Kg		104	65 - 140
Dichlorobromomethane	ND		20.0	20.4		ug/Kg		102	65 - 145
2-Hexanone	ND		20.0	19.4		ug/Kg		97	35 - 160
Dichlorodifluoromethane	ND		20.0	20.0		ug/Kg		100	30 - 160
Ethylbenzene	ND		20.0	20.1		ug/Kg		101	70 - 135
4-Isopropyltoluene	1.6		20.0	20.7		ug/Kg		96	60 - 140
Hexachlorobutadiene	ND		20.0	11.7		ug/Kg		59	50 - 145
Isopropylbenzene	ND		20.0	20.2		ug/Kg		101	70 - 145
Methylene Chloride	ND		20.0	18.4		ug/Kg		92	55 - 145
Methyl tert-butyl ether	ND		20.0	20.1		ug/Kg		101	55 - 155
Naphthalene	ND		20.0	18.0		ug/Kg		90	40 - 150
1,1,1,2-Tetrachloroethane	ND		20.0	20.0		ug/Kg		100	65 - 145
n-Butylbenzene	ND		20.0	18.3		ug/Kg		92	55 - 145
1,1,2,2-Tetrachloroethane	ND		20.0	21.5		ug/Kg		108	40 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231317-A-2 MS
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	ND		20.0	20.9		ug/Kg		105	65 - 140
sec-Butylbenzene	ND		20.0	19.9		ug/Kg		100	60 - 135
1,2,3-Trichlorobenzene	ND		20.0	16.6		ug/Kg		83	45 - 145
Styrene	ND		20.0	18.6		ug/Kg		93	70 - 140
1,2,4-Trichlorobenzene	ND		20.0	17.7		ug/Kg		88	50 - 140
tert-Butylbenzene	ND		20.0	19.5		ug/Kg		98	60 - 140
1,1,1-Trichloroethane	ND		20.0	21.0		ug/Kg		105	65 - 145
Tetrachloroethene	ND		20.0	19.6		ug/Kg		98	65 - 135
1,1,2-Trichloroethane	ND		20.0	20.6		ug/Kg		103	65 - 140
Toluene	3.2		20.0	23.4		ug/Kg		101	70 - 130
trans-1,2-Dichloroethene	ND		20.0	21.9		ug/Kg		110	70 - 135
1,2,3-Trichloropropane	ND		20.0	20.9		ug/Kg		105	50 - 150
trans-1,3-Dichloropropene	ND		20.0	19.6		ug/Kg		98	60 - 145
Trichloroethene	ND		20.0	21.2		ug/Kg		106	65 - 140
1,2,4-Trimethylbenzene	ND		20.0	19.9		ug/Kg		100	65 - 140
Trichlorofluoromethane	ND		20.0	22.3		ug/Kg		112	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	22.2		ug/Kg		111	60 - 140
1,3,5-Trimethylbenzene	ND		20.0	20.2		ug/Kg		101	65 - 135
Vinyl acetate	ND		20.0	18.7		ug/Kg		93	40 - 150
Vinyl chloride	ND		20.0	20.7		ug/Kg		104	55 - 140
m-Xylene & p-Xylene	ND		20.0	19.9		ug/Kg		100	70 - 130
Ethylene Dibromide	ND		20.0	19.8		ug/Kg		99	65 - 140
o-Xylene	ND		20.0	19.8		ug/Kg		99	65 - 130
2-Butanone (MEK)	ND		20.0	22.6		ug/Kg		113	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		20.0	20.1		ug/Kg		101	40 - 155
2,2-Dichloropropane	ND		20.0	21.4		ug/Kg		107	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: 440-231317-A-2 MSD
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		19.9	18.0		ug/Kg		91	60 - 135	11	25
1,2-Dichlorobenzene	ND		19.9	17.4		ug/Kg		88	70 - 130	10	25
1,3-Dichlorobenzene	ND		19.9	17.0		ug/Kg		86	70 - 130	12	25
4-Chlorotoluene	ND		19.9	18.1		ug/Kg		91	65 - 135	11	25
1,4-Dichlorobenzene	ND		19.9	17.5		ug/Kg		88	70 - 130	10	25
1,3-Dichloropropane	ND		19.9	18.6		ug/Kg		93	65 - 140	7	25
Benzene	ND		19.9	19.0		ug/Kg		96	65 - 130	12	20
1,1-Dichloropropene	ND		19.9	19.0		ug/Kg		96	65 - 135	13	20
Bromobenzene	ND		19.9	18.2		ug/Kg		92	65 - 140	11	25
1,2-Dibromo-3-Chloropropane	ND		19.9	18.0		ug/Kg		91	40 - 150	3	30
Bromoform	ND		19.9	18.1		ug/Kg		91	50 - 145	6	30
Bromomethane	ND		19.9	18.8		ug/Kg		94	60 - 155	12	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231317-A-2 MSD
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND		19.9	18.3		ug/Kg		92	40 - 140	14	20
Carbon tetrachloride	ND		19.9	18.7		ug/Kg		94	60 - 145	10	25
1,1-Dichloroethane	ND		19.9	18.9		ug/Kg		95	65 - 135	11	25
Chlorobenzene	ND		19.9	18.2		ug/Kg		91	70 - 130	9	25
1,2-Dichloroethane	ND		19.9	17.1		ug/Kg		86	60 - 150	10	25
Chlorobromomethane	ND		19.9	19.5		ug/Kg		98	65 - 145	9	25
1,1-Dichloroethene	ND		19.9	19.9		ug/Kg		100	65 - 135	12	25
Chloroethane	ND		19.9	18.1		ug/Kg		91	60 - 150	14	25
Chloroform	ND		19.9	18.4		ug/Kg		92	65 - 135	13	20
Chloromethane	ND		19.9	16.8		ug/Kg		85	40 - 145	11	25
1,2-Dichloropropane	ND		19.9	19.0		ug/Kg		96	65 - 130	10	20
cis-1,2-Dichloroethene	ND		19.9	18.9		ug/Kg		95	65 - 135	11	25
cis-1,3-Dichloropropene	ND		19.9	18.7		ug/Kg		94	70 - 135	11	25
Chlorodibromomethane	ND		19.9	18.4		ug/Kg		93	60 - 145	7	25
Dibromomethane	ND		19.9	18.7		ug/Kg		94	65 - 140	10	25
Dichlorobromomethane	ND		19.9	18.4		ug/Kg		93	65 - 145	10	20
2-Hexanone	ND		19.9	18.2		ug/Kg		92	35 - 160	6	40
Dichlorodifluoromethane	ND		19.9	17.6		ug/Kg		88	30 - 160	13	35
Ethylbenzene	ND		19.9	18.1		ug/Kg		91	70 - 135	10	25
4-Isopropyltoluene	1.6		19.9	19.3		ug/Kg		89	60 - 140	7	25
Hexachlorobutadiene	ND		19.9	12.2		ug/Kg		61	50 - 145	4	35
Isopropylbenzene	ND		19.9	18.1		ug/Kg		91	70 - 145	11	25
Methylene Chloride	ND		19.9	16.0		ug/Kg		81	55 - 145	14	25
Methyl tert-butyl ether	ND		19.9	18.9		ug/Kg		95	55 - 155	6	35
Naphthalene	ND		19.9	17.4		ug/Kg		88	40 - 150	4	40
1,1,1,2-Tetrachloroethane	ND		19.9	18.2		ug/Kg		91	65 - 145	10	20
n-Butylbenzene	ND		19.9	16.7		ug/Kg		84	55 - 145	9	30
1,1,2,2-Tetrachloroethane	ND		19.9	20.0		ug/Kg		100	40 - 160	7	30
N-Propylbenzene	ND		19.9	18.6		ug/Kg		93	65 - 140	12	25
sec-Butylbenzene	ND		19.9	17.7		ug/Kg		89	60 - 135	11	25
1,2,3-Trichlorobenzene	ND		19.9	15.8		ug/Kg		80	45 - 145	5	30
Styrene	ND		19.9	17.0		ug/Kg		85	70 - 140	9	25
1,2,4-Trichlorobenzene	ND		19.9	16.5		ug/Kg		83	50 - 140	7	30
tert-Butylbenzene	ND		19.9	17.6		ug/Kg		89	60 - 140	10	25
1,1,1-Trichloroethane	ND		19.9	18.5		ug/Kg		93	65 - 145	13	20
Tetrachloroethene	ND		19.9	18.1		ug/Kg		91	65 - 135	8	25
1,1,2-Trichloroethane	ND		19.9	18.3		ug/Kg		92	65 - 140	12	30
Toluene	3.2		19.9	21.0		ug/Kg		90	70 - 130	11	20
trans-1,2-Dichloroethene	ND		19.9	19.2		ug/Kg		97	70 - 135	13	25
1,2,3-Trichloropropane	ND		19.9	18.6		ug/Kg		93	50 - 150	12	30
trans-1,3-Dichloropropene	ND		19.9	17.9		ug/Kg		90	60 - 145	9	25
Trichloroethene	ND		19.9	18.6		ug/Kg		94	65 - 140	13	25
1,2,4-Trimethylbenzene	ND		19.9	17.8		ug/Kg		90	65 - 140	11	25
Trichlorofluoromethane	ND		19.9	19.6		ug/Kg		98	55 - 155	13	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		19.9	19.9		ug/Kg		100	60 - 140	11	40
1,3,5-Trimethylbenzene	ND		19.9	17.8		ug/Kg		89	65 - 135	13	25
Vinyl acetate	ND		19.9	17.5		ug/Kg		88	40 - 150	6	30
Vinyl chloride	ND		19.9	18.1		ug/Kg		91	55 - 140	14	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231317-A-2 MSD
Matrix: Solid
Analysis Batch: 526536

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	ND		19.9	17.3		ug/Kg		87	70 - 130	14	25
Ethylene Dibromide	ND		19.9	18.4		ug/Kg		92	65 - 140	7	25
o-Xylene	ND		19.9	18.1		ug/Kg		91	65 - 130	9	25
2-Butanone (MEK)	ND		19.9	21.5		ug/Kg		108	25 - 170	5	40
4-Methyl-2-pentanone (MIBK)	ND		19.9	19.3		ug/Kg		97	40 - 155	4	40
2,2-Dichloropropane	ND		19.9	18.4		ug/Kg		92	65 - 150	15	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-526986/5
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Benzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/06/19 08:47	1
Bromoform	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/06/19 08:47	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/06/19 08:47	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Chloroform	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
2-Hexanone	ND		10	5.0	ug/Kg			02/06/19 08:47	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-526986/5
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/06/19 08:47	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Styrene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/06/19 08:47	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Toluene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/06/19 08:47	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/06/19 08:47	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/06/19 08:47	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/06/19 08:47	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/06/19 08:47	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/06/19 08:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/06/19 08:47	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/06/19 08:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/06/19 08:47*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/06/19 08:47*	*1*

Lab Sample ID: LCS 440-526986/6
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	19.9		ug/Kg		99	70 - 125
1,2-Dichlorobenzene	20.0	19.5		ug/Kg		98	75 - 120
1,3-Dichlorobenzene	20.0	19.4		ug/Kg		97	75 - 125
4-Chlorotoluene	20.0	20.2		ug/Kg		101	75 - 125
1,4-Dichlorobenzene	20.0	19.5		ug/Kg		97	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526986/6
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	20.0	19.8		ug/Kg		99	70 - 125
Benzene	20.0	19.6		ug/Kg		98	65 - 120
1,1-Dichloropropene	20.0	19.7		ug/Kg		98	70 - 130
Bromobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.4		ug/Kg		92	50 - 135
Bromoform	20.0	19.7		ug/Kg		98	55 - 135
Bromomethane	20.0	19.5		ug/Kg		98	60 - 145
Carbon disulfide	20.0	18.7		ug/Kg		93	50 - 130
Carbon tetrachloride	20.0	18.9		ug/Kg		95	65 - 140
1,1-Dichloroethane	20.0	19.5		ug/Kg		98	70 - 130
Chlorobenzene	20.0	19.9		ug/Kg		99	75 - 120
1,2-Dichloroethane	20.0	17.8		ug/Kg		89	60 - 140
Chlorobromomethane	20.0	20.1		ug/Kg		101	70 - 135
1,1-Dichloroethene	20.0	19.7		ug/Kg		99	70 - 125
Chloroethane	20.0	18.9		ug/Kg		95	60 - 140
Chloroform	20.0	19.1		ug/Kg		96	70 - 130
Chloromethane	20.0	16.4		ug/Kg		82	45 - 145
1,2-Dichloropropane	20.0	20.5		ug/Kg		103	70 - 130
cis-1,2-Dichloroethene	20.0	19.2		ug/Kg		96	70 - 125
cis-1,3-Dichloropropene	20.0	20.0		ug/Kg		100	75 - 125
Chlorodibromomethane	20.0	20.0		ug/Kg		100	65 - 140
Dibromomethane	20.0	20.0		ug/Kg		100	70 - 130
Dichlorobromomethane	20.0	18.9		ug/Kg		94	70 - 135
2-Hexanone	20.0	17.8		ug/Kg		89	40 - 150
Dichlorodifluoromethane	20.0	16.5		ug/Kg		82	35 - 160
Ethylbenzene	20.0	19.4		ug/Kg		97	70 - 125
4-Isopropyltoluene	20.0	20.9		ug/Kg		104	75 - 125
Hexachlorobutadiene	20.0	19.4		ug/Kg		97	60 - 135
Isopropylbenzene	20.0	19.8		ug/Kg		99	75 - 130
Methylene Chloride	20.0	15.3		ug/Kg		77	55 - 135
Methyl tert-butyl ether	20.0	19.3		ug/Kg		97	60 - 140
Naphthalene	20.0	18.6		ug/Kg		93	55 - 135
1,1,1,2-Tetrachloroethane	20.0	19.5		ug/Kg		97	70 - 130
n-Butylbenzene	20.0	20.0		ug/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/Kg		108	55 - 140
N-Propylbenzene	20.0	21.1		ug/Kg		106	70 - 130
sec-Butylbenzene	20.0	20.8		ug/Kg		104	70 - 125
1,2,3-Trichlorobenzene	20.0	19.7		ug/Kg		98	60 - 130
Styrene	20.0	17.9		ug/Kg		90	75 - 130
1,2,4-Trichlorobenzene	20.0	20.1		ug/Kg		100	70 - 135
tert-Butylbenzene	20.0	19.7		ug/Kg		99	70 - 125
1,1,1-Trichloroethane	20.0	18.6		ug/Kg		93	65 - 135
Tetrachloroethene	20.0	18.9		ug/Kg		94	70 - 125
1,1,2-Trichloroethane	20.0	20.3		ug/Kg		101	65 - 135
Toluene	20.0	19.7		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	20.0	19.3		ug/Kg		97	70 - 125
1,2,3-Trichloropropane	20.0	20.4		ug/Kg		102	60 - 135
trans-1,3-Dichloropropene	20.0	19.4		ug/Kg		97	70 - 135
Trichloroethene	20.0	19.7		ug/Kg		99	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-526986/6
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	20.1		ug/Kg		100	70 - 125
Trichlorofluoromethane	20.0	19.3		ug/Kg		96	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.7		ug/Kg		98	60 - 140
1,3,5-Trimethylbenzene	20.0	20.4		ug/Kg		102	70 - 125
Vinyl acetate	20.0	20.1		ug/Kg		101	45 - 145
Vinyl chloride	20.0	17.1		ug/Kg		86	55 - 135
m-Xylene & p-Xylene	20.0	19.0		ug/Kg		95	70 - 125
Ethylene Dibromide	20.0	20.1		ug/Kg		100	70 - 130
o-Xylene	20.0	19.2		ug/Kg		96	70 - 125
2-Butanone (MEK)	20.0	19.8		ug/Kg		99	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/Kg		93	40 - 145
2,2-Dichloropropane	20.0	19.1		ug/Kg		96	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-526986/13
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	20.0	18.9		ug/Kg		94	70 - 125	5	20
1,2-Dichlorobenzene	20.0	17.9		ug/Kg		89	75 - 120	9	20
1,3-Dichlorobenzene	20.0	18.3		ug/Kg		91	75 - 125	6	20
4-Chlorotoluene	20.0	18.7		ug/Kg		94	75 - 125	7	20
1,4-Dichlorobenzene	20.0	18.4		ug/Kg		92	75 - 120	6	20
1,3-Dichloropropane	20.0	18.5		ug/Kg		92	70 - 125	7	20
Benzene	20.0	19.0		ug/Kg		95	65 - 120	3	20
1,1-Dichloropropene	20.0	19.4		ug/Kg		97	70 - 130	1	20
Bromobenzene	20.0	18.8		ug/Kg		94	75 - 120	10	20
1,2-Dibromo-3-Chloropropane	20.0	16.8		ug/Kg		84	50 - 135	9	30
Bromoform	20.0	18.2		ug/Kg		91	55 - 135	8	25
Bromomethane	20.0	18.7		ug/Kg		94	60 - 145	4	20
Carbon disulfide	20.0	18.6		ug/Kg		93	50 - 130	0	20
Carbon tetrachloride	20.0	18.9		ug/Kg		94	65 - 140	0	20
1,1-Dichloroethane	20.0	18.6		ug/Kg		93	70 - 130	5	20
Chlorobenzene	20.0	18.8		ug/Kg		94	75 - 120	6	20
1,2-Dichloroethane	20.0	16.6		ug/Kg		83	60 - 140	7	20
Chlorobromomethane	20.0	18.8		ug/Kg		94	70 - 135	7	20
1,1-Dichloroethene	20.0	19.9		ug/Kg		100	70 - 125	1	20
Chloroethane	20.0	18.0		ug/Kg		90	60 - 140	5	25
Chloroform	20.0	18.3		ug/Kg		92	70 - 130	4	20
Chloromethane	20.0	16.0		ug/Kg		80	45 - 145	2	25
1,2-Dichloropropane	20.0	18.8		ug/Kg		94	70 - 130	9	20
cis-1,2-Dichloroethene	20.0	18.5		ug/Kg		92	70 - 125	4	20
cis-1,3-Dichloropropene	20.0	19.5		ug/Kg		97	75 - 125	3	20
Chlorodibromomethane	20.0	18.2		ug/Kg		91	65 - 140	9	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-526986/13
Matrix: Solid
Analysis Batch: 526986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane			20.0	18.0		ug/Kg		90	70 - 130	11	20
Dichlorobromomethane			20.0	18.2		ug/Kg		91	70 - 135	4	20
2-Hexanone			20.0	17.6		ug/Kg		88	40 - 150	1	35
Dichlorodifluoromethane			20.0	16.5		ug/Kg		83	35 - 160	0	30
Ethylbenzene			20.0	18.9		ug/Kg		94	70 - 125	3	20
4-Isopropyltoluene			20.0	20.0		ug/Kg		100	75 - 125	4	20
Hexachlorobutadiene			20.0	18.1		ug/Kg		90	60 - 135	7	20
Isopropylbenzene			20.0	19.9		ug/Kg		99	75 - 130	0	20
Methylene Chloride			20.0	15.1		ug/Kg		76	55 - 135	1	20
Methyl tert-butyl ether			20.0	18.0		ug/Kg		90	60 - 140	7	25
Naphthalene			20.0	17.2		ug/Kg		86	55 - 135	8	25
1,1,1,2-Tetrachloroethane			20.0	18.8		ug/Kg		94	70 - 130	4	20
n-Butylbenzene			20.0	19.2		ug/Kg		96	70 - 130	4	20
1,1,2,2-Tetrachloroethane			20.0	19.4		ug/Kg		97	55 - 140	11	30
N-Propylbenzene			20.0	19.9		ug/Kg		99	70 - 130	6	20
sec-Butylbenzene			20.0	20.1		ug/Kg		100	70 - 125	4	20
1,2,3-Trichlorobenzene			20.0	17.9		ug/Kg		90	60 - 130	9	20
Styrene			20.0	17.3		ug/Kg		86	75 - 130	4	20
1,2,4-Trichlorobenzene			20.0	18.5		ug/Kg		93	70 - 135	8	20
tert-Butylbenzene			20.0	19.2		ug/Kg		96	70 - 125	2	20
1,1,1-Trichloroethane			20.0	18.4		ug/Kg		92	65 - 135	1	20
Tetrachloroethene			20.0	19.2		ug/Kg		96	70 - 125	2	20
1,1,2-Trichloroethane			20.0	18.6		ug/Kg		93	65 - 135	9	20
Toluene			20.0	19.2		ug/Kg		96	70 - 125	2	20
trans-1,2-Dichloroethene			20.0	19.3		ug/Kg		97	70 - 125	0	20
1,2,3-Trichloropropane			20.0	18.3		ug/Kg		91	60 - 135	11	25
trans-1,3-Dichloropropene			20.0	18.2		ug/Kg		91	70 - 135	6	20
Trichloroethene			20.0	19.2		ug/Kg		96	70 - 125	3	20
1,2,4-Trimethylbenzene			20.0	18.8		ug/Kg		94	70 - 125	7	20
Trichlorofluoromethane			20.0	19.6		ug/Kg		98	60 - 145	2	25
1,1,2-Trichloro-1,2,2-trifluoroetha ne			20.0	20.2		ug/Kg		101	60 - 140	2	40
1,3,5-Trimethylbenzene			20.0	19.2		ug/Kg		96	70 - 125	6	20
Vinyl acetate			20.0	18.1		ug/Kg		91	45 - 145	11	20
Vinyl chloride			20.0	17.2		ug/Kg		86	55 - 135	0	25
m-Xylene & p-Xylene			20.0	18.9		ug/Kg		94	70 - 125	1	20
Ethylene Dibromide			20.0	18.8		ug/Kg		94	70 - 130	6	20
o-Xylene			20.0	18.8		ug/Kg		94	70 - 125	2	20
2-Butanone (MEK)			20.0	18.5		ug/Kg		92	40 - 145	7	35
4-Methyl-2-pentanone (MIBK)			20.0	18.3		ug/Kg		91	40 - 145	2	35
2,2-Dichloropropane			20.0	18.9		ug/Kg		95	60 - 145	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*99*		*79 - 123*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527268/5
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,2-Dichlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
4-Chlorotoluene	ND		250	50	ug/Kg			02/07/19 08:54	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,3-Dichloropropane	ND		100	50	ug/Kg			02/07/19 08:54	100
Benzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,1-Dichloropropene	ND		100	50	ug/Kg			02/07/19 08:54	100
Bromobenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			02/07/19 08:54	100
Bromoform	ND		250	100	ug/Kg			02/07/19 08:54	100
Bromomethane	ND		250	100	ug/Kg			02/07/19 08:54	100
Carbon disulfide	ND		250	130	ug/Kg			02/07/19 08:54	100
Carbon tetrachloride	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1-Dichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Chlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2-Dichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Chlorobromomethane	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1-Dichloroethene	ND		250	100	ug/Kg			02/07/19 08:54	100
Chloroethane	ND		250	100	ug/Kg			02/07/19 08:54	100
Chloroform	ND		100	50	ug/Kg			02/07/19 08:54	100
Chloromethane	ND		250	100	ug/Kg			02/07/19 08:54	100
1,2-Dichloropropane	ND		100	50	ug/Kg			02/07/19 08:54	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			02/07/19 08:54	100
Chlorodibromomethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Dibromomethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Dichlorobromomethane	ND		100	50	ug/Kg			02/07/19 08:54	100
2-Hexanone	ND		1300	500	ug/Kg			02/07/19 08:54	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			02/07/19 08:54	100
Ethylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
4-Isopropyltoluene	ND		100	50	ug/Kg			02/07/19 08:54	100
Hexachlorobutadiene	ND		250	100	ug/Kg			02/07/19 08:54	100
Isopropylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
Methylene Chloride	ND		1000	500	ug/Kg			02/07/19 08:54	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			02/07/19 08:54	100
Naphthalene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			02/07/19 08:54	100
n-Butylbenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
N-Propylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
sec-Butylbenzene	ND		250	50	ug/Kg			02/07/19 08:54	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
Styrene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
tert-Butylbenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Tetrachloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527268/5
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Toluene	ND		100	50	ug/Kg			02/07/19 08:54	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2,3-Trichloropropane	ND		500	100	ug/Kg			02/07/19 08:54	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			02/07/19 08:54	100
Trichloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
Trichlorofluoromethane	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			02/07/19 08:54	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
Vinyl acetate	ND		500	250	ug/Kg			02/07/19 08:54	100
Vinyl chloride	ND		250	100	ug/Kg			02/07/19 08:54	100
Ethylene Dibromide	ND		100	50	ug/Kg			02/07/19 08:54	100
2-Butanone (MEK)	ND		1000	500	ug/Kg			02/07/19 08:54	100
Xylenes, Total	ND		200	100	ug/Kg			02/07/19 08:54	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			02/07/19 08:54	100
2,2-Dichloropropane	ND		200	100	ug/Kg			02/07/19 08:54	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*02/07/19 08:54*	*100*
Toluene-d8 (Surr)	*97*		*60 - 140*		*02/07/19 08:54*	*100*

Lab Sample ID: LCS 440-527268/6
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	1000	980		ug/Kg		98	70 - 125
1,2-Dichlorobenzene	1000	1010		ug/Kg		101	70 - 120
1,3-Dichlorobenzene	1000	1030		ug/Kg		103	70 - 125
4-Chlorotoluene	1000	982		ug/Kg		98	70 - 125
1,4-Dichlorobenzene	1000	1010		ug/Kg		101	70 - 125
1,3-Dichloropropane	1000	1000		ug/Kg		100	65 - 130
Benzene	1000	1010		ug/Kg		101	65 - 120
1,1-Dichloropropene	1000	1030		ug/Kg		103	70 - 130
Bromobenzene	1000	992		ug/Kg		99	70 - 120
1,2-Dibromo-3-Chloropropane	1000	822		ug/Kg		82	45 - 135
Bromoform	1000	792		ug/Kg		79	50 - 130
Bromomethane	1000	883		ug/Kg		88	30 - 140
Carbon disulfide	1000	885		ug/Kg		88	50 - 130
Carbon tetrachloride	1000	960		ug/Kg		96	65 - 145
1,1-Dichloroethane	1000	1010		ug/Kg		101	65 - 130
Chlorobenzene	1000	1000		ug/Kg		100	70 - 125
1,2-Dichloroethane	1000	1000		ug/Kg		100	60 - 145
Chlorobromomethane	1000	1050		ug/Kg		105	65 - 125
1,1-Dichloroethene	1000	987		ug/Kg		99	75 - 140
Chloroethane	1000	885		ug/Kg		88	40 - 140
Chloroform	1000	1050		ug/Kg		105	75 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527268/6
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	1000	707		ug/Kg		71	30 - 140
1,2-Dichloropropane	1000	1040		ug/Kg		104	75 - 125
cis-1,2-Dichloroethene	1000	1030		ug/Kg		103	65 - 130
cis-1,3-Dichloropropene	1000	923		ug/Kg		92	70 - 130
Chlorodibromomethane	1000	888		ug/Kg		89	65 - 140
Dibromomethane	1000	1020		ug/Kg		102	65 - 130
Dichlorobromomethane	1000	947		ug/Kg		95	65 - 135
2-Hexanone	1000	755	J	ug/Kg		75	35 - 140
Dichlorodifluoromethane	1000	464		ug/Kg		46	10 - 155
Ethylbenzene	1000	967		ug/Kg		97	80 - 120
4-Isopropyltoluene	1000	1050		ug/Kg		105	70 - 125
Hexachlorobutadiene	1000	1030		ug/Kg		103	60 - 135
Isopropylbenzene	1000	995		ug/Kg		100	70 - 125
Methylene Chloride	1000	863	J	ug/Kg		86	60 - 140
Methyl tert-butyl ether	1000	937		ug/Kg		94	55 - 145
Naphthalene	1000	912		ug/Kg		91	50 - 140
1,1,1,2-Tetrachloroethane	1000	927		ug/Kg		93	70 - 140
n-Butylbenzene	1000	1040		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	1000	957		ug/Kg		96	55 - 135
N-Propylbenzene	1000	979		ug/Kg		98	70 - 130
sec-Butylbenzene	1000	1010		ug/Kg		101	70 - 125
1,2,3-Trichlorobenzene	1000	976		ug/Kg		98	60 - 135
Styrene	1000	902		ug/Kg		90	70 - 135
1,2,4-Trichlorobenzene	1000	1020		ug/Kg		102	65 - 135
tert-Butylbenzene	1000	1010		ug/Kg		101	70 - 125
1,1,1-Trichloroethane	1000	1040		ug/Kg		104	65 - 140
Tetrachloroethene	1000	1010		ug/Kg		101	65 - 125
1,1,2-Trichloroethane	1000	992		ug/Kg		99	65 - 130
Toluene	1000	960		ug/Kg		96	80 - 120
trans-1,2-Dichloroethene	1000	1040		ug/Kg		104	65 - 130
1,2,3-Trichloropropane	1000	1050		ug/Kg		105	55 - 130
trans-1,3-Dichloropropene	1000	902		ug/Kg		90	65 - 135
Trichloroethene	1000	1080		ug/Kg		108	70 - 130
1,2,4-Trimethylbenzene	1000	990		ug/Kg		99	70 - 125
Trichlorofluoromethane	1000	1070		ug/Kg		107	50 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	1030		ug/Kg		103	60 - 140
1,3,5-Trimethylbenzene	1000	990		ug/Kg		99	70 - 125
Vinyl acetate	1000	864		ug/Kg		86	25 - 145
Vinyl chloride	1000	774		ug/Kg		77	10 - 120
m-Xylene & p-Xylene	1000	988		ug/Kg		99	70 - 125
Ethylene Dibromide	1000	1000		ug/Kg		100	70 - 130
o-Xylene	1000	1010		ug/Kg		101	70 - 125
2-Butanone (MEK)	1000	631	J	ug/Kg		63	40 - 145
4-Methyl-2-pentanone (MIBK)	1000	681		ug/Kg		68	40 - 145
2,2-Dichloropropane	1000	1030		ug/Kg		103	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527268/6
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*97*		*60 - 140*

Lab Sample ID: LCSD 440-527268/7
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene			1000	1010		ug/Kg		101	70 - 125	3	20
1,2-Dichlorobenzene			1000	1030		ug/Kg		103	70 - 120	2	20
1,3-Dichlorobenzene			1000	1050		ug/Kg		105	70 - 125	3	20
4-Chlorotoluene			1000	986		ug/Kg		99	70 - 125	0	20
1,4-Dichlorobenzene			1000	1030		ug/Kg		103	70 - 125	3	20
1,3-Dichloropropane			1000	1010		ug/Kg		101	65 - 130	1	20
Benzene			1000	1010		ug/Kg		101	65 - 120	0	20
1,1-Dichloropropene			1000	1050		ug/Kg		105	70 - 130	2	20
Bromobenzene			1000	1010		ug/Kg		101	70 - 120	1	20
1,2-Dibromo-3-Chloropropane			1000	807		ug/Kg		81	45 - 135	2	25
Bromoform			1000	855		ug/Kg		85	50 - 130	8	25
Bromomethane			1000	907		ug/Kg		91	30 - 140	3	30
Carbon disulfide			1000	878		ug/Kg		88	50 - 130	1	20
Carbon tetrachloride			1000	981		ug/Kg		98	65 - 145	2	20
1,1-Dichloroethane			1000	1020		ug/Kg		102	65 - 130	1	20
Chlorobenzene			1000	1050		ug/Kg		105	70 - 125	4	20
1,2-Dichloroethane			1000	981		ug/Kg		98	60 - 145	2	20
Chlorobromomethane			1000	1040		ug/Kg		104	65 - 125	1	20
1,1-Dichloroethene			1000	995		ug/Kg		99	75 - 140	1	20
Chloroethane			1000	867		ug/Kg		87	40 - 140	2	25
Chloroform			1000	1060		ug/Kg		106	75 - 130	1	20
Chloromethane			1000	713		ug/Kg		71	30 - 140	1	25
1,2-Dichloropropane			1000	1040		ug/Kg		104	75 - 125	1	20
cis-1,2-Dichloroethene			1000	1040		ug/Kg		104	65 - 130	1	20
cis-1,3-Dichloropropene			1000	969		ug/Kg		97	70 - 130	5	20
Chlorodibromomethane			1000	926		ug/Kg		93	65 - 140	4	20
Dibromomethane			1000	1050		ug/Kg		105	65 - 130	3	20
Dichlorobromomethane			1000	946		ug/Kg		95	65 - 135	0	20
2-Hexanone			1000	715	J	ug/Kg		72	35 - 140	5	30
Dichlorodifluoromethane			1000	463		ug/Kg		46	10 - 155	0	30
Ethylbenzene			1000	998		ug/Kg		100	80 - 120	3	20
4-Isopropyltoluene			1000	1080		ug/Kg		108	70 - 125	2	20
Hexachlorobutadiene			1000	1070		ug/Kg		107	60 - 135	4	20
Isopropylbenzene			1000	1030		ug/Kg		103	70 - 125	4	20
Methylene Chloride			1000	865	J	ug/Kg		87	60 - 140	0	20
Methyl tert-butyl ether			1000	906		ug/Kg		91	55 - 145	3	25
Naphthalene			1000	911		ug/Kg		91	50 - 140	0	25
1,1,1,2-Tetrachloroethane			1000	972		ug/Kg		97	70 - 140	5	20
n-Butylbenzene			1000	1070		ug/Kg		107	70 - 130	3	20
1,1,2,2-Tetrachloroethane			1000	922		ug/Kg		92	55 - 135	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527268/7
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene			1000	1010		ug/Kg		101	70 - 130	3	20
sec-Butylbenzene			1000	1040		ug/Kg		104	70 - 125	3	20
1,2,3-Trichlorobenzene			1000	981		ug/Kg		98	60 - 135	0	20
Styrene			1000	938		ug/Kg		94	70 - 135	4	20
1,2,4-Trichlorobenzene			1000	1020		ug/Kg		102	65 - 135	0	20
tert-Butylbenzene			1000	1070		ug/Kg		107	70 - 125	6	20
1,1,1-Trichloroethane			1000	1030		ug/Kg		103	65 - 140	1	20
Tetrachloroethene			1000	1060		ug/Kg		106	65 - 125	5	20
1,1,2-Trichloroethane			1000	1020		ug/Kg		102	65 - 130	3	20
Toluene			1000	985		ug/Kg		98	80 - 120	3	20
trans-1,2-Dichloroethene			1000	1050		ug/Kg		105	65 - 130	1	20
1,2,3-Trichloropropane			1000	1020		ug/Kg		102	55 - 130	3	25
trans-1,3-Dichloropropene			1000	920		ug/Kg		92	65 - 135	2	20
Trichloroethene			1000	1080		ug/Kg		108	70 - 130	1	20
1,2,4-Trimethylbenzene			1000	1010		ug/Kg		101	70 - 125	2	20
Trichlorofluoromethane			1000	1060		ug/Kg		106	50 - 145	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane			1000	1120		ug/Kg		112	60 - 140	8	40
1,3,5-Trimethylbenzene			1000	1020		ug/Kg		102	70 - 125	3	20
Vinyl acetate			1000	848		ug/Kg		85	25 - 145	2	25
Vinyl chloride			1000	764		ug/Kg		76	10 - 120	1	30
m-Xylene & p-Xylene			1000	1030		ug/Kg		103	70 - 125	4	20
Ethylene Dibromide			1000	970		ug/Kg		97	70 - 130	3	20
o-Xylene			1000	1050		ug/Kg		105	70 - 125	4	20
2-Butanone (MEK)			1000	692	J	ug/Kg		69	40 - 145	9	30
4-Methyl-2-pentanone (MIBK)			1000	661		ug/Kg		66	40 - 145	3	30
2,2-Dichloropropane			1000	1030		ug/Kg		103	60 - 145	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 440-527862/4
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			02/11/19 08:41	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Benzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Bromobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/11/19 08:41	1
Bromoform	ND		1.0	0.40	ug/L			02/11/19 08:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527862/4
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/11/19 08:41	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chloroethane	ND		1.0	0.40	ug/L			02/11/19 08:41	1
Chloroform	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chloromethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Dibromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
2-Hexanone	ND		5.0	2.5	ug/L			02/11/19 08:41	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/11/19 08:41	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/11/19 08:41	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Naphthalene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
Styrene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/11/19 08:41	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Toluene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/11/19 08:41	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Trichloroethene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/11/19 08:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/11/19 08:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/11/19 08:41	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/11/19 08:41	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/11/19 08:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527862/4
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/11/19 08:41	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/11/19 08:41	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/11/19 08:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/11/19 08:41	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/11/19 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*02/11/19 08:41*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/11/19 08:41*	*1*

Lab Sample ID: LCS 440-527862/5
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	27.9		ug/L		112	10 - 150
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
1,2-Dichlorobenzene	25.0	26.4		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	27.3		ug/L		109	70 - 130
4-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	26.9		ug/L		107	70 - 130
Benzene	25.0	26.9		ug/L		108	68 - 130
1,1-Dichloropropene	25.0	26.6		ug/L		107	70 - 130
Bromobenzene	25.0	26.1		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.8		ug/L		107	52 - 140
Bromoform	25.0	26.5		ug/L		106	60 - 148
Bromomethane	25.0	25.1		ug/L		100	64 - 139
Carbon disulfide	25.0	24.8		ug/L		99	52 - 136
Carbon tetrachloride	25.0	26.9		ug/L		108	60 - 150
1,1-Dichloroethane	25.0	26.7		ug/L		107	64 - 130
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dichloroethane	25.0	29.0		ug/L		116	57 - 138
Chlorobromomethane	25.0	27.9		ug/L		112	70 - 130
1,1-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
Chloroethane	25.0	24.4		ug/L		98	64 - 135
Chloroform	25.0	24.7		ug/L		99	70 - 130
Chloromethane	25.0	21.9		ug/L		88	47 - 140
1,2-Dichloropropane	25.0	28.0		ug/L		112	67 - 130
cis-1,2-Dichloroethene	25.0	28.4		ug/L		114	70 - 133
cis-1,3-Dichloropropene	25.0	29.5		ug/L		118	70 - 133
Chlorodibromomethane	25.0	27.4		ug/L		110	69 - 145
Dibromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorobromomethane	25.0	29.2		ug/L		117	70 - 132
2-Hexanone	25.0	24.7		ug/L		99	10 - 150
Dichlorodifluoromethane	25.0	21.3		ug/L		85	29 - 150
Ethylbenzene	25.0	25.3		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	26.7		ug/L		107	70 - 132

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527862/5
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	25.0	28.2		ug/L		113	10 - 150
Isopropylbenzene	25.0	26.2		ug/L		105	70 - 136
Methylene Chloride	25.0	24.0		ug/L		96	52 - 130
Methyl tert-butyl ether	25.0	28.3		ug/L		113	63 - 131
Naphthalene	25.0	26.3		ug/L		105	60 - 140
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	60 - 141
n-Butylbenzene	25.0	28.3		ug/L		113	65 - 150
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	63 - 130
N-Propylbenzene	25.0	26.1		ug/L		104	67 - 139
sec-Butylbenzene	25.0	26.1		ug/L		104	70 - 138
1,2,3-Trichlorobenzene	25.0	28.6		ug/L		114	60 - 140
Styrene	25.0	26.0		ug/L		104	70 - 134
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	60 - 140
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	28.1		ug/L		112	70 - 130
Tetrachloroethene	25.0	25.7		ug/L		103	70 - 130
1,1,2-Trichloroethane	25.0	27.8		ug/L		111	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	28.1		ug/L		112	70 - 130
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	63 - 130
trans-1,3-Dichloropropene	25.0	29.1		ug/L		116	70 - 132
Trichloroethene	25.0	27.2		ug/L		109	70 - 130
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 135
Trichlorofluoromethane	25.0	25.6		ug/L		102	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.4		ug/L		102	60 - 140
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		105	70 - 136
Vinyl acetate	25.0	28.9		ug/L		116	48 - 140
Vinyl chloride	25.0	22.7		ug/L		91	59 - 133
m-Xylene & p-Xylene	25.0	27.6		ug/L		110	70 - 130
Ethylene Dibromide	25.0	26.7		ug/L		107	70 - 130
o-Xylene	25.0	26.8		ug/L		107	70 - 130
2-Butanone (MEK)	25.0	24.4		ug/L		98	44 - 150
4-Methyl-2-pentanone (MIBK)	25.0	24.4		ug/L		97	59 - 149
2,2-Dichloropropane	25.0	29.2		ug/L		117	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MS
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	23.9		ug/L		95	10 - 150
2-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 130
1,2-Dichlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.4		ug/L		105	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231822-F-22 MS
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	ND		25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	ND		25.0	25.4		ug/L		101	70 - 130
Benzene	ND		25.0	26.7		ug/L		107	66 - 130
1,1-Dichloropropene	ND		25.0	27.8		ug/L		111	64 - 130
Bromobenzene	ND		25.0	24.9		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	23.6		ug/L		94	48 - 140
Bromoform	ND		25.0	24.5		ug/L		98	59 - 150
Bromomethane	ND		25.0	24.2		ug/L		97	62 - 131
Carbon disulfide	ND		25.0	24.4		ug/L		98	49 - 140
Carbon tetrachloride	ND		25.0	26.4		ug/L		106	60 - 150
1,1-Dichloroethane	ND		25.0	26.5		ug/L		106	65 - 130
Chlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130
1,2-Dichloroethane	ND		25.0	27.6		ug/L		110	56 - 146
Chlorobromomethane	ND		25.0	27.1		ug/L		109	70 - 130
1,1-Dichloroethene	ND		25.0	24.8		ug/L		99	70 - 130
Chloroethane	ND		25.0	24.5		ug/L		98	68 - 130
Chloroform	ND		25.0	23.2		ug/L		93	70 - 130
Chloromethane	ND		25.0	21.8		ug/L		87	39 - 144
1,2-Dichloropropane	ND		25.0	26.9		ug/L		107	69 - 130
cis-1,2-Dichloroethene	ND		25.0	27.6		ug/L		111	70 - 130
cis-1,3-Dichloropropene	ND		25.0	28.2		ug/L		113	70 - 133
Chlorodibromomethane	ND		25.0	26.4		ug/L		106	70 - 148
Dibromomethane	ND		25.0	23.9		ug/L		96	70 - 130
Dichlorobromomethane	ND		25.0	27.5		ug/L		110	70 - 138
2-Hexanone	ND		25.0	20.8		ug/L		83	10 - 150
Dichlorodifluoromethane	ND		25.0	20.5		ug/L		82	25 - 142
Ethylbenzene	ND		25.0	25.5		ug/L		102	70 - 130
4-Isopropyltoluene	ND		25.0	25.9		ug/L		103	70 - 130
Hexachlorobutadiene	ND		25.0	26.3		ug/L		105	10 - 150
Isopropylbenzene	0.38	J	25.0	26.3		ug/L		104	70 - 132
Methylene Chloride	ND		25.0	22.8		ug/L		91	52 - 130
Methyl tert-butyl ether	ND		25.0	26.4		ug/L		106	70 - 130
Naphthalene	ND		25.0	24.1		ug/L		96	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	25.8		ug/L		103	60 - 149
n-Butylbenzene	ND		25.0	27.8		ug/L		111	61 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.1		ug/L		92	63 - 130
N-Propylbenzene	0.32	J	25.0	26.1		ug/L		103	66 - 135
sec-Butylbenzene	ND		25.0	25.6		ug/L		103	67 - 134
1,2,3-Trichlorobenzene	ND		25.0	26.9		ug/L		108	60 - 140
Styrene	ND		25.0	24.9		ug/L		100	29 - 150
1,2,4-Trichlorobenzene	ND		25.0	25.7		ug/L		103	60 - 140
tert-Butylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
1,1,1-Trichloroethane	ND		25.0	28.1		ug/L		113	70 - 130
Tetrachloroethene	ND		25.0	26.7		ug/L		107	70 - 137
1,1,2-Trichloroethane	ND		25.0	27.5		ug/L		110	70 - 130
Toluene	0.60		25.0	25.8		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.9		ug/L		112	70 - 130
1,2,3-Trichloropropane	ND		25.0	22.0		ug/L		88	60 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231822-F-22 MS
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	70 - 138
Trichloroethene	ND		25.0	26.7		ug/L		107	70 - 130
1,2,4-Trimethylbenzene	ND		25.0	25.6		ug/L		103	70 - 130
Trichlorofluoromethane	ND		25.0	25.7		ug/L		103	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.7		ug/L		103	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	25.3		ug/L		101	70 - 130
Vinyl acetate	ND		25.0	26.4		ug/L		106	23 - 150
Vinyl chloride	ND		25.0	22.4		ug/L		90	50 - 137
m-Xylene & p-Xylene	0.57	J	25.0	27.8		ug/L		109	70 - 133
Ethylene Dibromide	ND		25.0	25.2		ug/L		101	70 - 131
o-Xylene	0.29	J	25.0	25.9		ug/L		102	70 - 133
2-Butanone (MEK)	ND		25.0	19.3		ug/L		77	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.9		ug/L		87	52 - 150
2,2-Dichloropropane	ND		25.0	28.7		ug/L		115	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	24.5		ug/L		98	10 - 150	3	35
2-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 130	0	20
1,2-Dichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	1	20
4-Chlorotoluene	ND		25.0	25.9		ug/L		104	70 - 130	4	20
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	25.7		ug/L		103	70 - 130	1	25
Benzene	ND		25.0	27.2		ug/L		109	66 - 130	2	20
1,1-Dichloropropene	ND		25.0	27.3		ug/L		109	64 - 130	2	20
Bromobenzene	ND		25.0	26.1		ug/L		104	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.3		ug/L		97	48 - 140	3	30
Bromoform	ND		25.0	25.9		ug/L		103	59 - 150	5	25
Bromomethane	ND		25.0	24.7		ug/L		99	62 - 131	2	25
Carbon disulfide	ND		25.0	24.1		ug/L		96	49 - 140	1	20
Carbon tetrachloride	ND		25.0	26.2		ug/L		105	60 - 150	1	25
1,1-Dichloroethane	ND		25.0	27.0		ug/L		108	65 - 130	2	20
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	4	20
1,2-Dichloroethane	ND		25.0	28.4		ug/L		114	56 - 146	3	20
Chlorobromomethane	ND		25.0	27.4		ug/L		109	70 - 130	1	25
1,1-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130	2	20
Chloroethane	ND		25.0	24.3		ug/L		97	68 - 130	1	25
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130	4	20
Chloromethane	ND		25.0	20.9		ug/L		83	39 - 144	4	25
1,2-Dichloropropane	ND		25.0	27.5		ug/L		110	69 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231822-F-22 MSD
Matrix: Water
Analysis Batch: 527862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		25.0	27.4		ug/L		109	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	29.4		ug/L		118	70 - 133	4	20
Chlorodibromomethane	ND		25.0	27.2		ug/L		109	70 - 148	3	25
Dibromomethane	ND		25.0	24.9		ug/L		99	70 - 130	4	25
Dichlorobromomethane	ND		25.0	28.0		ug/L		112	70 - 138	1	20
2-Hexanone	ND		25.0	22.0		ug/L		88	10 - 150	6	35
Dichlorodifluoromethane	ND		25.0	19.9		ug/L		80	25 - 142	3	30
Ethylbenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
4-Isopropyltoluene	ND		25.0	27.4		ug/L		109	70 - 130	6	20
Hexachlorobutadiene	ND		25.0	28.0		ug/L		112	10 - 150	6	20
Isopropylbenzene	0.38	J	25.0	27.2		ug/L		107	70 - 132	3	20
Methylene Chloride	ND		25.0	23.2		ug/L		93	52 - 130	2	20
Methyl tert-butyl ether	ND		25.0	28.8		ug/L		115	70 - 130	9	25
Naphthalene	ND		25.0	26.0		ug/L		104	60 - 140	8	30
1,1,1,2-Tetrachloroethane	ND		25.0	26.9		ug/L		108	60 - 149	4	20
n-Butylbenzene	ND		25.0	28.7		ug/L		115	61 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	63 - 130	4	30
N-Propylbenzene	0.32	J	25.0	27.1		ug/L		107	66 - 135	4	20
sec-Butylbenzene	ND		25.0	25.9		ug/L		104	67 - 134	1	20
1,2,3-Trichlorobenzene	ND		25.0	28.7		ug/L		115	60 - 140	7	20
Styrene	ND		25.0	26.4		ug/L		106	29 - 150	6	35
1,2,4-Trichlorobenzene	ND		25.0	27.2		ug/L		109	60 - 140	5	20
tert-Butylbenzene	ND		25.0	26.5		ug/L		106	70 - 130	4	20
1,1,1-Trichloroethane	ND		25.0	27.8		ug/L		111	70 - 130	1	20
Tetrachloroethene	ND		25.0	27.3		ug/L		109	70 - 137	2	20
1,1,2-Trichloroethane	ND		25.0	29.2		ug/L		117	70 - 130	6	25
Toluene	0.60		25.0	26.7		ug/L		105	70 - 130	4	20
trans-1,2-Dichloroethene	ND		25.0	27.1		ug/L		108	70 - 130	3	20
1,2,3-Trichloropropane	ND		25.0	22.1		ug/L		88	60 - 130	0	30
trans-1,3-Dichloropropene	ND		25.0	28.8		ug/L		115	70 - 138	6	25
Trichloroethene	ND		25.0	27.2		ug/L		109	70 - 130	2	20
1,2,4-Trimethylbenzene	ND		25.0	27.0		ug/L		108	70 - 130	5	25
Trichlorofluoromethane	ND		25.0	25.5		ug/L		102	60 - 150	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.9		ug/L		100	60 - 140	3	20
1,3,5-Trimethylbenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
Vinyl acetate	ND		25.0	26.8		ug/L		107	23 - 150	1	30
Vinyl chloride	ND		25.0	22.9		ug/L		92	50 - 137	2	30
m-Xylene & p-Xylene	0.57	J	25.0	28.3		ug/L		111	70 - 133	2	25
Ethylene Dibromide	ND		25.0	26.3		ug/L		105	70 - 131	4	25
o-Xylene	0.29	J	25.0	27.6		ug/L		109	70 - 133	6	20
2-Butanone (MEK)	ND		25.0	19.5		ug/L		78	48 - 140	1	40
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.0		ug/L		92	52 - 150	5	35
2,2-Dichloropropane	ND		25.0	28.7		ug/L		115	69 - 138	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-526537/5
Matrix: Solid
Analysis Batch: 526537

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/04/19 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*02/04/19 09:07*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*02/04/19 09:07*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/04/19 09:07*	*1*

Lab Sample ID: LCS 440-526537/7
Matrix: Solid
Analysis Batch: 526537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	804		ug/Kg		80	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 440-231317-A-2 MS
Matrix: Solid
Analysis Batch: 526537

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	1.95		1380	1470		ug/Kg		106	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: 440-231317-A-2 MSD
Matrix: Solid
Analysis Batch: 526537

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	1.95		1370	1240		ug/Kg		91	55 - 140	16	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-526987/5
Matrix: Solid
Analysis Batch: 526987

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/06/19 08:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*02/06/19 08:47*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*02/06/19 08:47*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*		*02/06/19 08:47*	*1*

Lab Sample ID: LCS 440-526987/7
Matrix: Solid
Analysis Batch: 526987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	820		ug/Kg		82	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: LCSD 440-526987/14
Matrix: Solid
Analysis Batch: 526987

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	874		ug/Kg		87	60 - 135	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-527269/5
Matrix: Solid
Analysis Batch: 527269

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			02/07/19 08:54	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*		*02/07/19 08:54*	*100*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*		*02/07/19 08:54*	*100*
Toluene-d8 (Surr)	*97*		*60 - 140*		*02/07/19 08:54*	*100*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-527269/8
Matrix: Solid
Analysis Batch: 527269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			50000	47300		ug/Kg		95	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*55 - 140*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

Lab Sample ID: LCSD 440-527269/9
Matrix: Solid
Analysis Batch: 527269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			50000	49700		ug/Kg		99	60 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*55 - 140*
4-Bromofluorobenzene (Surr)	*95*		*65 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 440-527863/4
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/11/19 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/11/19 08:41*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*02/11/19 08:41*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*02/11/19 08:41*	*1*

Lab Sample ID: LCS 440-527863/6
Matrix: Water
Analysis Batch: 527863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	457		ug/L		91	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-231822-F-22 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 527863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	100		1730	1820		ug/L		100	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-231822-F-22 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 527863

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	100		1730	1830		ug/L		100	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-259667/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260119 — **Prep Batch: 259667**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Acenaphthene	ND		5.0	2.8	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Anthracene	ND		5.0	2.0	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Benzo[k]fluoranthene	2.11	J	5.0	2.1	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Chrysene	ND		5.0	1.4	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Fluoranthene	ND		5.0	1.4	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Fluorene	ND		5.0	2.2	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Naphthalene	ND		5.0	3.5	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Phenanthrene	ND		5.0	1.8	ug/Kg		02/01/19 14:01	02/11/19 15:00	1
Pyrene	ND		5.0	1.7	ug/Kg		02/01/19 14:01	02/11/19 15:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*33 - 120*	*02/01/19 14:01*	*02/11/19 15:00*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-259667/1-A
Matrix: Solid
Analysis Batch: 260119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259667

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	120		35 - 146	02/01/19 14:01	02/11/19 15:00	1

Lab Sample ID: LCS 720-259667/2-A
Matrix: Solid
Analysis Batch: 260053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	590		ug/Kg		89	38 - 110
Acenaphthene	667	564		ug/Kg		85	37 - 106
Acenaphthylene	667	613		ug/Kg		92	38 - 102
Anthracene	667	594		ug/Kg		89	43 - 103
Benzo[a]anthracene	667	730		ug/Kg		110	49 - 117
Benzo[a]pyrene	667	701		ug/Kg		105	49 - 118
Benzo[b]fluoranthene	667	704		ug/Kg		106	50 - 115
Benzo[g,h,i]perylene	667	639		ug/Kg		96	39 - 122
Benzo[k]fluoranthene	667	677		ug/Kg		102	45 - 115
Chrysene	667	798		ug/Kg		120	39 - 123
Dibenz(a,h)anthracene	667	606		ug/Kg		91	43 - 121
Fluoranthene	667	671		ug/Kg		101	47 - 109
Fluorene	667	602		ug/Kg		90	40 - 106
Indeno[1,2,3-cd]pyrene	667	629		ug/Kg		94	43 - 120
Naphthalene	667	565		ug/Kg		85	35 - 110
Phenanthrene	667	534		ug/Kg		80	42 - 110
Pyrene	667	759		ug/Kg		114	45 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	90		33 - 120
Terphenyl-d14	121		35 - 146

Lab Sample ID: 720-91069-E-8-E MS
Matrix: Solid
Analysis Batch: 260119

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND	F1	653	715		ug/Kg		110	46 - 110
Acenaphthene	130	J	653	657		ug/Kg		81	46 - 106
Acenaphthylene	ND		653	619		ug/Kg		95	46 - 108
Anthracene	140	J	653	650		ug/Kg		78	55 - 103
Benzo[a]anthracene	ND	F1	653	907	F1	ug/Kg		139	54 - 110
Benzo[a]pyrene	110	J * F1	653	1010	F1 *	ug/Kg		138	62 - 111
Benzo[b]fluoranthene	100	J * F1	653	1100	F1 *	ug/Kg		153	60 - 109
Benzo[g,h,i]perylene	ND	*	653	372	*	ug/Kg		57	52 - 114
Benzo[k]fluoranthene	85	J * F1 B	653	966	F1 *	ug/Kg		135	58 - 109
Chrysene	ND	F1	653	733	F1	ug/Kg		112	54 - 108
Dibenz(a,h)anthracene	ND	*	653	474	*	ug/Kg		73	58 - 112
Fluoranthene	57	J	653	612		ug/Kg		85	59 - 109
Fluorene	ND		653	541		ug/Kg		83	52 - 106
Indeno[1,2,3-cd]pyrene	ND	*	653	452	*	ug/Kg		69	55 - 120

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91069-E-8-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260119 — **Prep Batch: 259667**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND	F1	653	699		ug/Kg		107	49 - 110
Phenanthrene	190	J	653	592		ug/Kg		62	57 - 110
Pyrene	190	J	653	785		ug/Kg		91	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*33 - 120*
Terphenyl-d14	*119*		*35 - 146*

Lab Sample ID: 720-91069-E-8-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260119 — **Prep Batch: 259667**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	ND	F1	654	755	F1	ug/Kg		115	46 - 110	5	35
Acenaphthene	130	J	654	625		ug/Kg		76	46 - 106	5	35
Acenaphthylene	ND		654	623		ug/Kg		95	46 - 108	1	35
Anthracene	140	J	654	656		ug/Kg		79	55 - 103	1	35
Benzo[a]anthracene	ND	F1	654	898	F1	ug/Kg		137	54 - 110	1	35
Benzo[a]pyrene	110	J * F1	654	1020	F1 *	ug/Kg		139	62 - 111	1	35
Benzo[b]fluoranthene	100	J * F1	654	1100	F1 *	ug/Kg		153	60 - 109	0	35
Benzo[g,h,i]perylene	ND	*	654	368	*	ug/Kg		56	52 - 114	1	35
Benzo[k]fluoranthene	85	J * F1 B	654	961	F1 *	ug/Kg		134	58 - 109	1	35
Chrysene	ND	F1	654	717	F1	ug/Kg		110	54 - 108	2	35
Dibenz(a,h)anthracene	ND	*	654	466	*	ug/Kg		71	58 - 112	2	35
Fluoranthene	57	J	654	611		ug/Kg		85	59 - 109	0	35
Fluorene	ND		654	550		ug/Kg		84	52 - 106	2	35
Indeno[1,2,3-cd]pyrene	ND	*	654	437	*	ug/Kg		67	55 - 120	3	35
Naphthalene	ND	F1	654	725	F1	ug/Kg		111	49 - 110	4	35
Phenanthrene	190	J	654	614		ug/Kg		65	57 - 110	4	35
Pyrene	190	J	654	779		ug/Kg		90	50 - 120	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*33 - 120*
Terphenyl-d14	*116*		*35 - 146*

Lab Sample ID: MB 720-259687/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260175 — **Prep Batch: 259687**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Acenaphthene	ND		5.0	2.8	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Anthracene	ND		5.0	2.0	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Benzo[a]pyrene	ND		5.0	1.9	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Benzo[b]fluoranthene	ND		5.0	2.1	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		02/01/19 16:03	02/12/19 00:02	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 720-259687/1-A
Matrix: Solid
Analysis Batch: 260175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		5.0	2.1	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Chrysene	ND		5.0	1.4	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Fluoranthene	ND		5.0	1.4	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Fluorene	ND		5.0	2.2	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Naphthalene	ND		5.0	3.5	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Phenanthrene	ND		5.0	1.8	ug/Kg		02/01/19 16:03	02/12/19 00:02	1
Pyrene	ND		5.0	1.7	ug/Kg		02/01/19 16:03	02/12/19 00:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*33 - 120*	*02/01/19 16:03*	*02/12/19 00:02*	*1*
Terphenyl-d14	*117*		*35 - 146*	*02/01/19 16:03*	*02/12/19 00:02*	*1*

Lab Sample ID: LCS 720-259687/2-A
Matrix: Solid
Analysis Batch: 260175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	537		ug/Kg		80	38 - 110
Acenaphthene	667	504		ug/Kg		76	37 - 106
Acenaphthylene	667	549		ug/Kg		82	38 - 102
Anthracene	667	532		ug/Kg		80	43 - 103
Benzo[a]anthracene	667	687		ug/Kg		103	49 - 117
Benzo[a]pyrene	667	664		ug/Kg		100	49 - 118
Benzo[b]fluoranthene	667	661		ug/Kg		99	50 - 115
Benzo[g,h,i]perylene	667	668		ug/Kg		100	39 - 122
Benzo[k]fluoranthene	667	628		ug/Kg		94	45 - 115
Chrysene	667	742		ug/Kg		111	39 - 123
Dibenz(a,h)anthracene	667	649		ug/Kg		97	43 - 121
Fluoranthene	667	629		ug/Kg		94	47 - 109
Fluorene	667	554		ug/Kg		83	40 - 106
Indeno[1,2,3-cd]pyrene	667	665		ug/Kg		100	43 - 120
Naphthalene	667	509		ug/Kg		76	35 - 110
Phenanthrene	667	473		ug/Kg		71	42 - 110
Pyrene	667	646		ug/Kg		97	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*33 - 120*
Terphenyl-d14	*112*		*35 - 146*

Lab Sample ID: 720-91105-5 MS
Matrix: Solid
Analysis Batch: 260175

Client Sample ID: DG-AW3S-3.5-4
Prep Type: Total/NA
Prep Batch: 259687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	45	J	657	661		ug/Kg		94	46 - 110
Acenaphthene	ND		657	611		ug/Kg		93	46 - 106

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 720-91105-5 MS **Client Sample ID: DG-AW3S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260175 **Prep Batch: 259687**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	69		657	690		ug/Kg		94	46 - 108
Anthracene	43		657	629		ug/Kg		89	55 - 103
Benzo[a]anthracene	140	F1	657	954	F1	ug/Kg		124	54 - 110
Benzo[a]pyrene	290		657	991		ug/Kg		106	62 - 111
Benzo[b]fluoranthene	380		657	1050		ug/Kg		103	60 - 109
Benzo[g,h,i]perylene	200		657	616		ug/Kg		63	52 - 114
Benzo[k]fluoranthene	130		657	843		ug/Kg		108	58 - 109
Chrysene	200		657	855		ug/Kg		100	54 - 108
Dibenz(a,h)anthracene	44		657	588		ug/Kg		83	58 - 112
Fluoranthene	250		657	942		ug/Kg		106	59 - 109
Fluorene	ND		657	656		ug/Kg		100	52 - 106
Indeno[1,2,3-cd]pyrene	150		657	636		ug/Kg		74	55 - 120
Naphthalene	72		657	651		ug/Kg		88	49 - 110
Phenanthrene	90		657	595		ug/Kg		77	57 - 110
Pyrene	380		657	984		ug/Kg		92	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*95*		*33 - 120*
Terphenyl-d14	*135*		*35 - 146*

Lab Sample ID: 720-91105-5 MSD **Client Sample ID: DG-AW3S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260175 **Prep Batch: 259687**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	45	J	656	589		ug/Kg		83	46 - 110	12	35
Acenaphthene	ND		656	549		ug/Kg		84	46 - 106	11	35
Acenaphthylene	69		656	625		ug/Kg		85	46 - 108	10	35
Anthracene	43		656	564		ug/Kg		79	55 - 103	11	35
Benzo[a]anthracene	140	F1	656	864	F1	ug/Kg		111	54 - 110	10	35
Benzo[a]pyrene	290		656	905		ug/Kg		93	62 - 111	9	35
Benzo[b]fluoranthene	380		656	960		ug/Kg		89	60 - 109	9	35
Benzo[g,h,i]perylene	200		656	574		ug/Kg		56	52 - 114	7	35
Benzo[k]fluoranthene	130		656	769		ug/Kg		97	58 - 109	9	35
Chrysene	200		656	769		ug/Kg		87	54 - 108	11	35
Dibenz(a,h)anthracene	44		656	543		ug/Kg		76	58 - 112	8	35
Fluoranthene	250		656	842		ug/Kg		91	59 - 109	11	35
Fluorene	ND		656	590		ug/Kg		90	52 - 106	10	35
Indeno[1,2,3-cd]pyrene	150		656	588		ug/Kg		67	55 - 120	8	35
Naphthalene	72		656	582		ug/Kg		78	49 - 110	11	35
Phenanthrene	90		656	533		ug/Kg		67	57 - 110	11	35
Pyrene	380		656	868		ug/Kg		74	50 - 120	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*86*		*33 - 120*
Terphenyl-d14	*122*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-526652/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526644 — **Prep Batch: 526652**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.08	J	5.0	2.5	mg/Kg		02/04/19 12:49	02/05/19 03:01	1
Motor Oil Range Organics [C24-C36]	3.20	J	5.0	2.5	mg/Kg		02/04/19 12:49	02/05/19 03:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*96*		*40 - 140*	*02/04/19 12:49*	*02/05/19 03:01*	*1*

Lab Sample ID: LCS 440-526652/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526644 — **Prep Batch: 526652**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.7	59.7		mg/Kg		90	45 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*91*		*40 - 140*

Lab Sample ID: 720-91105-1 MS — **Client Sample ID: DG-AS11S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526844 — **Prep Batch: 526652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2000	B	66.9	1380	4	mg/Kg		-950	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*114*		*40 - 140*

Lab Sample ID: 720-91105-1 MSD — **Client Sample ID: DG-AS11S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 526844 — **Prep Batch: 526652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2000	B	66.6	1560	4	mg/Kg		-687	40 - 120	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*104*		*40 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-527345/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527337 — **Prep Batch: 527345**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-527345/1-A
Matrix: Solid
Analysis Batch: 527337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Endrin	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
delta-BHC	ND		10	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Toxaphene	ND		200	50	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
Chlordane (technical)	ND		50	10	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/07/19 11:12	02/07/19 16:37	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/07/19 11:12	02/07/19 16:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*28 - 115*	*02/07/19 11:12*	*02/07/19 16:37*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*21 - 117*	*02/07/19 11:12*	*02/07/19 16:37*	*1*

Lab Sample ID: LCS 440-527345/2-A
Matrix: Solid
Analysis Batch: 527337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	12.4		ug/Kg		93	53 - 115
Dieldrin	13.3	13.7		ug/Kg		102	57 - 115
Endrin aldehyde	13.3	13.7		ug/Kg		102	54 - 115
Endrin	13.3	13.7		ug/Kg		103	61 - 120
Endrin ketone	13.3	14.4		ug/Kg		108	54 - 119
Heptachlor	13.3	12.3		ug/Kg		92	52 - 115
Heptachlor epoxide	13.3	12.3		ug/Kg		92	59 - 115
4,4'-DDT	13.3	12.8		ug/Kg		96	60 - 131
4,4'-DDE	13.3	13.3		ug/Kg		100	55 - 115
4,4'-DDD	13.3	14.2		ug/Kg		107	59 - 118
Endosulfan I	13.3	13.7		ug/Kg		102	56 - 115
Endosulfan II	13.3	14.1		ug/Kg		106	60 - 117
alpha-BHC	13.3	11.6		ug/Kg		87	57 - 115
beta-BHC	13.3	12.4		ug/Kg		93	58 - 115
gamma-BHC (Lindane)	13.3	9.04		ug/Kg		68	56 - 115
delta-BHC	13.3	11.7		ug/Kg		88	52 - 115
Endosulfan sulfate	13.3	14.7		ug/Kg		110	60 - 115
Methoxychlor	13.3	13.3		ug/Kg		100	60 - 133

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-527345/2-A
Matrix: Solid
Analysis Batch: 527337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527345

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
alpha-Chlordane			13.3	13.2		ug/Kg		99	56 - 115		
gamma-Chlordane			13.3	12.8		ug/Kg		96	38 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*113*		*21 - 117*

Lab Sample ID: 720-91105-1 MS
Matrix: Solid
Analysis Batch: 527580

Client Sample ID: DG-AS11S-0.5-1
Prep Type: Total/NA
Prep Batch: 527345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aldrin	ND		13.2	10.1		ug/Kg		77	10 - 150		
Dieldrin	ND		13.2	9.13		ug/Kg		69	10 - 150		
Endrin aldehyde	ND		13.2	9.93		ug/Kg		75	10 - 131		
Endrin	ND		13.2	9.98		ug/Kg		76	10 - 150		
Endrin ketone	ND		13.2	7.51		ug/Kg		57	10 - 134		
Heptachlor	ND		13.2	8.51		ug/Kg		65	10 - 150		
Heptachlor epoxide	ND		13.2	12.0		ug/Kg		91	10 - 150		
4,4'-DDT	3.3	J	13.2	10.3		ug/Kg		53	13 - 141		
4,4'-DDE	2.7	J	13.2	12.7		ug/Kg		76	10 - 150		
4,4'-DDD	ND		13.2	8.99		ug/Kg		68	10 - 150		
Endosulfan I	ND		13.2	8.67		ug/Kg		66	10 - 150		
Endosulfan II	ND		13.2	11.9		ug/Kg		90	10 - 150		
alpha-BHC	ND		13.2	9.98		ug/Kg		76	12 - 125		
beta-BHC	ND		13.2	12.0		ug/Kg		91	10 - 150		
gamma-BHC (Lindane)	ND		13.2	9.38		ug/Kg		71	20 - 119		
delta-BHC	ND		13.2	7.40	J	ug/Kg		56	12 - 130		
Endosulfan sulfate	ND		13.2	12.1		ug/Kg		92	10 - 150		
Methoxychlor	ND		13.2	8.33		ug/Kg		63	10 - 150		
alpha-Chlordane	ND		13.2	8.04		ug/Kg		61	10 - 150		
gamma-Chlordane	ND		13.2	11.2		ug/Kg		85	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*63*		*21 - 117*

Lab Sample ID: 720-91105-1 MSD
Matrix: Solid
Analysis Batch: 527580

Client Sample ID: DG-AS11S-0.5-1
Prep Type: Total/NA
Prep Batch: 527345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.1	10.4		ug/Kg		79	10 - 150	2	26
Dieldrin	ND		13.1	9.75		ug/Kg		74	10 - 150	7	28
Endrin aldehyde	ND		13.1	10.7		ug/Kg		81	10 - 131	7	33
Endrin	ND		13.1	9.95		ug/Kg		76	10 - 150	0	27
Endrin ketone	ND		13.1	7.52		ug/Kg		57	10 - 134	0	40
Heptachlor	ND		13.1	8.33		ug/Kg		63	10 - 150	2	28

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91105-1 MSD **Client Sample ID: DG-AS11S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 527580 **Prep Batch: 527345**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide	ND		13.1	12.4		ug/Kg		94	10 - 150	3	25
4,4'-DDT	3.3	J	13.1	9.51		ug/Kg		47	13 - 141	8	26
4,4'-DDE	2.7	J	13.1	13.4		ug/Kg		81	10 - 150	5	40
4,4'-DDD	ND		13.1	9.73		ug/Kg		74	10 - 150	8	26
Endosulfan I	ND		13.1	8.99		ug/Kg		68	10 - 150	4	32
Endosulfan II	ND		13.1	9.37		ug/Kg		71	10 - 150	24	25
alpha-BHC	ND		13.1	10.2		ug/Kg		77	12 - 125	2	18
beta-BHC	ND		13.1	13.9		ug/Kg		106	10 - 150	14	33
gamma-BHC (Lindane)	ND		13.1	9.54		ug/Kg		73	20 - 119	2	24
delta-BHC	ND		13.1	7.37	J	ug/Kg		56	12 - 130	0	35
Endosulfan sulfate	ND		13.1	12.8		ug/Kg		97	10 - 150	5	35
Methoxychlor	ND		13.1	7.90		ug/Kg		60	10 - 150	5	34
alpha-Chlordane	ND		13.1	8.19		ug/Kg		62	10 - 150	2	40
gamma-Chlordane	ND		13.1	12.1		ug/Kg		92	10 - 150	7	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*108*		*21 - 117*

Lab Sample ID: MB 440-528096/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 528424 **Prep Batch: 528096**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Endrin	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
delta-BHC	ND		10	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Toxaphene	ND		200	50	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
Chlordane (technical)	ND		50	10	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
alpha-Chlordane	ND		5.0	2.0	ug/Kg		02/12/19 06:19	02/13/19 10:55	1
gamma-Chlordane	ND		5.0	1.5	ug/Kg		02/12/19 06:19	02/13/19 10:55	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-528096/1-A
Matrix: Solid
Analysis Batch: 528424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 528096

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		28 - 115	02/12/19 06:19	02/13/19 10:55	1
DCB Decachlorobiphenyl (Surr)	86		21 - 117	02/12/19 06:19	02/13/19 10:55	1

Lab Sample ID: LCS 440-528096/2-A
Matrix: Solid
Analysis Batch: 528424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 528096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	10.8		ug/Kg		81	53 - 115
Dieldrin	13.3	11.9		ug/Kg		89	57 - 115
Endrin aldehyde	13.3	11.4		ug/Kg		85	54 - 115
Endrin	13.3	11.9		ug/Kg		90	61 - 120
Endrin ketone	13.3	12.0		ug/Kg		90	54 - 119
Heptachlor	13.3	10.9		ug/Kg		81	52 - 115
Heptachlor epoxide	13.3	10.9		ug/Kg		82	59 - 115
4,4'-DDT	13.3	10.9		ug/Kg		81	60 - 131
4,4'-DDE	13.3	11.4		ug/Kg		85	55 - 115
4,4'-DDD	13.3	12.1		ug/Kg		91	59 - 118
Endosulfan I	13.3	11.5		ug/Kg		87	56 - 115
Endosulfan II	13.3	11.8		ug/Kg		89	60 - 117
alpha-BHC	13.3	10.2		ug/Kg		77	57 - 115
beta-BHC	13.3	10.5		ug/Kg		79	58 - 115
gamma-BHC (Lindane)	13.3	8.23		ug/Kg		62	56 - 115
delta-BHC	13.3	10.2		ug/Kg		76	52 - 115
Endosulfan sulfate	13.3	12.4		ug/Kg		93	60 - 115
Methoxychlor	13.3	11.2		ug/Kg		84	60 - 133
alpha-Chlordane	13.3	11.2		ug/Kg		84	56 - 115
gamma-Chlordane	13.3	11.0		ug/Kg		83	38 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	78		28 - 115
DCB Decachlorobiphenyl (Surr)	89		21 - 117

Lab Sample ID: 440-232901-G-1-H MS
Matrix: Solid
Analysis Batch: 528424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 528096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		13.1	8.58		ug/Kg		66	10 - 150
Dieldrin	ND		13.1	9.07		ug/Kg		69	10 - 150
Endrin aldehyde	ND		13.1	7.50		ug/Kg		57	10 - 131
Endrin	ND		13.1	8.94		ug/Kg		68	10 - 150
Endrin ketone	ND		13.1	8.33		ug/Kg		64	10 - 134
Heptachlor	ND		13.1	8.74		ug/Kg		67	10 - 150
Heptachlor epoxide	ND		13.1	8.50		ug/Kg		65	10 - 150
4,4'-DDT	18		13.1	23.6		ug/Kg		45	13 - 141
4,4'-DDE	6.3		13.1	13.8		ug/Kg		58	10 - 150
4,4'-DDD	1.6	J	13.1	10.3		ug/Kg		67	10 - 150

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-232901-G-1-H MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 528424 — **Prep Batch: 528096**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan I	ND		13.1	8.59		ug/Kg		66	10 - 150
Endosulfan II	ND		13.1	8.34		ug/Kg		64	10 - 150
alpha-BHC	ND		13.1	8.53		ug/Kg		65	12 - 125
beta-BHC	ND		13.1	8.01		ug/Kg		61	10 - 150
gamma-BHC (Lindane)	ND		13.1	7.28		ug/Kg		56	20 - 119
delta-BHC	ND		13.1	7.63	J	ug/Kg		58	12 - 130
Endosulfan sulfate	ND		13.1	8.74	J	ug/Kg		67	10 - 150
Methoxychlor	ND		13.1	8.05		ug/Kg		62	10 - 150
alpha-Chlordane	ND		13.1	8.30		ug/Kg		64	10 - 150
gamma-Chlordane	ND		13.1	8.43		ug/Kg		65	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*69*		*21 - 117*

Lab Sample ID: 440-232901-G-1-I MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 528424 — **Prep Batch: 528096**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		13.0	8.26		ug/Kg		64	10 - 150	4	26
Dieldrin	ND		13.0	8.78		ug/Kg		68	10 - 150	3	28
Endrin aldehyde	ND		13.0	7.13	p	ug/Kg		55	10 - 131	5	33
Endrin	ND		13.0	8.57		ug/Kg		66	10 - 150	4	27
Endrin ketone	ND		13.0	7.74		ug/Kg		60	10 - 134	7	40
Heptachlor	ND		13.0	8.50		ug/Kg		66	10 - 150	3	28
Heptachlor epoxide	ND		13.0	8.32		ug/Kg		64	10 - 150	2	25
4,4'-DDT	18		13.0	22.5		ug/Kg		37	13 - 141	5	26
4,4'-DDE	6.3		13.0	13.5		ug/Kg		55	10 - 150	3	40
4,4'-DDD	1.6	J	13.0	9.84		ug/Kg		63	10 - 150	5	26
Endosulfan I	ND		13.0	8.26		ug/Kg		64	10 - 150	4	32
Endosulfan II	ND		13.0	8.05		ug/Kg		62	10 - 150	4	25
alpha-BHC	ND		13.0	8.19		ug/Kg		63	12 - 125	4	18
beta-BHC	ND		13.0	7.89		ug/Kg		61	10 - 150	2	33
gamma-BHC (Lindane)	ND		13.0	7.06		ug/Kg		54	20 - 119	3	24
delta-BHC	ND		13.0	7.42	J	ug/Kg		57	12 - 130	3	35
Endosulfan sulfate	ND		13.0	8.26	J	ug/Kg		64	10 - 150	6	35
Methoxychlor	ND		13.0	7.59		ug/Kg		59	10 - 150	6	34
alpha-Chlordane	ND		13.0	8.01		ug/Kg		62	10 - 150	3	40
gamma-Chlordane	ND		13.0	8.29		ug/Kg		64	10 - 150	2	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*28 - 115*
DCB Decachlorobiphenyl (Surr)	*64*		*21 - 117*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-527345/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527620 — **Prep Batch: 527345**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1221	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1232	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1242	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1248	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1254	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1
Aroclor 1260	ND		50	17	ug/Kg		02/07/19 11:12	02/08/19 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*02/07/19 11:12*	*02/08/19 13:28*	*1*

Lab Sample ID: LCS 440-527345/5-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527416 — **Prep Batch: 527345**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	256		ug/Kg		96	65 - 115		
Aroclor 1260			267	266		ug/Kg		100	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*45 - 120*

Lab Sample ID: 720-91105-1 MS — **Client Sample ID: DG-AS11S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527416 — **Prep Batch: 527345**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND	F1	265	113	F1	ug/Kg		43	50 - 120		
Aroclor 1260	29	J F1	265	116	F1	ug/Kg		33	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*

Lab Sample ID: 720-91105-1 MSD — **Client Sample ID: DG-AS11S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527416 — **Prep Batch: 527345**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	F1	262	112	F1	ug/Kg		43	50 - 120	1	30
Aroclor 1260	29	J F1	262	112	F1	ug/Kg		32	50 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259629/1-A
Matrix: Solid
Analysis Batch: 259950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Arsenic	ND		1.0	0.085	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Barium	0.143	J	0.50	0.071	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Beryllium	ND		0.10	0.033	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Cadmium	ND		0.13	0.012	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Chromium	ND		0.50	0.053	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Cobalt	ND		0.20	0.020	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Copper	ND		1.5	0.71	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Lead	0.222	J	0.50	0.11	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Nickel	ND		0.50	0.051	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Selenium	ND		1.0	0.15	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Silver	ND		0.25	0.051	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Thallium	ND		0.50	0.15	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Vanadium	ND		0.50	0.068	mg/Kg		02/02/19 08:08	02/06/19 20:39	1
Zinc	ND		1.5	0.64	mg/Kg		02/02/19 08:08	02/06/19 20:39	1

Lab Sample ID: LCS 720-259629/2-A
Matrix: Solid
Analysis Batch: 259950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.6		mg/Kg		99	80 - 120
Arsenic	50.0	48.9		mg/Kg		98	80 - 120
Barium	50.0	49.8		mg/Kg		100	80 - 120
Beryllium	50.0	46.6		mg/Kg		93	80 - 120
Cadmium	50.0	50.7		mg/Kg		101	80 - 120
Chromium	50.0	51.0		mg/Kg		102	80 - 120
Cobalt	50.0	51.5		mg/Kg		103	80 - 120
Copper	50.0	51.8		mg/Kg		104	80 - 120
Lead	50.0	51.5		mg/Kg		103	80 - 120
Molybdenum	50.0	50.2		mg/Kg		100	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	50.0	49.0		mg/Kg		98	80 - 120
Silver	25.0	25.2		mg/Kg		101	80 - 120
Thallium	50.0	50.8		mg/Kg		102	80 - 120
Vanadium	50.0	50.8		mg/Kg		102	80 - 120
Zinc	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: 720-91012-A-16-D MS
Matrix: Solid
Analysis Batch: 259950

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259629

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.9	F1 F2	36.5	15.6	F1	mg/Kg		29	75 - 125
Arsenic	3.6		36.5	47.0		mg/Kg		119	75 - 125
Barium	39	B F1	36.5	102	F1	mg/Kg		173	75 - 125
Beryllium	0.23	J	36.5	45.3		mg/Kg		123	75 - 125
Cadmium	0.79		36.5	45.2		mg/Kg		122	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91012-A-16-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259950 **Prep Batch: 259629**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	49	F1	36.5	127	F1	mg/Kg		213	75 - 125
Cobalt	6.1	F1	36.5	52.5	F1	mg/Kg		127	75 - 125
Copper	160		36.5	228	4	mg/Kg		181	75 - 125
Lead	800	B F2	36.5	823	4	mg/Kg		70	75 - 125
Molybdenum	0.88	J	36.5	43.0		mg/Kg		115	75 - 125
Nickel	43	F1	36.5	95.3	F1	mg/Kg		143	75 - 125
Selenium	1.5	J	36.5	43.4		mg/Kg		115	75 - 125
Silver	ND		18.2	21.3		mg/Kg		117	75 - 125
Thallium	27	F1	36.5	81.3	F1	mg/Kg		149	75 - 125
Vanadium	67	F1	36.5	140	F1	mg/Kg		200	75 - 125
Zinc	120	F1	36.5	206	F1	mg/Kg		229	75 - 125

Lab Sample ID: 720-91012-A-16-E MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259950 **Prep Batch: 259629**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.9	F1 F2	36.8	290	F1 F2	mg/Kg		775	75 - 125	180	20
Arsenic	3.6		36.8	46.2		mg/Kg		116	75 - 125	2	20
Barium	39	B F1	36.8	93.2	F1	mg/Kg		147	75 - 125	9	20
Beryllium	0.23	J	36.8	44.9		mg/Kg		122	75 - 125	1	20
Cadmium	0.79		36.8	45.3		mg/Kg		121	75 - 125	0	20
Chromium	49	F1	36.8	109	F1	mg/Kg		162	75 - 125	15	20
Cobalt	6.1	F1	36.8	53.2	F1	mg/Kg		128	75 - 125	1	20
Copper	160		36.8	247	4	mg/Kg		233	75 - 125	8	20
Lead	800	B F2	36.8	3860	4 F2	mg/Kg		8333	75 - 125	130	20
Molybdenum	0.88	J	36.8	40.9		mg/Kg		109	75 - 125	5	20
Nickel	43	F1	36.8	98.2	F1	mg/Kg		150	75 - 125	3	20
Selenium	1.5	J	36.8	42.7		mg/Kg		112	75 - 125	2	20
Silver	ND		18.4	22.0		mg/Kg		120	75 - 125	3	20
Thallium	27	F1	36.8	75.2	F1	mg/Kg		132	75 - 125	8	20
Vanadium	67	F1	36.8	127	F1	mg/Kg		162	75 - 125	10	20
Zinc	120	F1	36.8	208	F1	mg/Kg		233	75 - 125	1	20

Lab Sample ID: MB 720-259672/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260374 **Prep Batch: 259672**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.196	J	0.50	0.083	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Arsenic	ND		1.0	0.085	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Barium	ND		0.50	0.071	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Beryllium	0.0359	J	0.10	0.033	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Cadmium	ND		0.13	0.012	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Chromium	ND		0.50	0.053	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Cobalt	ND		0.20	0.020	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Copper	ND		1.5	0.71	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Lead	ND		0.50	0.11	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/13/19 08:41	02/14/19 10:04	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259672/1-A
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.50	0.051	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Selenium	0.236	J	1.0	0.15	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Silver	ND		0.25	0.051	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Thallium	ND		0.50	0.15	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Vanadium	ND		0.50	0.068	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Zinc	ND		1.5	0.64	mg/Kg		02/13/19 08:41	02/14/19 10:04	1

Lab Sample ID: LCS 720-259672/2-A
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.5		mg/Kg		99	80 - 120
Arsenic	50.0	50.9		mg/Kg		102	80 - 120
Barium	50.0	53.5		mg/Kg		107	80 - 120
Beryllium	50.0	52.7		mg/Kg		105	80 - 120
Cadmium	50.0	51.6		mg/Kg		103	80 - 120
Chromium	50.0	51.5		mg/Kg		103	80 - 120
Cobalt	50.0	51.8		mg/Kg		104	80 - 120
Copper	50.0	52.4		mg/Kg		105	80 - 120
Lead	50.0	52.0		mg/Kg		104	80 - 120
Molybdenum	50.0	53.3		mg/Kg		107	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	49.6		mg/Kg		99	80 - 120
Silver	25.0	25.1		mg/Kg		100	80 - 120
Thallium	50.0	52.1		mg/Kg		104	80 - 120
Vanadium	50.0	52.2		mg/Kg		104	80 - 120
Zinc	50.0	50.9		mg/Kg		102	80 - 120

Lab Sample ID: 720-91106-A-6-D MS
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.2	J B F1	48.1	16.3	F1	mg/Kg		31	75 - 125
Arsenic	3.3	J	48.1	50.6		mg/Kg		98	75 - 125
Barium	89	F1	48.1	154	F1	mg/Kg		136	75 - 125
Beryllium	0.72	B	48.1	54.6		mg/Kg		112	75 - 125
Cadmium	0.27	J	48.1	49.8		mg/Kg		103	75 - 125
Chromium	120	F1	48.1	154	F1	mg/Kg		62	75 - 125
Cobalt	19		48.1	67.5		mg/Kg		100	75 - 125
Copper	31		48.1	85.4		mg/Kg		113	75 - 125
Lead	10		48.1	59.2		mg/Kg		102	75 - 125
Molybdenum	ND		48.1	46.8		mg/Kg		97	75 - 125
Nickel	130	F1	48.1	165	F1	mg/Kg		71	75 - 125
Selenium	0.81	J B	48.1	47.3		mg/Kg		97	75 - 125
Silver	0.27	J	24.0	25.6		mg/Kg		105	75 - 125
Thallium	ND		48.1	46.3		mg/Kg		96	75 - 125
Vanadium	63	F1	48.1	126	F1	mg/Kg		132	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91106-A-6-D MS
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	61		48.1	108		mg/Kg		99	75 - 125

Lab Sample ID: 720-91106-A-6-E MSD
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.2	J B F1	49.0	18.8	F1	mg/Kg		36	75 - 125	15	20
Arsenic	3.3	J	49.0	53.1		mg/Kg		102	75 - 125	5	20
Barium	89	F1	49.0	160	F1	mg/Kg		147	75 - 125	4	20
Beryllium	0.72	B	49.0	61.3		mg/Kg		124	75 - 125	11	20
Cadmium	0.27	J	49.0	54.5		mg/Kg		111	75 - 125	9	20
Chromium	120	F1	49.0	169		mg/Kg		92	75 - 125	9	20
Cobalt	19		49.0	72.5		mg/Kg		109	75 - 125	7	20
Copper	31		49.0	88.2		mg/Kg		117	75 - 125	3	20
Lead	10		49.0	60.4		mg/Kg		103	75 - 125	2	20
Molybdenum	ND		49.0	51.0		mg/Kg		104	75 - 125	9	20
Nickel	130	F1	49.0	175		mg/Kg		89	75 - 125	6	20
Selenium	0.81	J B	49.0	51.5		mg/Kg		103	75 - 125	9	20
Silver	0.27	J	24.5	27.3		mg/Kg		110	75 - 125	6	20
Thallium	ND		49.0	52.7		mg/Kg		108	75 - 125	13	20
Vanadium	63	F1	49.0	131	F1	mg/Kg		139	75 - 125	4	20
Zinc	61		49.0	107		mg/Kg		95	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259635/1-A
Matrix: Solid
Analysis Batch: 260213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/11/19 14:30	02/11/19 15:39	1

Lab Sample ID: LCS 720-259635/2-A
Matrix: Solid
Analysis Batch: 260213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.844		mg/Kg		101	80 - 120

Lab Sample ID: 440-231694-B-16-B MS
Matrix: Solid
Analysis Batch: 260213

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.020		0.794	0.865		mg/Kg		106	75 - 125

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 440-231694-B-16-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260213 — **Prep Batch: 259635**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.020		0.769	0.828		mg/Kg		105	75 - 125	4	20

Lab Sample ID: MB 720-259641/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260373 — **Prep Batch: 259641**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00272	J	0.017	0.0025	mg/Kg		02/13/19 18:00	02/14/19 11:06	1

Lab Sample ID: LCS 720-259641/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260373 — **Prep Batch: 259641**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.813		mg/Kg		98	80 - 120

Lab Sample ID: 720-91105-4 MS — **Client Sample ID: DG-AW3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260373 — **Prep Batch: 259641**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.23	B	0.769	0.984		mg/Kg		98	75 - 125

Lab Sample ID: 720-91105-4 MSD — **Client Sample ID: DG-AW3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260373 — **Prep Batch: 259641**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.23	B	0.769	0.949		mg/Kg		93	75 - 125	4	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91105-9 DU — **Client Sample ID: DG-Y15S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527220

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.8		13.1		%		3	20

GC/MS VOA

Prep Batch: 526498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	5035	
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	5035	

Analysis Batch: 526536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	8260B	526623
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	8260B	526623
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	8260B	526623
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	8260B	526623
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	8260B	526623
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	8260B	526623
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	8260B	526623
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	8260B	526623
MB 440-526536/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-526536/6	Lab Control Sample	Total/NA	Solid	8260B	
440-231317-A-2 MS	Matrix Spike	Total/NA	Solid	8260B	
440-231317-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 526537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526623
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526623
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	526623
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526623
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526623
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526623
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	526623
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	526623
MB 440-526537/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526537/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-231317-A-2 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-231317-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 526623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	5035	
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	5035	
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	5035	
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	5035	
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	5035	
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	5035	
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 526623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	5035	

Analysis Batch: 526986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	8260B	527049
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	8260B	527049
720-91105-12	DUP-109	Total/NA	Solid	8260B	527049
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	8260B	527049
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	8260B	527049
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	8260B	527049
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	8260B	527049
720-91105-20	DUP-111	Total/NA	Solid	8260B	527049
MB 440-526986/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-526986/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-526986/13	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 526987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527049
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	527049
720-91105-12	DUP-109	Total/NA	Solid	8260B/CA_LUFT MS	527049
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527049
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	527049
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527049
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	8260B/CA_LUFT MS	527049
720-91105-20	DUP-111	Total/NA	Solid	8260B/CA_LUFT MS	527049
MB 440-526987/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-526987/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-526987/14	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 527049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	5035	
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	5035	
720-91105-12	DUP-109	Total/NA	Solid	5035	
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	5035	
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	5035	
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	5035	
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	5035	
720-91105-20	DUP-111	Total/NA	Solid	5035	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

GC/MS VOA

Analysis Batch: 527268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	8260B	526498
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	8260B	526498
MB 440-527268/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-527268/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-527268/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 527269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	526498
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	526498
MB 440-527269/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-527269/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-527269/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 527862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-19	TB-01.31.19	Total/NA	Water	8260B	
MB 440-527862/4	Method Blank	Total/NA	Water	8260B	
LCS 440-527862/5	Lab Control Sample	Total/NA	Water	8260B	
440-231822-F-22 MS	Matrix Spike	Total/NA	Water	8260B	
440-231822-F-22 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 527863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-19	TB-01.31.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-527863/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-527863/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-231822-F-22 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-231822-F-22 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 259667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	3546	
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	3546	
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	3546	
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	3546	
MB 720-259667/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259667/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91069-E-8-E MS	Matrix Spike	Total/NA	Solid	3546	
720-91069-E-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

GC/MS Semi VOA

Prep Batch: 259687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	3546	
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	3546	
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	3546	
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	3546	
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	3546	
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	3546	
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	3546	
720-91105-12	DUP-109	Total/NA	Solid	3546	
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	3546	
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	3546	
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	3546	
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	3546	
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	3546	
720-91105-20	DUP-111	Total/NA	Solid	3546	
MB 720-259687/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259687/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91105-5 MS	DG-AW3S-3.5-4	Total/NA	Solid	3546	
720-91105-5 MSD	DG-AW3S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 260053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-259667/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259667

Analysis Batch: 260119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259667/1-A	Method Blank	Total/NA	Solid	8270C SIM	259667
720-91069-E-8-E MS	Matrix Spike	Total/NA	Solid	8270C SIM	259667
720-91069-E-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	259667

Analysis Batch: 260175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	8270C SIM	259687
MB 720-259687/1-A	Method Blank	Total/NA	Solid	8270C SIM	259687
LCS 720-259687/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259687
720-91105-5 MS	DG-AW3S-3.5-4	Total/NA	Solid	8270C SIM	259687
720-91105-5 MSD	DG-AW3S-3.5-4	Total/NA	Solid	8270C SIM	259687

Analysis Batch: 260320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	8270C SIM	259667
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	8270C SIM	259667
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	8270C SIM	259667
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	8270C SIM	259667
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	8270C SIM	259667
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	8270C SIM	259667
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	8270C SIM	259687
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	8270C SIM	259687
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	8270C SIM	259687
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	8270C SIM	259687
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	8270C SIM	259687
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	8270C SIM	259687

GC/MS Semi VOA (Continued)

Analysis Batch: 260320 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-12	DUP-109	Total/NA	Solid	8270C SIM	259687
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	8270C SIM	259687
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	8270C SIM	259687
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	8270C SIM	259687
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	8270C SIM	259687
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	8270C SIM	259687
720-91105-20	DUP-111	Total/NA	Solid	8270C SIM	259687

GC Semi VOA

Analysis Batch: 526644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	8015B	526652
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	8015B	526652
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	8015B	526652
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	8015B	526652
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	8015B	526652
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	8015B	526652
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	8015B	526652
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	8015B	526652
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	8015B	526652
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	8015B	526652
720-91105-12	DUP-109	Total/NA	Solid	8015B	526652
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	8015B	526652
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	8015B	526652
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	8015B	526652
720-91105-20	DUP-111	Total/NA	Solid	8015B	526652
MB 440-526652/1-A	Method Blank	Total/NA	Solid	8015B	526652
LCS 440-526652/2-A	Lab Control Sample	Total/NA	Solid	8015B	526652

Prep Batch: 526652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	3546	
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	3546	
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	3546	
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	3546	
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	3546	
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	3546	
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	3546	
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	3546	
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	3546	
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	3546	
720-91105-10 - DL	DG-Y15S-7.5-8	Total/NA	Solid	3546	
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	3546	
720-91105-12	DUP-109	Total/NA	Solid	3546	
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	3546	
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	3546	
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	3546	
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	3546	
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	3546	
720-91105-20	DUP-111	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 526652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-526652/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-526652/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91105-1 MS	DG-AS11S-0.5-1	Total/NA	Solid	3546	
720-91105-1 MSD	DG-AS11S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 526844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	8015B	526652
720-91105-1 MS	DG-AS11S-0.5-1	Total/NA	Solid	8015B	526652
720-91105-1 MSD	DG-AS11S-0.5-1	Total/NA	Solid	8015B	526652

Analysis Batch: 526888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-10 - DL	DG-Y15S-7.5-8	Total/NA	Solid	8015B	526652
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	8015B	526652
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	8015B	526652

Analysis Batch: 527335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	8081A	527345

Analysis Batch: 527337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	8081A	527345
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	8081A	527345
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	8081A	527345
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	8081A	527345
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	8081A	527345
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	8081A	527345
720-91105-12	DUP-109	Total/NA	Solid	8081A	527345
MB 440-527345/1-A	Method Blank	Total/NA	Solid	8081A	527345
LCS 440-527345/2-A	Lab Control Sample	Total/NA	Solid	8081A	527345

Prep Batch: 527345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	3546	
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	3546	
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	3546	
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	3546	
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	3546	
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	3546	
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	3546	
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	3546	
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	3546	
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	3546	
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	3546	
720-91105-12	DUP-109	Total/NA	Solid	3546	
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	3546	
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	3546	
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	3546	
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 527345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	3546	
720-91105-20	DUP-111	Total/NA	Solid	3546	
MB 440-527345/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-527345/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 440-527345/5-A	Lab Control Sample	Total/NA	Solid	3546	
720-91105-1 MS	DG-AS11S-0.5-1	Total/NA	Solid	3546	
720-91105-1 MS	DG-AS11S-0.5-1	Total/NA	Solid	3546	
720-91105-1 MSD	DG-AS11S-0.5-1	Total/NA	Solid	3546	
720-91105-1 MSD	DG-AS11S-0.5-1	Total/NA	Solid	3546	

Analysis Batch: 527416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	8082	527345
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	8082	527345
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	8082	527345
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	8082	527345
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	8082	527345
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	8082	527345
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	8082	527345
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	8082	527345
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	8082	527345
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	8082	527345
LCS 440-527345/5-A	Lab Control Sample	Total/NA	Solid	8082	527345
720-91105-1 MS	DG-AS11S-0.5-1	Total/NA	Solid	8082	527345
720-91105-1 MSD	DG-AS11S-0.5-1	Total/NA	Solid	8082	527345

Analysis Batch: 527580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	8081A	527345
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	8081A	527345
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	8081A	527345
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	8081A	527345
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	8081A	527345
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	8081A	527345
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	8081A	527345
720-91105-20	DUP-111	Total/NA	Solid	8081A	527345
720-91105-1 MS	DG-AS11S-0.5-1	Total/NA	Solid	8081A	527345
720-91105-1 MSD	DG-AS11S-0.5-1	Total/NA	Solid	8081A	527345

Analysis Batch: 527620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	8082	527345
720-91105-12	DUP-109	Total/NA	Solid	8082	527345
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	8082	527345
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	8082	527345
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	8082	527345
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	8082	527345
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	8082	527345
720-91105-20	DUP-111	Total/NA	Solid	8082	527345
MB 440-527345/1-A	Method Blank	Total/NA	Solid	8082	527345

GC Semi VOA

Prep Batch: 528096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	3546	
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	3546	
MB 440-528096/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-528096/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-232901-G-1-H MS	Matrix Spike	Total/NA	Solid	3546	
440-232901-G-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 528424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	8081A	528096
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	8081A	528096
MB 440-528096/1-A	Method Blank	Total/NA	Solid	8081A	528096
LCS 440-528096/2-A	Lab Control Sample	Total/NA	Solid	8081A	528096
440-232901-G-1-H MS	Matrix Spike	Total/NA	Solid	8081A	528096
440-232901-G-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	528096

Metals

Prep Batch: 259629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	3050B	
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	3050B	
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	3050B	
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	3050B	
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	3050B	
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	3050B	
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	3050B	
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	3050B	
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	3050B	
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	3050B	
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	3050B	
720-91105-12	DUP-109	Total/NA	Solid	3050B	
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	3050B	
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	3050B	
MB 720-259629/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259629/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91012-A-16-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-91012-A-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	7471A	
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	7471A	
MB 720-259635/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259635/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-231694-B-16-B MS	Matrix Spike	Total/NA	Solid	7471A	
440-231694-B-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	7471A	
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	7471A	
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	7471A	
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	7471A	
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	7471A	
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	7471A	
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	7471A	
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	7471A	
720-91105-12	DUP-109	Total/NA	Solid	7471A	
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	7471A	
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	7471A	
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	7471A	
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	7471A	
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	7471A	
720-91105-20	DUP-111	Total/NA	Solid	7471A	
MB 720-259641/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259641/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91105-4 MS	DG-AW3S-0.5-1	Total/NA	Solid	7471A	
720-91105-4 MSD	DG-AW3S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	3050B	
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	3050B	
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	3050B	
720-91105-20	DUP-111	Total/NA	Solid	3050B	
MB 720-259672/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259672/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91106-A-6-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-91106-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 259950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	6010B	259629
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	6010B	259629
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-12	DUP-109	Total/NA	Solid	6010B	259629
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	6010B	259629
MB 720-259629/1-A	Method Blank	Total/NA	Solid	6010B	259629
LCS 720-259629/2-A	Lab Control Sample	Total/NA	Solid	6010B	259629
720-91012-A-16-D MS	Matrix Spike	Total/NA	Solid	6010B	259629
720-91012-A-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259629

Metals

Analysis Batch: 260077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	6010B	259629
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	6010B	259629

Analysis Batch: 260213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	7471A	259635
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	7471A	259635
MB 720-259635/1-A	Method Blank	Total/NA	Solid	7471A	259635
LCS 720-259635/2-A	Lab Control Sample	Total/NA	Solid	7471A	259635
440-231694-B-16-B MS	Matrix Spike	Total/NA	Solid	7471A	259635
440-231694-B-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259635

Analysis Batch: 260373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	7471A	259641
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	7471A	259641
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	7471A	259641
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	7471A	259641
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	7471A	259641
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	7471A	259641
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	7471A	259641
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	7471A	259641
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	7471A	259641
720-91105-12	DUP-109	Total/NA	Solid	7471A	259641
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	7471A	259641
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	7471A	259641
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	7471A	259641
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	7471A	259641
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	7471A	259641
720-91105-20	DUP-111	Total/NA	Solid	7471A	259641
MB 720-259641/1-A	Method Blank	Total/NA	Solid	7471A	259641
LCS 720-259641/2-A	Lab Control Sample	Total/NA	Solid	7471A	259641
720-91105-4 MS	DG-AW3S-0.5-1	Total/NA	Solid	7471A	259641
720-91105-4 MSD	DG-AW3S-0.5-1	Total/NA	Solid	7471A	259641

Analysis Batch: 260374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	6010B	259672
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	6010B	259672
720-91105-20	DUP-111	Total/NA	Solid	6010B	259672
MB 720-259672/1-A	Method Blank	Total/NA	Solid	6010B	259672
LCS 720-259672/2-A	Lab Control Sample	Total/NA	Solid	6010B	259672
720-91106-A-6-D MS	Matrix Spike	Total/NA	Solid	6010B	259672
720-91106-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259672

Analysis Batch: 260384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	6010B	259672

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Metals

Analysis Batch: 260390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	6010B	259672

Analysis Batch: 261966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	6010B	259629
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	6010B	259629
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	6010B	259629
720-91105-12	DUP-109	Total/NA	Solid	6010B	259629
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	6010B	259629
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	6010B	259629

General Chemistry

Analysis Batch: 527220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-1	DG-AS11S-0.5-1	Total/NA	Solid	Moisture	
720-91105-2	DG-AS11S-3.5-4	Total/NA	Solid	Moisture	
720-91105-3	DG-AS11S-7.5-8	Total/NA	Solid	Moisture	
720-91105-4	DG-AW3S-0.5-1	Total/NA	Solid	Moisture	
720-91105-5	DG-AW3S-3.5-4	Total/NA	Solid	Moisture	
720-91105-6	DG-AY3S-0.5-1	Total/NA	Solid	Moisture	
720-91105-7	DG-AY3S-3.5-4	Total/NA	Solid	Moisture	
720-91105-8	DG-Y15S-0.5-1	Total/NA	Solid	Moisture	
720-91105-9	DG-Y15S-3.5-4	Total/NA	Solid	Moisture	
720-91105-10	DG-Y15S-7.5-8	Total/NA	Solid	Moisture	
720-91105-11	DG-AC15S-0.5-1	Total/NA	Solid	Moisture	
720-91105-12	DUP-109	Total/NA	Solid	Moisture	
720-91105-13	DG-AC15S-3.5-4	Total/NA	Solid	Moisture	
720-91105-14	DG-AC15S-7.5-8	Total/NA	Solid	Moisture	
720-91105-15	DG-AN13S-0.5-1	Total/NA	Solid	Moisture	
720-91105-16	DG-AN13S-3.5-4	Total/NA	Solid	Moisture	
720-91105-17	DG-AN13S-9.5-10	Total/NA	Solid	Moisture	
720-91105-20	DUP-111	Total/NA	Solid	Moisture	
720-91105-9 DU	DG-Y15S-3.5-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AS11S-0.5-1

Lab Sample ID: 720-91105-1

Date Collected: 01/31/19 08:20
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526536	02/04/19 14:02	HR	TAL IRV
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526537	02/04/19 14:02	HR	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		50	260320	02/14/19 01:38	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		10	526844	02/05/19 17:37	LMB	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 14:58	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 17:15	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 21:55	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 15:16	BKR	TAL PLS
Total/NA	Prep	7471A			259635	02/11/19 14:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260213	02/11/19 16:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AS11S-3.5-4

Lab Sample ID: 720-91105-2

Date Collected: 01/31/19 08:20
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526536	02/04/19 14:27	HR	TAL IRV
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526537	02/04/19 14:27	HR	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		10	260320	02/14/19 02:02	MQL	TAL PLS
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260320	02/14/19 07:32	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 04:48	MPD	TAL IRV
Total/NA	Prep	3546			528096	02/12/19 13:32	L1A	TAL IRV
Total/NA	Analysis	8081A		1	528424	02/13/19 13:30	JM	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 17:29	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:00	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		10	260077	02/08/19 15:21	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AS11S-3.5-4

Lab Sample ID: 720-91105-2

Date Collected: 01/31/19 08:20
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		10	261966	02/08/19 15:21	BKR	TAL PLS
Total/NA	Prep	7471A			259635	02/11/19 14:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260213	02/11/19 16:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AS11S-7.5-8

Lab Sample ID: 720-91105-3

Date Collected: 01/31/19 08:20
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526536	02/04/19 14:52	HR	TAL IRV
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526537	02/04/19 14:52	HR	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	260320	02/14/19 00:51	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 06:13	MPD	TAL IRV
Total/NA	Prep	3546			528096	02/12/19 13:32	L1A	TAL IRV
Total/NA	Analysis	8081A		1	528424	02/13/19 14:00	JM	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 17:43	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:05	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		10	260077	02/08/19 15:26	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		10	261966	02/08/19 15:26	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AW3S-0.5-1

Lab Sample ID: 720-91105-4

Date Collected: 01/31/19 09:45
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526536	02/04/19 15:17	HR	TAL IRV
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526537	02/04/19 15:17	HR	TAL IRV
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		10	260320	02/14/19 02:25	MQL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AW3S-0.5-1

Date Collected: 01/31/19 09:45
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			259667	02/01/19 14:01	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260320	02/14/19 07:55	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 05:09	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527337	02/07/19 18:37	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 17:56	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:10	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 15:30	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AW3S-3.5-4

Date Collected: 01/31/19 09:45
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526536	02/04/19 15:41	HR	TAL IRV
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526537	02/04/19 15:41	HR	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260175	02/12/19 04:19	LPL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 05:30	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527337	02/07/19 18:52	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 18:10	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:14	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 15:35	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AY3S-0.5-1

Lab Sample ID: 720-91105-6

Date Collected: 01/31/19 10:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526536	02/04/19 16:06	HR	TAL IRV
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526537	02/04/19 16:06	HR	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	260320	02/14/19 02:49	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 11:56	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527337	02/07/19 19:07	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 18:23	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:19	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 15:40	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AY3S-3.5-4

Lab Sample ID: 720-91105-7

Date Collected: 01/31/19 10:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526536	02/04/19 16:31	HR	TAL IRV
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526537	02/04/19 16:31	HR	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		50	260320	02/14/19 03:13	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 06:56	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527337	02/07/19 19:22	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 18:37	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:24	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 15:44	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-Y15S-0.5-1

Lab Sample ID: 720-91105-8

Date Collected: 01/31/19 11:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	526536	02/04/19 16:55	HR	TAL IRV
Total/NA	Prep	5035			526623	01/31/19 19:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526537	02/04/19 16:55	HR	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	260320	02/14/19 03:36	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 07:17	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527337	02/07/19 19:37	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 18:50	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:29	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 15:49	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-Y15S-3.5-4

Lab Sample ID: 720-91105-9

Date Collected: 01/31/19 11:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	526986	02/06/19 13:18	AYL	TAL IRV
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526987	02/06/19 13:18	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260320	02/14/19 04:00	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 07:39	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527337	02/07/19 19:52	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 19:04	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:33	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 15:54	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-Y15S-7.5-8

Lab Sample ID: 720-91105-10

Date Collected: 01/31/19 11:15
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526498	02/03/19 10:47	JB	TAL IRV
Total/NA	Analysis	8260B		200	527268	02/07/19 15:16	AYL	TAL IRV
Total/NA	Prep	5035			526498	02/03/19 10:47	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		200	527269	02/07/19 15:16	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	260320	02/14/19 04:23	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 08:22	MPD	TAL IRV
Total/NA	Prep	3546	DL		526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B	DL	5	526888	02/06/19 11:19	LMB	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 16:41	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527416	02/07/19 19:17	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:38	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 15:59	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AC15S-0.5-1

Lab Sample ID: 720-91105-11

Date Collected: 01/31/19 12:15
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	526986	02/06/19 13:43	AYL	TAL IRV
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526987	02/06/19 13:43	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		50	260320	02/14/19 04:47	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 08:43	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 15:42	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 18:45	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:53	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 16:13	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AC15S-0.5-1

Lab Sample ID: 720-91105-11
Date Collected: 01/31/19 12:15
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DUP-109

Lab Sample ID: 720-91105-12
Date Collected: 01/31/19 00:00
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	526986	02/06/19 14:08	AYL	TAL IRV
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526987	02/06/19 14:08	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		5	260320	02/14/19 05:10	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 09:05	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527337	02/07/19 20:37	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 18:59	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 22:58	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 16:18	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AC15S-3.5-4

Lab Sample ID: 720-91105-13
Date Collected: 01/31/19 12:15
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	526986	02/06/19 14:32	AYL	TAL IRV
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526987	02/06/19 14:32	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		20	260320	02/14/19 05:34	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 11:13	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 13:30	D1D	TAL IRV

Client Sample ID: DG-AC15S-3.5-4

Lab Sample ID: 720-91105-13

Date Collected: 01/31/19 12:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 20:07	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 23:02	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261966	02/08/19 16:22	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AC15S-7.5-8

Lab Sample ID: 720-91105-14

Date Collected: 01/31/19 12:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			526498	02/03/19 10:47	JB	TAL IRV
Total/NA	Analysis	8260B		100	527268	02/07/19 15:42	AYL	TAL IRV
Total/NA	Prep	5035			526498	02/03/19 10:47	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	527269	02/07/19 15:42	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		50	260320	02/14/19 05:58	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		5	526888	02/06/19 11:41	LMB	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 17:39	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 20:20	JM	TAL IRV
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259950	02/06/19 23:07	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		20	260077	02/08/19 16:27	OBI	TAL PLS
Total/NA	Prep	3050B			259629	02/02/19 08:08	MAA	TAL PLS
Total/NA	Analysis	6010B		20	261966	02/08/19 16:27	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260373	02/14/19 12:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AN13S-0.5-1

Lab Sample ID: 720-91105-15

Date Collected: 01/31/19 13:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	526986	02/06/19 14:57	AYL	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AN13S-0.5-1

Lab Sample ID: 720-91105-15

Date Collected: 01/31/19 13:00
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526987	02/06/19 14:57	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		100	260320	02/14/19 06:21	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		10	526888	02/06/19 12:02	LMB	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 17:10	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 19:40	JM	TAL IRV
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:39	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 12:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: DG-AN13S-3.5-4

Lab Sample ID: 720-91105-16

Date Collected: 01/31/19 13:00
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	526986	02/06/19 15:21	AYL	TAL IRV
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526987	02/06/19 15:21	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		1	260320	02/14/19 01:15	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 11:34	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527335	02/07/19 17:47	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 19:53	JM	TAL IRV
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:43	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 11:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Client Sample ID: DG-AN13S-9.5-10

Lab Sample ID: 720-91105-17

Date Collected: 01/31/19 13:00
Date Received: 01/31/19 18:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	526986	02/06/19 15:46	AYL	TAL IRV
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526987	02/06/19 15:46	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		10	260320	02/14/19 06:45	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 12:18	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 13:45	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:12	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 20:34	JM	TAL IRV
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260384	02/14/19 14:53	OBI	TAL PLS
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260390	02/14/19 16:36	OBI	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		10	260373	02/14/19 12:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Client Sample ID: TB-01.31.19

Lab Sample ID: 720-91105-19

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	527862	02/11/19 14:40	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527863	02/11/19 14:40	WC	TAL IRV

Client Sample ID: DUP-111

Lab Sample ID: 720-91105-20

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B		1	526986	02/06/19 16:11	AYL	TAL IRV
Total/NA	Prep	5035			527049	01/31/19 19:30	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	526987	02/06/19 16:11	AYL	TAL IRV
Total/NA	Prep	3546			259687	02/01/19 16:03	RAR	TAL PLS
Total/NA	Analysis	8270C SIM		2	260320	02/14/19 07:08	MQL	TAL PLS
Total/NA	Prep	3546			526652	02/04/19 12:49	AJP	TAL IRV
Total/NA	Analysis	8015B		1	526644	02/05/19 10:30	MPD	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:14	L1A	TAL IRV
Total/NA	Analysis	8081A		1	527580	02/08/19 16:11	D1D	TAL IRV
Total/NA	Prep	3546			527345	02/07/19 11:14	L1A	TAL IRV
Total/NA	Analysis	8082		1	527620	02/08/19 20:47	JM	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91105-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-111
Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91105-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 12:03	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 12:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	527220	02/06/19 20:53	QTN	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91105-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3546	Solid	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91105-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL IRV
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91105-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91105-1	DG-AS11S-0.5-1	Solid	01/31/19 08:20	01/31/19 18:50
720-91105-2	DG-AS11S-3.5-4	Solid	01/31/19 08:20	01/31/19 18:50
720-91105-3	DG-AS11S-7.5-8	Solid	01/31/19 08:20	01/31/19 18:50
720-91105-4	DG-AW3S-0.5-1	Solid	01/31/19 09:45	01/31/19 18:50
720-91105-5	DG-AW3S-3.5-4	Solid	01/31/19 09:45	01/31/19 18:50
720-91105-6	DG-AY3S-0.5-1	Solid	01/31/19 10:15	01/31/19 18:50
720-91105-7	DG-AY3S-3.5-4	Solid	01/31/19 10:15	01/31/19 18:50
720-91105-8	DG-Y15S-0.5-1	Solid	01/31/19 11:15	01/31/19 18:50
720-91105-9	DG-Y15S-3.5-4	Solid	01/31/19 11:15	01/31/19 18:50
720-91105-10	DG-Y15S-7.5-8	Solid	01/31/19 11:15	01/31/19 18:50
720-91105-11	DG-AC15S-0.5-1	Solid	01/31/19 12:15	01/31/19 18:50
720-91105-12	DUP-109	Solid	01/31/19 00:00	01/31/19 18:50
720-91105-13	DG-AC15S-3.5-4	Solid	01/31/19 12:15	01/31/19 18:50
720-91105-14	DG-AC15S-7.5-8	Solid	01/31/19 12:15	01/31/19 18:50
720-91105-15	DG-AN13S-0.5-1	Solid	01/31/19 13:00	01/31/19 18:50
720-91105-16	DG-AN13S-3.5-4	Solid	01/31/19 13:00	01/31/19 18:50
720-91105-17	DG-AN13S-9.5-10	Solid	01/31/19 13:00	01/31/19 18:50
720-91105-19	TB-01.31.19	Water	01/31/19 00:00	01/31/19 18:50
720-91105-20	DUP-111	Solid	01/31/19 00:00	01/31/19 18:50

eurofins | CEI

Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A192250
Received:02/04/2019
Reported:2/13/2019
Analyst: Megan Fisher

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AS11S-0.5-1(720-91105-1)	A33221	No	None Detected	0.00
DG-AS11S-3.5-4(720-91105-2)	A33222	No	None Detected	0.00
DG-AS11S-7.5-8(720-91105-3)	A33223	No	None Detected	0.00
DG-AW3S-0.5-1(720-91105-4)	A33224	No	None Detected	0.00
DG-AW3S-3.5-4(720-91105-5)	A33225	No	None Detected	0.00
DG-AY3S-0.5-1(720-91105-6)	A33226	No	None Detected	0.00
DG-AY3S-3.5-4(720-91105-7)	A33227	No	None Detected	0.00
DG-Y15S-0.5-1(720-91105-8)	A33228	No	None Detected	0.00
DG-Y15S-3.5-4(720-91105-9)	A33229	No	None Detected	0.00
DG-Y15S-7.5-8(720-91105-10)	A33230	No	None Detected	0.00
DG-AC15S-0.5-1(720-91105-11)	A33231	No	None Detected	0.00
DUP-109(720-91105-12)	A33232	No	None Detected	0.00

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

eurofins | CEI

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AC15S-3.5-4(720-91105-13)	A33233	No	None Detected	0.00
DG-AC15S-7.5-8(720-91105-14)	A33234	No	Chrysotile	<0.25%
DG-AN13S-0.5-1(720-91105-15)	A33235	No	None Detected	0.00
DG-AN13S-3.5-4(720-91105-16)	A33236	No	None Detected	0.00
DG-AN13S-9.5-10(720-91105-17)	A33237	No	None Detected	0.00
DUP-111(720-91105-20)	A33238	No	None Detected	0.00

REVIEWED BY: _____

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

A192250 (78) A33721 - A33740 38

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41026.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/14/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AS11S-0.5-1 (720-91105-1)	1/31/19	08:20 Pacific		Solid			X	1	
DG-AS11S-3.5-4 (720-91105-2)	1/31/19	08:20 Pacific		Solid			X	1	
DG-AS11S-7.5-8 (720-91105-3)	1/31/19	08:20 Pacific		Solid			X	1	
DG-AW3S-0.5-1 (720-91105-4)	1/31/19	09:45 Pacific		Solid			X	1	
DG-AW3S-3.5-4 (720-91105-5)	1/31/19	09:45 Pacific		Solid			X	1	
DG-AY3S-0.5-1 (720-91105-6)	1/31/19	10:15 Pacific		Solid			X	1	
DG-AY3S-3.5-4 (720-91105-7)	1/31/19	10:15 Pacific		Solid			X	1	
DG-Y15S-0.5-1 (720-91105-8)	1/31/19	11:15 Pacific		Solid			X	1	
DG-Y15S-3.5-4 (720-91105-9)	1/31/19	11:15 Pacific		Solid			X	1	

EUROFINS CEI, INC
SAMPLES ACCEPTED

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/31/19 1335	TAPLS		2/4 8:N	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

IA192250 (28)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41026.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/14/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-Y15S-7.5-8 (720-91105-10)	1/31/19	11:15 Pacific		Solid			X	1	
DG-AC15S-0.5-1 (720-91105-11)	1/31/19	12:15 Pacific		Solid			X	1	
DUP-109 (720-91105-12)	1/31/19	Pacific		Solid			X	1	
DG-AC15S-3.5-4 (720-91105-13)	1/31/19	12:15 Pacific		Solid			X	1	
DG-AC15S-7.5-8 (720-91105-14)	1/31/19	12:15 Pacific		Solid			X	1	
DG-AN13S-0.5-1 (720-91105-15)	1/31/19	13:00 Pacific		Solid			X	1	
DG-AN13S-3.5-4 (720-91105-16)	1/31/19	13:00 Pacific		Solid			X	1	
DG-AN13S-9.5-10 (720-91105-17)	1/31/19	13:00 Pacific		Solid			X	1	
DUP-111 (720-91105-20)	1/31/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/31/19 1235	TAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
720-91105
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

Chain of Custody Record

9 1886206

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31 January 2019	COC No: 1 of 2 COCs
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	Sampler: Naomi Hemsfeld
1111 Broadway 6th Floor	Analysis Turnaround Time			For Lab Use Only:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91105-01 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1. DG-AS11s-0.5-1	31 Jan. 2019	0820	G	S	7	N		X	X	X	X	X	X	X	
2. DG-AS11s-3.5-4		0820													
3 DG-AS11s-7.5-8		0820													
4. DG-AW3s-0.5-1		0945													
5. DG-AW3s-3.5-4		0945													
6. DG-AY3s-0.5-1		1015													
7. DG-AY3s-3.5-4		1015													
8. DG-Y15s-0.5-1		1115													
9. DG-Y15s-3.5-4		1115													
10. DG-Y15s-7.5-8		1115													
11. DG-AC15s-0.5-1		1215													
12. DUP-109	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.5°C, 1.5°C, 0.8°C, 0.0°C, 2.2°C, 4.1°C

Custody Seals Intact	☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd: ____		Therm ID No. ____	
Relinquished by		Company: GeoSyntec	Date/Time: 16.45 31 Jan. 2019	Received by		Company: TA Pleas	Date/Time: 1-31-19 16.25
Relinquished by		Company: TA Pleas	Date/Time: 1-31-19	Received by		Company	Date/Time
Relinquished by		Company	Date/Time.	Received in Laboratory by		Company: TA-PLS	Date/Time: 1-31-19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600 3002

Chain of Custody Record

720-91105

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

155206

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Niamh Hennefeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13. DG-AC15-0 (MAF) -3.5-4	31 Jan. 2019	1215	G	S	7	N		X	X	X	X	X	X	X	
14. DG-AC15-7.5-8		1215													
15. DG-AN13-0.5-1		1300													
16. DG-AN13-3.5-4		1300													
17. DG-AN13-9.5-10		1300													
18. FB-01.31.19		—			2										
19. TB-01.31.19		—			2										
20. DUP-111	31 Jan. 2019	—	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C) Obs'd: ____ Corr'd: ____		Therm ID No: ____
Relinquished by: Niamh Fahlin	Company: Geosyntec	Date/Time: 16:25 31 Jan. 2019	Received by:	Company: TA PLS	Date/Time: 1-31-19 16:25
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19 18:50	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-31-19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Geosyntec
THVR. Terra Chgs
720-91105

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC04

FedEx Express Package(s) - Dropped Off
478645743300

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 31, 2019 4:46:42 PM

720-91105-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3300	COC No: 720-41027 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave. Suite 100,	Due Date Requested: 2/4/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_P_FW_7 8260-(MOD) VOCs + GRO	8260B_LL/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B/CA_LUFTMS/5035A 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/8030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/8030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AS11S-0.5-1 (720-91105-1)	1/31/19	08:20 Pacific		Solid	X	X				
DG-AS11S-3.5-4 (720-91105-2)	1/31/19	08:20 Pacific		Solid	X	X				
DG-AS11S-7.5-8 (720-91105-3)	1/31/19	08:20 Pacific		Solid	X	X				
DG-AW3S-0.5-1 (720-91105-4)	1/31/19	09:45 Pacific		Solid	X	X				
DG-AW3S-3.5-4 (720-91105-5)	1/31/19	09:45 Pacific		Solid	X	X				
DG-AY3S-0.5-1 (720-91105-6)	1/31/19	10:15 Pacific		Solid	X	X				
DG-AY3S-3.5-4 (720-91105-7)	1/31/19	10:15 Pacific		Solid	X	X				
DG-Y15S-0.5-1 (720-91105-8)	1/31/19	11:15 Pacific		Solid	X	X				
DG-Y15S-3.5-4 (720-91105-9)	1/31/19	11:15 Pacific		Solid	X	X				

720-91105 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements: 4786 4574 3300
Empty Kit Relinquished by:	Date: Time: Method of Shipment: FED-EX Delivered by RICH

Relinquished by:	Date/Time: 1/31/19 16:46	Company TA-PLS	Received by:	Date/Time: 2/1/19 10:30	Company TA-PLS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☒ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0 / 3.4 / IR-89

Ver: 09/20/2016

Encores Terracores Frozen Date: 2/1/19 Time: 10:45 Initials: AS

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645743.3	COC No: 720-41027.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8082/3546 Standard/ 8082 PCB Filter	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B_LL/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-Y15S-7.5-8 (720-91105-10)	1/31/19	11:15 Pacific		Solid	X	X	X			4) 1/31/19
DG-AC15S-0.5-1 (720-91105-11)	1/31/19	12:15 Pacific		Solid	X	X	X			
DUP-109 (720-91105-12)	1/31/19	Pacific		Solid	X	X	X			
DG-AC15S-3.5-4 (720-91105-13)	1/31/19	12:15 Pacific		Solid	X	X	X			
DG-AC15S-7.5-8 (720-91105-14)	1/31/19	12:15 Pacific		Solid	X	X	X			
DG-AN13S-0.5-1 (720-91105-15)	1/31/19	13:00 Pacific		Solid	X	X	X			
DG-AN13S-3.5-4 (720-91105-16)	1/31/19	13:00 Pacific		Solid	X	X	X			
DG-AN13S-9.5-10 (720-91105-17)	1/31/19	13:00 Pacific		Solid	X	X	X			
FB-01.31.19 (720-91105-18)	1/31/19	Pacific		Water				X	X	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment: FED-EX 1/0	
Relinquished by:	Date/Time: 1/31/19 16:46	Company: TA-PLS	Received by:	Date/Time: 2/1/19 10:30	Company: TA/RU		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.0/3.4 IR 89				

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3300	COC No: 720-41027 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Bnsbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

1/31/19 Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8082/3546 Standard 8082A (GC)	8015B(M)/3546 (MOD) 8015 (MOD) Standard GRO and DRO	8015B(M)/3546 (MOD) 8015 (MOD) Standard GRO and MRO) Organics	Moisture - Percent Moisture	8260B_LUFTMS/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LUFTMS/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
TB-01.31.19 (720-91105-19)	1/31/19	Pacific		Water							X	X		check for 2 phases
DUP-111 (720-91105-20)	1/31/19	Pacific		Solid			X		X	X				4

1/31/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification Unconfirmed		**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX 2 Day
Relinquished by:	Date/Time: 1/31/19 16:46	Company: JA-PLS	Received by:	Date/Time: 2/1/19 10:30	Company: TA-RV
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes A No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0/3.4 IR-8			

Ver: 09.20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91105

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188206

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31 Jan 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nawal Hawkins
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☑ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Project Name: Brisbane OU2 Investigation				
Site: Brisbane OU2				720-91105-01 Chain of Custody
P O # WG2619/ TA project # 72013947				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1. DG-AS11s-0.5-1	31 Jan. 2019	0820	G	S	7	N		X	X	X	X	X	X	X	
2. DG-AS11s-3.5-4		0820													
3. DG-AS11s-7.5-8		0820													
4. DG-AW3s-0.5-1		0945													
5. DG-AW3s-3.5-4		0945													
6. DG-AY3s-0.5-1		1015													
7. DG-AY3s-3.5-4		1015													
8. DG-Y15s-0.5-1		1115													
9. DG-Y15s-3.5-4		1115													
10. DG-Y15s-7.5-8		1115													
11. DG-AC15s-0.5-1		1215													
12. DUP-109	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
1.5°C, 1.5°C, 0.8°C, 0.0°C, 2.2°C, 4.1°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company: Geosyntec	Date/Time: 16:25 31 Jan. 2019	Received by:	Company: TA PLS	Date/Time: 1-31-19 16:25
Relinquished by:	Company: TA PLS	Date/Time: 1850 1-31-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-31-19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

720-91105

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TA # 188206

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Naomi Hendfield
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahnles@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
13. DG-AC15-0 (EAF) -3.5-4	31 Jan. 2019	1215	G	S	7	N		X	X	X	X	X	X	X	
14. DG-AC15-7.5-8		1215													
15. DG-AN13-0.5-1		1300													
16. DG-AN13-3.5-4		1300													
17. DG-AN13-9.5-10		1300													
18. FB-01.31.19		—			2										
19. TB-01.31.19		—			2										
20. DUP-111	31 Jan. 2019	—	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C) Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Nate Fahlin	Company: Geosyntec	Date/Time: 16:25 31 Jan. 2019	Received by:	Company: TA PLS	Date/Time: 1-31-19 16:25
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19 18:50	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company: TA PLS	Date/Time: 1-31-19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

GEOSYNTEC
THUR. TERRA CHES
720-9/1/05

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Jan 31, 2019 4:46:42 PM

Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-41027.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
			Preservation Code:													
DG-AS11S-0.5-1 (720-91105-1)	1/31/19	08:20 Pacific		Solid			X	X	X	X	X	X			2	
DG-AS11S-3.5-4 (720-91105-2)	1/31/19	08:20 Pacific		Solid			X	X	X	X	X	X			2	
DG-AS11S-7.5-8 (720-91105-3)	1/31/19	08:20 Pacific		Solid			X	X	X	X	X	X			2	
DG-AW3S-0.5-1 (720-91105-4)	1/31/19	09:45 Pacific		Solid			X	X	X	X	X	X			2	
DG-AW3S-3.5-4 (720-91105-5)	1/31/19	09:45 Pacific		Solid			X	X	X	X	X	X			2	
DG-AY3S-0.5-1 (720-91105-6)	1/31/19	10:15 Pacific		Solid			X	X	X	X	X	X			2	
DG-AY3S-3.5-4 (720-91105-7)	1/31/19	10:15 Pacific		Solid			X	X	X	X	X	X			2	
DG-Y15S-0.5-1 (720-91105-8)	1/31/19	11:15 Pacific		Solid			X	X	X	X	X	X			2	
DG-Y15S-3.5-4 (720-91105-9)	1/31/19	11:15 Pacific		Solid			X	X	X	X	X	X			2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 2/01/19 1233	Company: TAPLS	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/2/19 1045	Company: TA-PLS	
Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: QS 4786 4574 3491		Cooler Temperature(s) °C and Other Remarks: 2.8/2.8 IR-88			

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-41027.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_CA_LUFTMS/5035A_F_FW_7 8260-(MOD) VOCs + 2-BrO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD)-VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-Y15S-7.5-8 (720-91105-10)	1/31/19	11:15 Pacific		Solid			X	X	X	X	X	X			2	
DG-AC15S-0.5-1 (720-91105-11)	1/31/19	12:15 Pacific		Solid			X	X	X	X	X	X			2	
DUP-109 (720-91105-12)	1/31/19	Pacific		Solid			X	X	X	X	X	X			2	
DG-AC15S-3.5-4 (720-91105-13)	1/31/19	12:15 Pacific		Solid			X	X	X	X	X	X			2	
DG-AC15S-7.5-8 (720-91105-14)	1/31/19	12:15 Pacific		Solid			X	X	X	X	X	X			2	
DG-AN13S-0.5-1 (720-91105-15)	1/31/19	13:00 Pacific		Solid			X	X	X	X	X	X			2	
DG-AN13S-3.5-4 (720-91105-16)	1/31/19	13:00 Pacific		Solid			X	X	X	X	X	X			2	
DG-AN13S-9.5-10 (720-91105-17)	1/31/19	13:00 Pacific		Solid			X	X	X	X	X	X			2	
~~FB-01.31.19 (720-91105-18)~~	~~1/31/19~~	~~Pacific~~		Water									X	X	2	check for 2 phases

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 2/01/19 1233	Company: TAPLS	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/2/19 1047	Company: TAP - LRC	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41027.3
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LL/5035A_F_FW_7 8260-(MOD) VOC+5 GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOC+	8260BCA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
Preservation Code:																
~~TB-01.31.19 (720-91105-19)~~	~~1/31/19~~	~~Pacific~~		~~Water~~									X	X		check for 2 phases ~~2/1/31/19~~
DUP-111 (720-91105-20)	1/31/19	Pacific		Solid			X	X	X	X	X	X			2	2 2/1/31/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/1/19 1233	Company: TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/2/19 1015	Company: TAL-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91105-1

Login Number: 91105
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91105-1

Login Number: 91105
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins TestAmerica, Irvine
List Creation: 02/01/19 05:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91105-1

Login Number: 91105
List Number: 3
Creator: Ornelas, Olga

List Source: Eurofins TestAmerica, Irvine
List Creation: 02/01/19 05:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91105-1

Login Number: 91105
List Number: 4
Creator: Robb, Kathleen

List Source: Eurofins TestAmerica, Irvine
List Creation: 02/18/19 03:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91105-F-10-A	DG-Y15S-7.5-8	12	0.37 J
720-91105-F-11-A	DG-AC15S-0.5-1	18	ND
720-91105-F-12-A	DUP-109	31	ND
720-91105-F-13-A	DG-AC15S-3.5-4	15	ND
720-91105-F-14-A	DG-AC15S-7.5-8	16	ND
720-91105-F-1-A	DG-AS11S-0.5-1	8.3	ND
720-91105-F-2-A	DG-AS11S-3.5-4	17	ND
720-91105-F-3-A	DG-AS11S-7.5-8	14	ND
720-91105-F-4-A	DG-AW3S-0.5-1	28	ND
720-91105-F-5-A	DG-AW3S-3.5-4	23	ND
720-91105-F-6-A	DG-AY3S-0.5-1	34	ND
720-91105-F-7-A	DG-AY3S-3.5-4	17	ND
720-91105-F-8-A	DG-Y15S-0.5-1	16	ND
720-91105-F-9-A	DG-Y15S-3.5-4	26	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa Brewer
Quality Assurance Manager

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91106-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/7/2019 10:50:51 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91106-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91106-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91106-1

Comments
Revision created to correct sample ID for Dup per client request. Revision will also include new thallium results. See client email and letter for thallium in correspondence.

Receipt
The samples were received on 1/31/2019 6:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.0º C, 0.8º C, 1.5º C, 1.5º C, 2.2º C and 4.1º C.

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AB14S-0.5-1 (720-91106-1), DG-AB14S-3.5-4 (720-91106-2), DG-Y13S-0.5-1 (720-91106-3), DG-Y13S-3.5-4 (720-91106-4), DG-Y14S-0.5-1 (720-91106-5), DG-Y14S-3.5-4 (720-91106-6), DG-W13S-0.5-1 (720-91106-7), DG-W13S-3.5-4 (720-91106-8), DG-W13S-7.5-8 (720-91106-9), DUP-101 (720-91106-10), DUP-93 (720-91106-11) and DUP-102 (720-91106-12). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259672 and analytical batch 720-260374 contained Beryllium, Antimony, and Selenium above the method detection limit. This target analyte concentration were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259672 and analytical batch 720-260374 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for Barium-133%, Beryllium-128%, Chromium-128%, Copper-127%, Molybdenum-126%, and Vanadium-192% associated with batch 720-260374 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260374 was outside control limits for Cobalt-16%, Chromium-15%, Nickel-16% and Vanadium-11%: (720-91106-A-6-F SD)

Method 7471A: The method blank for preparation batch 720-259641 and analytical batch 720-260373 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7471A: The matrix spike duplicate (MSD) recovery and precision for preparation batch 720-259674 and analytical batch 720-260381 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DG-AB14S-0.5-1 — Lab Sample ID: 720-91106-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.4	B	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	3.0	J	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	64		1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.43	B	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	13		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	6.8		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	130		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	270		1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	0.73	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	99		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.68	J B	3.9	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	76		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.031	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB14S-3.5-4 — Lab Sample ID: 720-91106-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.4	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	6.3		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	35		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J B	0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	15		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.8		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	220		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	950		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.29	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	77		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.6	J B	3.8	0.57	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	72		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.034	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y13S-0.5-1 — Lab Sample ID: 720-91106-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8	B	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	4.1		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	69		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.45	B	0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.41		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	42		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	5.6		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	34		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	120		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	25		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J B	2.8	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	140		4.3	1.8	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y13S-0.5-1 (Continued)

Lab Sample ID: 720-91106-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.047	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y13S-3.5-4

Lab Sample ID: 720-91106-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.5	B	3.5	0.59	mg/Kg	10		6010B	Total/NA
Arsenic	15		7.1	0.60	mg/Kg	10		6010B	Total/NA
Barium	800		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.42	B	0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	2.2		0.89	0.088	mg/Kg	10		6010B	Total/NA
Chromium	29		3.5	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	7.4		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	510		11	5.1	mg/Kg	10		6010B	Total/NA
Lead	2700		3.5	0.74	mg/Kg	10		6010B	Total/NA
Molybdenum	0.42	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	23		3.5	0.36	mg/Kg	10		6010B	Total/NA
Selenium	3.0	J B	7.1	1.1	mg/Kg	10		6010B	Total/NA
Silver	2.3		1.8	0.36	mg/Kg	10		6010B	Total/NA
Thallium	1.6	J	3.5	1.0	mg/Kg	10		6010B	Total/NA
Vanadium	31		3.5	0.48	mg/Kg	10		6010B	Total/NA
Zinc	1900		11	4.5	mg/Kg	10		6010B	Total/NA
Mercury	8.3	B	0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-Y14S-0.5-1

Lab Sample ID: 720-91106-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1	B	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	3.5		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	74		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.37	B	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.37	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	23		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	110		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	160		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.28	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	19		1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	72		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	120		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Y14S-3.5-4

Lab Sample ID: 720-91106-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J B F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	3.3	J	3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	89	F1	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.72	B	0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	120	F1	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	31		5.8	2.7	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Y14S-3.5-4 (Continued)
Lab Sample ID: 720-91106-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	130	F1	1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.81	J B	3.8	0.58	mg/Kg	4		6010B	Total/NA
Silver	0.27	J	0.96	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	63	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	61		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.37	F1 F2	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W13S-0.5-1
Lab Sample ID: 720-91106-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	8.6		3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	74		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.28	J B	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.34	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	19		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	110		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	140		1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	22		1.9	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	96		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W13S-3.5-4
Lab Sample ID: 720-91106-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.85	J B	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	2.1	J	2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	110		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.59	B	0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	99		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	27		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	5.5		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	130		1.4	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	52		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.83		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-W13S-7.5-8
Lab Sample ID: 720-91106-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9	B	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	8.7		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	63		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.80	B	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	51		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.63	0.063	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W13S-7.5-8 (Continued)
Lab Sample ID: 720-91106-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	45		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	21		1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	52		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J B	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	96		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.63		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-101
Lab Sample ID: 720-91106-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5	B	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	2.1	J	2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	48		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.27	J B	0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	0.33	J	0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	17		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	130		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	110		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	11		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J B	2.9	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	90		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	88		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-129
Lab Sample ID: 720-91106-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.95	J B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	3.3	J	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	58		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.33	J B	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	37		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	5.9		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	27		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	91		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	24		1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.21	J	0.90	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	33		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	110		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.063		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-102
Lab Sample ID: 720-91106-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.6	B	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	5.0		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	120		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	J B	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.55		0.42	0.042	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-102 (Continued) Lab Sample ID: 720-91106-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	14		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	170		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	640		1.7	0.35	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	73		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J B	3.4	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	68		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.015		0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DG-AB14S-0.5-1

Date Collected: 01/31/19 14:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.4	B	1.9	0.32	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Arsenic	3.0	J	3.9	0.33	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Barium	64		1.9	0.28	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Beryllium	0.43	B	0.39	0.13	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Cadmium	0.23	J	0.49	0.048	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Chromium	13		1.9	0.21	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Cobalt	6.8		0.78	0.078	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Copper	130		5.8	2.8	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Lead	270		1.9	0.41	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Molybdenum	0.73	J	1.9	0.25	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Nickel	99		1.9	0.20	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Selenium	0.68	J B	3.9	0.58	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Silver	ND		0.97	0.20	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Thallium	ND		1.9	0.56	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Vanadium	130		1.9	0.26	mg/Kg		02/13/19 08:41	02/14/19 10:37	4
Zinc	76		5.8	2.5	mg/Kg		02/13/19 08:41	02/14/19 10:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	B	0.015	0.0022	mg/Kg		02/13/19 18:00	02/14/19 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.0		0.1	0.05	%			02/01/19 14:45	1

Client Sample ID: DG-AB14S-3.5-4 Lab Sample ID: 720-91106-2

Date Collected: 01/31/19 14:30 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.4	B	1.9	0.31	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Arsenic	6.3		3.8	0.32	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Barium	35		1.9	0.27	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Beryllium	0.26	J B	0.38	0.12	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Cadmium	1.7		0.47	0.047	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Chromium	15		1.9	0.20	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Cobalt	5.8		0.75	0.075	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Copper	220		5.7	2.7	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Lead	950		1.9	0.40	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Molybdenum	0.29	J	1.9	0.24	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Nickel	77		1.9	0.19	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Selenium	2.6	J B	3.8	0.57	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Silver	ND		0.94	0.19	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Thallium	ND		1.9	0.55	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Vanadium	67		1.9	0.26	mg/Kg		02/13/19 08:41	02/14/19 10:42	4
Zinc	72		5.7	2.4	mg/Kg		02/13/19 08:41	02/14/19 10:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/14/19 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		0.1	0.05	%			02/01/19 14:45	1

Client Sample ID: DG-Y13S-0.5-1 Lab Sample ID: 720-91106-3

Date Collected: 01/31/19 14:50 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8	B	1.4	0.24	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Arsenic	4.1		2.8	0.24	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Barium	69		1.4	0.20	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Beryllium	0.45	B	0.28	0.092	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Cadmium	0.41		0.35	0.035	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Chromium	42		1.4	0.15	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Cobalt	5.6		0.57	0.057	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Copper	34		4.3	2.0	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Lead	120		1.4	0.30	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Molybdenum	0.25	J	1.4	0.18	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Nickel	25		1.4	0.14	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Selenium	1.0	J B	2.8	0.43	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Silver	ND		0.71	0.14	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Thallium	ND		1.4	0.41	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Vanadium	35		1.4	0.19	mg/Kg		02/13/19 08:41	02/14/19 10:46	4
Zinc	140		4.3	1.8	mg/Kg		02/13/19 08:41	02/14/19 10:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047	B	0.017	0.0025	mg/Kg		02/13/19 18:00	02/14/19 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DG-Y13S-3.5-4

Date Collected: 01/31/19 14:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.5	B	3.5	0.59	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Arsenic	15		7.1	0.60	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Barium	800		1.4	0.20	mg/Kg		02/13/19 08:41	02/14/19 11:01	4
Beryllium	0.42	B	0.28	0.092	mg/Kg		02/13/19 08:41	02/14/19 11:01	4
Cadmium	2.2		0.89	0.088	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Chromium	29		3.5	0.38	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Cobalt	7.4		1.4	0.14	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Copper	510		11	5.1	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Lead	2700		3.5	0.74	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Molybdenum	0.42	J	1.4	0.18	mg/Kg		02/13/19 08:41	02/14/19 11:01	4
Nickel	23		3.5	0.36	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Selenium	3.0	J B	7.1	1.1	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Silver	2.3		1.8	0.36	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Thallium	1.6	J	3.5	1.0	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Vanadium	31		3.5	0.48	mg/Kg		02/13/19 08:41	02/14/19 16:40	10
Zinc	1900		11	4.5	mg/Kg		02/13/19 08:41	02/14/19 16:40	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.3	B	0.15	0.022	mg/Kg		02/13/19 18:00	02/14/19 12:18	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.1		0.1	0.05	%			02/01/19 14:45	1

Client Sample ID: DG-Y14S-0.5-1 Lab Sample ID: 720-91106-5

Date Collected: 01/31/19 15:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1	B	1.8	0.29	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Arsenic	3.5		3.5	0.30	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Barium	74		1.8	0.25	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Beryllium	0.37	B	0.35	0.12	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Cadmium	0.37	J	0.44	0.044	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Chromium	23		1.8	0.19	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Cobalt	11		0.71	0.071	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Copper	110		5.3	2.5	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Lead	160		1.8	0.37	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Molybdenum	0.28	J	1.8	0.23	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Nickel	19		1.8	0.18	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Selenium	ND		3.5	0.53	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Silver	ND		0.88	0.18	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Thallium	ND		1.8	0.51	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Vanadium	72		1.8	0.24	mg/Kg		02/13/19 08:41	02/14/19 11:06	4
Zinc	120		5.3	2.2	mg/Kg		02/13/19 08:41	02/14/19 11:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.017	0.0025	mg/Kg		02/13/19 17:30	02/14/19 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.0		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DG-Y14S-3.5-4

Lab Sample ID: 720-91106-6

Date Collected: 01/31/19 15:15

Matrix: Solid

Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J B F1	1.9	0.32	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Arsenic	3.3	J	3.8	0.33	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Barium	89	F1	1.9	0.27	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Beryllium	0.72	B	0.38	0.13	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Cadmium	0.27	J	0.48	0.048	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Chromium	120	F1	1.9	0.20	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Cobalt	19		0.77	0.077	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Copper	31		5.8	2.7	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Lead	10		1.9	0.40	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Molybdenum	ND		1.9	0.25	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Nickel	130	F1	1.9	0.20	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Selenium	0.81	J B	3.8	0.58	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Silver	0.27	J	0.96	0.19	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Thallium	ND		1.9	0.56	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Vanadium	63	F1	1.9	0.26	mg/Kg		02/13/19 08:41	02/14/19 10:32	4
Zinc	61		5.8	2.4	mg/Kg		02/13/19 08:41	02/14/19 10:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37	F1 F2	0.016	0.0023	mg/Kg		02/13/19 17:30	02/14/19 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DG-W13S-0.5-1

Date Collected: 01/31/19 15:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	B	1.9	0.31	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Arsenic	8.6		3.7	0.32	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Barium	74		1.9	0.27	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Beryllium	0.28	J B	0.37	0.12	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Cadmium	0.34	J	0.47	0.046	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Chromium	19		1.9	0.20	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Cobalt	9.4		0.75	0.075	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Copper	110		5.6	2.7	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Lead	140		1.9	0.39	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Molybdenum	ND		1.9	0.24	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Nickel	22		1.9	0.19	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Selenium	ND		3.7	0.56	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Silver	ND		0.93	0.19	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Thallium	ND		1.9	0.54	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Vanadium	73		1.9	0.25	mg/Kg		02/13/19 08:41	02/14/19 11:10	4
Zinc	96		5.6	2.4	mg/Kg		02/13/19 08:41	02/14/19 11:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0023	mg/Kg		02/13/19 17:30	02/14/19 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.9		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91106-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-W13S-3.5-4
Lab Sample ID: 720-91106-8
Date Collected: 01/31/19 15:30
Matrix: Solid
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.85	J B	1.4	0.24	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Arsenic	2.1	J	2.9	0.24	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Barium	110		1.4	0.20	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Beryllium	0.59	B	0.29	0.094	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Cadmium	0.21	J	0.36	0.036	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Chromium	99		1.4	0.15	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Cobalt	16		0.58	0.058	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Copper	27		4.3	2.0	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Lead	5.5		1.4	0.30	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Molybdenum	ND		1.4	0.18	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Nickel	130		1.4	0.15	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Selenium	ND		2.9	0.43	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Silver	ND		0.72	0.15	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Thallium	ND		1.4	0.42	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Vanadium	64		1.4	0.20	mg/Kg		02/13/19 08:41	02/14/19 11:15	4
Zinc	52		4.3	1.8	mg/Kg		02/13/19 08:41	02/14/19 11:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.83		0.014	0.0021	mg/Kg		02/13/19 17:30	02/14/19 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.05	%			02/01/19 14:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DG-W13S-7.5-8
Date Collected: 01/31/19 15:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-9
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9	B	1.6	0.26	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Arsenic	8.7		3.1	0.27	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Barium	63		1.6	0.22	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Beryllium	0.80	B	0.31	0.10	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Cadmium	0.27	J	0.39	0.039	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Chromium	51		1.6	0.17	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Cobalt	15		0.63	0.063	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Copper	45		4.7	2.2	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Lead	21		1.6	0.33	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Molybdenum	ND		1.6	0.20	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Nickel	52		1.6	0.16	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Selenium	1.3	J B	3.1	0.47	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Silver	ND		0.78	0.16	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Thallium	ND		1.6	0.45	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Vanadium	44		1.6	0.21	mg/Kg		02/13/19 08:41	02/14/19 11:20	4
Zinc	96		4.7	2.0	mg/Kg		02/13/19 08:41	02/14/19 11:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.63		0.015	0.0021	mg/Kg		02/13/19 17:30	02/14/19 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.0		0.1	0.05	%			02/01/19 15:22	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DUP-101

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	B	1.4	0.24	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Arsenic	2.1	J	2.9	0.24	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Barium	48		1.4	0.20	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Beryllium	0.27	J B	0.29	0.093	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Cadmium	0.33	J	0.36	0.035	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Chromium	17		1.4	0.15	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Cobalt	11		0.57	0.057	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Copper	130		4.3	2.0	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Lead	110		1.4	0.30	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Molybdenum	ND		1.4	0.18	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Nickel	11		1.4	0.15	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Selenium	1.2	J B	2.9	0.43	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Silver	ND		0.71	0.14	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Thallium	ND		1.4	0.41	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Vanadium	90		1.4	0.19	mg/Kg		02/13/19 08:41	02/14/19 11:25	4
Zinc	88		4.3	1.8	mg/Kg		02/13/19 08:41	02/14/19 11:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.015	0.0022	mg/Kg		02/13/19 17:30	02/14/19 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		0.1	0.05	%			02/01/19 15:22	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DUP-129

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-11

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.95	J B	1.8	0.30	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Arsenic	3.3	J	3.6	0.31	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Barium	58		1.8	0.26	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Beryllium	0.33	J B	0.36	0.12	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Cadmium	0.36	J	0.45	0.045	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Chromium	37		1.8	0.19	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Cobalt	5.9		0.72	0.072	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Copper	27		5.4	2.6	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Lead	91		1.8	0.38	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Molybdenum	ND		1.8	0.23	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Nickel	24		1.8	0.18	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Selenium	ND		3.6	0.54	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Silver	0.21	J	0.90	0.18	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Thallium	ND		1.8	0.52	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Vanadium	33		1.8	0.25	mg/Kg		02/13/19 08:41	02/14/19 11:29	4
Zinc	110		5.4	2.3	mg/Kg		02/13/19 08:41	02/14/19 11:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.016	0.0024	mg/Kg		02/13/19 17:30	02/14/19 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.9		0.1	0.05	%			02/01/19 15:22	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DUP-102

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.6	B	1.7	0.28	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Arsenic	5.0		3.4	0.29	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Barium	120		1.7	0.24	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Beryllium	0.26	J B	0.34	0.11	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Cadmium	0.55		0.42	0.042	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Chromium	14		1.7	0.18	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Cobalt	5.2		0.67	0.067	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Copper	170		5.0	2.4	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Lead	640		1.7	0.35	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Molybdenum	0.26	J	1.7	0.22	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Nickel	73		1.7	0.17	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Selenium	0.54	J B	3.4	0.50	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Silver	ND		0.84	0.17	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Thallium	ND		1.7	0.49	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Vanadium	70		1.7	0.23	mg/Kg		02/13/19 08:41	02/14/19 11:34	4
Zinc	68		5.0	2.1	mg/Kg		02/13/19 08:41	02/14/19 11:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015		0.015	0.0023	mg/Kg		02/13/19 17:30	02/14/19 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.7		0.1	0.05	%			02/01/19 15:22	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259672/1-A
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.196	J	0.50	0.083	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Arsenic	ND		1.0	0.085	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Barium	ND		0.50	0.071	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Beryllium	0.0359	J	0.10	0.033	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Cadmium	ND		0.13	0.012	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Chromium	ND		0.50	0.053	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Cobalt	ND		0.20	0.020	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Copper	ND		1.5	0.71	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Lead	ND		0.50	0.11	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Nickel	ND		0.50	0.051	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Selenium	0.236	J	1.0	0.15	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Silver	ND		0.25	0.051	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Thallium	ND		0.50	0.15	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Vanadium	ND		0.50	0.068	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Zinc	ND		1.5	0.64	mg/Kg		02/13/19 08:41	02/14/19 10:04	1

Lab Sample ID: LCS 720-259672/2-A
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.5		mg/Kg		99	80 - 120
Arsenic	50.0	50.9		mg/Kg		102	80 - 120
Barium	50.0	53.5		mg/Kg		107	80 - 120
Beryllium	50.0	52.7		mg/Kg		105	80 - 120
Cadmium	50.0	51.6		mg/Kg		103	80 - 120
Chromium	50.0	51.5		mg/Kg		103	80 - 120
Cobalt	50.0	51.8		mg/Kg		104	80 - 120
Copper	50.0	52.4		mg/Kg		105	80 - 120
Lead	50.0	52.0		mg/Kg		104	80 - 120
Molybdenum	50.0	53.3		mg/Kg		107	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	49.6		mg/Kg		99	80 - 120
Silver	25.0	25.1		mg/Kg		100	80 - 120
Thallium	50.0	52.1		mg/Kg		104	80 - 120
Vanadium	50.0	52.2		mg/Kg		104	80 - 120
Zinc	50.0	50.9		mg/Kg		102	80 - 120

Lab Sample ID: 720-91106-6 MS
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: DG-Y14S-3.5-4
Prep Type: Total/NA
Prep Batch: 259672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.2	J B F1	48.1	16.3	F1	mg/Kg		31	75 - 125
Arsenic	3.3	J	48.1	50.6		mg/Kg		98	75 - 125
Barium	89	F1	48.1	154	F1	mg/Kg		136	75 - 125
Beryllium	0.72	B	48.1	54.6		mg/Kg		112	75 - 125
Cadmium	0.27	J	48.1	49.8		mg/Kg		103	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91106-6 MS — **Client Sample ID: DG-Y14S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260374 — **Prep Batch: 259672**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	120	F1	48.1	154	F1	mg/Kg		62	75 - 125
Cobalt	19		48.1	67.5		mg/Kg		100	75 - 125
Copper	31		48.1	85.4		mg/Kg		113	75 - 125
Lead	10		48.1	59.2		mg/Kg		102	75 - 125
Molybdenum	ND		48.1	46.8		mg/Kg		97	75 - 125
Nickel	130	F1	48.1	165	F1	mg/Kg		71	75 - 125
Selenium	0.81	J B	48.1	47.3		mg/Kg		97	75 - 125
Silver	0.27	J	24.0	25.6		mg/Kg		105	75 - 125
Thallium	ND		48.1	46.3		mg/Kg		96	75 - 125
Vanadium	63	F1	48.1	126	F1	mg/Kg		132	75 - 125
Zinc	61		48.1	108		mg/Kg		99	75 - 125

Lab Sample ID: 720-91106-6 MSD — **Client Sample ID: DG-Y14S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260374 — **Prep Batch: 259672**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.2	J B F1	49.0	18.8	F1	mg/Kg		36	75 - 125	15	20
Arsenic	3.3	J	49.0	53.1		mg/Kg		102	75 - 125	5	20
Barium	89	F1	49.0	160	F1	mg/Kg		147	75 - 125	4	20
Beryllium	0.72	B	49.0	61.3		mg/Kg		124	75 - 125	11	20
Cadmium	0.27	J	49.0	54.5		mg/Kg		111	75 - 125	9	20
Chromium	120	F1	49.0	169		mg/Kg		92	75 - 125	9	20
Cobalt	19		49.0	72.5		mg/Kg		109	75 - 125	7	20
Copper	31		49.0	88.2		mg/Kg		117	75 - 125	3	20
Lead	10		49.0	60.4		mg/Kg		103	75 - 125	2	20
Molybdenum	ND		49.0	51.0		mg/Kg		104	75 - 125	9	20
Nickel	130	F1	49.0	175		mg/Kg		89	75 - 125	6	20
Selenium	0.81	J B	49.0	51.5		mg/Kg		103	75 - 125	9	20
Silver	0.27	J	24.5	27.3		mg/Kg		110	75 - 125	6	20
Thallium	ND		49.0	52.7		mg/Kg		108	75 - 125	13	20
Vanadium	63	F1	49.0	131	F1	mg/Kg		139	75 - 125	4	20
Zinc	61		49.0	107		mg/Kg		95	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259641/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260373 — **Prep Batch: 259641**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00272	J	0.017	0.0025	mg/Kg		02/13/19 18:00	02/14/19 11:06	1

Lab Sample ID: LCS 720-259641/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260373 — **Prep Batch: 259641**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.813		mg/Kg		98	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91105-F-4-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260373 — **Prep Batch: 259641**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.23	B	0.769	0.984		mg/Kg		98	75 - 125

Lab Sample ID: 720-91105-F-4-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260373 — **Prep Batch: 259641**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.23	B	0.769	0.949		mg/Kg		93	75 - 125	4	20

Lab Sample ID: MB 720-259674/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260381 — **Prep Batch: 259674**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/13/19 17:30	02/14/19 13:33	1

Lab Sample ID: LCS 720-259674/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260381 — **Prep Batch: 259674**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.789		mg/Kg		95	80 - 120

Lab Sample ID: 720-91106-6 MS — **Client Sample ID: DG-Y14S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260381 — **Prep Batch: 259674**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.37	F1 F2	0.758	1.04		mg/Kg		88	75 - 125

Lab Sample ID: 720-91106-6 MSD — **Client Sample ID: DG-Y14S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260381 — **Prep Batch: 259674**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.37	F1 F2	0.781	1.61	F1 F2	mg/Kg		159	75 - 125	43	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91098-E-1 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259676

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17.3		14.4		%		19	20

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 720-91106-9 DU
Matrix: Solid
Analysis Batch: 259680

Client Sample ID: DG-W13S-7.5-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	19.0			18.1		%				5	20

Metals

Prep Batch: 259641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-1	DG-AB14S-0.5-1	Total/NA	Solid	7471A	
720-91106-2	DG-AB14S-3.5-4	Total/NA	Solid	7471A	
720-91106-3	DG-Y13S-0.5-1	Total/NA	Solid	7471A	
720-91106-4	DG-Y13S-3.5-4	Total/NA	Solid	7471A	
MB 720-259641/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259641/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91105-F-4-B MS	Matrix Spike	Total/NA	Solid	7471A	
720-91105-F-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-1	DG-AB14S-0.5-1	Total/NA	Solid	3050B	
720-91106-2	DG-AB14S-3.5-4	Total/NA	Solid	3050B	
720-91106-3	DG-Y13S-0.5-1	Total/NA	Solid	3050B	
720-91106-4	DG-Y13S-3.5-4	Total/NA	Solid	3050B	
720-91106-5	DG-Y14S-0.5-1	Total/NA	Solid	3050B	
720-91106-6	DG-Y14S-3.5-4	Total/NA	Solid	3050B	
720-91106-7	DG-W13S-0.5-1	Total/NA	Solid	3050B	
720-91106-8	DG-W13S-3.5-4	Total/NA	Solid	3050B	
720-91106-9	DG-W13S-7.5-8	Total/NA	Solid	3050B	
720-91106-10	DUP-101	Total/NA	Solid	3050B	
720-91106-11	DUP-129	Total/NA	Solid	3050B	
720-91106-12	DUP-102	Total/NA	Solid	3050B	
MB 720-259672/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259672/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91106-6 MS	DG-Y14S-3.5-4	Total/NA	Solid	3050B	
720-91106-6 MSD	DG-Y14S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 259674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-5	DG-Y14S-0.5-1	Total/NA	Solid	7471A	
720-91106-6	DG-Y14S-3.5-4	Total/NA	Solid	7471A	
720-91106-7	DG-W13S-0.5-1	Total/NA	Solid	7471A	
720-91106-8	DG-W13S-3.5-4	Total/NA	Solid	7471A	
720-91106-9	DG-W13S-7.5-8	Total/NA	Solid	7471A	
720-91106-10	DUP-101	Total/NA	Solid	7471A	
720-91106-11	DUP-129	Total/NA	Solid	7471A	
720-91106-12	DUP-102	Total/NA	Solid	7471A	
MB 720-259674/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259674/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91106-6 MS	DG-Y14S-3.5-4	Total/NA	Solid	7471A	
720-91106-6 MSD	DG-Y14S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 260373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-1	DG-AB14S-0.5-1	Total/NA	Solid	7471A	259641
720-91106-2	DG-AB14S-3.5-4	Total/NA	Solid	7471A	259641
720-91106-3	DG-Y13S-0.5-1	Total/NA	Solid	7471A	259641
720-91106-4	DG-Y13S-3.5-4	Total/NA	Solid	7471A	259641
MB 720-259641/1-A	Method Blank	Total/NA	Solid	7471A	259641
LCS 720-259641/2-A	Lab Control Sample	Total/NA	Solid	7471A	259641

Metals (Continued)

Analysis Batch: 260373 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91105-F-4-B MS	Matrix Spike	Total/NA	Solid	7471A	259641
720-91105-F-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259641

Analysis Batch: 260374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-1	DG-AB14S-0.5-1	Total/NA	Solid	6010B	259672
720-91106-2	DG-AB14S-3.5-4	Total/NA	Solid	6010B	259672
720-91106-3	DG-Y13S-0.5-1	Total/NA	Solid	6010B	259672
720-91106-4	DG-Y13S-3.5-4	Total/NA	Solid	6010B	259672
720-91106-5	DG-Y14S-0.5-1	Total/NA	Solid	6010B	259672
720-91106-6	DG-Y14S-3.5-4	Total/NA	Solid	6010B	259672
720-91106-7	DG-W13S-0.5-1	Total/NA	Solid	6010B	259672
720-91106-8	DG-W13S-3.5-4	Total/NA	Solid	6010B	259672
720-91106-9	DG-W13S-7.5-8	Total/NA	Solid	6010B	259672
720-91106-10	DUP-101	Total/NA	Solid	6010B	259672
720-91106-11	DUP-129	Total/NA	Solid	6010B	259672
720-91106-12	DUP-102	Total/NA	Solid	6010B	259672
MB 720-259672/1-A	Method Blank	Total/NA	Solid	6010B	259672
LCS 720-259672/2-A	Lab Control Sample	Total/NA	Solid	6010B	259672
720-91106-6 MS	DG-Y14S-3.5-4	Total/NA	Solid	6010B	259672
720-91106-6 MSD	DG-Y14S-3.5-4	Total/NA	Solid	6010B	259672

Analysis Batch: 260381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-5	DG-Y14S-0.5-1	Total/NA	Solid	7471A	259674
720-91106-6	DG-Y14S-3.5-4	Total/NA	Solid	7471A	259674
720-91106-7	DG-W13S-0.5-1	Total/NA	Solid	7471A	259674
720-91106-8	DG-W13S-3.5-4	Total/NA	Solid	7471A	259674
720-91106-9	DG-W13S-7.5-8	Total/NA	Solid	7471A	259674
720-91106-10	DUP-101	Total/NA	Solid	7471A	259674
720-91106-11	DUP-129	Total/NA	Solid	7471A	259674
720-91106-12	DUP-102	Total/NA	Solid	7471A	259674
MB 720-259674/1-A	Method Blank	Total/NA	Solid	7471A	259674
LCS 720-259674/2-A	Lab Control Sample	Total/NA	Solid	7471A	259674
720-91106-6 MS	DG-Y14S-3.5-4	Total/NA	Solid	7471A	259674
720-91106-6 MSD	DG-Y14S-3.5-4	Total/NA	Solid	7471A	259674

Analysis Batch: 260390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-4	DG-Y13S-3.5-4	Total/NA	Solid	6010B	259672

Analysis Batch: 261992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-4	DG-Y13S-3.5-4	Total/NA	Solid	6010B	259672

General Chemistry

Analysis Batch: 259676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-1	DG-AB14S-0.5-1	Total/NA	Solid	Moisture	
720-91106-2	DG-AB14S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259676 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-3	DG-Y13S-0.5-1	Total/NA	Solid	Moisture	
720-91106-4	DG-Y13S-3.5-4	Total/NA	Solid	Moisture	
720-91106-5	DG-Y14S-0.5-1	Total/NA	Solid	Moisture	
720-91106-6	DG-Y14S-3.5-4	Total/NA	Solid	Moisture	
720-91106-7	DG-W13S-0.5-1	Total/NA	Solid	Moisture	
720-91106-8	DG-W13S-3.5-4	Total/NA	Solid	Moisture	
720-91098-E-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 259680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91106-9	DG-W13S-7.5-8	Total/NA	Solid	Moisture	
720-91106-10	DUP-101	Total/NA	Solid	Moisture	
720-91106-11	DUP-129	Total/NA	Solid	Moisture	
720-91106-12	DUP-102	Total/NA	Solid	Moisture	
720-91106-9 DU	DG-W13S-7.5-8	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DG-AB14S-0.5-1
Date Collected: 01/31/19 14:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 10:37	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 12:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-AB14S-3.5-4
Date Collected: 01/31/19 14:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 10:42	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 12:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-Y13S-0.5-1
Date Collected: 01/31/19 14:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 10:46	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260373	02/14/19 12:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-Y13S-3.5-4
Date Collected: 01/31/19 14:50
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:01	BKR	TAL PLS
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260390	02/14/19 16:40	OBI	TAL PLS
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261992	02/14/19 16:40	BKR	TAL PLS
Total/NA	Prep	7471A			259641	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		10	260373	02/14/19 12:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DG-Y14S-0.5-1

Date Collected: 01/31/19 15:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:06	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 13:50	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-Y14S-3.5-4

Date Collected: 01/31/19 15:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 10:32	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 13:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-W13S-0.5-1

Date Collected: 01/31/19 15:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:10	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 13:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Client Sample ID: DG-W13S-3.5-4

Date Collected: 01/31/19 15:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:15	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 13:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259676	02/01/19 14:45	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Client Sample ID: DG-W13S-7.5-8

Date Collected: 01/31/19 15:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:20	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 13:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259680	02/01/19 15:22	TNL	TAL PLS

Client Sample ID: DUP-101

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:25	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 13:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259680	02/01/19 15:22	TNL	TAL PLS

Client Sample ID: DUP-129

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:29	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259680	02/01/19 15:22	TNL	TAL PLS

Client Sample ID: DUP-102

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91106-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 11:34	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259680	02/01/19 15:22	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91106-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91106-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91106-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91106-1	DG-AB14S-0.5-1	Solid	01/31/19 14:30	01/31/19 18:50
720-91106-2	DG-AB14S-3.5-4	Solid	01/31/19 14:30	01/31/19 18:50
720-91106-3	DG-Y13S-0.5-1	Solid	01/31/19 14:50	01/31/19 18:50
720-91106-4	DG-Y13S-3.5-4	Solid	01/31/19 14:50	01/31/19 18:50
720-91106-5	DG-Y14S-0.5-1	Solid	01/31/19 15:15	01/31/19 18:50
720-91106-6	DG-Y14S-3.5-4	Solid	01/31/19 15:15	01/31/19 18:50
720-91106-7	DG-W13S-0.5-1	Solid	01/31/19 15:30	01/31/19 18:50
720-91106-8	DG-W13S-3.5-4	Solid	01/31/19 15:30	01/31/19 18:50
720-91106-9	DG-W13S-7.5-8	Solid	01/31/19 15:30	01/31/19 18:50
720-91106-10	DUP-101	Solid	01/31/19 00:00	01/31/19 18:50
720-91106-11	DUP-129	Solid	01/31/19 00:00	01/31/19 18:50
720-91106-12	DUP-102	Solid	01/31/19 00:00	01/31/19 18:50

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91106

Chain of Custody Record

#158205

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler Naomi Hemfeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com mkahnlas@geosyntec.com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91106 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AB14s-0.5-1	31 Jan. 2019	1430	G	S	1	N	Y	X	
2	DG-AB14s-3.5-4		1430							
3	DG-Y13s-0.5-1		1450							
4	DG-Y13s-3.5-4		1450							
5	DG-Y14s-0.5-1		1515							
6	DG-Y14s-3.5-4		1515					Y		
7	DG-W13s-0.5-1		1530							
8	DG-W13s-3.5-4		1530							
9	DG-W13s-7.5-8		1530							
10	DUP-101		—							
11	DUP-93		—							
12	DUP-102	↓	—	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.5°C, 1.5°C, 0.8°C, 0.0°C, 2.2°C, 4.1°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd: _____ Corr'd _____ Therm ID No _____		
Relinquished by	Company Geosyntec	Date/Time 31 Jan. 2019	Received by	Company TA PLS	Date/Time 1-31-19 16:45
Relinquished by	Company TA PLS	Date/Time 1-31-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/31/19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91106-1

Login Number: 91106
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Tuesday, April 02, 2019 9:51 AM
To: Patel, Urvashi
Cc: Morgan Greenwald; Todd Olsen; Anthony Smith; Daniel Blake
Subject: Revise two Brisbane Lab Reports
Attachments: J91106-1 UDS Level 2 Report Final Report.pdf; J91012-1 UDS Level 2 Report Final Report.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

-External Email-

Hi Urvashi,

I am requesting to reissue two lab reports, we realized during the data validation process that we double named a couple of duplicates.

FD Sample	Matrix	Sample Date	Work Order #
DUP-129 (previously DUP-93)	Soil	1/31/2019	720-91106-1
DUP-128 (previously DUP-122)	Soil	1/24/2019	720-91012-1

Let me know if you have any questions,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
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Geosyntec consultants
engineers | scientists | innovators

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April 2, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91106-A-4-B	DG-Y13S-3.5-4	13	1.6

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your

regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa Brewer
Quality Assurance Manager

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91107-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 9:11:09 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91107-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91107-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 1/31/2019 6:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.0º C, 0.8º C, 1.5º C, 1.5º C, 2.2º C and 4.1º C.

Receipt Exceptions
The following sample was listed on the Chain of Custody (COC); however, no sample was received:(#10) DUP-55.
720-91107 (#10)

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes:DG-AG8S-0.5-1 (720-91107-1), DG-AG8S-3.5-4 (720-91107-2), DG-AF8S-0.5-1 (720-91107-3), DG-AF8S-3.5-4 (720-91107-4), DG-AD8S-0.5-1 (720-91107-5), DG-AD8S-3.5-4 (720-91107-6), DG-AW2S-0.5-1 (720-91107-7), DG-AW2S-3.5-4 (720-91107-8), DUP-14 (720-91107-9), DG-AE8S-0.5-1 (720-91107-11), DG-AE8S-3.5-4 (720-91107-12), DG-AB8S-0.5-1 (720-91107-13), DG-AB8S-3.5-4 (720-91107-14), DG-AC8S-0.5-1 (720-91107-15), DG-AC8S-3.5-4 (720-91107-16), DG-AD12S-0.5-1 (720-91107-17), DG-AD12S-3.5-4 (720-91107-18), DG-AC12S-0.5-1 (720-91107-19), DG-AC12S-3.5-4 (720-91107-20), DG-AD11S-0.5-1 (720-91107-21), DG-AD11S-3.5-4 (720-91107-22), DG-AP12S-0.5-1 (720-91107-23), DG-AP12S-3.5-4 (720-91107-24), DG-AP11S-0.5-1 (720-91107-25), (720-91107-A-5-B MS), (720-91107-A-5-C MSD), (720-91107-A-5-D PDS), (720-91107-A-5-D SD), DG-AP11S-3.5-4 (720-91107-26), DG-AS10S-0.5-1 (720-91107-27), DG-AS10S-3.5-4 (720-91107-28), DG-AR10S-0.5-1 (720-91107-29), DG-AR10S-3.5-4 (720-91107-30), DG-AO12S-0.5-1 (720-91107-31), DG-AO12S-3.5-4 (720-91107-32), DG-AM13S-0.5-1 (720-91107-33), DG-AM13S-3.5-4 (720-91107-34), DUP-78 (720-91107-35), DUP-95 (720-91107-36) and DUP-84 (720-91107-37). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259683 and analytical batch 720-260288 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Copper-180% and Zinc-305% associated with batch 720-260288 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260288 was outside control limits for Cadmium-23%, Cobalt-19%, Chromium-15%, Copper-11%, Lead-12%, Antimony-12%, and Vanadium-14%: (720-91107-A-5-D SD)

Method 6010B: The method blank for preparation batch 720-259688 and analytical batch 720-260327 contained Silver, Lead, and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259688 and analytical batch 720-260327 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) accuracy was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Silver-133%, Barium-152%, Copper- 135%, Lead-155%, Vanadium-127%, and Zinc-151% associated with batch 720-260327 was outside of control limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259683 and analytical batch 720-260328 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-149% associated with batch 720-260328 was outside of control limits.

Method 6010B: The method blank for preparation batch 720-259683 and analytical batch 720-260328 contained Barium above the method

Job ID: 720-91107-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-259683 and analytical batch 720-260288 contained Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-259672 and analytical batch 720-260374 contained Beryllium, Antimony, and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259672 and analytical batch 720-260374 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-133%, Beryllium-128%, Chromium-128%, Copper-127%, Molybdenum-126%, and Vanadium-192% associated with batch 720-260374 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260374 was outside control limits for Cobalt-16%, Chromium-15%, Nickel-16% and Vanadium-11%: (720-91106-A-6-F SD)

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-260374 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AG8S-0.5-1 (720-91107-1), DG-AG8S-3.5-4 (720-91107-2), DG-AF8S-0.5-1 (720-91107-3), DG-AF8S-3.5-4 (720-91107-4) and (CCV 720-260374/43). Affected sample results for these compounds have been qualified with a "^" symbol.

Method 7471A: The method blank for preparation batch 720-259681 and analytical batch 720-260354 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7471A: The following samples were diluted to bring the concentration of target analyte Mercury within the calibration range: DG-AP12S-3.5-4 (720-91107-24), DG-AR10S-0.5-1 (720-91107-29) and DG-AR10S-3.5-4 (720-91107-30). Elevated reporting limits (RLs) are provided.

Method 7471A: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 720-259674 and analytical batch 720-260381 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) accuracy was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AG8S-0.5-1 — Lab Sample ID: 720-91107-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.30	J B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	1.2	J	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	51		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.26	B	0.24	0.077	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	16		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	53		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	6.2		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	20		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.91	J B	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	39		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.085		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG8S-3.5-4 — Lab Sample ID: 720-91107-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J B	1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	2.7		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	67		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.32	B	0.26	0.085	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.33	0.032	mg/Kg	4		6010B	Total/NA
Chromium	9.5		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	5.6		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	13		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	8.4		1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	9.3		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.40	J B	2.6	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	35		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.016		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF8S-0.5-1 — Lab Sample ID: 720-91107-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.4	B	1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	81		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J B	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	31		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	6.2		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	140		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	290		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	1.5		1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	41		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J B	3.1	0.46	mg/Kg	4		6010B	Total/NA
Silver	0.25	J	0.77	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	23		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	270		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AF8S-3.5-4
Lab Sample ID: 720-91107-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.3	B	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	6.2		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	540		1.4	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.43	B	0.27	0.089	mg/Kg	4		6010B	Total/NA
Cadmium	1.7		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	21		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	4.9		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	1900		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	970		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	23		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J B	2.7	0.41	mg/Kg	4		6010B	Total/NA
Silver	2.2		0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	1500		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD8S-0.5-1
Lab Sample ID: 720-91107-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	29	F1 F2	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	1200	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.72		0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	2.5		0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	29	F1	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.5		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	500	F2	5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	4200		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Silver	3.8		0.95	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	26	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	1900		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.73		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD8S-3.5-4
Lab Sample ID: 720-91107-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.0		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	7.9		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	84	B	2.0	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	2.1		0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	79		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	200		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	270		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.9	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	55	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	3.9	0.59	mg/Kg	4		6010B	Total/NA
Silver	0.45	J	0.98	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	62		2.0	0.27	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD8S-3.5-4 (Continued)
Lab Sample ID: 720-91107-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	370		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW2S-0.5-1
Lab Sample ID: 720-91107-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.28	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	28		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	33	B	1.4	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.30	J	0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	13		1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	9.7		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	110		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	83		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.21	J	1.4	0.17	mg/Kg	4		6010B	Total/NA
Nickel	10	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.31	J	0.68	0.14	mg/Kg	4		6010B	Total/NA
Thallium	0.85	J	1.4	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	87		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	86		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW2S-3.5-4
Lab Sample ID: 720-91107-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.1		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	370		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	140	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.29	0.095	mg/Kg	4		6010B	Total/NA
Cadmium	0.36		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	44		1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	97		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	450		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	38	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Silver	0.32	J	0.73	0.15	mg/Kg	4		6010B	Total/NA
Thallium	0.84	J	1.5	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	330		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-14
Lab Sample ID: 720-91107-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	7.2		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	440		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	130	B	1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	1.6		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	35		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.70	0.070	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-14 (Continued)

Lab Sample ID: 720-91107-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	450		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	820		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.36	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	40	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Silver	1.0		0.87	0.18	mg/Kg	4		6010B	Total/NA
Thallium	1.3	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	98		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	630		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.073		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE8S-0.5-1

Lab Sample ID: 720-91107-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.3		1.3	0.22	mg/Kg	4		6010B	Total/NA
Arsenic	9.3		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	85	B	1.3	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	2.6		0.33	0.032	mg/Kg	4		6010B	Total/NA
Chromium	53		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	230		3.9	1.9	mg/Kg	4		6010B	Total/NA
Lead	320		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	4.1		1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	64	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.9	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Silver	0.42	J	0.65	0.13	mg/Kg	4		6010B	Total/NA
Thallium	0.85	J	1.3	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	490		3.9	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AE8S-3.5-4

Lab Sample ID: 720-91107-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	3.6	J	3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	57	B	1.9	0.28	mg/Kg	4		6010B	Total/NA
Cadmium	0.071	J	0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	23		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	6.7		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	28		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	45		1.9	0.41	mg/Kg	4		6010B	Total/NA
Nickel	22	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	41		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	51		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.021		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB8S-0.5-1

Lab Sample ID: 720-91107-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.72	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	4.7		2.4	0.20	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB8S-0.5-1 (Continued)

Lab Sample ID: 720-91107-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	62	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J	0.30	0.029	mg/Kg	4		6010B	Total/NA
Chromium	17		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	28		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	47		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.18	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	16	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.44	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	31		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	110		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.053		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB8S-3.5-4

Lab Sample ID: 720-91107-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	18		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	690	B	1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.28	J	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.97		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	34		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	510		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	3100		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.68	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	28	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	3.5		3.5	0.53	mg/Kg	4		6010B	Total/NA
Silver	3.7		0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	27		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	1200		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	1.1	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC8S-0.5-1

Lab Sample ID: 720-91107-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	14	B	7.4	1.2	mg/Kg	20		6010B	Total/NA
Arsenic	28		15	1.3	mg/Kg	20		6010B	Total/NA
Barium	260	B	7.4	1.1	mg/Kg	20		6010B	Total/NA
Cadmium	0.60	J	1.9	0.18	mg/Kg	20		6010B	Total/NA
Chromium	110		7.4	0.79	mg/Kg	20		6010B	Total/NA
Cobalt	11		3.0	0.30	mg/Kg	20		6010B	Total/NA
Copper	240		22	11	mg/Kg	20		6010B	Total/NA
Lead	390	B	7.4	1.6	mg/Kg	20		6010B	Total/NA
Molybdenum	54		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	76		7.4	0.76	mg/Kg	20		6010B	Total/NA
Selenium	10	J B	15	2.2	mg/Kg	20		6010B	Total/NA
Vanadium	28		7.4	1.0	mg/Kg	20		6010B	Total/NA
Zinc	650		22	9.4	mg/Kg	20		6010B	Total/NA
Mercury	0.12	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AC8S-3.5-4 — Lab Sample ID: 720-91107-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	30		4.8	0.79	mg/Kg	10		6010B	Total/NA
Arsenic	37		9.5	0.81	mg/Kg	10		6010B	Total/NA
Barium	1300	B	4.8	0.68	mg/Kg	10		6010B	Total/NA
Beryllium	0.59	J	0.95	0.31	mg/Kg	10		6010B	Total/NA
Cadmium	0.97	J	1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	37		4.8	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	12		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	2400		14	6.8	mg/Kg	10		6010B	Total/NA
Lead	7200		4.8	1.0	mg/Kg	10		6010B	Total/NA
Molybdenum	2.5	J	4.8	0.61	mg/Kg	10		6010B	Total/NA
Nickel	51	B	4.8	0.49	mg/Kg	10		6010B	Total/NA
Selenium	5.2	J	9.5	1.4	mg/Kg	10		6010B	Total/NA
Silver	10		2.4	0.48	mg/Kg	10		6010B	Total/NA
Vanadium	19		4.8	0.65	mg/Kg	10		6010B	Total/NA
Zinc	2000		14	6.0	mg/Kg	10		6010B	Total/NA
Mercury	0.70	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD12S-0.5-1 — Lab Sample ID: 720-91107-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.0		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	6.0		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	41	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	42		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.4		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	150		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	290		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	100	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.91	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Silver	0.16	J	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	100		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	84		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.13	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD12S-3.5-4 — Lab Sample ID: 720-91107-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.3		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	10		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	32	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	23		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	5.2		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	150		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	1000		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	12	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.52	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.5	0.20	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD12S-3.5-4 (Continued)

Lab Sample ID: 720-91107-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	120		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.097	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC12S-0.5-1

Lab Sample ID: 720-91107-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.2		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	13		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	13	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.94		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	23		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	2.5		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	130		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	590		1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	0.86	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	8.6	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.70	J	2.8	0.41	mg/Kg	4		6010B	Total/NA
Silver	0.41	J	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	4.4		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	440		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.074	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AC12S-3.5-4

Lab Sample ID: 720-91107-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.71	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	3.5		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	30	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.071	J	0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	8.9		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	190		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	97		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	20	B	1.7	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	79		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	69		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.091	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD11S-0.5-1

Lab Sample ID: 720-91107-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.73	J	4.0	0.34	mg/Kg	4		6010B	Total/NA
Barium	18	B	2.0	0.28	mg/Kg	4		6010B	Total/NA
Chromium	12		2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.80	0.080	mg/Kg	4		6010B	Total/NA
Copper	79		6.0	2.8	mg/Kg	4		6010B	Total/NA
Lead	0.76	J	2.0	0.42	mg/Kg	4		6010B	Total/NA
Nickel	8.2	B	2.0	0.20	mg/Kg	4		6010B	Total/NA
Selenium	0.85	J	4.0	0.60	mg/Kg	4		6010B	Total/NA
Silver	0.20	J	1.0	0.20	mg/Kg	4		6010B	Total/NA
Thallium	1.1	J	2.0	0.58	mg/Kg	4		6010B	Total/NA
Vanadium	100		2.0	0.27	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD11S-0.5-1 (Continued) — Lab Sample ID: 720-91107-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	46		6.0	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.076	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD11S-3.5-4 — Lab Sample ID: 720-91107-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.5		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	3.1		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	30	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.37		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	9.0		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	2.0		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	41		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	170		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.44	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	8.0	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.75	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	9.4		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	94		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.049	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP12S-0.5-1 — Lab Sample ID: 720-91107-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	45		4.6	0.76	mg/Kg	10		6010B	Total/NA
Arsenic	44		9.2	0.78	mg/Kg	10		6010B	Total/NA
Barium	1100	B	4.6	0.65	mg/Kg	10		6010B	Total/NA
Beryllium	0.54	J	0.92	0.30	mg/Kg	10		6010B	Total/NA
Cadmium	6.7		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	110		4.6	0.49	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	1900		14	6.5	mg/Kg	10		6010B	Total/NA
Lead	10000		4.6	0.96	mg/Kg	10		6010B	Total/NA
Molybdenum	1.7	J	4.6	0.59	mg/Kg	10		6010B	Total/NA
Nickel	99	B	4.6	0.47	mg/Kg	10		6010B	Total/NA
Selenium	8.2	J	9.2	1.4	mg/Kg	10		6010B	Total/NA
Silver	11		2.3	0.46	mg/Kg	10		6010B	Total/NA
Vanadium	37		4.6	0.62	mg/Kg	10		6010B	Total/NA
Zinc	4700		14	5.8	mg/Kg	10		6010B	Total/NA
Mercury	1.0	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP12S-3.5-4 — Lab Sample ID: 720-91107-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	36		3.8	0.63	mg/Kg	10		6010B	Total/NA
Arsenic	23		7.6	0.64	mg/Kg	10		6010B	Total/NA
Barium	1200	B	3.8	0.54	mg/Kg	10		6010B	Total/NA
Beryllium	0.51	J	0.76	0.25	mg/Kg	10		6010B	Total/NA
Cadmium	2.4		0.95	0.094	mg/Kg	10		6010B	Total/NA
Chromium	48		3.8	0.40	mg/Kg	10		6010B	Total/NA
Cobalt	9.6		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	1000		11	5.4	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AP12S-3.5-4 (Continued) Lab Sample ID: 720-91107-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5100		3.8	0.80	mg/Kg	10		6010B	Total/NA
Molybdenum	1.1	J	3.8	0.48	mg/Kg	10		6010B	Total/NA
Nickel	49	B	3.8	0.39	mg/Kg	10		6010B	Total/NA
Selenium	7.2	J	7.6	1.1	mg/Kg	10		6010B	Total/NA
Silver	5.6		1.9	0.38	mg/Kg	10		6010B	Total/NA
Vanadium	27		3.8	0.52	mg/Kg	10		6010B	Total/NA
Zinc	2500		11	4.8	mg/Kg	10		6010B	Total/NA
Mercury	1.3	B	0.060	0.0088	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AP11S-0.5-1 Lab Sample ID: 720-91107-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	3.4		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	87	B	1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.27	J	0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	45		1.5	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	100		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	120		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.80	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	66	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.82	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Silver	0.30	J	0.73	0.15	mg/Kg	4		6010B	Total/NA
Thallium	0.63	J	1.5	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	110		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.069	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP11S-3.5-4 Lab Sample ID: 720-91107-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	60		3.5	0.58	mg/Kg	10		6010B	Total/NA
Arsenic	33		6.9	0.59	mg/Kg	10		6010B	Total/NA
Barium	1600		3.5	0.49	mg/Kg	10		6010B	Total/NA
Beryllium	1.0		0.69	0.23	mg/Kg	10		6010B	Total/NA
Cadmium	7.3		0.87	0.086	mg/Kg	10		6010B	Total/NA
Chromium	43		3.5	0.37	mg/Kg	10		6010B	Total/NA
Cobalt	10		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	920		10	4.9	mg/Kg	10		6010B	Total/NA
Lead	7700	B	3.5	0.73	mg/Kg	10		6010B	Total/NA
Molybdenum	2.5	J	3.5	0.44	mg/Kg	10		6010B	Total/NA
Nickel	32		3.5	0.35	mg/Kg	10		6010B	Total/NA
Selenium	7.5	B	6.9	1.0	mg/Kg	10		6010B	Total/NA
Silver	7.2	B	1.7	0.35	mg/Kg	10		6010B	Total/NA
Vanadium	32		3.5	0.47	mg/Kg	10		6010B	Total/NA
Zinc	2500		10	4.4	mg/Kg	10		6010B	Total/NA
Mercury	0.36	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AS10S-0.5-1 — Lab Sample ID: 720-91107-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	76		4.7	0.78	mg/Kg	10		6010B	Total/NA
Arsenic	35		9.3	0.79	mg/Kg	10		6010B	Total/NA
Barium	1500		4.7	0.66	mg/Kg	10		6010B	Total/NA
Beryllium	0.46	J	0.93	0.30	mg/Kg	10		6010B	Total/NA
Cadmium	4.3		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	99		4.7	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	14		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	19000		14	6.7	mg/Kg	10		6010B	Total/NA
Lead	6900	B	4.7	0.98	mg/Kg	10		6010B	Total/NA
Molybdenum	2.1	J	4.7	0.60	mg/Kg	10		6010B	Total/NA
Nickel	74		4.7	0.48	mg/Kg	10		6010B	Total/NA
Selenium	10	B	9.3	1.4	mg/Kg	10		6010B	Total/NA
Silver	8.0	B	2.3	0.47	mg/Kg	10		6010B	Total/NA
Vanadium	46		4.7	0.64	mg/Kg	10		6010B	Total/NA
Zinc	3400		14	5.9	mg/Kg	10		6010B	Total/NA
Mercury	1.2	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AS10S-3.5-4 — Lab Sample ID: 720-91107-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	23		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	22		3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	920		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.33	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	3.8		0.45	0.044	mg/Kg	4		6010B	Total/NA
Chromium	89		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	680		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	2700	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	1.3	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	77		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	4.8	B	3.6	0.54	mg/Kg	4		6010B	Total/NA
Silver	3.4	B	0.89	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	3000		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.98	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AR10S-0.5-1 — Lab Sample ID: 720-91107-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	66		4.7	0.78	mg/Kg	10		6010B	Total/NA
Arsenic	43		9.4	0.80	mg/Kg	10		6010B	Total/NA
Barium	1900		4.7	0.67	mg/Kg	10		6010B	Total/NA
Beryllium	0.56	J	0.94	0.31	mg/Kg	10		6010B	Total/NA
Cadmium	7.8		1.2	0.12	mg/Kg	10		6010B	Total/NA
Chromium	88		4.7	0.50	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.9	0.19	mg/Kg	10		6010B	Total/NA
Copper	1900		14	6.7	mg/Kg	10		6010B	Total/NA
Lead	9800	B	4.7	0.99	mg/Kg	10		6010B	Total/NA
Molybdenum	2.1	J	4.7	0.60	mg/Kg	10		6010B	Total/NA
Nickel	78		4.7	0.48	mg/Kg	10		6010B	Total/NA
Selenium	3.1	J B	9.4	1.4	mg/Kg	10		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AR10S-0.5-1 (Continued) — Lab Sample ID: 720-91107-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	8.5	B	2.4	0.48	mg/Kg	10		6010B	Total/NA
Thallium	3.0	J	4.7	1.4	mg/Kg	10		6010B	Total/NA
Vanadium	33		4.7	0.64	mg/Kg	10		6010B	Total/NA
Zinc	4700		14	6.0	mg/Kg	10		6010B	Total/NA
Mercury	3.0	B	0.15	0.022	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-AR10S-3.5-4 — Lab Sample ID: 720-91107-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	65		4.2	0.70	mg/Kg	10		6010B	Total/NA
Arsenic	24		8.5	0.72	mg/Kg	10		6010B	Total/NA
Barium	2100		4.2	0.60	mg/Kg	10		6010B	Total/NA
Beryllium	0.89		0.85	0.28	mg/Kg	10		6010B	Total/NA
Cadmium	6.3		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	53		4.2	0.45	mg/Kg	10		6010B	Total/NA
Cobalt	10		1.7	0.17	mg/Kg	10		6010B	Total/NA
Copper	1800		13	6.0	mg/Kg	10		6010B	Total/NA
Lead	6900	B	4.2	0.89	mg/Kg	10		6010B	Total/NA
Molybdenum	1.2	J	4.2	0.54	mg/Kg	10		6010B	Total/NA
Nickel	67		4.2	0.43	mg/Kg	10		6010B	Total/NA
Selenium	2.4	J B	8.5	1.3	mg/Kg	10		6010B	Total/NA
Silver	7.4	B	2.1	0.43	mg/Kg	10		6010B	Total/NA
Thallium	2.0	J	4.2	1.2	mg/Kg	10		6010B	Total/NA
Vanadium	34		4.2	0.58	mg/Kg	10		6010B	Total/NA
Zinc	4900		13	5.4	mg/Kg	10		6010B	Total/NA
Mercury	1.6	B	0.062	0.0091	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AO12S-0.5-1 — Lab Sample ID: 720-91107-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	45		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	36		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	1400		1.9	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	5.7		0.49	0.048	mg/Kg	4		6010B	Total/NA
Chromium	88		1.9	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	1400		5.8	2.8	mg/Kg	4		6010B	Total/NA
Lead	4800	B	1.9	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	73		1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	5.8	B	3.9	0.58	mg/Kg	4		6010B	Total/NA
Silver	8.0	B	0.97	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	42		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	3500		5.8	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.65	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AO12S-3.5-4 — Lab Sample ID: 720-91107-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	57		8.9	1.5	mg/Kg	20		6010B	Total/NA
Arsenic	54		18	1.5	mg/Kg	20		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AO12S-3.5-4 (Continued) Lab Sample ID: 720-91107-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1900		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	6.0		2.2	0.22	mg/Kg	20		6010B	Total/NA
Chromium	59		8.9	0.95	mg/Kg	20		6010B	Total/NA
Cobalt	13		3.6	0.36	mg/Kg	20		6010B	Total/NA
Copper	640		27	13	mg/Kg	20		6010B	Total/NA
Lead	6000	B	8.9	1.9	mg/Kg	20		6010B	Total/NA
Molybdenum	1.7	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	47		8.9	0.91	mg/Kg	20		6010B	Total/NA
Silver	5.1	B	4.5	0.90	mg/Kg	20		6010B	Total/NA
Vanadium	41		8.9	1.2	mg/Kg	20		6010B	Total/NA
Zinc	2700		27	11	mg/Kg	20		6010B	Total/NA
Mercury	0.020	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM13S-0.5-1 Lab Sample ID: 720-91107-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	10		3.5	0.58	mg/Kg	10		6010B	Total/NA
Arsenic	35		6.9	0.59	mg/Kg	10		6010B	Total/NA
Barium	130		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.87	0.086	mg/Kg	10		6010B	Total/NA
Chromium	21		3.5	0.37	mg/Kg	10		6010B	Total/NA
Cobalt	7.8		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	81		10	4.9	mg/Kg	10		6010B	Total/NA
Lead	220	B	3.5	0.73	mg/Kg	10		6010B	Total/NA
Molybdenum	0.52	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	21		3.5	0.35	mg/Kg	10		6010B	Total/NA
Vanadium	33		3.5	0.47	mg/Kg	10		6010B	Total/NA
Zinc	250		10	4.4	mg/Kg	10		6010B	Total/NA
Mercury	0.20	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM13S-3.5-4 Lab Sample ID: 720-91107-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	6.2		4.4	0.73	mg/Kg	10		6010B	Total/NA
Arsenic	17	F1	8.8	0.75	mg/Kg	10		6010B	Total/NA
Barium	370		4.4	0.63	mg/Kg	10		6010B	Total/NA
Cadmium	0.79	J F1	1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	19	F1	4.4	0.47	mg/Kg	10		6010B	Total/NA
Cobalt	3.7	F1	1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	220	F2	13	6.3	mg/Kg	10		6010B	Total/NA
Lead	960	B F2	4.4	0.93	mg/Kg	10		6010B	Total/NA
Nickel	18	F1	4.4	0.45	mg/Kg	10		6010B	Total/NA
Silver	1.9	J B F1	2.2	0.45	mg/Kg	10		6010B	Total/NA
Vanadium	20	F1	4.4	0.60	mg/Kg	10		6010B	Total/NA
Zinc	660	F2	13	5.6	mg/Kg	10		6010B	Total/NA
Mercury	0.19		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-78 Lab Sample ID: 720-91107-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.4	0.23	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-78 (Continued)
Lab Sample ID: 720-91107-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.0		2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	150		1.4	0.19	mg/Kg	4		6010B	Total/NA
Cadmium	0.80		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	26		1.4	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	150		4.1	1.9	mg/Kg	4		6010B	Total/NA
Lead	240	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.4	0.17	mg/Kg	4		6010B	Total/NA
Nickel	18		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.61	J B	2.7	0.41	mg/Kg	4		6010B	Total/NA
Silver	0.45	J B	0.68	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	76		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	260		4.1	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-95
Lab Sample ID: 720-91107-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	8.8		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	21		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	150		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.69		0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	17		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	5.9		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	160		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	290	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	19		1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.44	J B	0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	270		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-84
Lab Sample ID: 720-91107-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	71		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	33		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	240		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	290	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	2.3		1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	150		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.5	J B	3.3	0.49	mg/Kg	4		6010B	Total/NA
Silver	0.34	J B	0.82	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	170		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	91		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG8S-0.5-1 Lab Sample ID: 720-91107-1

Date Collected: 01/31/19 08:25 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J B	1.2	0.20	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Arsenic	1.2	J	2.4	0.20	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Barium	51		1.2	0.17	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Beryllium	0.26	B	0.24	0.077	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Cadmium	0.12	J	0.30	0.030	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Chromium	16		1.2	0.13	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Cobalt	8.2		0.48	0.048	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Copper	53		3.6	1.7	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Lead	6.2		1.2	0.25	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Molybdenum	ND		1.2	0.15	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Nickel	20		1.2	0.12	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Selenium	0.91	J B	2.4	0.36	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Silver	ND		0.60	0.12	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Thallium	ND	^	1.2	0.35	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Vanadium	50		1.2	0.16	mg/Kg		02/13/19 08:41	02/14/19 12:08	4
Zinc	39		3.6	1.5	mg/Kg		02/13/19 08:41	02/14/19 12:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.085		0.014	0.0021	mg/Kg		02/13/19 17:30	02/14/19 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.9		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DG-AG8S-3.5-4 Lab Sample ID: 720-91107-2

Date Collected: 01/31/19 08:25 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J B	1.3	0.22	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Arsenic	2.7		2.6	0.22	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Barium	67		1.3	0.19	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Beryllium	0.32	B	0.26	0.085	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Cadmium	0.15	J	0.33	0.032	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Chromium	9.5		1.3	0.14	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Cobalt	5.6		0.52	0.052	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Copper	13		3.9	1.9	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Lead	8.4		1.3	0.27	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Molybdenum	ND		1.3	0.17	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Nickel	9.3		1.3	0.13	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Selenium	0.40	J B	2.6	0.39	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Silver	ND		0.65	0.13	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Thallium	ND	^	1.3	0.38	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Vanadium	53		1.3	0.18	mg/Kg		02/13/19 08:41	02/14/19 12:12	4
Zinc	35		3.9	1.7	mg/Kg		02/13/19 08:41	02/14/19 12:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.015	0.0021	mg/Kg		02/13/19 17:30	02/14/19 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1	0.05	%			02/04/19 14:46	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AF8S-0.5-1
Lab Sample ID: 720-91107-3
Date Collected: 01/31/19 08:35
Matrix: Solid
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.4	B	1.5	0.26	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Arsenic	11		3.1	0.26	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Barium	81		1.5	0.22	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Beryllium	0.22	J B	0.31	0.10	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Cadmium	1.5		0.38	0.038	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Chromium	31		1.5	0.16	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Cobalt	6.2		0.62	0.062	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Copper	140		4.6	2.2	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Lead	290		1.5	0.32	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Molybdenum	1.5		1.5	0.20	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Nickel	41		1.5	0.16	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Selenium	2.1	J B	3.1	0.46	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Silver	0.25	J	0.77	0.16	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Thallium	ND	^	1.5	0.45	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Vanadium	23		1.5	0.21	mg/Kg		02/13/19 08:41	02/14/19 12:17	4
Zinc	270		4.6	2.0	mg/Kg		02/13/19 08:41	02/14/19 12:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.014	0.0021	mg/Kg		02/13/19 17:30	02/14/19 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.6		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DG-AF8S-3.5-4 — Lab Sample ID: 720-91107-4

Date Collected: 01/31/19 08:35 — **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.3	B	1.4	0.23	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Arsenic	6.2		2.7	0.23	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Barium	540		1.4	0.19	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Beryllium	0.43	B	0.27	0.089	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Cadmium	1.7		0.34	0.034	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Chromium	21		1.4	0.15	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Cobalt	4.9		0.55	0.055	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Copper	1900		4.1	2.0	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Lead	970		1.4	0.29	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Molybdenum	ND		1.4	0.18	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Nickel	23		1.4	0.14	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Selenium	2.0	J B	2.7	0.41	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Silver	2.2		0.68	0.14	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Thallium	ND	^	1.4	0.40	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Vanadium	28		1.4	0.19	mg/Kg		02/13/19 08:41	02/14/19 12:22	4
Zinc	1500		4.1	1.7	mg/Kg		02/13/19 08:41	02/14/19 12:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.015	0.0022	mg/Kg		02/13/19 17:30	02/14/19 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.5		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DG-AD8S-0.5-1 Lab Sample ID: 720-91107-5

Date Collected: 01/31/19 08:45 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	29	F1 F2	1.9	0.32	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Arsenic	14		3.8	0.32	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Barium	1200	B	1.9	0.27	mg/Kg		02/01/19 15:27	02/13/19 18:59	4
Beryllium	0.72		0.38	0.12	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Cadmium	2.5		0.48	0.047	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Chromium	29	F1	1.9	0.20	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Cobalt	5.5		0.76	0.076	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Copper	500	F2	5.7	2.7	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Lead	4200		1.9	0.40	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Molybdenum	1.1	J	1.9	0.24	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Nickel	24	B	1.9	0.19	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Selenium	1.2	J	3.8	0.57	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Silver	3.8		0.95	0.19	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Thallium	ND		1.9	0.55	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Vanadium	26	F1	1.9	0.26	mg/Kg		02/01/19 15:27	02/13/19 10:21	4
Zinc	1900		5.7	2.4	mg/Kg		02/01/19 15:27	02/13/19 10:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.73		0.017	0.0025	mg/Kg		02/13/19 17:30	02/14/19 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	38.3		0.1	0.05	%			02/04/19 14:46	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AD8S-3.5-4
Lab Sample ID: 720-91107-6
Date Collected: 01/31/19 08:45
Matrix: Solid
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0		2.0	0.33	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Arsenic	7.9		3.9	0.33	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Barium	84	B	2.0	0.28	mg/Kg		02/01/19 15:27	02/13/19 19:03	4
Beryllium	ND		0.39	0.13	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Cadmium	2.1		0.49	0.049	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Chromium	79		2.0	0.21	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Cobalt	11		0.78	0.078	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Copper	200		5.9	2.8	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Lead	270		2.0	0.41	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Molybdenum	1.9	J	2.0	0.25	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Nickel	55	B	2.0	0.20	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Selenium	2.0	J	3.9	0.59	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Silver	0.45	J	0.98	0.20	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Thallium	ND		2.0	0.57	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Vanadium	62		2.0	0.27	mg/Kg		02/01/19 15:27	02/13/19 10:26	4
Zinc	370		5.9	2.5	mg/Kg		02/01/19 15:27	02/13/19 10:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.015	0.0022	mg/Kg		02/13/19 17:30	02/14/19 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.2		0.1	0.05	%			02/04/19 14:46	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AW2S-0.5-1
Lab Sample ID: 720-91107-7
Date Collected: 01/31/19 09:00
Matrix: Solid
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.4	0.23	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Arsenic	28		2.7	0.23	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Barium	33	B	1.4	0.19	mg/Kg		02/01/19 15:27	02/13/19 19:08	4
Beryllium	ND		0.27	0.088	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Cadmium	0.30	J	0.34	0.034	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Chromium	13		1.4	0.14	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Cobalt	9.7		0.54	0.054	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Copper	110		4.1	1.9	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Lead	83		1.4	0.29	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Molybdenum	0.21	J	1.4	0.17	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Nickel	10	B	1.4	0.14	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Selenium	ND		2.7	0.41	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Silver	0.31	J	0.68	0.14	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Thallium	0.85	J	1.4	0.39	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Vanadium	87		1.4	0.19	mg/Kg		02/01/19 15:27	02/13/19 10:30	4
Zinc	86		4.1	1.7	mg/Kg		02/01/19 15:27	02/13/19 10:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.015	0.0022	mg/Kg		02/13/19 17:30	02/14/19 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.5		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DG-AW2S-3.5-4 Lab Sample ID: 720-91107-8

Date Collected: 01/31/19 09:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.1		1.5	0.24	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Arsenic	370		2.9	0.25	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Barium	140	B	1.5	0.21	mg/Kg		02/01/19 15:27	02/13/19 19:13	4
Beryllium	0.19	J	0.29	0.095	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Cadmium	0.36		0.36	0.036	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Chromium	44		1.5	0.15	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Cobalt	12		0.58	0.058	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Copper	97		4.4	2.1	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Lead	450		1.5	0.31	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Molybdenum	0.39	J	1.5	0.19	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Nickel	38	B	1.5	0.15	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Selenium	1.2	J	2.9	0.44	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Silver	0.32	J	0.73	0.15	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Thallium	0.84	J	1.5	0.42	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Vanadium	64		1.5	0.20	mg/Kg		02/01/19 15:27	02/13/19 10:35	4
Zinc	330		4.4	1.9	mg/Kg		02/01/19 15:27	02/13/19 10:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.015	0.0022	mg/Kg		02/13/19 17:30	02/14/19 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.3		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DUP-14
Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-9
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.2		1.7	0.29	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Arsenic	440		3.5	0.30	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Barium	130	B	1.7	0.25	mg/Kg		02/01/19 15:27	02/13/19 19:18	4
Beryllium	ND		0.35	0.11	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Cadmium	1.6		0.43	0.043	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Chromium	35		1.7	0.18	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Cobalt	18		0.70	0.070	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Copper	450		5.2	2.5	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Lead	820		1.7	0.37	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Molybdenum	0.36	J	1.7	0.22	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Nickel	40	B	1.7	0.18	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Selenium	2.1	J	3.5	0.52	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Silver	1.0		0.87	0.18	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Thallium	1.3	J	1.7	0.50	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Vanadium	98		1.7	0.24	mg/Kg		02/01/19 15:27	02/13/19 10:49	4
Zinc	630		5.2	2.2	mg/Kg		02/01/19 15:27	02/13/19 10:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.015	0.0021	mg/Kg		02/13/19 17:30	02/14/19 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.05	%			02/04/19 14:46	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AE8S-0.5-1
Lab Sample ID: 720-91107-11
Date Collected: 01/31/19 09:30
Matrix: Solid
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.3		1.3	0.22	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Arsenic	9.3		2.6	0.22	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Barium	85	B	1.3	0.19	mg/Kg		02/01/19 15:27	02/13/19 19:22	4
Beryllium	ND		0.26	0.085	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Cadmium	2.6		0.33	0.032	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Chromium	53		1.3	0.14	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Cobalt	11		0.52	0.052	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Copper	230		3.9	1.9	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Lead	320		1.3	0.27	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Molybdenum	4.1		1.3	0.17	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Nickel	64	B	1.3	0.13	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Selenium	1.9	J	2.6	0.39	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Silver	0.42	J	0.65	0.13	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Thallium	0.85	J	1.3	0.38	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Vanadium	48		1.3	0.18	mg/Kg		02/01/19 15:27	02/13/19 10:54	4
Zinc	490		3.9	1.7	mg/Kg		02/01/19 15:27	02/13/19 10:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.014	0.0021	mg/Kg		02/13/19 17:30	02/14/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.2		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DG-AE8S-3.5-4 Lab Sample ID: 720-91107-12

Date Collected: 01/31/19 09:30 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J	1.9	0.32	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Arsenic	3.6	J	3.9	0.33	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Barium	57	B	1.9	0.28	mg/Kg		02/01/19 15:27	02/13/19 19:27	4
Beryllium	ND		0.39	0.13	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Cadmium	0.071	J	0.49	0.048	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Chromium	23		1.9	0.21	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Cobalt	6.7		0.78	0.078	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Copper	28		5.8	2.8	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Lead	45		1.9	0.41	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Molybdenum	ND		1.9	0.25	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Nickel	22	B	1.9	0.20	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Selenium	ND		3.9	0.58	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Silver	ND		0.97	0.20	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Thallium	ND		1.9	0.56	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Vanadium	41		1.9	0.26	mg/Kg		02/01/19 15:27	02/13/19 10:59	4
Zinc	51		5.8	2.5	mg/Kg		02/01/19 15:27	02/13/19 10:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0025	mg/Kg		02/13/19 17:30	02/14/19 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DG-AB8S-0.5-1 Lab Sample ID: 720-91107-13

Date Collected: 01/31/19 11:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.72	J	1.2	0.20	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Arsenic	4.7		2.4	0.20	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Barium	62	B	1.2	0.17	mg/Kg		02/01/19 15:27	02/13/19 19:32	4
Beryllium	ND		0.24	0.077	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Cadmium	0.22	J	0.30	0.029	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Chromium	17		1.2	0.13	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Cobalt	5.2		0.47	0.047	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Copper	28		3.6	1.7	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Lead	47		1.2	0.25	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Molybdenum	0.18	J	1.2	0.15	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Nickel	16	B	1.2	0.12	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Selenium	0.44	J	2.4	0.36	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Silver	ND		0.59	0.12	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Thallium	ND		1.2	0.34	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Vanadium	31		1.2	0.16	mg/Kg		02/01/19 15:27	02/13/19 11:04	4
Zinc	110		3.6	1.5	mg/Kg		02/01/19 15:27	02/13/19 11:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.016	0.0023	mg/Kg		02/13/19 17:30	02/14/19 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.9		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DG-AB8S-3.5-4 Lab Sample ID: 720-91107-14

Date Collected: 01/31/19 11:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	18		1.8	0.29	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Arsenic	16		3.5	0.30	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Barium	690	B	1.8	0.25	mg/Kg		02/01/19 15:27	02/13/19 19:37	4
Beryllium	0.28	J	0.35	0.12	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Cadmium	0.97		0.44	0.044	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Chromium	34		1.8	0.19	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Cobalt	7.7		0.71	0.071	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Copper	510		5.3	2.5	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Lead	3100		1.8	0.37	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Molybdenum	0.68	J	1.8	0.23	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Nickel	28	B	1.8	0.18	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Selenium	3.5		3.5	0.53	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Silver	3.7		0.88	0.18	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Thallium	ND		1.8	0.51	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Vanadium	27		1.8	0.24	mg/Kg		02/01/19 15:27	02/13/19 11:08	4
Zinc	1200		5.3	2.2	mg/Kg		02/01/19 15:27	02/13/19 11:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1	B	0.016	0.0024	mg/Kg		02/13/19 18:00	02/13/19 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.7		0.1	0.05	%			02/04/19 14:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AC8S-0.5-1

Date Collected: 01/31/19 10:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	14	B	7.4	1.2	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Arsenic	28		15	1.3	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Barium	260	B	7.4	1.1	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Beryllium	ND		0.30	0.096	mg/Kg		02/01/19 15:27	02/13/19 11:13	4
Cadmium	0.60	J	1.9	0.18	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Chromium	110		7.4	0.79	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Cobalt	11		3.0	0.30	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Copper	240		22	11	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Lead	390	B	7.4	1.6	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Molybdenum	54		1.5	0.19	mg/Kg		02/01/19 15:27	02/13/19 11:13	4
Nickel	76		7.4	0.76	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Selenium	10	J B	15	2.2	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Silver	ND		3.7	0.75	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Thallium	ND		1.5	0.43	mg/Kg		02/01/19 15:27	03/16/19 19:39	4
Vanadium	28		7.4	1.0	mg/Kg		02/01/19 15:27	02/13/19 19:51	20
Zinc	650		22	9.4	mg/Kg		02/01/19 15:27	02/13/19 19:51	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/13/19 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DG-AC8S-3.5-4 — Lab Sample ID: 720-91107-16

Date Collected: 01/31/19 10:30 — **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	30		4.8	0.79	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Arsenic	37		9.5	0.81	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Barium	1300	B	4.8	0.68	mg/Kg		02/01/19 15:27	02/13/19 19:56	10
Beryllium	0.59	J	0.95	0.31	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Cadmium	0.97	J	1.2	0.12	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Chromium	37		4.8	0.50	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Cobalt	12		1.9	0.19	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Copper	2400		14	6.8	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Lead	7200		4.8	1.0	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Molybdenum	2.5	J	4.8	0.61	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Nickel	51	B	4.8	0.49	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Selenium	5.2	J	9.5	1.4	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Silver	10		2.4	0.48	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Thallium	ND		4.8	1.4	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Vanadium	19		4.8	0.65	mg/Kg		02/01/19 15:27	02/13/19 11:18	10
Zinc	2000		14	6.0	mg/Kg		02/01/19 15:27	02/13/19 11:18	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.70	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/13/19 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.5		0.1	0.05	%			02/04/19 14:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AD12S-0.5-1

Date Collected: 01/31/19 11:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0		1.6	0.27	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Arsenic	6.0		3.3	0.28	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Barium	41	B	1.6	0.23	mg/Kg		02/01/19 15:27	02/13/19 20:01	4
Beryllium	ND		0.33	0.11	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Cadmium	0.14	J	0.41	0.040	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Chromium	42		1.6	0.17	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Cobalt	8.4		0.65	0.065	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Copper	150		4.9	2.3	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Lead	290		1.6	0.34	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Molybdenum	1.1	J	1.6	0.21	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Nickel	100	B	1.6	0.17	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Selenium	0.91	J	3.3	0.49	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Silver	0.16	J	0.81	0.16	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Thallium	ND		1.6	0.47	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Vanadium	100		1.6	0.22	mg/Kg		02/01/19 15:27	02/13/19 11:23	4
Zinc	84		4.9	2.1	mg/Kg		02/01/19 15:27	02/13/19 11:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/13/19 19:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.2		0.1	0.05	%			02/04/19 14:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AD12S-3.5-4

Date Collected: 01/31/19 11:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-18

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.3		1.5	0.24	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Arsenic	10		2.9	0.25	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Barium	32	B	1.5	0.21	mg/Kg		02/01/19 15:27	02/13/19 20:05	4
Beryllium	0.12	J	0.29	0.096	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Cadmium	0.15	J	0.37	0.036	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Chromium	23		1.5	0.16	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Cobalt	5.2		0.59	0.059	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Copper	150		4.4	2.1	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Lead	1000		1.5	0.31	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Molybdenum	0.27	J	1.5	0.19	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Nickel	12	B	1.5	0.15	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Selenium	0.52	J	2.9	0.44	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Silver	ND		0.74	0.15	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Thallium	ND		1.5	0.43	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Vanadium	28		1.5	0.20	mg/Kg		02/01/19 15:27	02/13/19 11:27	4
Zinc	120		4.4	1.9	mg/Kg		02/01/19 15:27	02/13/19 11:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.097	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/13/19 19:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.05	%			02/04/19 14:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AC12S-0.5-1

Date Collected: 01/31/19 11:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2		1.4	0.23	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Arsenic	13		2.8	0.23	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Barium	13	B	1.4	0.20	mg/Kg		02/01/19 15:27	02/13/19 20:10	4
Beryllium	ND		0.28	0.090	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Cadmium	0.94		0.34	0.034	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Chromium	23		1.4	0.15	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Cobalt	2.5		0.55	0.055	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Copper	130		4.1	2.0	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Lead	590		1.4	0.29	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Molybdenum	0.86	J	1.4	0.18	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Nickel	8.6	B	1.4	0.14	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Selenium	0.70	J	2.8	0.41	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Silver	0.41	J	0.69	0.14	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Thallium	ND		1.4	0.40	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Vanadium	4.4		1.4	0.19	mg/Kg		02/01/19 15:27	02/13/19 11:32	4
Zinc	440		4.1	1.8	mg/Kg		02/01/19 15:27	02/13/19 11:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074	B	0.017	0.0025	mg/Kg		02/13/19 18:00	02/14/19 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.0		0.1	0.05	%			02/04/19 14:46	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AC12S-3.5-4

Date Collected: 01/31/19 11:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-20

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.71	J	1.7	0.28	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Arsenic	3.5		3.4	0.29	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Barium	30	B	1.7	0.24	mg/Kg		02/01/19 15:27	02/13/19 20:15	4
Beryllium	ND		0.34	0.11	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Cadmium	0.071	J	0.43	0.042	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Chromium	8.9		1.7	0.18	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Cobalt	7.2		0.68	0.068	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Copper	190		5.1	2.4	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Lead	97		1.7	0.36	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Molybdenum	ND		1.7	0.22	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Nickel	20	B	1.7	0.17	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Selenium	ND		3.4	0.51	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Silver	ND		0.85	0.17	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Thallium	ND		1.7	0.50	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Vanadium	79		1.7	0.23	mg/Kg		02/01/19 15:27	02/13/19 11:46	4
Zinc	69		5.1	2.2	mg/Kg		02/01/19 15:27	02/13/19 11:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	B	0.014	0.0021	mg/Kg		02/13/19 18:00	02/14/19 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.5		0.1	0.05	%			02/04/19 14:46	1

Client Sample ID: DG-AD11S-0.5-1 Lab Sample ID: 720-91107-21

Date Collected: 01/31/19 11:45 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.33	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Arsenic	**0.73**	**J**	4.0	0.34	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Barium	**18**	**B**	2.0	0.28	mg/Kg		02/01/19 15:27	02/13/19 20:20	4
Beryllium	ND		0.40	0.13	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Cadmium	ND		0.50	0.050	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Chromium	**12**		2.0	0.21	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Cobalt	**13**		0.80	0.080	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Copper	**79**		6.0	2.8	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Lead	**0.76**	**J**	2.0	0.42	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Molybdenum	ND		2.0	0.26	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Nickel	**8.2**	**B**	2.0	0.20	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Selenium	**0.85**	**J**	4.0	0.60	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Silver	**0.20**	**J**	1.0	0.20	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Thallium	**1.1**	**J**	2.0	0.58	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Vanadium	**100**		2.0	0.27	mg/Kg		02/01/19 15:27	02/13/19 11:51	4
Zinc	**46**		6.0	2.5	mg/Kg		02/01/19 15:27	02/13/19 11:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.076**	**B**	0.015	0.0022	mg/Kg		02/13/19 18:00	02/13/19 19:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.4**		0.1	0.05	%			02/04/19 15:15	1

Client Sample ID: DG-AD11S-3.5-4 Lab Sample ID: 720-91107-22

Date Collected: 01/31/19 11:45 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5		1.5	0.24	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Arsenic	3.1		2.9	0.25	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Barium	30	B	1.5	0.21	mg/Kg		02/01/19 15:27	02/13/19 20:24	4
Beryllium	ND		0.29	0.096	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Cadmium	0.37		0.37	0.036	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Chromium	9.0		1.5	0.16	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Cobalt	2.0		0.59	0.059	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Copper	41		4.4	2.1	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Lead	170		1.5	0.31	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Molybdenum	0.44	J	1.5	0.19	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Nickel	8.0	B	1.5	0.15	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Selenium	0.75	J	2.9	0.44	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Silver	ND		0.74	0.15	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Thallium	ND		1.5	0.43	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Vanadium	9.4		1.5	0.20	mg/Kg		02/01/19 15:27	02/13/19 11:56	4
Zinc	94		4.4	1.9	mg/Kg		02/01/19 15:27	02/13/19 11:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049	B	0.014	0.0021	mg/Kg		02/13/19 18:00	02/14/19 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.7		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AP12S-0.5-1

Date Collected: 01/31/19 13:30
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	45		4.6	0.76	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Arsenic	44		9.2	0.78	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Barium	1100	B	4.6	0.65	mg/Kg		02/01/19 15:27	02/13/19 20:29	10
Beryllium	0.54	J	0.92	0.30	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Cadmium	6.7		1.1	0.11	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Chromium	110		4.6	0.49	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Cobalt	13		1.8	0.18	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Copper	1900		14	6.5	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Lead	10000		4.6	0.96	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Molybdenum	1.7	J	4.6	0.59	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Nickel	99	B	4.6	0.47	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Selenium	8.2	J	9.2	1.4	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Silver	11		2.3	0.46	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Thallium	ND		4.6	1.3	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Vanadium	37		4.6	0.62	mg/Kg		02/01/19 15:27	02/13/19 12:01	10
Zinc	4700		14	5.8	mg/Kg		02/01/19 15:27	02/13/19 12:01	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0	B	0.015	0.0022	mg/Kg		02/13/19 18:00	02/14/19 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.6		0.1	0.05	%			02/04/19 15:15	1

Client Sample ID: DG-AP12S-3.5-4 Lab Sample ID: 720-91107-24

Date Collected: 01/31/19 13:30 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	36		3.8	0.63	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Arsenic	23		7.6	0.64	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Barium	1200	B	3.8	0.54	mg/Kg		02/01/19 15:27	02/13/19 20:34	10
Beryllium	0.51	J	0.76	0.25	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Cadmium	2.4		0.95	0.094	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Chromium	48		3.8	0.40	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Cobalt	9.6		1.5	0.15	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Copper	1000		11	5.4	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Lead	5100		3.8	0.80	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Molybdenum	1.1	J	3.8	0.48	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Nickel	49	B	3.8	0.39	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Selenium	7.2	J	7.6	1.1	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Silver	5.6		1.9	0.38	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Thallium	ND		3.8	1.1	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Vanadium	27		3.8	0.52	mg/Kg		02/01/19 15:27	02/13/19 12:05	10
Zinc	2500		11	4.8	mg/Kg		02/01/19 15:27	02/13/19 12:05	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3	B	0.060	0.0088	mg/Kg		02/13/19 18:00	02/14/19 08:52	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.3		0.1	0.05	%			02/04/19 15:15	1

Client Sample ID: DG-AP11S-0.5-1 Lab Sample ID: 720-91107-25

Date Collected: 01/31/19 13:15 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.5	0.24	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Arsenic	3.4		2.9	0.25	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Barium	87	B	1.5	0.21	mg/Kg		02/01/19 15:27	02/13/19 20:48	4
Beryllium	ND		0.29	0.095	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Cadmium	0.27	J	0.36	0.036	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Chromium	45		1.5	0.15	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Cobalt	10		0.58	0.058	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Copper	100		4.4	2.1	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Lead	120		1.5	0.31	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Molybdenum	0.80	J	1.5	0.19	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Nickel	66	B	1.5	0.15	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Selenium	0.82	J	2.9	0.44	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Silver	0.30	J	0.73	0.15	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Thallium	0.63	J	1.5	0.42	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Vanadium	60		1.5	0.20	mg/Kg		02/01/19 15:27	02/13/19 12:10	4
Zinc	110		4.4	1.9	mg/Kg		02/01/19 15:27	02/13/19 12:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069	B	0.014	0.0021	mg/Kg		02/13/19 18:00	02/14/19 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AP11S-3.5-4

Date Collected: 01/31/19 13:15
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	60		3.5	0.58	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Arsenic	33		6.9	0.59	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Barium	1600		3.5	0.49	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Beryllium	1.0		0.69	0.23	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Cadmium	7.3		0.87	0.086	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Chromium	43		3.5	0.37	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Cobalt	10		1.4	0.14	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Copper	920		10	4.9	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Lead	7700	B	3.5	0.73	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Molybdenum	2.5	J	3.5	0.44	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Nickel	32		3.5	0.35	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Selenium	7.5	B	6.9	1.0	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Silver	7.2	B	1.7	0.35	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Thallium	ND		3.5	1.0	mg/Kg		02/01/19 16:39	03/16/19 20:27	10
Vanadium	32		3.5	0.47	mg/Kg		02/01/19 16:39	02/13/19 16:34	10
Zinc	2500		10	4.4	mg/Kg		02/01/19 16:39	02/13/19 16:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36	B	0.015	0.0021	mg/Kg		02/13/19 18:00	02/14/19 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.4		0.1	0.05	%			02/04/19 15:15	1

Client Sample ID: DG-AS10S-0.5-1 Lab Sample ID: 720-91107-27

Date Collected: 01/31/19 14:00 **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	76		4.7	0.78	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Arsenic	35		9.3	0.79	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Barium	1500		4.7	0.66	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Beryllium	0.46	J	0.93	0.30	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Cadmium	4.3		1.2	0.12	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Chromium	99		4.7	0.50	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Cobalt	14		1.9	0.19	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Copper	19000		14	6.7	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Lead	6900	B	4.7	0.98	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Molybdenum	2.1	J	4.7	0.60	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Nickel	74		4.7	0.48	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Selenium	10	B	9.3	1.4	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Silver	8.0	B	2.3	0.47	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Thallium	ND		4.7	1.4	mg/Kg		02/01/19 16:39	03/16/19 20:32	10
Vanadium	46		4.7	0.64	mg/Kg		02/01/19 16:39	02/13/19 16:39	10
Zinc	3400		14	5.9	mg/Kg		02/01/19 16:39	02/13/19 16:39	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/14/19 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.4		0.1	0.05	%			02/04/19 15:15	1

Client Sample ID: DG-AS10S-3.5-4 — Lab Sample ID: 720-91107-28

Date Collected: 01/31/19 14:00 — **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	23		1.8	0.30	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Arsenic	22		3.6	0.30	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Barium	920		1.8	0.25	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Beryllium	0.33	J	0.36	0.12	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Cadmium	3.8		0.45	0.044	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Chromium	89		1.8	0.19	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Cobalt	12		0.71	0.071	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Copper	680		5.4	2.5	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Lead	2700	B	1.8	0.38	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Molybdenum	1.3	J	1.8	0.23	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Nickel	77		1.8	0.18	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Selenium	4.8	B	3.6	0.54	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Silver	3.4	B	0.89	0.18	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Thallium	ND		1.8	0.52	mg/Kg		02/01/19 16:39	03/16/19 20:37	4
Vanadium	39		1.8	0.24	mg/Kg		02/01/19 16:39	02/13/19 16:43	4
Zinc	3000		5.4	2.3	mg/Kg		02/01/19 16:39	02/13/19 16:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.98	B	0.016	0.0023	mg/Kg		02/13/19 18:00	02/14/19 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.4		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AR10S-0.5-1
Lab Sample ID: 720-91107-29
Date Collected: 01/31/19 13:45
Matrix: Solid
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	66		4.7	0.78	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Arsenic	43		9.4	0.80	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Barium	1900		4.7	0.67	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Beryllium	0.56	J	0.94	0.31	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Cadmium	7.8		1.2	0.12	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Chromium	88		4.7	0.50	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Cobalt	15		1.9	0.19	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Copper	1900		14	6.7	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Lead	9800	B	4.7	0.99	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Molybdenum	2.1	J	4.7	0.60	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Nickel	78		4.7	0.48	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Selenium	3.1	J B	9.4	1.4	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Silver	8.5	B	2.4	0.48	mg/Kg		02/01/19 16:39	02/14/19 16:07	10
Thallium	3.0	J	4.7	1.4	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Vanadium	33		4.7	0.64	mg/Kg		02/01/19 16:39	02/14/19 14:15	10
Zinc	4700		14	6.0	mg/Kg		02/01/19 16:39	02/14/19 14:15	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.0	B	0.15	0.022	mg/Kg		02/13/19 18:00	02/14/19 09:04	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.3		0.1	0.05	%			02/04/19 15:15	1

Client Sample ID: DG-AR10S-3.5-4 — Lab Sample ID: 720-91107-30

Date Collected: 01/31/19 13:45 — **Matrix: Solid**
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	65		4.2	0.70	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Arsenic	24		8.5	0.72	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Barium	2100		4.2	0.60	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Beryllium	0.89		0.85	0.28	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Cadmium	6.3		1.1	0.11	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Chromium	53		4.2	0.45	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Cobalt	10		1.7	0.17	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Copper	1800		13	6.0	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Lead	6900	B	4.2	0.89	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Molybdenum	1.2	J	4.2	0.54	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Nickel	67		4.2	0.43	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Selenium	2.4	J B	8.5	1.3	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Silver	7.4	B	2.1	0.43	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Thallium	2.0	J	4.2	1.2	mg/Kg		02/01/19 16:39	03/16/19 20:46	10
Vanadium	34		4.2	0.58	mg/Kg		02/01/19 16:39	02/13/19 17:03	10
Zinc	4900		13	5.4	mg/Kg		02/01/19 16:39	02/13/19 17:03	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6	B	0.062	0.0091	mg/Kg		02/13/19 18:00	02/14/19 09:21	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.3		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AO12S-0.5-1

Date Collected: 01/31/19 14:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-31

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	45		1.9	0.32	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Arsenic	36		3.9	0.33	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Barium	1400		1.9	0.28	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Beryllium	0.49		0.39	0.13	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Cadmium	5.7		0.49	0.048	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Chromium	88		1.9	0.21	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Cobalt	11		0.78	0.078	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Copper	1400		5.8	2.8	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Lead	4800	B	1.9	0.41	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Molybdenum	1.6	J	1.9	0.25	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Nickel	73		1.9	0.20	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Selenium	5.8	B	3.9	0.58	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Silver	8.0	B	0.97	0.20	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Thallium	ND		1.9	0.56	mg/Kg		02/01/19 16:39	03/16/19 21:01	4
Vanadium	42		1.9	0.26	mg/Kg		02/01/19 16:39	02/13/19 17:07	4
Zinc	3500		5.8	2.5	mg/Kg		02/01/19 16:39	02/13/19 17:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.65	B	0.015	0.0022	mg/Kg		02/13/19 18:00	02/14/19 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.7		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AO12S-3.5-4

Date Collected: 01/31/19 14:20
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-32

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	57		8.9	1.5	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Arsenic	54		18	1.5	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Barium	1900		1.8	0.25	mg/Kg		02/01/19 16:39	02/13/19 17:12	4
Beryllium	0.24	J	0.36	0.12	mg/Kg		02/01/19 16:39	02/13/19 17:12	4
Cadmium	6.0		2.2	0.22	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Chromium	59		8.9	0.95	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Cobalt	13		3.6	0.36	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Copper	640		27	13	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Lead	6000	B	8.9	1.9	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Molybdenum	1.7	J	1.8	0.23	mg/Kg		02/01/19 16:39	02/13/19 17:12	4
Nickel	47		8.9	0.91	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Selenium	ND		18	2.7	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Silver	5.1	B	4.5	0.90	mg/Kg		02/01/19 16:39	02/14/19 16:12	20
Thallium	ND		8.9	2.6	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Vanadium	41		8.9	1.2	mg/Kg		02/01/19 16:39	02/14/19 14:20	20
Zinc	2700		27	11	mg/Kg		02/01/19 16:39	02/14/19 14:20	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	B	0.017	0.0025	mg/Kg		02/13/19 18:00	02/14/19 09:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.6		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AM13S-0.5-1

Date Collected: 01/31/19 15:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-33

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	10		3.5	0.58	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Arsenic	35		6.9	0.59	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Barium	130		1.4	0.20	mg/Kg		02/01/19 16:39	02/13/19 17:17	4
Beryllium	ND		0.28	0.090	mg/Kg		02/01/19 16:39	02/13/19 17:17	4
Cadmium	1.1		0.87	0.086	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Chromium	21		3.5	0.37	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Cobalt	7.8		1.4	0.14	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Copper	81		10	4.9	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Lead	220	B	3.5	0.73	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Molybdenum	0.52	J	1.4	0.18	mg/Kg		02/01/19 16:39	02/13/19 17:17	4
Nickel	21		3.5	0.35	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Selenium	ND		6.9	1.0	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Silver	ND		1.7	0.35	mg/Kg		02/01/19 16:39	02/14/19 16:17	10
Thallium	ND		3.5	1.0	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Vanadium	33		3.5	0.47	mg/Kg		02/01/19 16:39	02/14/19 14:24	10
Zinc	250		10	4.4	mg/Kg		02/01/19 16:39	02/14/19 14:24	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	B	0.016	0.0024	mg/Kg		02/13/19 18:00	02/14/19 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AM13S-3.5-4
Lab Sample ID: 720-91107-34
Date Collected: 01/31/19 15:00
Matrix: Solid
Date Received: 01/31/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	6.2		4.4	0.73	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Arsenic	17	F1	8.8	0.75	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Barium	370		4.4	0.63	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Beryllium	ND	F1	0.88	0.29	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Cadmium	0.79	J F1	1.1	0.11	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Chromium	19	F1	4.4	0.47	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Cobalt	3.7	F1	1.8	0.18	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Copper	220	F2	13	6.3	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Lead	960	B F2	4.4	0.93	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Molybdenum	ND		4.4	0.57	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Nickel	18	F1	4.4	0.45	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Selenium	ND	F1	8.8	1.3	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Silver	1.9	J B F1	2.2	0.45	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Thallium	ND		4.4	1.3	mg/Kg		02/01/19 16:39	03/16/19 20:22	10
Vanadium	20	F1	4.4	0.60	mg/Kg		02/01/19 16:39	02/13/19 16:29	10
Zinc	660	F2	13	5.6	mg/Kg		02/01/19 16:39	02/13/19 16:29	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.015	0.0021	mg/Kg		02/08/19 09:15	02/08/19 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.2		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DUP-78

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-35

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.4	0.23	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Arsenic	4.0		2.7	0.23	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Barium	150		1.4	0.19	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Beryllium	ND		0.27	0.088	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Cadmium	0.80		0.34	0.034	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Chromium	26		1.4	0.14	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Cobalt	8.9		0.54	0.054	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Copper	150		4.1	1.9	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Lead	240	B	1.4	0.29	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Molybdenum	1.2	J	1.4	0.17	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Nickel	18		1.4	0.14	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Selenium	0.61	J B	2.7	0.41	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Silver	0.45	J B	0.68	0.14	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Thallium	ND		1.4	0.39	mg/Kg		02/01/19 16:39	03/16/19 21:15	4
Vanadium	76		1.4	0.19	mg/Kg		02/01/19 16:39	02/13/19 17:22	4
Zinc	260		4.1	1.7	mg/Kg		02/01/19 16:39	02/13/19 17:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.015	0.0022	mg/Kg		02/08/19 09:15	02/08/19 17:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DUP-95

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-36

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.8		1.4	0.24	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Arsenic	21		2.8	0.24	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Barium	150		1.4	0.20	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Beryllium	ND		0.28	0.092	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Cadmium	0.69		0.35	0.035	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Chromium	17		1.4	0.15	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Cobalt	5.9		0.57	0.057	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Copper	160		4.3	2.0	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Lead	290	B	1.4	0.30	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Molybdenum	0.20	J	1.4	0.18	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Nickel	19		1.4	0.14	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Selenium	ND		2.8	0.43	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Silver	0.44	J B	0.71	0.14	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Thallium	ND		1.4	0.41	mg/Kg		02/01/19 16:39	03/16/19 21:20	4
Vanadium	35		1.4	0.19	mg/Kg		02/01/19 16:39	02/13/19 17:27	4
Zinc	270		4.3	1.8	mg/Kg		02/01/19 16:39	02/13/19 17:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.014	0.0021	mg/Kg		02/08/19 09:15	02/08/19 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.8		0.1	0.05	%			02/04/19 15:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DUP-84

Date Collected: 01/31/19 00:00
Date Received: 01/31/19 18:50

Lab Sample ID: 720-91107-37

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.6	0.27	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Arsenic	13		3.3	0.28	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Barium	71		1.6	0.23	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Beryllium	ND		0.33	0.11	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Cadmium	0.19	J	0.41	0.041	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Chromium	33		1.6	0.17	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Cobalt	8.9		0.66	0.066	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Copper	240		4.9	2.3	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Lead	290	B	1.6	0.34	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Molybdenum	2.3		1.6	0.21	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Nickel	150		1.6	0.17	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Selenium	2.5	J B	3.3	0.49	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Silver	0.34	J B	0.82	0.17	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Thallium	ND		1.6	0.48	mg/Kg		02/01/19 16:39	03/16/19 21:25	4
Vanadium	170		1.6	0.22	mg/Kg		02/01/19 16:39	02/13/19 17:31	4
Zinc	91		4.9	2.1	mg/Kg		02/01/19 16:39	02/13/19 17:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.016	0.0024	mg/Kg		02/08/19 09:15	02/08/19 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.0		0.1	0.05	%			02/04/19 15:15	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259672/1-A
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.196	J	0.50	0.083	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Arsenic	ND		1.0	0.085	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Barium	ND		0.50	0.071	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Beryllium	0.0359	J	0.10	0.033	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Cadmium	ND		0.13	0.012	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Chromium	ND		0.50	0.053	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Cobalt	ND		0.20	0.020	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Copper	ND		1.5	0.71	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Lead	ND		0.50	0.11	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Nickel	ND		0.50	0.051	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Selenium	0.236	J	1.0	0.15	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Silver	ND		0.25	0.051	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Thallium	ND		0.50	0.15	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Vanadium	ND		0.50	0.068	mg/Kg		02/13/19 08:41	02/14/19 10:04	1
Zinc	ND		1.5	0.64	mg/Kg		02/13/19 08:41	02/14/19 10:04	1

Lab Sample ID: LCS 720-259672/2-A
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.5		mg/Kg		99	80 - 120
Arsenic	50.0	50.9		mg/Kg		102	80 - 120
Barium	50.0	53.5		mg/Kg		107	80 - 120
Beryllium	50.0	52.7		mg/Kg		105	80 - 120
Cadmium	50.0	51.6		mg/Kg		103	80 - 120
Chromium	50.0	51.5		mg/Kg		103	80 - 120
Cobalt	50.0	51.8		mg/Kg		104	80 - 120
Copper	50.0	52.4		mg/Kg		105	80 - 120
Lead	50.0	52.0		mg/Kg		104	80 - 120
Molybdenum	50.0	53.3		mg/Kg		107	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	49.6		mg/Kg		99	80 - 120
Silver	25.0	25.1		mg/Kg		100	80 - 120
Thallium	50.0	52.1		mg/Kg		104	80 - 120
Vanadium	50.0	52.2		mg/Kg		104	80 - 120
Zinc	50.0	50.9		mg/Kg		102	80 - 120

Lab Sample ID: 720-91106-A-6-D MS
Matrix: Solid
Analysis Batch: 260374

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.2	J B F1	48.1	16.3	F1	mg/Kg		31	75 - 125
Arsenic	3.3	J	48.1	50.6		mg/Kg		98	75 - 125
Barium	89	F1	48.1	154	F1	mg/Kg		136	75 - 125
Beryllium	0.72	B	48.1	54.6		mg/Kg		112	75 - 125
Cadmium	0.27	J	48.1	49.8		mg/Kg		103	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91106-A-6-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260374 — **Prep Batch: 259672**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	120	F1	48.1	154	F1	mg/Kg		62	75 - 125
Cobalt	19		48.1	67.5		mg/Kg		100	75 - 125
Copper	31		48.1	85.4		mg/Kg		113	75 - 125
Lead	10		48.1	59.2		mg/Kg		102	75 - 125
Molybdenum	ND		48.1	46.8		mg/Kg		97	75 - 125
Nickel	130	F1	48.1	165	F1	mg/Kg		71	75 - 125
Selenium	0.81	J B	48.1	47.3		mg/Kg		97	75 - 125
Silver	0.27	J	24.0	25.6		mg/Kg		105	75 - 125
Thallium	ND		48.1	46.3		mg/Kg		96	75 - 125
Vanadium	63	F1	48.1	126	F1	mg/Kg		132	75 - 125
Zinc	61		48.1	108		mg/Kg		99	75 - 125

Lab Sample ID: 720-91106-A-6-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260374 — **Prep Batch: 259672**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.2	J B F1	49.0	18.8	F1	mg/Kg		36	75 - 125	15	20
Arsenic	3.3	J	49.0	53.1		mg/Kg		102	75 - 125	5	20
Barium	89	F1	49.0	160	F1	mg/Kg		147	75 - 125	4	20
Beryllium	0.72	B	49.0	61.3		mg/Kg		124	75 - 125	11	20
Cadmium	0.27	J	49.0	54.5		mg/Kg		111	75 - 125	9	20
Chromium	120	F1	49.0	169		mg/Kg		92	75 - 125	9	20
Cobalt	19		49.0	72.5		mg/Kg		109	75 - 125	7	20
Copper	31		49.0	88.2		mg/Kg		117	75 - 125	3	20
Lead	10		49.0	60.4		mg/Kg		103	75 - 125	2	20
Molybdenum	ND		49.0	51.0		mg/Kg		104	75 - 125	9	20
Nickel	130	F1	49.0	175		mg/Kg		89	75 - 125	6	20
Selenium	0.81	J B	49.0	51.5		mg/Kg		103	75 - 125	9	20
Silver	0.27	J	24.5	27.3		mg/Kg		110	75 - 125	6	20
Thallium	ND		49.0	52.7		mg/Kg		108	75 - 125	13	20
Vanadium	63	F1	49.0	131	F1	mg/Kg		139	75 - 125	4	20
Zinc	61		49.0	107		mg/Kg		95	75 - 125	1	20

Lab Sample ID: MB 720-259683/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260288 — **Prep Batch: 259683**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Arsenic	ND		1.0	0.085	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Beryllium	ND		0.10	0.033	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Cadmium	ND		0.13	0.012	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Chromium	ND		0.50	0.053	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Cobalt	ND		0.20	0.020	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Copper	ND		1.5	0.71	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Lead	ND		0.50	0.11	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Nickel	0.0587	J	0.50	0.051	mg/Kg		02/01/19 15:27	02/13/19 09:52	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259683/1-A
Matrix: Solid
Analysis Batch: 260288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0	0.15	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Silver	ND		0.25	0.051	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Thallium	ND		0.50	0.15	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Vanadium	ND		0.50	0.068	mg/Kg		02/01/19 15:27	02/13/19 09:52	1
Zinc	ND		1.5	0.64	mg/Kg		02/01/19 15:27	02/13/19 09:52	1

Lab Sample ID: MB 720-259683/1-A
Matrix: Solid
Analysis Batch: 260328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.119	J	0.50	0.071	mg/Kg		02/01/19 15:27	02/13/19 18:20	1

Lab Sample ID: MB 720-259683/1-A
Matrix: Solid
Analysis Batch: 262160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		2.0	0.58	mg/Kg		02/01/19 15:27	03/16/19 19:06	4

Lab Sample ID: LCS 720-259683/2-A
Matrix: Solid
Analysis Batch: 260288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.0		mg/Kg		92	80 - 120
Arsenic	50.0	47.6		mg/Kg		95	80 - 120
Beryllium	50.0	47.1		mg/Kg		94	80 - 120
Cadmium	50.0	46.8		mg/Kg		94	80 - 120
Chromium	50.0	48.5		mg/Kg		97	80 - 120
Cobalt	50.0	47.0		mg/Kg		94	80 - 120
Copper	50.0	48.0		mg/Kg		96	80 - 120
Lead	50.0	47.3		mg/Kg		95	80 - 120
Molybdenum	50.0	49.7		mg/Kg		99	80 - 120
Nickel	50.0	44.7		mg/Kg		89	80 - 120
Selenium	50.0	45.0		mg/Kg		90	80 - 120
Silver	25.0	22.7		mg/Kg		91	80 - 120
Thallium	50.0	49.2		mg/Kg		98	80 - 120
Vanadium	50.0	46.9		mg/Kg		94	80 - 120
Zinc	50.0	45.0		mg/Kg		90	80 - 120

Lab Sample ID: LCS 720-259683/2-A
Matrix: Solid
Analysis Batch: 260328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	50.0	47.4		mg/Kg		95	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259683/2-A
Matrix: Solid
Analysis Batch: 262160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: 720-91107-5 MS
Matrix: Solid
Analysis Batch: 260288

Client Sample ID: DG-AD8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	29	F1 F2	48.1	47.2	F1	mg/Kg		38	75 - 125
Arsenic	14		48.1	66.6		mg/Kg		109	75 - 125
Beryllium	0.72		48.1	57.2		mg/Kg		117	75 - 125
Cadmium	2.5		48.1	52.3		mg/Kg		104	75 - 125
Chromium	29	F1	48.1	102	F1	mg/Kg		153	75 - 125
Cobalt	5.5		48.1	54.5		mg/Kg		102	75 - 125
Copper	500	F2	48.1	691	4	mg/Kg		407	75 - 125
Lead	4200		48.1	7060	4	mg/Kg		5842	75 - 125
Molybdenum	1.1	J	48.1	51.5		mg/Kg		105	75 - 125
Nickel	24	B	48.1	78.8		mg/Kg		114	75 - 125
Selenium	1.2	J	48.1	48.0		mg/Kg		97	75 - 125
Silver	3.8		24.0	31.5		mg/Kg		115	75 - 125
Thallium	ND		48.1	47.2		mg/Kg		98	75 - 125
Vanadium	26	F1	48.1	85.0		mg/Kg		122	75 - 125
Zinc	1900		48.1	1950	4	mg/Kg		111	75 - 125

Lab Sample ID: 720-91107-5 MS
Matrix: Solid
Analysis Batch: 260328

Client Sample ID: DG-AD8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1200	B	48.1	1560	4	mg/Kg		730	75 - 125

Lab Sample ID: 720-91107-5 MS
Matrix: Solid
Analysis Batch: 262160

Client Sample ID: DG-AD8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		48.1	47.2		mg/Kg		98	75 - 125

Lab Sample ID: 720-91107-5 MSD
Matrix: Solid
Analysis Batch: 260288

Client Sample ID: DG-AD8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	29	F1 F2	47.2	110	F1 F2	mg/Kg		172	75 - 125	80	20
Arsenic	14		47.2	64.5		mg/Kg		107	75 - 125	3	20
Beryllium	0.72		47.2	56.0		mg/Kg		117	75 - 125	2	20
Cadmium	2.5		47.2	51.4		mg/Kg		104	75 - 125	2	20
Chromium	29	F1	47.2	98.1	F1	mg/Kg		147	75 - 125	4	20
Cobalt	5.5		47.2	54.6		mg/Kg		104	75 - 125	0	20
Copper	500	F2	47.2	956	4 F2	mg/Kg		976	75 - 125	32	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91107-5 MSD
Matrix: Solid
Analysis Batch: 260288

Client Sample ID: DG-AD8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	4200		47.2	7820	4	mg/Kg		7571	75 - 125	10	20
Molybdenum	1.1	J	47.2	50.9		mg/Kg		106	75 - 125	1	20
Nickel	24	B	47.2	79.7		mg/Kg		118	75 - 125	1	20
Selenium	1.2	J	47.2	48.8		mg/Kg		101	75 - 125	2	20
Silver	3.8		23.6	30.9		mg/Kg		115	75 - 125	2	20
Thallium	ND		47.2	47.2		mg/Kg		100	75 - 125	0	20
Vanadium	26	F1	47.2	86.0	F1	mg/Kg		127	75 - 125	1	20
Zinc	1900		47.2	1870	4	mg/Kg		-50	75 - 125	4	20

Lab Sample ID: 720-91107-5 MSD
Matrix: Solid
Analysis Batch: 260328

Client Sample ID: DG-AD8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	1200	B	47.2	1470	4	mg/Kg		555	75 - 125	6	20

Lab Sample ID: 720-91107-5 MSD
Matrix: Solid
Analysis Batch: 262160

Client Sample ID: DG-AD8S-0.5-1
Prep Type: Total/NA
Prep Batch: 259683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		47.2	44.7		mg/Kg		95	75 - 125	5	20

Lab Sample ID: MB 720-259688/1-A
Matrix: Solid
Analysis Batch: 260327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Arsenic	ND		1.0	0.085	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Barium	ND		0.50	0.071	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Beryllium	ND		0.10	0.033	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Cadmium	ND		0.13	0.012	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Chromium	ND		0.50	0.053	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Cobalt	ND		0.20	0.020	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Copper	ND		1.5	0.71	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Lead	0.250	J	0.50	0.11	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Nickel	ND		0.50	0.051	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Selenium	0.157	J	1.0	0.15	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Silver	0.0512	J	0.25	0.051	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Vanadium	ND		0.50	0.068	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Zinc	ND		1.5	0.64	mg/Kg		02/01/19 16:39	02/13/19 16:01	1

Lab Sample ID: MB 720-259688/1-A
Matrix: Solid
Analysis Batch: 262161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		2.0	0.58	mg/Kg		02/01/19 16:39	03/16/19 19:44	4

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 720-259688/2-A
Matrix: Solid
Analysis Batch: 260327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.2		mg/Kg		90	80 - 120
Arsenic	50.0	46.7		mg/Kg		93	80 - 120
Barium	50.0	46.7		mg/Kg		93	80 - 120
Beryllium	50.0	46.8		mg/Kg		94	80 - 120
Cadmium	50.0	48.9		mg/Kg		98	80 - 120
Chromium	50.0	48.0		mg/Kg		96	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	50.0	49.6		mg/Kg		99	80 - 120
Lead	50.0	50.3		mg/Kg		101	80 - 120
Molybdenum	50.0	49.0		mg/Kg		98	80 - 120
Nickel	50.0	49.4		mg/Kg		99	80 - 120
Selenium	50.0	48.5		mg/Kg		97	80 - 120
Silver	25.0	24.1		mg/Kg		97	80 - 120
Vanadium	50.0	49.1		mg/Kg		98	80 - 120
Zinc	50.0	50.4		mg/Kg		101	80 - 120

Lab Sample ID: LCS 720-259688/2-A
Matrix: Solid
Analysis Batch: 262161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	49.1		mg/Kg		98	80 - 120

Lab Sample ID: 720-91107-34 MS
Matrix: Solid
Analysis Batch: 260327

Client Sample ID: DG-AM13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	6.2		45.5	42.3		mg/Kg		79	75 - 125
Arsenic	17	F1	45.5	78.7	F1	mg/Kg		137	75 - 125
Barium	370		45.5	465	4	mg/Kg		212	75 - 125
Beryllium	ND	F1	45.5	58.8	F1	mg/Kg		129	75 - 125
Cadmium	0.79	J F1	45.5	58.0	F1	mg/Kg		126	75 - 125
Chromium	19	F1	45.5	85.9	F1	mg/Kg		147	75 - 125
Cobalt	3.7	F1	45.5	61.9	F1	mg/Kg		128	75 - 125
Copper	220	F2	45.5	399	4	mg/Kg		400	75 - 125
Lead	960	B F2	45.5	1560	4	mg/Kg		1318	75 - 125
Molybdenum	ND		45.5	55.4		mg/Kg		122	75 - 125
Nickel	18	F1	45.5	84.6	F1	mg/Kg		147	75 - 125
Selenium	ND	F1	45.5	58.5	F1	mg/Kg		129	75 - 125
Silver	1.9	J B F1	22.7	32.5	F1	mg/Kg		135	75 - 125
Vanadium	20	F1	45.5	88.1	F1	mg/Kg		150	75 - 125
Zinc	660	F2	45.5	957	4	mg/Kg		649	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91107-34 MS
Matrix: Solid
Analysis Batch: 262161

Client Sample ID: DG-AM13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		45.5	49.2		mg/Kg		108	75 - 125

Lab Sample ID: 720-91107-34 MSD
Matrix: Solid
Analysis Batch: 260327

Client Sample ID: DG-AM13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	6.2		44.6	42.5		mg/Kg		81	75 - 125	1	20
Arsenic	17	F1	44.6	81.7	F1	mg/Kg		146	75 - 125	4	20
Barium	370		44.6	394	4	mg/Kg		57	75 - 125	16	20
Beryllium	ND	F1	44.6	56.5	F1	mg/Kg		127	75 - 125	4	20
Cadmium	0.79	J F1	44.6	55.5		mg/Kg		123	75 - 125	4	20
Chromium	19	F1	44.6	78.1	F1	mg/Kg		133	75 - 125	9	20
Cobalt	3.7	F1	44.6	59.8	F1	mg/Kg		126	75 - 125	3	20
Copper	220	F2	44.6	277	4 F2	mg/Kg		134	75 - 125	36	20
Lead	960	B F2	44.6	875	4 F2	mg/Kg		-198	75 - 125	56	20
Molybdenum	ND		44.6	53.1		mg/Kg		119	75 - 125	4	20
Nickel	18	F1	44.6	77.2	F1	mg/Kg		134	75 - 125	9	20
Selenium	ND	F1	44.6	57.9	F1	mg/Kg		130	75 - 125	1	20
Silver	1.9	J B F1	22.3	30.4	F1	mg/Kg		127	75 - 125	7	20
Vanadium	20	F1	44.6	85.5	F1	mg/Kg		147	75 - 125	3	20
Zinc	660	F2	44.6	759	4 F2	mg/Kg		216	75 - 125	23	20

Lab Sample ID: 720-91107-34 MSD
Matrix: Solid
Analysis Batch: 262161

Client Sample ID: DG-AM13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		44.6	50.2		mg/Kg		112	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259564/1-A
Matrix: Solid
Analysis Batch: 260058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/08/19 09:15	02/08/19 13:54	1

Lab Sample ID: LCS 720-259564/2-A
Matrix: Solid
Analysis Batch: 260058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury			0.833	0.765		mg/Kg		92	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91107-34 MS
Matrix: Solid
Analysis Batch: 260135

Client Sample ID: DG-AM13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.19		0.704	0.969		mg/Kg		111	75 - 125

Lab Sample ID: 720-91107-34 MSD
Matrix: Solid
Analysis Batch: 260135

Client Sample ID: DG-AM13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19		0.704	0.878		mg/Kg		98	75 - 125	10	20

Lab Sample ID: MB 720-259674/1-A
Matrix: Solid
Analysis Batch: 260381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/13/19 17:30	02/14/19 13:33	1

Lab Sample ID: LCS 720-259674/2-A
Matrix: Solid
Analysis Batch: 260381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.789		mg/Kg		95	80 - 120

Lab Sample ID: 720-91106-A-6-A MS
Matrix: Solid
Analysis Batch: 260381

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.37	F1 F2	0.758	1.04		mg/Kg		88	75 - 125

Lab Sample ID: 720-91106-A-6-B MSD
Matrix: Solid
Analysis Batch: 260381

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259674

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.37	F1 F2	0.781	1.61	F1 F2	mg/Kg		159	75 - 125	43	20

Lab Sample ID: MB 720-259681/1-A
Matrix: Solid
Analysis Batch: 260354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00268	J	0.017	0.0025	mg/Kg		02/13/19 18:00	02/13/19 18:57	1

Lab Sample ID: LCS 720-259681/2-A
Matrix: Solid
Analysis Batch: 260354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.912		mg/Kg		109	80 - 120

Client: Geosyntec Consultants, Inc.
Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 7471A - Mercury (CVAA)

Lab Sample ID: 720-91107-21 MS
Matrix: Solid
Analysis Batch: 260354
Client Sample ID: DG-AD11S-0.5-1
Prep Type: Total/NA
Prep Batch: 259681

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.076	B	0.725	0.809		mg/Kg		101	75 - 125		

Lab Sample ID: 720-91107-21 MSD
Matrix: Solid
Analysis Batch: 260354
Client Sample ID: DG-AD11S-0.5-1
Prep Type: Total/NA
Prep Batch: 259681

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.076	B	0.735	0.825		mg/Kg		102	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91107-1 DU
Matrix: Solid
Analysis Batch: 259759
Client Sample ID: DG-AG8S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.9			15.5		%				11	20

Lab Sample ID: 720-91107-21 DU
Matrix: Solid
Analysis Batch: 259762
Client Sample ID: DG-AD11S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.4			7.4		%				0.7	20

Metals

Prep Batch: 259564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-34	DG-AM13S-3.5-4	Total/NA	Solid	7471A	
720-91107-35	DUP-78	Total/NA	Solid	7471A	
720-91107-36	DUP-95	Total/NA	Solid	7471A	
720-91107-37	DUP-84	Total/NA	Solid	7471A	
MB 720-259564/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259564/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91107-34 MS	DG-AM13S-3.5-4	Total/NA	Solid	7471A	
720-91107-34 MSD	DG-AM13S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 259672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-1	DG-AG8S-0.5-1	Total/NA	Solid	3050B	
720-91107-2	DG-AG8S-3.5-4	Total/NA	Solid	3050B	
720-91107-3	DG-AF8S-0.5-1	Total/NA	Solid	3050B	
720-91107-4	DG-AF8S-3.5-4	Total/NA	Solid	3050B	
MB 720-259672/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259672/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91106-A-6-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-91106-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-1	DG-AG8S-0.5-1	Total/NA	Solid	7471A	
720-91107-2	DG-AG8S-3.5-4	Total/NA	Solid	7471A	
720-91107-3	DG-AF8S-0.5-1	Total/NA	Solid	7471A	
720-91107-4	DG-AF8S-3.5-4	Total/NA	Solid	7471A	
720-91107-5	DG-AD8S-0.5-1	Total/NA	Solid	7471A	
720-91107-6	DG-AD8S-3.5-4	Total/NA	Solid	7471A	
720-91107-7	DG-AW2S-0.5-1	Total/NA	Solid	7471A	
720-91107-8	DG-AW2S-3.5-4	Total/NA	Solid	7471A	
720-91107-9	DUP-14	Total/NA	Solid	7471A	
720-91107-11	DG-AE8S-0.5-1	Total/NA	Solid	7471A	
720-91107-12	DG-AE8S-3.5-4	Total/NA	Solid	7471A	
720-91107-13	DG-AB8S-0.5-1	Total/NA	Solid	7471A	
MB 720-259674/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259674/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91106-A-6-A MS	Matrix Spike	Total/NA	Solid	7471A	
720-91106-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-14	DG-AB8S-3.5-4	Total/NA	Solid	7471A	
720-91107-15	DG-AC8S-0.5-1	Total/NA	Solid	7471A	
720-91107-16	DG-AC8S-3.5-4	Total/NA	Solid	7471A	
720-91107-17	DG-AD12S-0.5-1	Total/NA	Solid	7471A	
720-91107-18	DG-AD12S-3.5-4	Total/NA	Solid	7471A	
720-91107-19	DG-AC12S-0.5-1	Total/NA	Solid	7471A	
720-91107-20	DG-AC12S-3.5-4	Total/NA	Solid	7471A	
720-91107-21	DG-AD11S-0.5-1	Total/NA	Solid	7471A	
720-91107-22	DG-AD11S-3.5-4	Total/NA	Solid	7471A	
720-91107-23	DG-AP12S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-24	DG-AP12S-3.5-4	Total/NA	Solid	7471A	
720-91107-25	DG-AP11S-0.5-1	Total/NA	Solid	7471A	
720-91107-26	DG-AP11S-3.5-4	Total/NA	Solid	7471A	
720-91107-27	DG-AS10S-0.5-1	Total/NA	Solid	7471A	
720-91107-28	DG-AS10S-3.5-4	Total/NA	Solid	7471A	
720-91107-29	DG-AR10S-0.5-1	Total/NA	Solid	7471A	
720-91107-30	DG-AR10S-3.5-4	Total/NA	Solid	7471A	
720-91107-31	DG-AO12S-0.5-1	Total/NA	Solid	7471A	
720-91107-32	DG-AO12S-3.5-4	Total/NA	Solid	7471A	
720-91107-33	DG-AM13S-0.5-1	Total/NA	Solid	7471A	
MB 720-259681/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259681/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91107-21 MS	DG-AD11S-0.5-1	Total/NA	Solid	7471A	
720-91107-21 MSD	DG-AD11S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-5	DG-AD8S-0.5-1	Total/NA	Solid	3050B	
720-91107-6	DG-AD8S-3.5-4	Total/NA	Solid	3050B	
720-91107-7	DG-AW2S-0.5-1	Total/NA	Solid	3050B	
720-91107-8	DG-AW2S-3.5-4	Total/NA	Solid	3050B	
720-91107-9	DUP-14	Total/NA	Solid	3050B	
720-91107-11	DG-AE8S-0.5-1	Total/NA	Solid	3050B	
720-91107-12	DG-AE8S-3.5-4	Total/NA	Solid	3050B	
720-91107-13	DG-AB8S-0.5-1	Total/NA	Solid	3050B	
720-91107-14	DG-AB8S-3.5-4	Total/NA	Solid	3050B	
720-91107-15	DG-AC8S-0.5-1	Total/NA	Solid	3050B	
720-91107-16	DG-AC8S-3.5-4	Total/NA	Solid	3050B	
720-91107-17	DG-AD12S-0.5-1	Total/NA	Solid	3050B	
720-91107-18	DG-AD12S-3.5-4	Total/NA	Solid	3050B	
720-91107-19	DG-AC12S-0.5-1	Total/NA	Solid	3050B	
720-91107-20	DG-AC12S-3.5-4	Total/NA	Solid	3050B	
720-91107-21	DG-AD11S-0.5-1	Total/NA	Solid	3050B	
720-91107-22	DG-AD11S-3.5-4	Total/NA	Solid	3050B	
720-91107-23	DG-AP12S-0.5-1	Total/NA	Solid	3050B	
720-91107-24	DG-AP12S-3.5-4	Total/NA	Solid	3050B	
720-91107-25	DG-AP11S-0.5-1	Total/NA	Solid	3050B	
MB 720-259683/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259683/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91107-5 MS	DG-AD8S-0.5-1	Total/NA	Solid	3050B	
720-91107-5 MSD	DG-AD8S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-26	DG-AP11S-3.5-4	Total/NA	Solid	3050B	
720-91107-27	DG-AS10S-0.5-1	Total/NA	Solid	3050B	
720-91107-28	DG-AS10S-3.5-4	Total/NA	Solid	3050B	
720-91107-29	DG-AR10S-0.5-1	Total/NA	Solid	3050B	
720-91107-30	DG-AR10S-3.5-4	Total/NA	Solid	3050B	
720-91107-31	DG-AO12S-0.5-1	Total/NA	Solid	3050B	
720-91107-32	DG-AO12S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 259688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-33	DG-AM13S-0.5-1	Total/NA	Solid	3050B	
720-91107-34	DG-AM13S-3.5-4	Total/NA	Solid	3050B	
720-91107-35	DUP-78	Total/NA	Solid	3050B	
720-91107-36	DUP-95	Total/NA	Solid	3050B	
720-91107-37	DUP-84	Total/NA	Solid	3050B	
MB 720-259688/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259688/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91107-34 MS	DG-AM13S-3.5-4	Total/NA	Solid	3050B	
720-91107-34 MSD	DG-AM13S-3.5-4	Total/NA	Solid	3050B	

Analysis Batch: 260058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259564/1-A	Method Blank	Total/NA	Solid	7471A	259564
LCS 720-259564/2-A	Lab Control Sample	Total/NA	Solid	7471A	259564

Analysis Batch: 260135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-34	DG-AM13S-3.5-4	Total/NA	Solid	7471A	259564
720-91107-35	DUP-78	Total/NA	Solid	7471A	259564
720-91107-36	DUP-95	Total/NA	Solid	7471A	259564
720-91107-37	DUP-84	Total/NA	Solid	7471A	259564
720-91107-34 MS	DG-AM13S-3.5-4	Total/NA	Solid	7471A	259564
720-91107-34 MSD	DG-AM13S-3.5-4	Total/NA	Solid	7471A	259564

Analysis Batch: 260288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-5	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-6	DG-AD8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-7	DG-AW2S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-8	DG-AW2S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-9	DUP-14	Total/NA	Solid	6010B	259683
720-91107-11	DG-AE8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-12	DG-AE8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-13	DG-AB8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-14	DG-AB8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-15	DG-AC8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-16	DG-AC8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-17	DG-AD12S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-18	DG-AD12S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-19	DG-AC12S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-20	DG-AC12S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-21	DG-AD11S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-22	DG-AD11S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-23	DG-AP12S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-24	DG-AP12S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-25	DG-AP11S-0.5-1	Total/NA	Solid	6010B	259683
MB 720-259683/1-A	Method Blank	Total/NA	Solid	6010B	259683
LCS 720-259683/2-A	Lab Control Sample	Total/NA	Solid	6010B	259683
720-91107-5 MS	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-5 MSD	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683

Metals

Analysis Batch: 260327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-26	DG-AP11S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-27	DG-AS10S-0.5-1	Total/NA	Solid	6010B	259688
720-91107-28	DG-AS10S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-30	DG-AR10S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-31	DG-AO12S-0.5-1	Total/NA	Solid	6010B	259688
720-91107-32	DG-AO12S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-33	DG-AM13S-0.5-1	Total/NA	Solid	6010B	259688
720-91107-34	DG-AM13S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-35	DUP-78	Total/NA	Solid	6010B	259688
720-91107-36	DUP-95	Total/NA	Solid	6010B	259688
720-91107-37	DUP-84	Total/NA	Solid	6010B	259688
MB 720-259688/1-A	Method Blank	Total/NA	Solid	6010B	259688
LCS 720-259688/2-A	Lab Control Sample	Total/NA	Solid	6010B	259688
720-91107-34 MS	DG-AM13S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-34 MSD	DG-AM13S-3.5-4	Total/NA	Solid	6010B	259688

Analysis Batch: 260328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-5	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-6	DG-AD8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-7	DG-AW2S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-8	DG-AW2S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-9	DUP-14	Total/NA	Solid	6010B	259683
720-91107-11	DG-AE8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-12	DG-AE8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-13	DG-AB8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-14	DG-AB8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-15	DG-AC8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-16	DG-AC8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-17	DG-AD12S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-18	DG-AD12S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-19	DG-AC12S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-20	DG-AC12S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-21	DG-AD11S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-22	DG-AD11S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-23	DG-AP12S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-24	DG-AP12S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-25	DG-AP11S-0.5-1	Total/NA	Solid	6010B	259683
MB 720-259683/1-A	Method Blank	Total/NA	Solid	6010B	259683
LCS 720-259683/2-A	Lab Control Sample	Total/NA	Solid	6010B	259683
720-91107-5 MS	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-5 MSD	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683

Analysis Batch: 260354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-14	DG-AB8S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-15	DG-AC8S-0.5-1	Total/NA	Solid	7471A	259681
720-91107-16	DG-AC8S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-17	DG-AD12S-0.5-1	Total/NA	Solid	7471A	259681
720-91107-18	DG-AD12S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-21	DG-AD11S-0.5-1	Total/NA	Solid	7471A	259681

Metals (Continued)

Analysis Batch: 260354 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259681/1-A	Method Blank	Total/NA	Solid	7471A	259681
LCS 720-259681/2-A	Lab Control Sample	Total/NA	Solid	7471A	259681
720-91107-21 MS	DG-AD11S-0.5-1	Total/NA	Solid	7471A	259681
720-91107-21 MSD	DG-AD11S-0.5-1	Total/NA	Solid	7471A	259681

Analysis Batch: 260361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-19	DG-AC12S-0.5-1	Total/NA	Solid	7471A	259681
720-91107-20	DG-AC12S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-22	DG-AD11S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-23	DG-AP12S-0.5-1	Total/NA	Solid	7471A	259681
720-91107-24	DG-AP12S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-25	DG-AP11S-0.5-1	Total/NA	Solid	7471A	259681
720-91107-26	DG-AP11S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-27	DG-AS10S-0.5-1	Total/NA	Solid	7471A	259681
720-91107-28	DG-AS10S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-29	DG-AR10S-0.5-1	Total/NA	Solid	7471A	259681
720-91107-30	DG-AR10S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-31	DG-AO12S-0.5-1	Total/NA	Solid	7471A	259681
720-91107-32	DG-AO12S-3.5-4	Total/NA	Solid	7471A	259681
720-91107-33	DG-AM13S-0.5-1	Total/NA	Solid	7471A	259681

Analysis Batch: 260374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-1	DG-AG8S-0.5-1	Total/NA	Solid	6010B	259672
720-91107-2	DG-AG8S-3.5-4	Total/NA	Solid	6010B	259672
720-91107-3	DG-AF8S-0.5-1	Total/NA	Solid	6010B	259672
720-91107-4	DG-AF8S-3.5-4	Total/NA	Solid	6010B	259672
MB 720-259672/1-A	Method Blank	Total/NA	Solid	6010B	259672
LCS 720-259672/2-A	Lab Control Sample	Total/NA	Solid	6010B	259672
720-91106-A-6-D MS	Matrix Spike	Total/NA	Solid	6010B	259672
720-91106-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259672

Analysis Batch: 260381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-1	DG-AG8S-0.5-1	Total/NA	Solid	7471A	259674
720-91107-2	DG-AG8S-3.5-4	Total/NA	Solid	7471A	259674
720-91107-3	DG-AF8S-0.5-1	Total/NA	Solid	7471A	259674
720-91107-4	DG-AF8S-3.5-4	Total/NA	Solid	7471A	259674
720-91107-5	DG-AD8S-0.5-1	Total/NA	Solid	7471A	259674
720-91107-6	DG-AD8S-3.5-4	Total/NA	Solid	7471A	259674
720-91107-7	DG-AW2S-0.5-1	Total/NA	Solid	7471A	259674
720-91107-8	DG-AW2S-3.5-4	Total/NA	Solid	7471A	259674
720-91107-9	DUP-14	Total/NA	Solid	7471A	259674
720-91107-11	DG-AE8S-0.5-1	Total/NA	Solid	7471A	259674
720-91107-12	DG-AE8S-3.5-4	Total/NA	Solid	7471A	259674
720-91107-13	DG-AB8S-0.5-1	Total/NA	Solid	7471A	259674
MB 720-259674/1-A	Method Blank	Total/NA	Solid	7471A	259674
LCS 720-259674/2-A	Lab Control Sample	Total/NA	Solid	7471A	259674
720-91106-A-6-A MS	Matrix Spike	Total/NA	Solid	7471A	259674
720-91106-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259674

Metals

Analysis Batch: 260382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-29	DG-AR10S-0.5-1	Total/NA	Solid	6010B	259688
720-91107-32	DG-AO12S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-33	DG-AM13S-0.5-1	Total/NA	Solid	6010B	259688

Analysis Batch: 260388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-29	DG-AR10S-0.5-1	Total/NA	Solid	6010B	259688
720-91107-32	DG-AO12S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-33	DG-AM13S-0.5-1	Total/NA	Solid	6010B	259688

Analysis Batch: 261986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-5	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-6	DG-AD8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-7	DG-AW2S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-8	DG-AW2S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-9	DUP-14	Total/NA	Solid	6010B	259683
720-91107-11	DG-AE8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-12	DG-AE8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-13	DG-AB8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-14	DG-AB8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-16	DG-AC8S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-17	DG-AD12S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-18	DG-AD12S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-19	DG-AC12S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-20	DG-AC12S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-21	DG-AD11S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-22	DG-AD11S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-23	DG-AP12S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-24	DG-AP12S-3.5-4	Total/NA	Solid	6010B	259683
720-91107-25	DG-AP11S-0.5-1	Total/NA	Solid	6010B	259683
MB 720-259683/1-A	Method Blank	Total/NA	Solid	6010B	259683
LCS 720-259683/2-A	Lab Control Sample	Total/NA	Solid	6010B	259683
720-91107-5 MS	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-5 MSD	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683

Analysis Batch: 262160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-15	DG-AC8S-0.5-1	Total/NA	Solid	6010B	259683
MB 720-259683/1-A	Method Blank	Total/NA	Solid	6010B	259683
LCS 720-259683/2-A	Lab Control Sample	Total/NA	Solid	6010B	259683
720-91107-5 MS	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683
720-91107-5 MSD	DG-AD8S-0.5-1	Total/NA	Solid	6010B	259683

Analysis Batch: 262161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-26	DG-AP11S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-27	DG-AS10S-0.5-1	Total/NA	Solid	6010B	259688
720-91107-28	DG-AS10S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-30	DG-AR10S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-31	DG-AO12S-0.5-1	Total/NA	Solid	6010B	259688

Metals (Continued)

Analysis Batch: 262161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-34	DG-AM13S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-35	DUP-78	Total/NA	Solid	6010B	259688
720-91107-36	DUP-95	Total/NA	Solid	6010B	259688
720-91107-37	DUP-84	Total/NA	Solid	6010B	259688
MB 720-259688/1-A	Method Blank	Total/NA	Solid	6010B	259688
LCS 720-259688/2-A	Lab Control Sample	Total/NA	Solid	6010B	259688
720-91107-34 MS	DG-AM13S-3.5-4	Total/NA	Solid	6010B	259688
720-91107-34 MSD	DG-AM13S-3.5-4	Total/NA	Solid	6010B	259688

General Chemistry

Analysis Batch: 259759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-1	DG-AG8S-0.5-1	Total/NA	Solid	Moisture	
720-91107-2	DG-AG8S-3.5-4	Total/NA	Solid	Moisture	
720-91107-3	DG-AF8S-0.5-1	Total/NA	Solid	Moisture	
720-91107-4	DG-AF8S-3.5-4	Total/NA	Solid	Moisture	
720-91107-5	DG-AD8S-0.5-1	Total/NA	Solid	Moisture	
720-91107-6	DG-AD8S-3.5-4	Total/NA	Solid	Moisture	
720-91107-7	DG-AW2S-0.5-1	Total/NA	Solid	Moisture	
720-91107-8	DG-AW2S-3.5-4	Total/NA	Solid	Moisture	
720-91107-9	DUP-14	Total/NA	Solid	Moisture	
720-91107-11	DG-AE8S-0.5-1	Total/NA	Solid	Moisture	
720-91107-12	DG-AE8S-3.5-4	Total/NA	Solid	Moisture	
720-91107-13	DG-AB8S-0.5-1	Total/NA	Solid	Moisture	
720-91107-14	DG-AB8S-3.5-4	Total/NA	Solid	Moisture	
720-91107-15	DG-AC8S-0.5-1	Total/NA	Solid	Moisture	
720-91107-16	DG-AC8S-3.5-4	Total/NA	Solid	Moisture	
720-91107-17	DG-AD12S-0.5-1	Total/NA	Solid	Moisture	
720-91107-18	DG-AD12S-3.5-4	Total/NA	Solid	Moisture	
720-91107-19	DG-AC12S-0.5-1	Total/NA	Solid	Moisture	
720-91107-20	DG-AC12S-3.5-4	Total/NA	Solid	Moisture	
720-91107-1 DU	DG-AG8S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 259762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-21	DG-AD11S-0.5-1	Total/NA	Solid	Moisture	
720-91107-22	DG-AD11S-3.5-4	Total/NA	Solid	Moisture	
720-91107-23	DG-AP12S-0.5-1	Total/NA	Solid	Moisture	
720-91107-24	DG-AP12S-3.5-4	Total/NA	Solid	Moisture	
720-91107-25	DG-AP11S-0.5-1	Total/NA	Solid	Moisture	
720-91107-26	DG-AP11S-3.5-4	Total/NA	Solid	Moisture	
720-91107-27	DG-AS10S-0.5-1	Total/NA	Solid	Moisture	
720-91107-28	DG-AS10S-3.5-4	Total/NA	Solid	Moisture	
720-91107-29	DG-AR10S-0.5-1	Total/NA	Solid	Moisture	
720-91107-30	DG-AR10S-3.5-4	Total/NA	Solid	Moisture	
720-91107-31	DG-AO12S-0.5-1	Total/NA	Solid	Moisture	
720-91107-32	DG-AO12S-3.5-4	Total/NA	Solid	Moisture	
720-91107-33	DG-AM13S-0.5-1	Total/NA	Solid	Moisture	
720-91107-34	DG-AM13S-3.5-4	Total/NA	Solid	Moisture	
720-91107-35	DUP-78	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91107-36	DUP-95	Total/NA	Solid	Moisture	
720-91107-37	DUP-84	Total/NA	Solid	Moisture	
720-91107-21 DU	DG-AD11S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AG8S-0.5-1

Lab Sample ID: 720-91107-1

Date Collected: 01/31/19 08:25
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 12:08	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AG8S-3.5-4

Lab Sample ID: 720-91107-2

Date Collected: 01/31/19 08:25
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 12:12	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AF8S-0.5-1

Lab Sample ID: 720-91107-3

Date Collected: 01/31/19 08:35
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 12:17	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AF8S-3.5-4

Lab Sample ID: 720-91107-4

Date Collected: 01/31/19 08:35
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259672	02/13/19 08:41	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260374	02/14/19 12:22	BKR	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AD8S-0.5-1

Lab Sample ID: 720-91107-5

Date Collected: 01/31/19 08:45
Date Received: 01/31/19 18:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 10:21	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 10:21	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 18:59	OBI	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AD8S-3.5-4

Lab Sample ID: 720-91107-6

Date Collected: 01/31/19 08:45
Date Received: 01/31/19 18:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 10:26	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 10:26	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 19:03	OBI	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AW2S-0.5-1

Lab Sample ID: 720-91107-7

Date Collected: 01/31/19 09:00
Date Received: 01/31/19 18:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 10:30	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 10:30	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 19:08	OBI	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AW2S-3.5-4

Lab Sample ID: 720-91107-8

Date Collected: 01/31/19 09:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 10:35	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 10:35	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 19:13	OBI	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DUP-14

Lab Sample ID: 720-91107-9

Date Collected: 01/31/19 00:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 10:49	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 10:49	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 19:18	OBI	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AE8S-0.5-1

Lab Sample ID: 720-91107-11

Date Collected: 01/31/19 09:30

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 10:54	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 10:54	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 19:22	OBI	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AE8S-3.5-4

Lab Sample ID: 720-91107-12

Date Collected: 01/31/19 09:30

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 10:59	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 10:59	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 19:27	OBI	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AB8S-0.5-1

Lab Sample ID: 720-91107-13

Date Collected: 01/31/19 11:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 11:04	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 11:04	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 19:32	OBI	TAL PLS
Total/NA	Prep	7471A			259674	02/13/19 17:30	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260381	02/14/19 14:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AB8S-3.5-4

Lab Sample ID: 720-91107-14

Date Collected: 01/31/19 11:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 11:08	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 11:08	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 19:37	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260354	02/13/19 19:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AC8S-0.5-1

Lab Sample ID: 720-91107-15

Date Collected: 01/31/19 10:30

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262160	03/16/19 19:39	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 11:13	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260328	02/13/19 19:51	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260354	02/13/19 19:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AC8S-3.5-4

Lab Sample ID: 720-91107-16

Date Collected: 01/31/19 10:30

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260288	02/13/19 11:18	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261986	02/13/19 11:18	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260328	02/13/19 19:56	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260354	02/13/19 19:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AD12S-0.5-1

Lab Sample ID: 720-91107-17

Date Collected: 01/31/19 11:30

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 11:23	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 11:23	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 20:01	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260354	02/13/19 19:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AD12S-3.5-4

Lab Sample ID: 720-91107-18

Date Collected: 01/31/19 11:30

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 11:27	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 11:27	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 20:05	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260354	02/13/19 19:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AC12S-0.5-1

Lab Sample ID: 720-91107-19

Date Collected: 01/31/19 11:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 11:32	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 11:32	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 20:10	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 08:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Client Sample ID: DG-AC12S-3.5-4

Lab Sample ID: 720-91107-20

Date Collected: 01/31/19 11:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 11:46	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 11:46	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 20:15	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 08:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259759	02/04/19 14:46	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AD11S-0.5-1

Lab Sample ID: 720-91107-21

Date Collected: 01/31/19 11:45

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 11:51	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 11:51	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 20:20	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260354	02/13/19 19:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AD11S-3.5-4

Lab Sample ID: 720-91107-22

Date Collected: 01/31/19 11:45

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 11:56	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 11:56	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 20:24	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 08:47	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AP12S-0.5-1

Lab Sample ID: 720-91107-23

Date Collected: 01/31/19 13:30

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260288	02/13/19 12:01	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261986	02/13/19 12:01	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260328	02/13/19 20:29	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 08:49	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AP12S-3.5-4

Lab Sample ID: 720-91107-24

Date Collected: 01/31/19 13:30

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260288	02/13/19 12:05	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	261986	02/13/19 12:05	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260328	02/13/19 20:34	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260361	02/14/19 08:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AP11S-0.5-1

Lab Sample ID: 720-91107-25

Date Collected: 01/31/19 13:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260288	02/13/19 12:10	OBI	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261986	02/13/19 12:10	BKR	TAL PLS
Total/NA	Prep	3050B			259683	02/01/19 15:27	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260328	02/13/19 20:48	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 08:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AP11S-3.5-4

Lab Sample ID: 720-91107-26

Date Collected: 01/31/19 13:15

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	262161	03/16/19 20:27	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260327	02/13/19 16:34	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 08:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AS10S-0.5-1

Lab Sample ID: 720-91107-27

Date Collected: 01/31/19 14:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	262161	03/16/19 20:32	BKR	TAL PLS

Client Sample ID: DG-AS10S-0.5-1

Lab Sample ID: 720-91107-27

Date Collected: 01/31/19 14:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260327	02/13/19 16:39	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 08:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AS10S-3.5-4

Lab Sample ID: 720-91107-28

Date Collected: 01/31/19 14:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262161	03/16/19 20:37	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 16:43	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 09:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AR10S-0.5-1

Lab Sample ID: 720-91107-29

Date Collected: 01/31/19 13:45

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260382	02/14/19 14:15	OBI	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260388	02/14/19 16:07	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		10	260361	02/14/19 09:04	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AR10S-3.5-4

Lab Sample ID: 720-91107-30

Date Collected: 01/31/19 13:45

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	262161	03/16/19 20:46	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260327	02/13/19 17:03	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260361	02/14/19 09:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Client Sample ID: DG-AO12S-0.5-1

Lab Sample ID: 720-91107-31

Date Collected: 01/31/19 14:20
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262161	03/16/19 21:01	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 17:07	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 09:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AO12S-3.5-4

Lab Sample ID: 720-91107-32

Date Collected: 01/31/19 14:20
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260382	02/14/19 14:20	OBI	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 17:12	OBI	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260388	02/14/19 16:12	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 09:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AM13S-0.5-1

Lab Sample ID: 720-91107-33

Date Collected: 01/31/19 15:00
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260382	02/14/19 14:24	OBI	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 17:17	OBI	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260388	02/14/19 16:17	OBI	TAL PLS
Total/NA	Prep	7471A			259681	02/13/19 18:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260361	02/14/19 09:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DG-AM13S-3.5-4

Lab Sample ID: 720-91107-34

Date Collected: 01/31/19 15:00
Matrix: Solid
Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	262161	03/16/19 20:22	BKR	TAL PLS

Client Sample ID: DG-AM13S-3.5-4

Lab Sample ID: 720-91107-34

Date Collected: 01/31/19 15:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260327	02/13/19 16:29	OBI	TAL PLS
Total/NA	Prep	7471A			259564	02/08/19 09:15	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260135	02/08/19 17:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DUP-78

Lab Sample ID: 720-91107-35

Date Collected: 01/31/19 00:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262161	03/16/19 21:15	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 17:22	OBI	TAL PLS
Total/NA	Prep	7471A			259564	02/08/19 09:15	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260135	02/08/19 17:13	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DUP-95

Lab Sample ID: 720-91107-36

Date Collected: 01/31/19 00:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262161	03/16/19 21:20	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 17:27	OBI	TAL PLS
Total/NA	Prep	7471A			259564	02/08/19 09:15	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260135	02/08/19 17:15	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Client Sample ID: DUP-84

Lab Sample ID: 720-91107-37

Date Collected: 01/31/19 00:00

Matrix: Solid

Date Received: 01/31/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262161	03/16/19 21:25	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/01/19 16:39	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 17:31	OBI	TAL PLS
Total/NA	Prep	7471A			259564	02/08/19 09:15	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260135	02/08/19 17:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259762	02/04/19 15:15	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91107-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91107-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91107-1	DG-AG8S-0.5-1	Solid	01/31/19 08:25	01/31/19 18:50
720-91107-2	DG-AG8S-3.5-4	Solid	01/31/19 08:25	01/31/19 18:50
720-91107-3	DG-AF8S-0.5-1	Solid	01/31/19 08:35	01/31/19 18:50
720-91107-4	DG-AF8S-3.5-4	Solid	01/31/19 08:35	01/31/19 18:50
720-91107-5	DG-AD8S-0.5-1	Solid	01/31/19 08:45	01/31/19 18:50
720-91107-6	DG-AD8S-3.5-4	Solid	01/31/19 08:45	01/31/19 18:50
720-91107-7	DG-AW2S-0.5-1	Solid	01/31/19 09:00	01/31/19 18:50
720-91107-8	DG-AW2S-3.5-4	Solid	01/31/19 09:00	01/31/19 18:50
720-91107-9	DUP-14	Solid	01/31/19 00:00	01/31/19 18:50
720-91107-11	DG-AE8S-0.5-1	Solid	01/31/19 09:30	01/31/19 18:50
720-91107-12	DG-AE8S-3.5-4	Solid	01/31/19 09:30	01/31/19 18:50
720-91107-13	DG-AB8S-0.5-1	Solid	01/31/19 11:00	01/31/19 18:50
720-91107-14	DG-AB8S-3.5-4	Solid	01/31/19 11:00	01/31/19 18:50
720-91107-15	DG-AC8S-0.5-1	Solid	01/31/19 10:30	01/31/19 18:50
720-91107-16	DG-AC8S-3.5-4	Solid	01/31/19 10:30	01/31/19 18:50
720-91107-17	DG-AD12S-0.5-1	Solid	01/31/19 11:30	01/31/19 18:50
720-91107-18	DG-AD12S-3.5-4	Solid	01/31/19 11:30	01/31/19 18:50
720-91107-19	DG-AC12S-0.5-1	Solid	01/31/19 11:15	01/31/19 18:50
720-91107-20	DG-AC12S-3.5-4	Solid	01/31/19 11:15	01/31/19 18:50
720-91107-21	DG-AD11S-0.5-1	Solid	01/31/19 11:45	01/31/19 18:50
720-91107-22	DG-AD11S-3.5-4	Solid	01/31/19 11:45	01/31/19 18:50
720-91107-23	DG-AP12S-0.5-1	Solid	01/31/19 13:30	01/31/19 18:50
720-91107-24	DG-AP12S-3.5-4	Solid	01/31/19 13:30	01/31/19 18:50
720-91107-25	DG-AP11S-0.5-1	Solid	01/31/19 13:15	01/31/19 18:50
720-91107-26	DG-AP11S-3.5-4	Solid	01/31/19 13:15	01/31/19 18:50
720-91107-27	DG-AS10S-0.5-1	Solid	01/31/19 14:00	01/31/19 18:50
720-91107-28	DG-AS10S-3.5-4	Solid	01/31/19 14:00	01/31/19 18:50
720-91107-29	DG-AR10S-0.5-1	Solid	01/31/19 13:45	01/31/19 18:50
720-91107-30	DG-AR10S-3.5-4	Solid	01/31/19 13:45	01/31/19 18:50
720-91107-31	DG-AO12S-0.5-1	Solid	01/31/19 14:20	01/31/19 18:50
720-91107-32	DG-AO12S-3.5-4	Solid	01/31/19 14:20	01/31/19 18:50
720-91107-33	DG-AM13S-0.5-1	Solid	01/31/19 15:00	01/31/19 18:50
720-91107-34	DG-AM13S-3.5-4	Solid	01/31/19 15:00	01/31/19 18:50
720-91107-35	DUP-78	Solid	01/31/19 00:00	01/31/19 18:50
720-91107-36	DUP-95	Solid	01/31/19 00:00	01/31/19 18:50
720-91107-37	DUP-84	Solid	01/31/19 00:00	01/31/19 18:50

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600 3002

720-91107 (for 1/31/19)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#1882223

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31-Jan-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91107 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AG8S-0.5-1	1/31/19	0825	G	S	1	N		X	
2	DG-AG8S-3.5-4		0825							
3	DG-AF8S-0.5-1		0835							
4	DG-AF8S-3.5-4		0835							
5	DG-AD8S-0.5-1		0845							
6	DG-AD8S-3.5-4		0845							
7	DG-AW2S-0.5-1		0900							
8	DG-AW2S-3.5-4		0900							
9	DUP-14		—							
10	DUP-55		—							
11	DG-AE8S-0.5-1		0930							
12	DG-AE8S-3.5-4		0930							

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Preservation Used: (1= Ice,) 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
1.5°C, 1.5°C, 0.5°C, 0.0°C, 2.2°C, 4.1°C

Custody Seals Intact	☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd	Corr'd	Therm ID No
Relinquished by: Nicholas L Pardi	Company: Geosyntec	Date/Time: 31-Jan-19 1540	Received by:	Company: TA PLS	Date/Time: 1-31-19	15:40
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19 1650	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/31/19	18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-91107

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#188203

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31-Jan-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AB8S-0.5-1	1/31/19	1100	G	S	1	N		X	
14	DG-AB8S-3.5-4		1100							
15	DG-AC8S-0.5-1		1030							
16	DG-AC8S-3.5-4		1030							
17	DG-AD12S-0.5-1		1130							
18	DG-AD12S-3.5-4		1130							
19	DG-AC12S-0.5-1		1115							
20	DG-AC12S-3.5-4		1115							
21	DG-AD11S-0.5-1		1145							
22	DG-AD11S-3.5-4		1145							
23	DG-AP12S-0.5-1		1330							
24	DG-AP12S-3.5-4	↓	1330	↓	↓	↓	↓	↓	↓	

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Preservation Used: (1= Ice), 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd: _____ Corr'd _____ Therm ID No. _____			
Relinquished by: Nicholas L Randle	Company: Geosyntec	Date/Time: 1/31/19 1540	Received by:	Company: TA PLS	Date/Time: 1-31-19 1514
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19 1846	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/31/19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-91107

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

158205

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31-Jan-19	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client.
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25	DG-AP11S-0.5-1	1/31/19	1315	G	S	1	N		X	
26	DG-AP11S-3.5-4		1315							
27	DG-AS10S-0.5-1		1400							
28	DG-AS10S-3.5-4		1400							
29	DG-AR10S-0.5-1		1345							
30	DG-AR10S-3.5-4		1345							
31	DG-A012S-0.5-1		1420							
32	DG-A012S-3.5-4		1420							
M	~~DG-AM12S~~ NR = IGNORE								IGNORE 9/4	
33	DG-AM13S-0.5-1		1500							
34	DG-AM13S-3.5-4		1500					Y		
35	Dup-78		—							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____	Therm ID No. _____
Relinquished by: Rachelle Kamdar	Company: Geosyntec	Date/Time: 1/31/19 1540	Received by:	Company: TA PLS	Date/Time: 1-31-19 1544
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/31/19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925 600.3002

720-91107

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#582403

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31-Jan-19	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling.
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
36 Dup-95	1/31/19	—	G	S	1	N		X	
37 Dup-84	1/31/19	—	G	S	1	N		X	

Preservation Used: (1= Ice,) 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by Nicholas L Kondlw	Company Geosyntec	Date/Time 1/31/19 1540	Received by	Company TA PLS	Date/Time 1-31-19 15:40
Relinquished by	Company TA PLS	Date/Time 1-31-19 18:50	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/31/19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91107-1

Login Number: 91107
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91107-A-11-B	DG-AE8S-0.5-1	19	0.85 J
720-91107-A-12-B	DG-AE8S-3.5-4	16	ND
720-91107-A-13-B	DG-AB8S-0.5-1	12	ND
720-91107-A-14-B	DG-AB8S-3.5-4	10	ND
720-91107-A-15-B ^20	DG-AC8S-0.5-1	10	ND
720-91107-A-16-B	DG-AC8S-3.5-4	6.9	ND
720-91107-A-17-B	DG-AD12S-0.5-1	40	ND
720-91107-A-18-B	DG-AD12S-3.5-4	11	ND
720-91107-A-19-B	DG-AC12S-0.5-1	1.8	ND
720-91107-A-20-B	DG-AC12S-3.5-4	31	ND
720-91107-A-21-D	DG-AD11S-0.5-1	42	1.1 J
720-91107-A-22-B	DG-AD11S-3.5-4	3.7	ND
720-91107-A-23-B	DG-AP12S-0.5-1	14	ND
720-91107-A-24-B	DG-AP12S-3.5-4	9.9	ND
720-91107-A-25-B	DG-AP11S-0.5-1	24	0.63 J

* ND values are ND at the same RL originally reported.

Lab ID	Sample Name	Original Result (mg/kg)	Corrected Result * (mg/kg)
720-91107-A-26-D	DG-AP11S-3.5-4	12	ND
720-91107-A-27-D	DG-AS10S-0.5-1	17	ND
720-91107-A-28-D	DG-AS10S-3.5-4	15	ND
720-91107-A-30-D	DG-AR10S-3.5-4	14	2.0 J
720-91107-A-31-D	DG-AO12S-0.5-1	17	ND
720-91107-A-34-F	DG-AM13S-3.5-4	7	ND
720-91107-A-35-B	DUP-78	30	ND
720-91107-A-36-B	DUP-95	14	ND
720-91107-A-37-B	DUP-84	69	ND
720-91107-A-5-D	DG-AD8S-0.5-1	10	ND
720-91107-A-6-B	DG-AD8S-3.5-4	25	ND
720-91107-A-7-B	DG-AW2S-0.5-1	35	0.85 J
720-91107-A-8-B	DG-AW2S-3.5-4	26	0.84 J
720-91107-A-9-B	DUP-14	39	1.3 J

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa A Brewer

Melissa Brewer
Quality Assurance Manager

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91128-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 9:16:39 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91128-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91128-1

Comments
Client confirmed that sample ID on label should be used for login.
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 2/1/2019 4:42 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.0º C and 1.4º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 720-91128 (#5) DG-AD15W. The container labels list DG-AD13W time 1120 the COC lists DG-AD15W time 1120.
Logged using pretyped sample label sample ID.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528653 recovered above the upper control limit for 1,1-Dichloroethene and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-528653 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-528576 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-AD13W (720-91128-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: Surrogate Nitrobenzene-d5 recovery for the following samples were outside control limits: DG-AC15W (720-91128-2) and DUP-93 (720-91128-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following sample was diluted due to the nature of the sample matrix: high hydrocarbons DG-AN13W (720-91128-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following 8015-DRO sample required a dilution due to the nature of the sample matrix: DG-AD13W (720-91128-5) and DUP-93 (720-91128-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-259741 and analytical batch 720-259875 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Job ID: 720-91128-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259741 and analytical batch 720-259997 were outside control limits. Sample matrix interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The method blank for preparation batch 720-259741 and analytical batch 720-259997 contained Barium and Copper above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8015B_DRO preparation batch 440-527042. LCS was performed in duplicate to provide precision of data.

Method 3510C: 8015B_DRO: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AC15W (720-91128-2), DG-AD13W (720-91128-5) and DUP-93 (720-91128-9). The reporting limits (RLs) are elevated proportionately.

Method 3520C: 8270C-SIM-PAH: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-527285. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DG-AY3W — Lab Sample ID: 720-91128-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.1		0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	540		520	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	530		520	100	ug/L	1		8015B	Total/NA
Arsenic	38		10	2.9	ug/L	1		6010B	Dissolved
Barium	85	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	5.3	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	4.3		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	13	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	11		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	5.2	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	3.1	J	10	1.0	ug/L	1		6010B	Dissolved
Vanadium	2.1	J	10	0.87	ug/L	1		6010B	Dissolved
Cr (VI)	5.8	J	10	3.7	ug/L	1		7196A	Total/NA

Client Sample ID: DG-AC15W — Lab Sample ID: 720-91128-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	120		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	3.7		0.50	0.25	ug/L	1		8260B	Total/NA
Ethylbenzene	1.1		0.50	0.25	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.55		0.50	0.25	ug/L	1		8260B	Total/NA
4-Isopropyltoluene	0.40	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	11		1.0	0.40	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.48	J	0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	1.2		0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	4.0		0.50	0.25	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	1.0		0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	7.7		1.0	0.50	ug/L	1		8260B	Total/NA
Naphthalene	8.2		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Acenaphthene	0.56		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Acenaphthylene	0.24	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Fluorene	1.3		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Phenanthrene	1.5		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Anthracene	0.55		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[a]anthracene	0.77		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Chrysene	1.1		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[a]pyrene	1.5		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	1.3		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.38	J	0.40	0.20	ug/L	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1.5		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	1.2		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Fluoranthene	3.7		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Pyrene	4.3		0.40	0.20	ug/L	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	6600		1000	210	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	3700		1000	210	ug/L	1		8015B	Total/NA
Arsenic	64		10	2.9	ug/L	1		6010B	Dissolved
Barium	1900	B	50	1.6	ug/L	1		6010B	Dissolved
Cobalt	1.4	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	3.7	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	9.3		5.0	2.2	ug/L	1		6010B	Dissolved
Nickel	1.3	J	10	1.0	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DG-AN13W — Lab Sample ID: 720-91128-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.31	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.82	J	1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	0.37	J	0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	1300		520	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	460	J	520	100	ug/L	1		8015B	Total/NA
Arsenic	4.1	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	82	B	50	1.6	ug/L	1		6010B	Dissolved
Cobalt	1.3	J	2.0	0.68	ug/L	1		6010B	Dissolved
Copper	9.4	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	29		5.0	2.2	ug/L	1		6010B	Dissolved

Client Sample ID: DG-Y15W — Lab Sample ID: 720-91128-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	290		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Chloroethane	77		1.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.25	J	0.50	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	52		0.50	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.44	J	0.50	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	45		0.50	0.25	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.60		0.50	0.25	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.97		0.50	0.25	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	18		0.50	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	6.1		0.50	0.25	ug/L	1		8260B	Total/NA
Vinyl chloride	9.7		0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.29		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthene	1.6		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.64		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluorene	0.82		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.28		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Anthracene	0.16	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Chrysene	0.22		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.26		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.58		0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	4300		530	110	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2900		530	110	ug/L	1		8015B	Total/NA
Barium	48	J B	50	1.6	ug/L	1		6010B	Dissolved
Lead	7.4		5.0	2.2	ug/L	1		6010B	Dissolved

Client Sample ID: DG-AD13W — Lab Sample ID: 720-91128-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	290		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Acetone	19	J	20	10	ug/L	1		8260B	Total/NA
Benzene	5.1		0.50	0.25	ug/L	1		8260B	Total/NA
Ethylbenzene	5.3		0.50	0.25	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.63		0.50	0.25	ug/L	1		8260B	Total/NA
4-Isopropyltoluene	0.38	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	18		1.0	0.40	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.78		0.50	0.25	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD13W (Continued) — Lab Sample ID: 720-91128-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Styrene	0.36	J	0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	15		0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	4.9		0.50	0.25	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	1.2		0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	14		1.0	0.50	ug/L	1		8260B	Total/NA
Naphthalene	17		2.0	1.0	ug/L	10		8270C SIM	Total/NA
Acenaphthene	1.5	J	2.0	1.0	ug/L	10		8270C SIM	Total/NA
Fluorene	3.6		2.0	1.0	ug/L	10		8270C SIM	Total/NA
Phenanthrene	5.6		2.0	1.0	ug/L	10		8270C SIM	Total/NA
Anthracene	1.2	J	2.0	1.0	ug/L	10		8270C SIM	Total/NA
Chrysene	1.3	J	2.0	1.0	ug/L	10		8270C SIM	Total/NA
Pyrene	2.3		2.0	1.0	ug/L	10		8270C SIM	Total/NA
Motor Oil Range Organics [C24-C36]	9900		1000	210	ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28] - DL	21000		10000	2100	ug/L	10		8015B	Total/NA
Arsenic	13		10	2.9	ug/L	1		6010B	Dissolved
Barium	770	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.7	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	2.5		2.0	0.68	ug/L	1		6010B	Dissolved
Lead	8.8		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	5.3	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	24		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	20		10	0.87	ug/L	1		6010B	Dissolved
Cr (VI)	48		10	3.7	ug/L	1		7196A	Total/NA

Client Sample ID: DG-AV9W — Lab Sample ID: 720-91128-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.13	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Pyrene	0.15	J	0.20	0.10	ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	230	J	500	100	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	220	J	500	100	ug/L	1		8015B	Total/NA
Arsenic	4.0	J	10	2.9	ug/L	1		6010B	Dissolved
Barium	110	B	50	1.6	ug/L	1		6010B	Dissolved
Cadmium	1.2	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	0.88	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	2.9		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	15	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	28		5.0	2.2	ug/L	1		6010B	Dissolved
Nickel	12		10	1.0	ug/L	1		6010B	Dissolved
Zinc	430		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: FB-02.01.19 — Lab Sample ID: 720-91128-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	59		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: TB-02.01.19 — Lab Sample ID: 720-91128-8

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DUP-93

Lab Sample ID: 720-91128-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	190		50	35	ug/L	1		8260B/CA_LUFT MS	Total/NA
Acetone	18	J	20	10	ug/L	1		8260B	Total/NA
Benzene	3.7		0.50	0.25	ug/L	1		8260B	Total/NA
Ethylbenzene	3.7		0.50	0.25	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.43	J	0.50	0.25	ug/L	1		8260B	Total/NA
Naphthalene	13		1.0	0.40	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.47	J	0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	11		0.50	0.25	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	3.4		0.50	0.25	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.86		0.50	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	11		1.0	0.50	ug/L	1		8260B	Total/NA
Naphthalene	27		1.0	0.50	ug/L	5		8270C SIM	Total/NA
Acenaphthene	1.3		1.0	0.50	ug/L	5		8270C SIM	Total/NA
Fluorene	2.5		1.0	0.50	ug/L	5		8270C SIM	Total/NA
Phenanthrene	3.8		1.0	0.50	ug/L	5		8270C SIM	Total/NA
Anthracene	0.80	J	1.0	0.50	ug/L	5		8270C SIM	Total/NA
Chrysene	0.97	J	1.0	0.50	ug/L	5		8270C SIM	Total/NA
Pyrene	1.4		1.0	0.50	ug/L	5		8270C SIM	Total/NA
Motor Oil Range Organics [C24-C36]	9400		990	200	ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28] - DL	18000		9900	2000	ug/L	10		8015B	Total/NA
Arsenic	12		10	2.9	ug/L	1		6010B	Dissolved
Barium	890	B	50	1.6	ug/L	1		6010B	Dissolved
Chromium	1.9	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	2.8		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	6.0	J	20	3.7	ug/L	1		6010B	Dissolved
Lead	15		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	5.9	J	10	2.9	ug/L	1		6010B	Dissolved
Nickel	29		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	20		10	0.87	ug/L	1		6010B	Dissolved
Zinc	11	J	20	7.4	ug/L	1		6010B	Dissolved
Cr (VI)	47		10	3.7	ug/L	1		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AY3W
Date Collected: 02/01/19 08:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/14/19 04:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/14/19 04:30*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 04:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**4.1**		0.50	0.25	ug/L			02/14/19 04:30	1
Acetone	ND		20	10	ug/L			02/14/19 04:30	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 04:30	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 04:30	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 04:30	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 04:30	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 04:30	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 04:30	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 04:30	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 04:30	1

Client Sample ID: DG-AY3W
Date Collected: 02/01/19 08:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 04:30	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 04:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 04:30	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 04:30	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 04:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 04:30	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 04:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 04:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 04:30	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 04:30	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 04:30	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*02/14/19 04:30*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 04:30*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Acenaphthene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Acenaphthylene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Fluorene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Phenanthrene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Anthracene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Benzo[a]anthracene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Chrysene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Benzo[a]pyrene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Benzo[b]fluoranthene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Benzo[k]fluoranthene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Benzo[g,h,i]perylene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Fluoranthene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Pyrene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1
Dibenz(a,h)anthracene	ND		0.21	0.10	ug/L		02/07/19 09:18	02/10/19 17:30	1

Client Sample ID: DG-AY3W
Date Collected: 02/01/19 08:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*38 - 120*	*02/07/19 09:18*	*02/10/19 17:30*	*1*
Nitrobenzene-d5	*71*		*10 - 120*	*02/07/19 09:18*	*02/10/19 17:30*	*1*
Terphenyl-d14	*63*		*21 - 120*	*02/07/19 09:18*	*02/10/19 17:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**540**		520	100	ug/L		02/06/19 10:01	02/07/19 19:05	1
Motor Oil Range Organics [C24-C36]	**530**		520	100	ug/L		02/06/19 10:01	02/07/19 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*78*		*45 - 120*	*02/06/19 10:01*	*02/07/19 19:05*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 19:57	1
Arsenic	**38**		10	2.9	ug/L		02/04/19 10:29	02/05/19 19:57	1
Barium	**85**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 19:57	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 19:57	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 19:57	1
Chromium	**5.3**	**J**	10	0.70	ug/L		02/04/19 10:29	02/05/19 19:57	1
Cobalt	**4.3**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 19:57	1
Copper	**13**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 19:57	1
Lead	**11**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 19:57	1
Molybdenum	**5.2**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 19:57	1
Nickel	**3.1**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 19:57	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 19:57	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 16:56	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 19:57	1
Vanadium	**2.1**	**J**	10	0.87	ug/L		02/04/19 10:29	02/05/19 19:57	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 19:57	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	**5.8**	**J**	10	3.7	ug/L			02/01/19 18:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DG-AC15W

Date Collected: 02/01/19 09:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-2

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**120**		50	35	ug/L			02/14/19 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/14/19 04:55*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/14/19 04:55*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 04:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Acetone	ND		20	10	ug/L			02/14/19 04:55	1
Benzene	**3.7**		0.50	0.25	ug/L			02/14/19 04:55	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 04:55	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 04:55	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 04:55	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 04:55	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 04:55	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 04:55	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 04:55	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Ethylbenzene	**1.1**		0.50	0.25	ug/L			02/14/19 04:55	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 04:55	1

Client Sample ID: DG-AC15W
Date Collected: 02/01/19 09:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 04:55	1
Isopropylbenzene	**0.55**		0.50	0.25	ug/L			02/14/19 04:55	1
4-Isopropyltoluene	**0.40**	**J**	0.50	0.25	ug/L			02/14/19 04:55	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 04:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 04:55	1
Naphthalene	**11**		1.0	0.40	ug/L			02/14/19 04:55	1
N-Propylbenzene	**0.48**	**J**	0.50	0.25	ug/L			02/14/19 04:55	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Toluene	**1.2**		0.50	0.25	ug/L			02/14/19 04:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 04:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 04:55	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 04:55	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 04:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 04:55	1
1,2,4-Trimethylbenzene	**4.0**		0.50	0.25	ug/L			02/14/19 04:55	1
1,3,5-Trimethylbenzene	**1.0**		0.50	0.25	ug/L			02/14/19 04:55	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 04:55	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 04:55	1
Xylenes, Total	**7.7**		1.0	0.50	ug/L			02/14/19 04:55	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*02/14/19 04:55*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 04:55*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**8.2**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Acenaphthene	**0.56**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Acenaphthylene	**0.24**	**J**	0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Fluorene	**1.3**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Phenanthrene	**1.5**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Anthracene	**0.55**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Benzo[a]anthracene	**0.77**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Chrysene	**1.1**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Benzo[a]pyrene	**1.5**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Benzo[b]fluoranthene	**1.3**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Benzo[k]fluoranthene	**0.38**	**J**	0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Benzo[g,h,i]perylene	**1.5**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Indeno[1,2,3-cd]pyrene	**1.2**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Fluoranthene	**3.7**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Pyrene	**4.3**		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2
Dibenz(a,h)anthracene	ND		0.40	0.20	ug/L		02/07/19 09:18	02/10/19 17:07	2

Client Sample ID: DG-AC15W
Date Collected: 02/01/19 09:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*38 - 120*	*02/07/19 09:18*	*02/10/19 17:07*	*2*
Nitrobenzene-d5	*132*	*X*	*10 - 120*	*02/07/19 09:18*	*02/10/19 17:07*	*2*
Terphenyl-d14	*68*		*21 - 120*	*02/07/19 09:18*	*02/10/19 17:07*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6600**		1000	210	ug/L		02/06/19 10:01	02/07/19 19:27	1
Motor Oil Range Organics [C24-C36]	**3700**		1000	210	ug/L		02/06/19 10:01	02/07/19 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*76*		*45 - 120*	*02/06/19 10:01*	*02/07/19 19:27*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 20:02	1
Arsenic	**64**		10	2.9	ug/L		02/04/19 10:29	02/05/19 20:02	1
Barium	**1900**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 20:02	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 20:02	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 20:02	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/05/19 20:02	1
Cobalt	**1.4**	**J**	2.0	0.68	ug/L		02/04/19 10:29	02/05/19 20:02	1
Copper	**3.7**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 20:02	1
Lead	**9.3**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 20:02	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 20:02	1
Nickel	**1.3**	**J**	10	1.0	ug/L		02/04/19 10:29	02/05/19 20:02	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 20:02	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 17:01	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 20:02	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 20:02	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 20:02	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			02/01/19 18:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DG-AN13W

Date Collected: 02/01/19 10:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-3

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/14/19 05:19*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/14/19 05:19*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*02/14/19 05:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Acetone	ND		20	10	ug/L			02/14/19 05:19	1
Benzene	**0.31**	**J**	0.50	0.25	ug/L			02/14/19 05:19	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 05:19	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 05:19	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 05:19	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 05:19	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 05:19	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 05:19	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 05:19	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 05:19	1

Client Sample ID: DG-AN13W **Lab Sample ID: 720-91128-3**
Date Collected: 02/01/19 10:00 **Matrix: Water**
Date Received: 02/01/19 16:42

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 05:19	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 05:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 05:19	1
Naphthalene	**0.82**	**J**	1.0	0.40	ug/L			02/14/19 05:19	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Toluene	**0.37**	**J**	0.50	0.25	ug/L			02/14/19 05:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 05:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 05:19	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 05:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 05:19	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 05:19	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 05:19	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 05:19	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*02/14/19 05:19*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*02/14/19 05:19*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Acenaphthene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Acenaphthylene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Fluorene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Phenanthrene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Anthracene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Benzo[a]anthracene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Chrysene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Benzo[a]pyrene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Benzo[b]fluoranthene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Benzo[k]fluoranthene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Benzo[g,h,i]perylene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Indeno[1,2,3-cd]pyrene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Fluoranthene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Pyrene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5
Dibenz(a,h)anthracene	ND		1.0	0.52	ug/L		02/07/19 09:18	02/11/19 23:37	5

Client Sample ID: DG-AN13W
Date Collected: 02/01/19 10:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*38 - 120*	*02/07/19 09:18*	*02/11/19 23:37*	*5*
Nitrobenzene-d5	*97*		*10 - 120*	*02/07/19 09:18*	*02/11/19 23:37*	*5*
Terphenyl-d14	*78*		*21 - 120*	*02/07/19 09:18*	*02/11/19 23:37*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1300**		520	100	ug/L		02/06/19 10:01	02/07/19 21:56	1
Motor Oil Range Organics [C24-C36]	**460**	**J**	520	100	ug/L		02/06/19 10:01	02/07/19 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*45 - 120*	*02/06/19 10:01*	*02/07/19 21:56*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 20:07	1
Arsenic	**4.1**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 20:07	1
Barium	**82**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 20:07	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 20:07	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 20:07	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/05/19 20:07	1
Cobalt	**1.3**	**J**	2.0	0.68	ug/L		02/04/19 10:29	02/05/19 20:07	1
Copper	**9.4**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 20:07	1
Lead	**29**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 20:07	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 20:07	1
Nickel	ND		10	1.0	ug/L		02/04/19 10:29	02/05/19 20:07	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 20:07	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 17:06	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 20:07	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 20:07	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 20:07	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			02/01/19 18:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DG-Y15W

Date Collected: 02/01/19 10:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-4

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**290**		50	35	ug/L			02/14/19 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/14/19 05:44*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/14/19 05:44*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*02/14/19 05:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Acetone	ND		20	10	ug/L			02/14/19 05:44	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 05:44	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 05:44	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 05:44	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 05:44	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Chloroethane	**77**		1.0	0.40	ug/L			02/14/19 05:44	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,2-Dichlorobenzene	**0.25**	**J**	0.50	0.25	ug/L			02/14/19 05:44	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 05:44	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 05:44	1
1,1-Dichloroethane	**52**		0.50	0.25	ug/L			02/14/19 05:44	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,1-Dichloroethene	**0.44**	**J**	0.50	0.25	ug/L			02/14/19 05:44	1
cis-1,2-Dichloroethene	**45**		0.50	0.25	ug/L			02/14/19 05:44	1
trans-1,2-Dichloroethene	**0.60**		0.50	0.25	ug/L			02/14/19 05:44	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 05:44	1

Client Sample ID: DG-Y15W
Date Collected: 02/01/19 10:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 05:44	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 05:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 05:44	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 05:44	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Tetrachloroethene	**0.97**		0.50	0.25	ug/L			02/14/19 05:44	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 05:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 05:44	1
1,1,1-Trichloroethane	**18**		0.50	0.25	ug/L			02/14/19 05:44	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Trichloroethene	**6.1**		0.50	0.25	ug/L			02/14/19 05:44	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 05:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 05:44	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 05:44	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 05:44	1
Vinyl chloride	**9.7**		0.50	0.25	ug/L			02/14/19 05:44	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 05:44	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*02/14/19 05:44*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*02/14/19 05:44*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.29**		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Acenaphthene	**1.6**		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Acenaphthylene	**0.64**		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Fluorene	**0.82**		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Phenanthrene	**0.28**		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Anthracene	**0.16**	**J**	0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Chrysene	**0.22**		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Fluoranthene	**0.26**		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Pyrene	**0.58**		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:48	1

Client Sample ID: DG-Y15W
Date Collected: 02/01/19 10:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*38 - 120*	*02/07/19 09:18*	*02/10/19 19:48*	*1*
Nitrobenzene-d5	*77*		*10 - 120*	*02/07/19 09:18*	*02/10/19 19:48*	*1*
Terphenyl-d14	*70*		*21 - 120*	*02/07/19 09:18*	*02/10/19 19:48*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4300**		530	110	ug/L		02/06/19 10:01	02/07/19 22:17	1
Motor Oil Range Organics [C24-C36]	**2900**		530	110	ug/L		02/06/19 10:01	02/07/19 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*45 - 120*	*02/06/19 10:01*	*02/07/19 22:17*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 20:12	1
Arsenic	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 20:12	1
Barium	**48**	**J B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 20:12	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 20:12	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 20:12	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/05/19 20:12	1
Cobalt	ND		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 20:12	1
Copper	ND		20	3.7	ug/L		02/04/19 10:29	02/05/19 20:12	1
Lead	**7.4**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 20:12	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 20:12	1
Nickel	ND		10	1.0	ug/L		02/04/19 10:29	02/05/19 20:12	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 20:12	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 17:12	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 20:12	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 20:12	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 20:12	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			02/01/19 18:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DG-AD13W

Date Collected: 02/01/19 11:20
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-5

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**290**		50	35	ug/L			02/14/19 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*02/14/19 06:09*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*02/14/19 06:09*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 06:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Acetone	**19**	**J**	20	10	ug/L			02/14/19 06:09	1
Benzene	**5.1**		0.50	0.25	ug/L			02/14/19 06:09	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 06:09	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 06:09	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 06:09	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 06:09	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 06:09	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 06:09	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 06:09	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Ethylbenzene	**5.3**		0.50	0.25	ug/L			02/14/19 06:09	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 06:09	1

Client Sample ID: DG-AD13W
Lab Sample ID: 720-91128-5
Date Collected: 02/01/19 11:20
Matrix: Water
Date Received: 02/01/19 16:42

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 06:09	1
Isopropylbenzene	**0.63**		0.50	0.25	ug/L			02/14/19 06:09	1
4-Isopropyltoluene	**0.38**	**J**	0.50	0.25	ug/L			02/14/19 06:09	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 06:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 06:09	1
Naphthalene	**18**		1.0	0.40	ug/L			02/14/19 06:09	1
N-Propylbenzene	**0.78**		0.50	0.25	ug/L			02/14/19 06:09	1
Styrene	**0.36**	**J**	0.50	0.25	ug/L			02/14/19 06:09	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Toluene	**15**		0.50	0.25	ug/L			02/14/19 06:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 06:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 06:09	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 06:09	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 06:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 06:09	1
1,2,4-Trimethylbenzene	**4.9**		0.50	0.25	ug/L			02/14/19 06:09	1
1,3,5-Trimethylbenzene	**1.2**		0.50	0.25	ug/L			02/14/19 06:09	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 06:09	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 06:09	1
Xylenes, Total	**14**		1.0	0.50	ug/L			02/14/19 06:09	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*02/14/19 06:09*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 06:09*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**17**		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Acenaphthene	**1.5**	**J**	2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Acenaphthylene	ND		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Fluorene	**3.6**		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Phenanthrene	**5.6**		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Anthracene	**1.2**	**J**	2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Benzo[a]anthracene	ND		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Chrysene	**1.3**	**J**	2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Benzo[a]pyrene	ND		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Benzo[b]fluoranthene	ND		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Benzo[k]fluoranthene	ND		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Benzo[g,h,i]perylene	ND		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Indeno[1,2,3-cd]pyrene	ND		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Fluoranthene	ND		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Pyrene	**2.3**		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10
Dibenz(a,h)anthracene	ND		2.0	1.0	ug/L		02/07/19 09:18	02/10/19 19:25	10

Client Sample ID: DG-AD13W
Date Collected: 02/01/19 11:20
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*38 - 120*	*02/07/19 09:18*	*02/10/19 19:25*	*10*
Nitrobenzene-d5	*289*	*X*	*10 - 120*	*02/07/19 09:18*	*02/10/19 19:25*	*10*
Terphenyl-d14	*98*		*21 - 120*	*02/07/19 09:18*	*02/10/19 19:25*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**9900**		1000	210	ug/L		02/06/19 10:01	02/07/19 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*78*		*45 - 120*	*02/06/19 10:01*	*02/07/19 20:10*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**21000**		10000	2100	ug/L		02/06/19 10:01	02/08/19 00:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*45 - 120*	*02/06/19 10:01*	*02/08/19 00:25*	*10*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 20:17	1
Arsenic	**13**		10	2.9	ug/L		02/04/19 10:29	02/05/19 20:17	1
Barium	**770**	**B**	50	1.6	ug/L		02/04/19 10:29	02/05/19 20:17	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 20:17	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 20:17	1
Chromium	**1.7**	**J**	10	0.70	ug/L		02/04/19 10:29	02/05/19 20:17	1
Cobalt	**2.5**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 20:17	1
Copper	ND		20	3.7	ug/L		02/04/19 10:29	02/05/19 20:17	1
Lead	**8.8**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 20:17	1
Molybdenum	**5.3**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 20:17	1
Nickel	**24**		10	1.0	ug/L		02/04/19 10:29	02/05/19 20:17	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 20:17	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 17:17	1
Thallium	ND		40	14	ug/L		02/04/19 10:29	03/13/19 02:49	4
Vanadium	**20**		10	0.87	ug/L		02/04/19 10:29	02/05/19 20:17	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 20:17	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	**48**		10	3.7	ug/L			02/01/19 18:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DG-AV9W

Date Collected: 02/01/19 12:20
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-6

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/14/19 06:34*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/14/19 06:34*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*02/14/19 06:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Acetone	ND		20	10	ug/L			02/14/19 06:34	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 06:34	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 06:34	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 06:34	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 06:34	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 06:34	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 06:34	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 06:34	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 06:34	1

Client Sample ID: DG-AV9W
Lab Sample ID: 720-91128-6

Date Collected: 02/01/19 12:20
Matrix: Water
Date Received: 02/01/19 16:42

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 06:34	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 06:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 06:34	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 06:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 06:34	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 06:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 06:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 06:34	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 06:34	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 06:34	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*02/14/19 06:34*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*02/14/19 06:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*02/14/19 15:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/14/19 15:13*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Acenaphthene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Acenaphthylene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Fluorene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Phenanthrene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Anthracene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Chrysene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1

Client Sample ID: DG-AV9W
Date Collected: 02/01/19 12:20
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-6
Matrix: Water

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Fluoranthene	**0.13**	**J**	0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Pyrene	**0.15**	**J**	0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*38 - 120*	*02/07/19 09:18*	*02/10/19 19:02*	*1*
Nitrobenzene-d5	*68*		*10 - 120*	*02/07/19 09:18*	*02/10/19 19:02*	*1*
Terphenyl-d14	*44*		*21 - 120*	*02/07/19 09:18*	*02/10/19 19:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**230**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 22:39	1
Motor Oil Range Organics [C24-C36]	**220**	**J**	500	100	ug/L		02/06/19 10:01	02/07/19 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*45 - 120*	*02/06/19 10:01*	*02/07/19 22:39*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 20:32	1
Arsenic	**4.0**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 20:32	1
Barium	**110**	**B**	50	1.6	ug/L		02/04/19 10:29	02/07/19 17:31	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 20:32	1
Cadmium	**1.2**	**J**	2.0	0.21	ug/L		02/04/19 10:29	02/05/19 20:32	1
Chromium	**0.88**	**J**	10	0.70	ug/L		02/04/19 10:29	02/05/19 20:32	1
Cobalt	**2.9**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 20:32	1
Copper	**15**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 20:32	1
Lead	**28**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 20:32	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 20:32	1
Nickel	**12**		10	1.0	ug/L		02/04/19 10:29	02/05/19 20:32	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 20:32	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 17:31	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 20:32	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 20:32	1
Zinc	**430**		20	7.4	ug/L		02/04/19 10:29	02/05/19 20:32	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			02/01/19 18:52	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91128-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: FB-02.01.19
Lab Sample ID: 720-91128-7
Date Collected: 02/01/19 00:00
Matrix: Water
Date Received: 02/01/19 16:42

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*02/14/19 14:22*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/14/19 14:22*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 14:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Acetone	**59**		20	10	ug/L			02/14/19 14:22	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 14:22	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 14:22	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 14:22	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 14:22	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 14:22	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 14:22	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 14:22	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 14:22	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: FB-02.01.19
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 14:22	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 14:22	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 14:22	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 14:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 14:22	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 14:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 14:22	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 14:22	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 14:22	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*02/14/19 14:22*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 14:22*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: TB-02.01.19

Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-8

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/14/19 14:47*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*02/14/19 14:47*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/14/19 14:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Acetone	ND		20	10	ug/L			02/14/19 14:47	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 14:47	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 14:47	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 14:47	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 14:47	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 14:47	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 14:47	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 14:47	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 14:47	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: TB-02.01.19
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 14:47	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 14:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 14:47	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 14:47	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 14:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 14:47	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 14:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 14:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 14:47	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 14:47	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 14:47	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*02/14/19 14:47*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/14/19 14:47*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DUP-93

Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-9

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**190**		50	35	ug/L			02/14/19 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*02/14/19 15:38*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*02/14/19 15:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/14/19 15:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Acetone	**18**	**J**	20	10	ug/L			02/14/19 15:38	1
Benzene	**3.7**		0.50	0.25	ug/L			02/14/19 15:38	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 15:38	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 15:38	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 15:38	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 15:38	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 15:38	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 15:38	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 15:38	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Ethylbenzene	**3.7**		0.50	0.25	ug/L			02/14/19 15:38	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 15:38	1

Client Sample ID: DUP-93
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 15:38	1
Isopropylbenzene	**0.43**	**J**	0.50	0.25	ug/L			02/14/19 15:38	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 15:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 15:38	1
Naphthalene	**13**		1.0	0.40	ug/L			02/14/19 15:38	1
N-Propylbenzene	**0.47**	**J**	0.50	0.25	ug/L			02/14/19 15:38	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Toluene	**11**		0.50	0.25	ug/L			02/14/19 15:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 15:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 15:38	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 15:38	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 15:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 15:38	1
1,2,4-Trimethylbenzene	**3.4**		0.50	0.25	ug/L			02/14/19 15:38	1
1,3,5-Trimethylbenzene	**0.86**		0.50	0.25	ug/L			02/14/19 15:38	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 15:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 15:38	1
Xylenes, Total	**11**		1.0	0.50	ug/L			02/14/19 15:38	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*02/14/19 15:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/14/19 15:38*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**27**		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Acenaphthene	**1.3**		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Acenaphthylene	ND		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Fluorene	**2.5**		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Phenanthrene	**3.8**		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Anthracene	**0.80**	**J**	1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Benzo[a]anthracene	ND		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Chrysene	**0.97**	**J**	1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Benzo[a]pyrene	ND		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Benzo[b]fluoranthene	ND		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Benzo[k]fluoranthene	ND		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Benzo[g,h,i]perylene	ND		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Indeno[1,2,3-cd]pyrene	ND		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Fluoranthene	ND		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Pyrene	**1.4**		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5
Dibenz(a,h)anthracene	ND		1.0	0.50	ug/L		02/07/19 09:18	02/10/19 18:39	5

Client Sample ID: DUP-93
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*38 - 120*	*02/07/19 09:18*	*02/10/19 18:39*	*5*
Nitrobenzene-d5	*479*	*X*	*10 - 120*	*02/07/19 09:18*	*02/10/19 18:39*	*5*
Terphenyl-d14	*79*		*21 - 120*	*02/07/19 09:18*	*02/10/19 18:39*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**9400**		990	200	ug/L		02/06/19 10:01	02/07/19 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*80*		*45 - 120*	*02/06/19 10:01*	*02/07/19 20:52*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**18000**		9900	2000	ug/L		02/06/19 10:01	02/08/19 12:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*45 - 120*	*02/06/19 10:01*	*02/08/19 12:29*	*10*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 20:36	1
Arsenic	**12**		10	2.9	ug/L		02/04/19 10:29	02/05/19 20:36	1
Barium	**890**	**B**	50	1.6	ug/L		02/04/19 10:29	02/07/19 17:36	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 20:36	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 20:36	1
Chromium	**1.9**	**J**	10	0.70	ug/L		02/04/19 10:29	02/05/19 20:36	1
Cobalt	**2.8**		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 20:36	1
Copper	**6.0**	**J**	20	3.7	ug/L		02/04/19 10:29	02/05/19 20:36	1
Lead	**15**		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 20:36	1
Molybdenum	**5.9**	**J**	10	2.9	ug/L		02/04/19 10:29	02/05/19 20:36	1
Nickel	**29**		10	1.0	ug/L		02/04/19 10:29	02/05/19 20:36	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 20:36	1
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 17:36	1
Thallium	ND		40	14	ug/L		02/04/19 10:29	03/13/19 02:54	4
Vanadium	**20**		10	0.87	ug/L		02/04/19 10:29	02/05/19 20:36	1
Zinc	**11**	**J**	20	7.4	ug/L		02/04/19 10:29	02/05/19 20:36	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	**47**		10	3.7	ug/L			02/01/19 18:52	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-232008-B-1 MS	Matrix Spike	89	93
440-232008-B-1 MSD	Matrix Spike Duplicate	89	93
440-232894-C-12 MS	Matrix Spike	114	96
440-232894-C-12 MSD	Matrix Spike Duplicate	115	96
720-91128-1	DG-AY3W	88	97
720-91128-2	DG-AC15W	88	97
720-91128-3	DG-AN13W	88	96
720-91128-4	DG-Y15W	91	96
720-91128-5	DG-AD13W	91	97
720-91128-6	DG-AV9W	94	95
720-91128-6 - RA	DG-AV9W	114	99
720-91128-7	FB-02.01.19	120	97
720-91128-8	TB-02.01.19	116	98
720-91128-9	DUP-93	117	99
LCS 440-528576/5	Lab Control Sample	92	93
LCS 440-528653/5	Lab Control Sample	118	96
MB 440-528576/4	Method Blank	85	95
MB 440-528653/4	Method Blank	115	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-232008-B-1 MS	Matrix Spike	99	92	93
440-232008-B-1 MSD	Matrix Spike Duplicate	99	93	93
440-232894-C-12 MS	Matrix Spike	111	91	96
440-232894-C-12 MSD	Matrix Spike Duplicate	112	86	96
720-91128-1	DG-AY3W	98	96	97
720-91128-2	DG-AC15W	98	94	97
720-91128-3	DG-AN13W	98	94	96
720-91128-4	DG-Y15W	100	94	96
720-91128-5	DG-AD13W	97	91	97
720-91128-6	DG-AV9W	100	93	95
720-91128-7	FB-02.01.19	114	89	97
720-91128-8	TB-02.01.19	110	88	98
720-91128-9	DUP-93	111	90	99
LCS 440-528577/6	Lab Control Sample	98	97	95
LCS 440-528654/6	Lab Control Sample	113	90	97
MB 440-528577/4	Method Blank	96	96	95
MB 440-528654/4	Method Blank	110	89	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (38-120)	NBZ (10-120)	TPHL (21-120)
720-91128-1	DG-AY3W	77	71	63
720-91128-2	DG-AC15W	60	132 X	68
720-91128-3	DG-AN13W	84	97	78
720-91128-4	DG-Y15W	73	77	70
720-91128-5	DG-AD13W	48	289 X	98
720-91128-6	DG-AV9W	76	68	44
720-91128-9	DUP-93	50	479 X	79
LCS 440-527285/2-A	Lab Control Sample	70	60	72
LCSD 440-527285/3-A	Lab Control Sample Dup	85	73	94
MB 440-527285/1-A	Method Blank	81	71	96

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
720-91128-1	DG-AY3W	78
720-91128-2	DG-AC15W	76
720-91128-3	DG-AN13W	66
720-91128-4	DG-Y15W	81
720-91128-5	DG-AD13W	78
720-91128-5 - DL	DG-AD13W	81
720-91128-6	DG-AV9W	71
720-91128-9	DUP-93	80
720-91128-9 - DL	DUP-93	75
LCS 440-527042/2-A	Lab Control Sample	69
LCSD 440-527042/3-A	Lab Control Sample Dup	77
MB 440-527042/1-A	Method Blank	66

Surrogate Legend

OTCN = n-Octacosane

Client: Geosyntec Consultants, Inc.
Job ID: 720-91128-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-528576/4
Matrix: Water
Analysis Batch: 528576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Acetone	ND		20	10	ug/L			02/13/19 21:32	1
Benzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Bromobenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Bromoform	ND		1.0	0.40	ug/L			02/13/19 21:32	1
Bromomethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/13/19 21:32	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/13/19 21:32	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/13/19 21:32	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Chloroethane	ND		1.0	0.40	ug/L			02/13/19 21:32	1
Chloroform	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Chloromethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/13/19 21:32	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Dibromomethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/13/19 21:32	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
2-Hexanone	ND		5.0	2.5	ug/L			02/13/19 21:32	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/13/19 21:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/13/19 21:32	1
Naphthalene	ND		1.0	0.40	ug/L			02/13/19 21:32	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Styrene	ND		0.50	0.25	ug/L			02/13/19 21:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528576/4
Matrix: Water
Analysis Batch: 528576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Toluene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 21:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/13/19 21:32	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Trichloroethene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/13/19 21:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/13/19 21:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/13/19 21:32	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/13/19 21:32	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/13/19 21:32	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/13/19 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*02/13/19 21:32*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*02/13/19 21:32*	*1*

Lab Sample ID: LCS 440-528576/5
Matrix: Water
Analysis Batch: 528576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	11.4		ug/L		114	63 - 131
Acetone	10.0	10.1	J	ug/L		101	10 - 150
Benzene	10.0	11.2		ug/L		112	68 - 130
Dichlorobromomethane	10.0	10.9		ug/L		109	70 - 132
Bromobenzene	10.0	11.0		ug/L		110	70 - 130
Chlorobromomethane	10.0	12.4		ug/L		124	70 - 130
Bromoform	10.0	11.8		ug/L		118	60 - 148
Bromomethane	10.0	10.7		ug/L		107	64 - 139
2-Butanone (MEK)	10.0	11.4		ug/L		114	44 - 150
n-Butylbenzene	10.0	9.92		ug/L		99	65 - 150
sec-Butylbenzene	10.0	10.9		ug/L		109	70 - 138
tert-Butylbenzene	10.0	10.6		ug/L		106	70 - 130
Carbon disulfide	10.0	10.2		ug/L		102	52 - 136
Carbon tetrachloride	10.0	10.1		ug/L		101	60 - 150
Chlorobenzene	10.0	10.7		ug/L		107	70 - 130
Chloroethane	10.0	10.4		ug/L		104	64 - 135
Chloroform	10.0	10.6		ug/L		106	70 - 130
Chloromethane	10.0	8.15		ug/L		82	47 - 140
2-Chlorotoluene	10.0	10.4		ug/L		104	70 - 130
4-Chlorotoluene	10.0	10.4		ug/L		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528576/5
Matrix: Water
Analysis Batch: 528576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	10.0	11.0		ug/L		110	69 - 145
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	70 - 130
1,3-Dichlorobenzene	10.0	10.8		ug/L		108	70 - 130
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 130
1,3-Dichloropropane	10.0	10.8		ug/L		108	70 - 130
1,1-Dichloropropene	10.0	10.2		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	9.95		ug/L		100	52 - 140
Ethylene Dibromide	10.0	11.7		ug/L		117	70 - 130
Dibromomethane	10.0	11.5		ug/L		115	70 - 130
Dichlorodifluoromethane	10.0	8.37		ug/L		84	29 - 150
1,1-Dichloroethane	10.0	10.6		ug/L		106	64 - 130
1,2-Dichloroethane	10.0	9.69		ug/L		97	57 - 138
1,1-Dichloroethene	10.0	10.7		ug/L		107	70 - 130
cis-1,2-Dichloroethene	10.0	11.3		ug/L		113	70 - 133
trans-1,2-Dichloroethene	10.0	11.0		ug/L		110	70 - 130
1,2-Dichloropropane	10.0	11.8		ug/L		118	67 - 130
cis-1,3-Dichloropropene	10.0	11.0		ug/L		110	70 - 133
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	70 - 132
Ethylbenzene	10.0	10.1		ug/L		101	70 - 130
Hexachlorobutadiene	10.0	10.1		ug/L		101	10 - 150
2-Hexanone	10.0	9.78		ug/L		98	10 - 150
Isopropylbenzene	10.0	10.6		ug/L		106	70 - 136
4-Isopropyltoluene	10.0	10.9		ug/L		109	70 - 132
Methylene Chloride	10.0	9.82		ug/L		98	52 - 130
4-Methyl-2-pentanone (MIBK)	10.0	9.76		ug/L		98	59 - 149
Naphthalene	10.0	11.1		ug/L		111	60 - 140
N-Propylbenzene	10.0	10.6		ug/L		106	67 - 139
Styrene	10.0	10.1		ug/L		101	70 - 134
1,1,1,2-Tetrachloroethane	10.0	11.2		ug/L		112	60 - 141
1,1,2,2-Tetrachloroethane	10.0	11.9		ug/L		119	63 - 130
Tetrachloroethene	10.0	10.1		ug/L		101	70 - 130
Toluene	10.0	10.4		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	10.0	10.6		ug/L		106	60 - 140
1,2,4-Trichlorobenzene	10.0	10.7		ug/L		107	60 - 140
1,1,1-Trichloroethane	10.0	9.80		ug/L		98	70 - 130
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	70 - 130
Trichloroethene	10.0	11.8		ug/L		118	70 - 130
Trichlorofluoromethane	10.0	10.0		ug/L		100	60 - 150
1,2,3-Trichloropropane	10.0	11.8		ug/L		118	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.6		ug/L		106	60 - 140
1,2,4-Trimethylbenzene	10.0	10.5		ug/L		105	70 - 135
1,3,5-Trimethylbenzene	10.0	10.6		ug/L		106	70 - 136
Vinyl acetate	10.0	10.7		ug/L		107	48 - 140
Vinyl chloride	10.0	8.30		ug/L		83	59 - 133
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	70 - 130
o-Xylene	10.0	10.8		ug/L		108	70 - 130
2,2-Dichloropropane	10.0	9.55		ug/L		95	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528576/5
Matrix: Water
Analysis Batch: 528576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*93*		*80 - 128*

Lab Sample ID: 440-232008-B-1 MS
Matrix: Water
Analysis Batch: 528576

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		10.0	10.8		ug/L		108	70 - 130
Acetone	21		10.0	29.7		ug/L		92	10 - 150
Benzene	ND		10.0	10.5		ug/L		105	66 - 130
Dichlorobromomethane	ND		10.0	10.1		ug/L		101	70 - 138
Bromobenzene	ND		10.0	10.3		ug/L		103	70 - 130
Chlorobromomethane	ND		10.0	11.7		ug/L		117	70 - 130
Bromoform	ND		10.0	11.0		ug/L		110	59 - 150
Bromomethane	ND		10.0	10.1		ug/L		101	62 - 131
2-Butanone (MEK)	ND	F1	10.0	14.7	F1	ug/L		147	48 - 140
n-Butylbenzene	ND		10.0	9.87		ug/L		99	61 - 149
sec-Butylbenzene	ND		10.0	10.6		ug/L		106	67 - 134
tert-Butylbenzene	ND		10.0	10.2		ug/L		102	70 - 130
Carbon disulfide	ND		10.0	9.85		ug/L		98	49 - 140
Carbon tetrachloride	ND		10.0	9.68		ug/L		97	60 - 150
Chlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130
Chloroethane	ND		10.0	9.98		ug/L		100	68 - 130
Chloroform	ND		10.0	10.1		ug/L		101	70 - 130
Chloromethane	ND		10.0	7.74		ug/L		77	39 - 144
2-Chlorotoluene	ND		10.0	9.94		ug/L		99	70 - 130
4-Chlorotoluene	ND		10.0	9.84		ug/L		98	70 - 130
Chlorodibromomethane	ND		10.0	10.8		ug/L		108	70 - 148
1,2-Dichlorobenzene	ND		10.0	10.6		ug/L		106	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	ND		10.0	9.98		ug/L		100	70 - 130
1,1-Dichloropropene	ND		10.0	9.93		ug/L		99	64 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	9.66		ug/L		97	48 - 140
Ethylene Dibromide	ND		10.0	10.7		ug/L		107	70 - 131
Dibromomethane	ND		10.0	10.6		ug/L		106	70 - 130
Dichlorodifluoromethane	ND		10.0	8.05		ug/L		80	25 - 142
1,1-Dichloroethane	ND		10.0	10.1		ug/L		101	65 - 130
1,2-Dichloroethane	ND		10.0	9.24		ug/L		92	56 - 146
1,1-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130
cis-1,2-Dichloroethene	ND		10.0	10.7		ug/L		107	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.5		ug/L		105	70 - 130
1,2-Dichloropropane	ND		10.0	11.1		ug/L		111	69 - 130
cis-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 133
trans-1,3-Dichloropropene	ND		10.0	9.65		ug/L		96	70 - 138
Ethylbenzene	ND		10.0	9.76		ug/L		98	70 - 130
Hexachlorobutadiene	ND		10.0	10.0		ug/L		100	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232008-B-1 MS
Matrix: Water
Analysis Batch: 528576

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		10.0	9.95		ug/L		100	10 - 150
Isopropylbenzene	ND		10.0	10.4		ug/L		104	70 - 132
4-Isopropyltoluene	ND		10.0	10.5		ug/L		105	70 - 130
Methylene Chloride	ND		10.0	8.94		ug/L		89	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.65		ug/L		96	52 - 150
Naphthalene	ND		10.0	10.3		ug/L		103	60 - 140
N-Propylbenzene	ND		10.0	10.1		ug/L		101	66 - 135
Styrene	ND		10.0	9.41		ug/L		94	29 - 150
1,1,1,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	60 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	11.2		ug/L		112	63 - 130
Tetrachloroethene	ND		10.0	9.82		ug/L		98	70 - 137
Toluene	ND		10.0	9.73		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		10.0	9.42		ug/L		94	70 - 130
1,1,2-Trichloroethane	ND		10.0	10.3		ug/L		103	70 - 130
Trichloroethene	ND		10.0	11.0		ug/L		110	70 - 130
Trichlorofluoromethane	ND		10.0	9.63		ug/L		96	60 - 150
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.3		ug/L		103	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130
Vinyl acetate	ND		10.0	9.91		ug/L		99	23 - 150
Vinyl chloride	ND		10.0	7.72		ug/L		77	50 - 137
m-Xylene & p-Xylene	ND		10.0	10.1		ug/L		101	70 - 133
o-Xylene	ND		10.0	10.3		ug/L		103	70 - 133
2,2-Dichloropropane	ND		10.0	9.45		ug/L		95	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
Toluene-d8 (Surr)	*93*		*80 - 128*

Lab Sample ID: 440-232008-B-1 MSD
Matrix: Water
Analysis Batch: 528576

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		10.0	11.1		ug/L		111	70 - 130	3	25
Acetone	21		10.0	29.3		ug/L		87	10 - 150	1	35
Benzene	ND		10.0	11.4		ug/L		114	66 - 130	8	20
Dichlorobromomethane	ND		10.0	10.7		ug/L		107	70 - 138	5	20
Bromobenzene	ND		10.0	11.0		ug/L		110	70 - 130	6	20
Chlorobromomethane	ND		10.0	12.3		ug/L		123	70 - 130	5	25
Bromoform	ND		10.0	11.2		ug/L		112	59 - 150	2	25
Bromomethane	ND		10.0	11.0		ug/L		110	62 - 131	8	25
2-Butanone (MEK)	ND	F1	10.0	14.3	F1	ug/L		143	48 - 140	3	40
n-Butylbenzene	ND		10.0	10.7		ug/L		107	61 - 149	8	20
sec-Butylbenzene	ND		10.0	11.4		ug/L		114	67 - 134	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232008-B-1 MSD
Matrix: Water
Analysis Batch: 528576

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene	ND		10.0	10.8		ug/L		108	70 - 130	6	20
Carbon disulfide	ND		10.0	11.0		ug/L		110	49 - 140	11	20
Carbon tetrachloride	ND		10.0	10.9		ug/L		109	60 - 150	12	25
Chlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130	7	20
Chloroethane	ND		10.0	10.7		ug/L		107	68 - 130	7	25
Chloroform	ND		10.0	11.0		ug/L		110	70 - 130	8	20
Chloromethane	ND		10.0	8.69		ug/L		87	39 - 144	12	25
2-Chlorotoluene	ND		10.0	10.5		ug/L		105	70 - 130	6	20
4-Chlorotoluene	ND		10.0	10.5		ug/L		105	70 - 130	7	20
Chlorodibromomethane	ND		10.0	11.0		ug/L		110	70 - 148	2	25
1,2-Dichlorobenzene	ND		10.0	11.1		ug/L		111	70 - 130	4	20
1,3-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130	6	20
1,4-Dichlorobenzene	ND		10.0	10.7		ug/L		107	70 - 130	5	20
1,3-Dichloropropane	ND		10.0	10.2		ug/L		102	70 - 130	2	25
1,1-Dichloropropene	ND		10.0	11.0		ug/L		110	64 - 130	11	20
1,2-Dibromo-3-Chloropropane	ND		10.0	9.79		ug/L		98	48 - 140	1	30
Ethylene Dibromide	ND		10.0	11.0		ug/L		110	70 - 131	3	25
Dibromomethane	ND		10.0	11.3		ug/L		113	70 - 130	6	25
Dichlorodifluoromethane	ND		10.0	9.26		ug/L		93	25 - 142	14	30
1,1-Dichloroethane	ND		10.0	11.2		ug/L		112	65 - 130	10	20
1,2-Dichloroethane	ND		10.0	9.68		ug/L		97	56 - 146	5	20
1,1-Dichloroethene	ND		10.0	11.7		ug/L		117	70 - 130	12	20
cis-1,2-Dichloroethene	ND		10.0	11.6		ug/L		116	70 - 130	8	20
trans-1,2-Dichloroethene	ND		10.0	11.6		ug/L		116	70 - 130	10	20
1,2-Dichloropropane	ND		10.0	12.1		ug/L		121	69 - 130	9	20
cis-1,3-Dichloropropene	ND		10.0	10.8		ug/L		108	70 - 133	3	20
trans-1,3-Dichloropropene	ND		10.0	10.2		ug/L		102	70 - 138	6	25
Ethylbenzene	ND		10.0	10.6		ug/L		106	70 - 130	8	20
Hexachlorobutadiene	ND		10.0	10.6		ug/L		106	10 - 150	6	20
2-Hexanone	ND		10.0	9.49		ug/L		95	10 - 150	5	35
Isopropylbenzene	ND		10.0	11.3		ug/L		113	70 - 132	8	20
4-Isopropyltoluene	ND		10.0	11.5		ug/L		115	70 - 130	8	20
Methylene Chloride	ND		10.0	9.73		ug/L		97	52 - 130	8	20
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.51		ug/L		95	52 - 150	1	35
Naphthalene	ND		10.0	11.1		ug/L		111	60 - 140	7	30
N-Propylbenzene	ND		10.0	10.9		ug/L		109	66 - 135	7	20
Styrene	ND		10.0	10.2		ug/L		102	29 - 150	8	35
1,1,1,2-Tetrachloroethane	ND		10.0	11.2		ug/L		112	60 - 149	5	20
1,1,2,2-Tetrachloroethane	ND		10.0	11.3		ug/L		113	63 - 130	1	30
Tetrachloroethene	ND		10.0	10.9		ug/L		109	70 - 137	11	20
Toluene	ND		10.0	10.7		ug/L		107	70 - 130	9	20
1,2,3-Trichlorobenzene	ND		10.0	10.9		ug/L		109	60 - 140	6	20
1,2,4-Trichlorobenzene	ND		10.0	11.1		ug/L		111	60 - 140	8	20
1,1,1-Trichloroethane	ND		10.0	10.5		ug/L		105	70 - 130	11	20
1,1,2-Trichloroethane	ND		10.0	10.7		ug/L		107	70 - 130	4	25
Trichloroethene	ND		10.0	12.3		ug/L		123	70 - 130	11	20
Trichlorofluoromethane	ND		10.0	10.8		ug/L		108	60 - 150	12	25
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	60 - 130	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232008-B-1 MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 528576

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.7		ug/L		117	60 - 140	13	20
1,2,4-Trimethylbenzene	ND		10.0	10.8		ug/L		108	70 - 130	7	25
1,3,5-Trimethylbenzene	ND		10.0	10.8		ug/L		108	70 - 130	7	20
Vinyl acetate	ND		10.0	10.1		ug/L		101	23 - 150	2	30
Vinyl chloride	ND		10.0	8.81		ug/L		88	50 - 137	13	30
m-Xylene & p-Xylene	ND		10.0	10.9		ug/L		109	70 - 133	7	25
o-Xylene	ND		10.0	11.2		ug/L		112	70 - 133	8	20
2,2-Dichloropropane	ND		10.0	10.2		ug/L		102	69 - 138	8	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
Toluene-d8 (Surr)	*93*		*80 - 128*

Lab Sample ID: MB 440-528653/4 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 528653

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Acetone	ND		20	10	ug/L			02/14/19 08:25	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 08:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 08:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 08:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 08:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528653/4
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 08:25	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 08:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 08:25	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 08:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 08:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 08:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*02/14/19 08:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 08:25*	*1*

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	9.86		ug/L		99	63 - 131
Acetone	10.0	ND		ug/L		57	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.53		ug/L		95	68 - 130
Dichlorobromomethane	10.0	10.9		ug/L		109	70 - 132
Bromobenzene	10.0	10.1		ug/L		101	70 - 130
Chlorobromomethane	10.0	11.6		ug/L		116	70 - 130
Bromoform	10.0	11.5		ug/L		115	60 - 148
Bromomethane	10.0	10.9		ug/L		109	64 - 139
2-Butanone (MEK)	10.0	8.12		ug/L		81	44 - 150
n-Butylbenzene	10.0	9.17		ug/L		92	65 - 150
sec-Butylbenzene	10.0	9.22		ug/L		92	70 - 138
tert-Butylbenzene	10.0	9.60		ug/L		96	70 - 130
Carbon disulfide	10.0	8.65		ug/L		86	52 - 136
Carbon tetrachloride	10.0	11.3		ug/L		113	60 - 150
Chlorobenzene	10.0	10.2		ug/L		102	70 - 130
Chloroethane	10.0	8.76		ug/L		88	64 - 135
Chloroform	10.0	10.9		ug/L		109	70 - 130
Chloromethane	10.0	7.95		ug/L		79	47 - 140
2-Chlorotoluene	10.0	9.06		ug/L		91	70 - 130
4-Chlorotoluene	10.0	9.11		ug/L		91	70 - 130
Chlorodibromomethane	10.0	11.1		ug/L		111	69 - 145
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	10.0	9.99		ug/L		100	70 - 130
1,3-Dichloropropane	10.0	9.65		ug/L		97	70 - 130
1,1-Dichloropropene	10.0	9.95		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	9.32		ug/L		93	52 - 140
Ethylene Dibromide	10.0	10.8		ug/L		108	70 - 130
Dibromomethane	10.0	11.2		ug/L		112	70 - 130
Dichlorodifluoromethane	10.0	10.6		ug/L		106	29 - 150
1,1-Dichloroethane	10.0	9.55		ug/L		95	64 - 130
1,2-Dichloroethane	10.0	11.5		ug/L		115	57 - 138
1,1-Dichloroethene	10.0	10.8		ug/L		108	70 - 130
cis-1,2-Dichloroethene	10.0	9.92		ug/L		99	70 - 133
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 130
1,2-Dichloropropane	10.0	9.45		ug/L		94	67 - 130
cis-1,3-Dichloropropene	10.0	9.52		ug/L		95	70 - 133
trans-1,3-Dichloropropene	10.0	9.80		ug/L		98	70 - 132
Ethylbenzene	10.0	9.40		ug/L		94	70 - 130
Hexachlorobutadiene	10.0	11.5		ug/L		115	10 - 150
2-Hexanone	10.0	8.50		ug/L		85	10 - 150
Isopropylbenzene	10.0	9.78		ug/L		98	70 - 136
4-Isopropyltoluene	10.0	10.1		ug/L		101	70 - 132
Methylene Chloride	10.0	9.47		ug/L		95	52 - 130
4-Methyl-2-pentanone (MIBK)	10.0	7.70		ug/L		77	59 - 149
Naphthalene	10.0	9.26		ug/L		93	60 - 140
N-Propylbenzene	10.0	8.63		ug/L		86	67 - 139
Styrene	10.0	9.26		ug/L		93	70 - 134
1,1,1,2-Tetrachloroethane	10.0	10.7		ug/L		107	60 - 141
1,1,2,2-Tetrachloroethane	10.0	8.81		ug/L		88	63 - 130
Tetrachloroethene	10.0	10.9		ug/L		109	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	10.0	9.06		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	10.0	10.5		ug/L		105	60 - 140
1,2,4-Trichlorobenzene	10.0	10.8		ug/L		108	60 - 140
1,1,1-Trichloroethane	10.0	11.6		ug/L		116	70 - 130
1,1,2-Trichloroethane	10.0	9.53		ug/L		95	70 - 130
Trichloroethene	10.0	10.8		ug/L		108	70 - 130
Trichlorofluoromethane	10.0	13.4		ug/L		134	60 - 150
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	63 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.5		ug/L		115	60 - 140
1,2,4-Trimethylbenzene	10.0	9.34		ug/L		93	70 - 135
1,3,5-Trimethylbenzene	10.0	9.34		ug/L		93	70 - 136
Vinyl acetate	10.0	8.49		ug/L		85	48 - 140
Vinyl chloride	10.0	8.94		ug/L		89	59 - 133
m-Xylene & p-Xylene	10.0	9.79		ug/L		98	70 - 130
o-Xylene	10.0	9.99		ug/L		100	70 - 130
2,2-Dichloropropane	10.0	10.8		ug/L		108	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	4.6		10.0	13.9		ug/L		93	70 - 130
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150
Benzene	ND		10.0	9.11		ug/L		91	66 - 130
Dichlorobromomethane	ND		10.0	10.5		ug/L		105	70 - 138
Bromobenzene	ND		10.0	9.66		ug/L		97	70 - 130
Chlorobromomethane	ND		10.0	10.4		ug/L		104	70 - 130
Bromoform	ND		10.0	10.9		ug/L		109	59 - 150
Bromomethane	ND		10.0	10.9		ug/L		109	62 - 131
2-Butanone (MEK)	ND		10.0	8.50		ug/L		85	48 - 140
n-Butylbenzene	ND		10.0	8.79		ug/L		88	61 - 149
sec-Butylbenzene	ND		10.0	8.91		ug/L		89	67 - 134
tert-Butylbenzene	ND		10.0	9.83		ug/L		98	70 - 130
Carbon disulfide	ND		10.0	8.35		ug/L		84	49 - 140
Carbon tetrachloride	ND		10.0	11.3		ug/L		113	60 - 150
Chlorobenzene	ND		10.0	9.91		ug/L		99	70 - 130
Chloroethane	ND		10.0	8.67		ug/L		87	68 - 130
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130
Chloromethane	ND		10.0	7.50		ug/L		75	39 - 144
2-Chlorotoluene	ND		10.0	8.79		ug/L		88	70 - 130
4-Chlorotoluene	ND		10.0	9.15		ug/L		92	70 - 130
Chlorodibromomethane	ND		10.0	10.9		ug/L		109	70 - 148
1,2-Dichlorobenzene	ND		10.0	9.81		ug/L		98	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	ND		10.0	9.99		ug/L		100	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.93		ug/L		99	70 - 130
1,3-Dichloropropane	ND		10.0	8.98		ug/L		90	70 - 130
1,1-Dichloropropene	ND		10.0	9.69		ug/L		97	64 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.72		ug/L		87	48 - 140
Ethylene Dibromide	ND		10.0	9.58		ug/L		96	70 - 131
Dibromomethane	ND		10.0	10.5		ug/L		105	70 - 130
Dichlorodifluoromethane	ND		10.0	10.8		ug/L		108	25 - 142
1,1-Dichloroethane	ND		10.0	9.02		ug/L		90	65 - 130
1,2-Dichloroethane	ND		10.0	11.1		ug/L		111	56 - 146
1,1-Dichloroethene	ND		10.0	10.1		ug/L		101	70 - 130
cis-1,2-Dichloroethene	ND		10.0	9.49		ug/L		95	70 - 130
trans-1,2-Dichloroethene	ND		10.0	9.49		ug/L		95	70 - 130
1,2-Dichloropropane	ND		10.0	9.22		ug/L		92	69 - 130
cis-1,3-Dichloropropene	ND		10.0	8.98		ug/L		90	70 - 133
trans-1,3-Dichloropropene	ND		10.0	9.29		ug/L		93	70 - 138
Ethylbenzene	ND		10.0	9.02		ug/L		90	70 - 130
Hexachlorobutadiene	ND		10.0	11.4		ug/L		114	10 - 150
2-Hexanone	ND		10.0	8.35		ug/L		83	10 - 150
Isopropylbenzene	ND		10.0	9.42		ug/L		94	70 - 132
4-Isopropyltoluene	ND		10.0	9.93		ug/L		99	70 - 130
Methylene Chloride	ND		10.0	9.06		ug/L		91	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.48		ug/L		85	52 - 150
Naphthalene	ND		10.0	8.74		ug/L		87	60 - 140
N-Propylbenzene	ND		10.0	8.26		ug/L		83	66 - 135
Styrene	ND		10.0	8.96		ug/L		90	29 - 150
1,1,1,2-Tetrachloroethane	ND		10.0	10.3		ug/L		103	60 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	8.34		ug/L		83	63 - 130
Tetrachloroethene	ND		10.0	10.5		ug/L		105	70 - 137
Toluene	ND		10.0	8.65		ug/L		87	70 - 130
1,2,3-Trichlorobenzene	ND		10.0	10.1		ug/L		101	60 - 140
1,2,4-Trichlorobenzene	ND		10.0	10.5		ug/L		105	60 - 140
1,1,1-Trichloroethane	ND		10.0	10.8		ug/L		108	70 - 130
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130
Trichloroethene	ND		10.0	10.8		ug/L		108	70 - 130
Trichlorofluoromethane	ND		10.0	12.5		ug/L		125	60 - 150
1,2,3-Trichloropropane	ND		10.0	10.7		ug/L		107	60 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.8		ug/L		108	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	9.13		ug/L		91	70 - 130
1,3,5-Trimethylbenzene	ND		10.0	9.13		ug/L		91	70 - 130
Vinyl acetate	ND		10.0	7.86		ug/L		79	23 - 150
Vinyl chloride	ND		10.0	9.89		ug/L		99	50 - 137
m-Xylene & p-Xylene	ND		10.0	9.53		ug/L		95	70 - 133
o-Xylene	ND		10.0	9.44		ug/L		94	70 - 133
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	4.6		10.0	13.7		ug/L		91	70 - 130	2	25
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150	NC	35
Benzene	ND		10.0	9.11		ug/L		91	66 - 130	0	20
Dichlorobromomethane	ND		10.0	10.3		ug/L		103	70 - 138	2	20
Bromobenzene	ND		10.0	9.86		ug/L		99	70 - 130	2	20
Chlorobromomethane	ND		10.0	10.7		ug/L		107	70 - 130	3	25
Bromoform	ND		10.0	10.4		ug/L		104	59 - 150	5	25
Bromomethane	ND		10.0	11.5		ug/L		115	62 - 131	5	25
2-Butanone (MEK)	ND		10.0	7.11		ug/L		71	48 - 140	18	40
n-Butylbenzene	ND		10.0	8.93		ug/L		89	61 - 149	2	20
sec-Butylbenzene	ND		10.0	8.85		ug/L		89	67 - 134	1	20
tert-Butylbenzene	ND		10.0	9.84		ug/L		98	70 - 130	0	20
Carbon disulfide	ND		10.0	8.13		ug/L		81	49 - 140	3	20
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	60 - 150	1	25
Chlorobenzene	ND		10.0	9.88		ug/L		99	70 - 130	0	20
Chloroethane	ND		10.0	8.47		ug/L		85	68 - 130	2	25
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130	1	20
Chloromethane	ND		10.0	7.45		ug/L		75	39 - 144	1	25
2-Chlorotoluene	ND		10.0	8.72		ug/L		87	70 - 130	1	20
4-Chlorotoluene	ND		10.0	9.25		ug/L		92	70 - 130	1	20
Chlorodibromomethane	ND		10.0	10.8		ug/L		108	70 - 148	1	25
1,2-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	3	20
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	1	20
1,4-Dichlorobenzene	ND		10.0	9.84		ug/L		98	70 - 130	1	20
1,3-Dichloropropane	ND		10.0	9.08		ug/L		91	70 - 130	1	25
1,1-Dichloropropene	ND		10.0	9.84		ug/L		98	64 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		10.0	9.89		ug/L		99	48 - 140	13	30
Ethylene Dibromide	ND		10.0	10.1		ug/L		101	70 - 131	6	25
Dibromomethane	ND		10.0	10.7		ug/L		107	70 - 130	2	25
Dichlorodifluoromethane	ND		10.0	10.9		ug/L		109	25 - 142	1	30
1,1-Dichloroethane	ND		10.0	9.19		ug/L		92	65 - 130	2	20
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	56 - 146	1	20
1,1-Dichloroethene	ND		10.0	10.0		ug/L		100	70 - 130	1	20
cis-1,2-Dichloroethene	ND		10.0	9.82		ug/L		98	70 - 130	3	20
trans-1,2-Dichloroethene	ND		10.0	9.68		ug/L		97	70 - 130	2	20
1,2-Dichloropropane	ND		10.0	8.75		ug/L		87	69 - 130	5	20
cis-1,3-Dichloropropene	ND		10.0	9.26		ug/L		93	70 - 133	3	20
trans-1,3-Dichloropropene	ND		10.0	9.08		ug/L		91	70 - 138	2	25
Ethylbenzene	ND		10.0	8.94		ug/L		89	70 - 130	1	20
Hexachlorobutadiene	ND		10.0	11.8		ug/L		118	10 - 150	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	ND		10.0	7.83		ug/L		78	10 - 150	6	35
Isopropylbenzene	ND		10.0	9.36		ug/L		94	70 - 132	1	20
4-Isopropyltoluene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
Methylene Chloride	ND		10.0	8.99		ug/L		90	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.32		ug/L		83	52 - 150	2	35
Naphthalene	ND		10.0	9.19		ug/L		92	60 - 140	5	30
N-Propylbenzene	ND		10.0	7.99		ug/L		80	66 - 135	3	20
Styrene	ND		10.0	8.89		ug/L		89	29 - 150	1	35
1,1,1,2-Tetrachloroethane	ND		10.0	10.6		ug/L		106	60 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		10.0	8.43		ug/L		84	63 - 130	1	30
Tetrachloroethene	ND		10.0	10.8		ug/L		108	70 - 137	3	20
Toluene	ND		10.0	8.67		ug/L		87	70 - 130	0	20
1,2,3-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		10.0	11.0		ug/L		110	60 - 140	4	20
1,1,1-Trichloroethane	ND		10.0	11.2		ug/L		112	70 - 130	3	20
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	1	25
Trichloroethene	ND		10.0	10.5		ug/L		105	70 - 130	3	20
Trichlorofluoromethane	ND		10.0	13.5		ug/L		135	60 - 150	8	25
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	60 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.7		ug/L		107	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		10.0	9.11		ug/L		91	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		10.0	9.25		ug/L		93	70 - 130	1	20
Vinyl acetate	ND		10.0	7.87		ug/L		79	23 - 150	0	30
Vinyl chloride	ND		10.0	10.3		ug/L		103	50 - 137	4	30
m-Xylene & p-Xylene	ND		10.0	9.33		ug/L		93	70 - 133	2	25
o-Xylene	ND		10.0	9.72		ug/L		97	70 - 133	3	20
2,2-Dichloropropane	ND		10.0	10.3		ug/L		103	69 - 138	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-528577/4
Matrix: Water
Analysis Batch: 528577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/13/19 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*02/13/19 21:32*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/13/19 21:32*	*1*
Toluene-d8 (Surr)	*95*		*80 - 128*		*02/13/19 21:32*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-528577/6
Matrix: Water
Analysis Batch: 528577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	500	434		ug/L		87	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*76 - 132*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 128*

Lab Sample ID: 440-232008-B-1 MS
Matrix: Water
Analysis Batch: 528577

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		690	728		ug/L		106	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 128*

Lab Sample ID: 440-232008-B-1 MSD
Matrix: Water
Analysis Batch: 528577

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		690	780		ug/L		113	50 - 145	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 128*

Lab Sample ID: MB 440-528654/4
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/14/19 08:25*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/14/19 08:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 08:25*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-528654/6
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	436		ug/L		87	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	260		690	941		ug/L		98	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	260		690	929		ug/L		97	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-527285/1-A
Matrix: Water
Analysis Batch: 527818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Acenaphthene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Acenaphthylene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Fluorene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Phenanthrene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Anthracene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Chrysene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-527285/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 527818 **Prep Batch: 527285**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Fluoranthene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Pyrene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/07/19 09:18	02/10/19 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*38 - 120*	*02/07/19 09:18*	*02/10/19 12:32*	*1*
Nitrobenzene-d5	*71*		*10 - 120*	*02/07/19 09:18*	*02/10/19 12:32*	*1*
Terphenyl-d14	*96*		*21 - 120*	*02/07/19 09:18*	*02/10/19 12:32*	*1*

Lab Sample ID: LCS 440-527285/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 527818 **Prep Batch: 527285**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.589		ug/L		59	50 - 120
Acenaphthene	1.00	0.669		ug/L		67	55 - 120
Acenaphthylene	1.00	0.669		ug/L		67	53 - 120
Fluorene	1.00	0.716		ug/L		72	56 - 120
Phenanthrene	1.00	0.668		ug/L		67	56 - 120
Anthracene	1.00	0.629		ug/L		63	54 - 120
Benzo[a]anthracene	1.00	0.660		ug/L		66	53 - 120
Chrysene	1.00	0.675		ug/L		68	56 - 120
Benzo[a]pyrene	1.00	0.619		ug/L		62	44 - 120
Benzo[b]fluoranthene	1.00	0.666		ug/L		67	48 - 120
Benzo[k]fluoranthene	1.00	0.644		ug/L		64	47 - 121
Benzo[g,h,i]perylene	1.00	0.551		ug/L		55	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.585		ug/L		58	38 - 120
Fluoranthene	1.00	0.681		ug/L		68	59 - 120
Pyrene	1.00	0.675		ug/L		67	59 - 120
Dibenz(a,h)anthracene	1.00	0.592		ug/L		59	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*38 - 120*
Nitrobenzene-d5	*60*		*10 - 120*
Terphenyl-d14	*72*		*21 - 120*

Lab Sample ID: LCSD 440-527285/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 527818 **Prep Batch: 527285**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.723		ug/L		72	50 - 120	20	35
Acenaphthene	1.00	0.849		ug/L		85	55 - 120	24	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-527285/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 527818 **Prep Batch: 527285**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene			1.00	0.835		ug/L		84	53 - 120	22	35
Fluorene			1.00	0.918		ug/L		92	56 - 120	25	35
Phenanthrene			1.00	0.874		ug/L		87	56 - 120	27	35
Anthracene			1.00	0.835		ug/L		84	54 - 120	28	35
Benzo[a]anthracene			1.00	0.881		ug/L		88	53 - 120	29	35
Chrysene			1.00	0.897		ug/L		90	56 - 120	28	35
Benzo[a]pyrene			1.00	0.831		ug/L		83	44 - 120	29	35
Benzo[b]fluoranthene			1.00	0.867		ug/L		87	48 - 120	26	35
Benzo[k]fluoranthene			1.00	0.864		ug/L		86	47 - 121	29	35
Benzo[g,h,i]perylene			1.00	0.728		ug/L		73	41 - 123	28	35
Indeno[1,2,3-cd]pyrene			1.00	0.774		ug/L		77	38 - 120	28	35
Fluoranthene			1.00	0.909		ug/L		91	59 - 120	29	35
Pyrene			1.00	0.901		ug/L		90	59 - 120	29	35
Dibenz(a,h)anthracene			1.00	0.790		ug/L		79	38 - 122	29	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*38 - 120*
Nitrobenzene-d5	*73*		*10 - 120*
Terphenyl-d14	*94*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-527042/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 527334 **Prep Batch: 527042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		02/06/19 10:01	02/07/19 14:28	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		02/06/19 10:01	02/07/19 14:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*45 - 120*	*02/06/19 10:01*	*02/07/19 14:28*	*1*

Lab Sample ID: LCS 440-527042/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 527334 **Prep Batch: 527042**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			1000	660		ug/L		66	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*69*		*45 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 440-527042/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 527334 **Prep Batch: 527042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			1000	751		ug/L		75	40 - 115	13	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*77*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259741/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total Recoverable**
Analysis Batch: 259875 **Prep Batch: 259741**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/04/19 10:29	02/05/19 18:36	1
Arsenic	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 18:36	1
Barium	1.73	J	50	1.6	ug/L		02/04/19 10:29	02/05/19 18:36	1
Beryllium	ND		2.0	0.59	ug/L		02/04/19 10:29	02/05/19 18:36	1
Cadmium	ND		2.0	0.21	ug/L		02/04/19 10:29	02/05/19 18:36	1
Chromium	ND		10	0.70	ug/L		02/04/19 10:29	02/05/19 18:36	1
Cobalt	ND		2.0	0.68	ug/L		02/04/19 10:29	02/05/19 18:36	1
Copper	ND		20	3.7	ug/L		02/04/19 10:29	02/05/19 18:36	1
Lead	ND		5.0	2.2	ug/L		02/04/19 10:29	02/05/19 18:36	1
Molybdenum	ND		10	2.9	ug/L		02/04/19 10:29	02/05/19 18:36	1
Nickel	ND		10	1.0	ug/L		02/04/19 10:29	02/05/19 18:36	1
Selenium	ND		20	4.6	ug/L		02/04/19 10:29	02/05/19 18:36	1
Thallium	ND		10	3.5	ug/L		02/04/19 10:29	02/05/19 18:36	1
Vanadium	ND		10	0.87	ug/L		02/04/19 10:29	02/05/19 18:36	1
Zinc	ND		20	7.4	ug/L		02/04/19 10:29	02/05/19 18:36	1

Lab Sample ID: MB 720-259741/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total Recoverable**
Analysis Batch: 259997 **Prep Batch: 259741**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		5.0	2.0	ug/L		02/04/19 10:29	02/07/19 15:32	1

Lab Sample ID: LCS 720-259741/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total Recoverable**
Analysis Batch: 259875 **Prep Batch: 259741**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	945		ug/L		95	80 - 120
Arsenic	1000	933		ug/L		93	80 - 120
Barium	1000	897		ug/L		90	80 - 120
Beryllium	1000	898		ug/L		90	80 - 120
Cadmium	1000	974		ug/L		97	80 - 120
Chromium	1000	950		ug/L		95	80 - 120
Cobalt	1000	980		ug/L		98	80 - 120
Copper	1000	955		ug/L		96	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259741/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 259875 — **Prep Batch: 259741**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1000	989		ug/L		99	80 - 120
Molybdenum	1000	941		ug/L		94	80 - 120
Nickel	1000	984		ug/L		98	80 - 120
Selenium	1000	981		ug/L		98	80 - 120
Thallium	1000	964		ug/L		96	80 - 120
Vanadium	1000	946		ug/L		95	80 - 120
Zinc	1000	975		ug/L		97	80 - 120

Lab Sample ID: LCS 720-259741/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 260160 — **Prep Batch: 259741**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	500	485		ug/L		97	80 - 120

Lab Sample ID: 720-91104-I-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 259875 — **Prep Batch: 259741**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1000	877		ug/L		88	75 - 125
Arsenic	37		1000	916		ug/L		88	75 - 125
Barium	66	B	1000	885		ug/L		82	75 - 125
Beryllium	1.2	J	1000	895		ug/L		89	75 - 125
Cadmium	0.88	J	1000	912		ug/L		91	75 - 125
Chromium	1.2	J	1000	858		ug/L		86	75 - 125
Cobalt	5.1		1000	908		ug/L		90	75 - 125
Copper	5.7	J	1000	854		ug/L		85	75 - 125
Lead	8.4		1000	887		ug/L		88	75 - 125
Molybdenum	5.3	J	1000	869		ug/L		86	75 - 125
Nickel	3.8	J	1000	886		ug/L		88	75 - 125
Selenium	ND		1000	926		ug/L		93	75 - 125
Thallium	ND		1000	832		ug/L		83	75 - 125
Vanadium	ND		1000	861		ug/L		86	75 - 125
Zinc	ND		1000	912		ug/L		91	75 - 125

Lab Sample ID: 720-91104-I-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 259997 — **Prep Batch: 259741**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND	F1	500	329	F1	ug/L		66	75 - 125

Lab Sample ID: 720-91104-I-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 259875 — **Prep Batch: 259741**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1000	866		ug/L		87	75 - 125	1	20
Arsenic	37		1000	912		ug/L		87	75 - 125	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91104-I-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 259875 — **Prep Batch: 259741**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	66	B	1000	926		ug/L		86	75 - 125	5	20
Beryllium	1.2	J	1000	876		ug/L		87	75 - 125	2	20
Cadmium	0.88	J	1000	908		ug/L		91	75 - 125	0	20
Chromium	1.2	J	1000	861		ug/L		86	75 - 125	0	20
Cobalt	5.1		1000	902		ug/L		90	75 - 125	1	20
Copper	5.7	J	1000	878		ug/L		87	75 - 125	3	20
Lead	8.4		1000	912		ug/L		90	75 - 125	3	20
Molybdenum	5.3	J	1000	869		ug/L		86	75 - 125	0	20
Nickel	3.8	J	1000	916		ug/L		91	75 - 125	3	20
Selenium	ND		1000	946		ug/L		95	75 - 125	2	20
Thallium	ND		1000	836		ug/L		84	75 - 125	1	20
Vanadium	ND		1000	889		ug/L		89	75 - 125	3	20
Zinc	ND		1000	929		ug/L		93	75 - 125	2	20

Lab Sample ID: 720-91104-I-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 259997 — **Prep Batch: 259741**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND	F1	500	337	F1	ug/L		67	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-259832/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259978 — **Prep Batch: 259832**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/05/19 19:53	02/07/19 12:49	1

Lab Sample ID: LCS 720-259832/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259978 — **Prep Batch: 259832**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.82		ug/L		98	85 - 115

Lab Sample ID: 720-91104-I-6-F MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 259978 — **Prep Batch: 259832**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	10.3		ug/L		103	75 - 125

Lab Sample ID: 720-91104-I-6-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 259978 — **Prep Batch: 259832**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	10.0		ug/L		100	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-259692/9
Matrix: Water
Analysis Batch: 259692

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			02/01/19 18:50	1

Lab Sample ID: LCS 720-259692/10
Matrix: Water
Analysis Batch: 259692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	250	248		ug/L		99	90 - 110

Lab Sample ID: LCSD 720-259692/11
Matrix: Water
Analysis Batch: 259692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	250	248		ug/L		99	90 - 110	0	20

Lab Sample ID: 720-91128-1 MS
Matrix: Water
Analysis Batch: 259692

Client Sample ID: DG-AY3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	5.8	J	250	251		ug/L		98	85 - 115

Lab Sample ID: 720-91128-1 MSD
Matrix: Water
Analysis Batch: 259692

Client Sample ID: DG-AY3W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	5.8	J	250	252		ug/L		98	85 - 115	0	20

Lab Sample ID: MB 720-259851/9
Matrix: Water
Analysis Batch: 259851

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			02/05/19 17:25	1

Lab Sample ID: LCS 720-259851/10
Matrix: Water
Analysis Batch: 259851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	250	253		ug/L		101	90 - 110

Lab Sample ID: LCSD 720-259851/11
Matrix: Water
Analysis Batch: 259851

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	250	252		ug/L		101	90 - 110	0	20

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: 720-91128-4 MS
Matrix: Water
Analysis Batch: 259851

Client Sample ID: DG-Y15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND	H	250	254		ug/L		102	85 - 115		

Lab Sample ID: 720-91128-4 MSD
Matrix: Water
Analysis Batch: 259851

Client Sample ID: DG-Y15W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND	H	250	253		ug/L		101	85 - 115	0	20

GC/MS VOA

Analysis Batch: 528576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Total/NA	Water	8260B	
720-91128-2	DG-AC15W	Total/NA	Water	8260B	
720-91128-3	DG-AN13W	Total/NA	Water	8260B	
720-91128-4	DG-Y15W	Total/NA	Water	8260B	
720-91128-5	DG-AD13W	Total/NA	Water	8260B	
720-91128-6	DG-AV9W	Total/NA	Water	8260B	
MB 440-528576/4	Method Blank	Total/NA	Water	8260B	
LCS 440-528576/5	Lab Control Sample	Total/NA	Water	8260B	
440-232008-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-232008-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Total/NA	Water	8260B/CA_LUFT MS	
720-91128-2	DG-AC15W	Total/NA	Water	8260B/CA_LUFT MS	
720-91128-3	DG-AN13W	Total/NA	Water	8260B/CA_LUFT MS	
720-91128-4	DG-Y15W	Total/NA	Water	8260B/CA_LUFT MS	
720-91128-5	DG-AD13W	Total/NA	Water	8260B/CA_LUFT MS	
720-91128-6	DG-AV9W	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528577/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528577/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-232008-B-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-232008-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 528653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-6 - RA	DG-AV9W	Total/NA	Water	8260B	
720-91128-7	FB-02.01.19	Total/NA	Water	8260B	
720-91128-8	TB-02.01.19	Total/NA	Water	8260B	
720-91128-9	DUP-93	Total/NA	Water	8260B	
MB 440-528653/4	Method Blank	Total/NA	Water	8260B	
LCS 440-528653/5	Lab Control Sample	Total/NA	Water	8260B	
440-232894-C-12 MS	Matrix Spike	Total/NA	Water	8260B	
440-232894-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-7	FB-02.01.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91128-8	TB-02.01.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91128-9	DUP-93	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528654/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 528654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-528654/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-232894-C-12 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-232894-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 527285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Total/NA	Water	3520C	
720-91128-2	DG-AC15W	Total/NA	Water	3520C	
720-91128-3	DG-AN13W	Total/NA	Water	3520C	
720-91128-4	DG-Y15W	Total/NA	Water	3520C	
720-91128-5	DG-AD13W	Total/NA	Water	3520C	
720-91128-6	DG-AV9W	Total/NA	Water	3520C	
720-91128-9	DUP-93	Total/NA	Water	3520C	
MB 440-527285/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-527285/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-527285/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 527818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Total/NA	Water	8270C SIM	527285
720-91128-2	DG-AC15W	Total/NA	Water	8270C SIM	527285
720-91128-4	DG-Y15W	Total/NA	Water	8270C SIM	527285
720-91128-5	DG-AD13W	Total/NA	Water	8270C SIM	527285
720-91128-6	DG-AV9W	Total/NA	Water	8270C SIM	527285
720-91128-9	DUP-93	Total/NA	Water	8270C SIM	527285
MB 440-527285/1-A	Method Blank	Total/NA	Water	8270C SIM	527285
LCS 440-527285/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	527285
LCSD 440-527285/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	527285

Analysis Batch: 528040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-3	DG-AN13W	Total/NA	Water	8270C SIM	527285

GC Semi VOA

Prep Batch: 527042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Total/NA	Water	3510C	
720-91128-2	DG-AC15W	Total/NA	Water	3510C	
720-91128-3	DG-AN13W	Total/NA	Water	3510C	
720-91128-4	DG-Y15W	Total/NA	Water	3510C	
720-91128-5	DG-AD13W	Total/NA	Water	3510C	
720-91128-5 - DL	DG-AD13W	Total/NA	Water	3510C	
720-91128-6	DG-AV9W	Total/NA	Water	3510C	
720-91128-9 - DL	DUP-93	Total/NA	Water	3510C	
720-91128-9	DUP-93	Total/NA	Water	3510C	
MB 440-527042/1-A	Method Blank	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 527042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-527042/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-527042/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 527334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Total/NA	Water	8015B	527042
720-91128-2	DG-AC15W	Total/NA	Water	8015B	527042
720-91128-3	DG-AN13W	Total/NA	Water	8015B	527042
720-91128-4	DG-Y15W	Total/NA	Water	8015B	527042
720-91128-5	DG-AD13W	Total/NA	Water	8015B	527042
720-91128-5 - DL	DG-AD13W	Total/NA	Water	8015B	527042
720-91128-6	DG-AV9W	Total/NA	Water	8015B	527042
720-91128-9	DUP-93	Total/NA	Water	8015B	527042
MB 440-527042/1-A	Method Blank	Total/NA	Water	8015B	527042
LCS 440-527042/2-A	Lab Control Sample	Total/NA	Water	8015B	527042
LCSD 440-527042/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	527042

Analysis Batch: 527550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-9 - DL	DUP-93	Total/NA	Water	8015B	527042

Metals

Prep Batch: 259741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Dissolved	Water	3005A	
720-91128-2	DG-AC15W	Dissolved	Water	3005A	
720-91128-3	DG-AN13W	Dissolved	Water	3005A	
720-91128-4	DG-Y15W	Dissolved	Water	3005A	
720-91128-5	DG-AD13W	Dissolved	Water	3005A	
720-91128-6	DG-AV9W	Dissolved	Water	3005A	
720-91128-9	DUP-93	Dissolved	Water	3005A	
MB 720-259741/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-259741/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-91104-I-1-A MS	Matrix Spike	Dissolved	Water	3005A	
720-91104-I-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 259832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Dissolved	Water	7470A	
720-91128-2	DG-AC15W	Dissolved	Water	7470A	
720-91128-3	DG-AN13W	Dissolved	Water	7470A	
720-91128-4	DG-Y15W	Dissolved	Water	7470A	
720-91128-5	DG-AD13W	Dissolved	Water	7470A	
720-91128-6	DG-AV9W	Dissolved	Water	7470A	
720-91128-9	DUP-93	Dissolved	Water	7470A	
MB 720-259832/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-259832/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-91104-I-6-F MS	Matrix Spike	Dissolved	Water	7470A	
720-91104-I-6-G MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Metals

Analysis Batch: 259875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Dissolved	Water	6010B	259741
720-91128-2	DG-AC15W	Dissolved	Water	6010B	259741
720-91128-3	DG-AN13W	Dissolved	Water	6010B	259741
720-91128-4	DG-Y15W	Dissolved	Water	6010B	259741
720-91128-5	DG-AD13W	Dissolved	Water	6010B	259741
720-91128-6	DG-AV9W	Dissolved	Water	6010B	259741
720-91128-9	DUP-93	Dissolved	Water	6010B	259741
MB 720-259741/1-A	Method Blank	Total Recoverable	Water	6010B	259741
LCS 720-259741/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259741
720-91104-I-1-A MS	Matrix Spike	Dissolved	Water	6010B	259741
720-91104-I-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	259741

Analysis Batch: 259978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Dissolved	Water	7470A	259832
720-91128-2	DG-AC15W	Dissolved	Water	7470A	259832
720-91128-3	DG-AN13W	Dissolved	Water	7470A	259832
720-91128-4	DG-Y15W	Dissolved	Water	7470A	259832
720-91128-5	DG-AD13W	Dissolved	Water	7470A	259832
720-91128-6	DG-AV9W	Dissolved	Water	7470A	259832
720-91128-9	DUP-93	Dissolved	Water	7470A	259832
MB 720-259832/1-A	Method Blank	Total/NA	Water	7470A	259832
LCS 720-259832/2-A	Lab Control Sample	Total/NA	Water	7470A	259832
720-91104-I-6-F MS	Matrix Spike	Dissolved	Water	7470A	259832
720-91104-I-6-G MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	259832

Analysis Batch: 259997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Dissolved	Water	6010B	259741
720-91128-2	DG-AC15W	Dissolved	Water	6010B	259741
720-91128-3	DG-AN13W	Dissolved	Water	6010B	259741
720-91128-4	DG-Y15W	Dissolved	Water	6010B	259741
720-91128-5	DG-AD13W	Dissolved	Water	6010B	259741
720-91128-6	DG-AV9W	Dissolved	Water	6010B	259741
720-91128-9	DUP-93	Dissolved	Water	6010B	259741
MB 720-259741/1-A	Method Blank	Total Recoverable	Water	6010B	259741
720-91104-I-1-A MS	Matrix Spike	Dissolved	Water	6010B	259741
720-91104-I-1-B MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	259741

Analysis Batch: 260160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-259741/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259741

Analysis Batch: 261877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-5	DG-AD13W	Dissolved	Water	6010B	259741
720-91128-9	DUP-93	Dissolved	Water	6010B	259741

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

General Chemistry

Analysis Batch: 259692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-1	DG-AY3W	Total/NA	Water	7196A	
720-91128-2	DG-AC15W	Total/NA	Water	7196A	
720-91128-3	DG-AN13W	Total/NA	Water	7196A	
720-91128-4	DG-Y15W	Total/NA	Water	7196A	
720-91128-5	DG-AD13W	Total/NA	Water	7196A	
720-91128-6	DG-AV9W	Total/NA	Water	7196A	
720-91128-9	DUP-93	Total/NA	Water	7196A	
MB 720-259692/9	Method Blank	Total/NA	Water	7196A	
LCS 720-259692/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-259692/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-91128-1 MS	DG-AY3W	Total/NA	Water	7196A	
720-91128-1 MSD	DG-AY3W	Total/NA	Water	7196A	

Analysis Batch: 259851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-4	DG-Y15W	Total/NA	Water	7196A	
MB 720-259851/9	Method Blank	Total/NA	Water	7196A	
LCS 720-259851/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-259851/11	Lab Control Sample Dup	Total/NA	Water	7196A	
720-91128-4 MS	DG-Y15W	Total/NA	Water	7196A	
720-91128-4 MSD	DG-Y15W	Total/NA	Water	7196A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DG-AY3W

Lab Sample ID: 720-91128-1

Date Collected: 02/01/19 08:30

Matrix: Water

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528576	02/14/19 04:30	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528577	02/14/19 04:30	OH1	TAL IRV
Total/NA	Prep	3520C			527285	02/07/19 09:18	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527818	02/10/19 17:30	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 19:05	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 16:56	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 19:57	OBI	TAL PLS
Dissolved	Prep	7470A			259832	02/05/19 19:53	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259978	02/07/19 13:01	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259692	02/01/19 18:50	ECB	TAL PLS

Client Sample ID: DG-AC15W

Lab Sample ID: 720-91128-2

Date Collected: 02/01/19 09:30

Matrix: Water

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528576	02/14/19 04:55	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528577	02/14/19 04:55	OH1	TAL IRV
Total/NA	Prep	3520C			527285	02/07/19 09:18	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		2	527818	02/10/19 17:07	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 19:27	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 17:01	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 20:02	OBI	TAL PLS
Dissolved	Prep	7470A			259832	02/05/19 19:53	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259978	02/07/19 13:34	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259692	02/01/19 18:50	ECB	TAL PLS

Client Sample ID: DG-AN13W

Lab Sample ID: 720-91128-3

Date Collected: 02/01/19 10:00

Matrix: Water

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528576	02/14/19 05:19	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528577	02/14/19 05:19	OH1	TAL IRV

Client Sample ID: DG-AN13W
Lab Sample ID: 720-91128-3
Date Collected: 02/01/19 10:00
Matrix: Water
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			527285	02/07/19 09:18	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		5	528040	02/11/19 23:37	HN	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 21:56	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 17:06	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 20:07	OBI	TAL PLS
Dissolved	Prep	7470A			259832	02/05/19 19:53	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259978	02/07/19 13:36	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259692	02/01/19 18:50	ECB	TAL PLS

Client Sample ID: DG-Y15W
Lab Sample ID: 720-91128-4
Date Collected: 02/01/19 10:30
Matrix: Water
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528576	02/14/19 05:44	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528577	02/14/19 05:44	OH1	TAL IRV
Total/NA	Prep	3520C			527285	02/07/19 09:18	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527818	02/10/19 19:48	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 22:17	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 17:12	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 20:12	OBI	TAL PLS
Dissolved	Prep	7470A			259832	02/05/19 19:53	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259978	02/07/19 13:41	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259692	02/01/19 18:50	ECB	TAL PLS
Total/NA	Analysis	7196A		1	259851	02/05/19 17:25	ECB	TAL PLS

Client Sample ID: DG-AD13W
Lab Sample ID: 720-91128-5
Date Collected: 02/01/19 11:20
Matrix: Water
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528576	02/14/19 06:09	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528577	02/14/19 06:09	OH1	TAL IRV
Total/NA	Prep	3520C			527285	02/07/19 09:18	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		10	527818	02/10/19 19:25	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 20:10	LMB	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: DG-AD13W

Lab Sample ID: 720-91128-5

Date Collected: 02/01/19 11:20

Matrix: Water

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL		527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B	DL	10	527334	02/08/19 00:25	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 17:17	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		4	261877	03/13/19 02:49	BKR	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 20:17	OBI	TAL PLS
Dissolved	Prep	7470A			259832	02/05/19 19:53	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259978	02/07/19 13:48	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259692	02/01/19 18:50	ECB	TAL PLS

Client Sample ID: DG-AV9W

Lab Sample ID: 720-91128-6

Date Collected: 02/01/19 12:20

Matrix: Water

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	528653	02/14/19 15:13	WC	TAL IRV
Total/NA	Analysis	8260B		1	528576	02/14/19 06:34	OH1	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528577	02/14/19 06:34	OH1	TAL IRV
Total/NA	Prep	3520C			527285	02/07/19 09:18	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		1	527818	02/10/19 19:02	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 22:39	LMB	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 17:31	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 20:32	OBI	TAL PLS
Dissolved	Prep	7470A			259832	02/05/19 19:53	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259978	02/07/19 13:55	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259692	02/01/19 18:52	ECB	TAL PLS

Client Sample ID: FB-02.01.19

Lab Sample ID: 720-91128-7

Date Collected: 02/01/19 00:00

Matrix: Water

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528653	02/14/19 14:22	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528654	02/14/19 14:22	WC	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Client Sample ID: TB-02.01.19

Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528653	02/14/19 14:47	WC	TAL IRV

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	528654	02/14/19 14:47	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528654	02/14/19 14:47	WC	TAL IRV

Client Sample ID: DUP-93

Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91128-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528653	02/14/19 15:38	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528654	02/14/19 15:38	WC	TAL IRV
Total/NA	Prep	3520C			527285	02/07/19 09:18	JAA	TAL IRV
Total/NA	Analysis	8270C SIM		5	527818	02/10/19 18:39	L1B	TAL IRV
Total/NA	Prep	3510C			527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527334	02/07/19 20:52	LMB	TAL IRV
Total/NA	Prep	3510C	DL		527042	02/06/19 10:01	HCK	TAL IRV
Total/NA	Analysis	8015B	DL	10	527550	02/08/19 12:29	MPD	TAL IRV
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259997	02/07/19 17:36	OBI	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		4	261877	03/13/19 02:54	BKR	TAL PLS
Dissolved	Prep	3005A			259741	02/04/19 10:29	SUN	TAL PLS
Dissolved	Analysis	6010B		1	259875	02/05/19 20:36	OBI	TAL PLS
Dissolved	Prep	7470A			259832	02/05/19 19:53	GLL	TAL PLS
Dissolved	Analysis	7470A		1	259978	02/07/19 13:58	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259692	02/01/19 18:52	ECB	TAL PLS

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91128-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91128-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91128-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91128-1	DG-AY3W	Water	02/01/19 08:30	02/01/19 16:42
720-91128-2	DG-AC15W	Water	02/01/19 09:30	02/01/19 16:42
720-91128-3	DG-AN13W	Water	02/01/19 10:00	02/01/19 16:42
720-91128-4	DG-Y15W	Water	02/01/19 10:30	02/01/19 16:42
720-91128-5	DG-AD13W	Water	02/01/19 11:20	02/01/19 16:42
720-91128-6	DG-AV9W	Water	02/01/19 12:20	02/01/19 16:42
720-91128-7	FB-02.01.19	Water	02/01/19 00:00	02/01/19 16:42
720-91128-8	TB-02.01.19	Water	02/01/19 00:00	02/01/19 16:42
720-91128-9	DUP-93	Water	02/01/19 00:00	02/01/19 16:42

2 coolers

720-91128

185276

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 2/1/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com, mkahnias@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91128 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1.	DG-AV3W	2/1/2019	0830	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2.	DG-AC15W	2/1/2019	0930	G	GW	9	Y		X	X	X	X	X	
3.	DG-AN3W	2/1/2019	1000	G	GW	9	Y		X	X	X	X	X	
4.	DG-Y15W	2/1/2019	1030	G	GW	9	Y		X	X	X	X	X	
5.	DG-AD15W	2/1/2019	1120	G	GW	9	Y		X	X	X	X	X	
6.	DG-AV9W	2/1/2019	1220	G	GW	9	Y		X	X	X	X	X	
7.	FB-02.01.19	2/1/2019		G	GW	2	N		X					
8.	TB-02.01.19	2/1/2019		G	GW	2	N		X					
9.	DUP-93	2/1/2019		G	GW	9	Y		X	X	X	X	X	

NS NS NS NS

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 2/1/2019 1405	Received by:	Company: TA-PLS	Date/Time: 2/1/19 1405
Relinquished by:	Company: TA-PLS	Date/Time: 2/1/19 1642	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 2/1/19 1642

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/1.4 C

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4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478045743539	COC No: 720-41037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91128-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/13/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AY3W (720-91128-1)	2/1/19	08:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AC15W (720-91128-2)	2/1/19	09:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AN13W (720-91128-3)	2/1/19	10:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Y15W (720-91128-4)	2/1/19	10:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AD13W (720-91128-5)	2/1/19	11.20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AV9W (720-91128-6)	2/1/19	12:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-02.01.19 (720-91128-7)	2/1/19	Pacific		Water			X	X			2	check for 2 phases
TB-02.01.19 (720-91128-8)	2/1/19	Pacific		Water			X	X			2	check for 2 phases
DUP-93 (720-91128-9)	2/1/19	Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
1	John Mueller	2-4-19 1400	TAL			
2	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/5/19 1000	Company TA IRV

Custody Seals Intact: Δ Yes Δ No (Yes) | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4/3.4 IR88 3.8/3.8 3.4/3.4

Ver: 09/20/2016

4/14/2019 (Rev. 1)

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91128-1

Login Number: 91128
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91128-1

Login Number: 91128
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins TestAmerica, Irvine
List Creation: 02/05/19 01:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Tuesday, February 05, 2019 9:54 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-91128-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Yes I agree, use the sample label.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Tuesday, February 5, 2019 9:35 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-91128-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-91128-1; Brisbane OU-2 Data Gap Investigation

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 720-91128 (#5) DG-AD15W. The container labels list DG-AD13W time 1120 the COC lists DG-AD15W time 1120. Logged using pretyped sample label sample ID .

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [500015]
Attachments: 3

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (ug/L)	Corrected Result * (ug/L)
720-91128-I-5-A	DG-AD13W	7.7	ND
720-91128-I-9-A	DUP-93	7.8	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa Brewer
Quality Assurance Manager

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91134-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 9:21:46 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Geosyntec Consultants, Inc. Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91134-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91134-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation. .

Receipt
The samples were received on 2/1/2019 4:42 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528098 recovered above the upper control limit for 1,1-Dichloroethene and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259737 and analytical batch 720-259976 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-AV9S-0.5-1 (720-91134-4). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The method blank for preparation batch 720-259745 and analytical batch 720-259976 contained Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Indeno[1,2,3-cd]pyrene, Pyrene and Dibenz(a,h)anthracene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-259737 and analytical batch 720-259858 contained Benzo[a]pyrene, Benzo[b]fluoranthene and Benzo[k]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: (720-91134-E-3-D MS) and (720-91134-E-3-E MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-AD13S-7.5-8 (720-91134-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AD13S-7.5-8 (720-91134-3) and DG-AV9S-3.5-4 (720-91134-5). . Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Surrogate recovery for the following sample was outside control limits: DG-AD13S-3.5-4 (720-91134-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DUP-93 (720-91134-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AD13S-0.5-1 (720-91134-1), DG-AD13S-3.5-4 (720-91134-2), DG-AV9S-8.5-9 (720-91134-6) and DUP-93 (720-91134-12). Elevated reporting limits (RLs) are provided.

Job ID: 720-91134-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-AD13S-0.5-1 (720-91134-1), DG-AD13S-3.5-4 (720-91134-2), DG-AD13S-7.5-8 (720-91134-3), DG-AV9S-0.5-1 (720-91134-4), DUP-93 (720-91134-12), (720-91134-E-1-E MS) and (720-91134-E-1-F MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259743 and analytical batch 720-259940 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8081A: The following sample was diluted due to color: DG-AD13S-3.5-4 (720-91134-2), DG-AD13S-0.5-1 (720-91134-1), DG-AD13S-7.5-8 (720-91134-3) and DUP-93 (720-91134-12). Elevated reporting limits (RL) are provided.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for alpha-Chlordane for the following sample: DG-AD13S-0.5-1 (720-91134-1) and DG-AV9S-3.5-4 (720-91134-5). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Dieldrin for the following sample: DG-AV9S-0.5-1 (720-91134-4). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082: The continuing calibration verification (CCV) associated with batch 440-527893 recovered above the upper control limit for Aroclor 1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AD13S-0.5-1 (720-91134-1), DG-AD13S-3.5-4 (720-91134-2), DG-AV9S-8.5-9 (720-91134-6), (CCVIS 440-527893/9) and (720-91191-B-1-C).

Method 8082: The following sample required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AD13S-7.5-8 (720-91134-3), DG-AV9S-0.5-1 (720-91134-4), DG-AV9S-3.5-4 (720-91134-5) and DUP-93 (720-91134-12).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The method blank for preparation batch 720-259688 and analytical batch 720-260327 contained Silver, Lead & Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259688 and analytical batch 720-260327 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Silver-133%, Barium-152%, Copper- 135%, Lead-155%, Vanadium-127%, Zinc-151% associated with batch 720-260327 was outside of control limits.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AD13S-0.5-1 (720-91134-1), DG-AD13S-3.5-4 (720-91134-2), DG-AD13S-7.5-8 (720-91134-3), DG-AV9S-0.5-1 (720-91134-4), DG-AV9S-3.5-4 (720-91134-5), DG-AV9S-8.5-9 (720-91134-6) and DUP-93 (720-91134-12). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AV9S-0.5-1 (720-91134-4) and DG-AV9S-8.5-9 (720-91134-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Job ID: 720-91134-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: 8015_DRO: Due to the matrix, the following sample could not be concentrated to the final method required volume.DG-AD13S-3.5-4 (720-91134-2). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM: Due to the matrix, the following sample could not be concentrated to the final method required volume. DG-AD13S-3.5-4 (720-91134-2). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM: Due to the matrix, the following sample could not be concentrated to the final method required volume. DUP-93 (720-91134-12). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AD13S-0.5-1

Lab Sample ID: 720-91134-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	55	J	96	38	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	63	J	96	29	ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	110	B	96	36	ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	120	B	96	40	ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110		96	82	ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	61	J B	96	40	ug/Kg	20		8270C SIM	Total/NA
Chrysene	160		96	27	ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	77	J	96	27	ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	140		96	35	ug/Kg	20		8270C SIM	Total/NA
Pyrene	190	B	96	33	ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	390		9.9	3.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	540		250	50	mg/Kg	5		8015B	Total/NA
4,4'-DDT	5.1		3.9	0.80	ug/Kg	2		8081A	Total/NA
alpha-Chlordane	1.2	J p	3.9	0.78	ug/Kg	2		8081A	Total/NA
Antimony	1.2	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	2.6	J	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	59		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.17	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	19		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	5.4		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	110		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	160	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	1.2	J	1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	130		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J B	2.8	0.43	mg/Kg	4		6010B	Total/NA
Silver	0.28	J B	0.71	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	74		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD13S-3.5-4

Lab Sample ID: 720-91134-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.45	J	0.79	0.40	ug/Kg	1		8260B	Total/NA
Carbon disulfide	1.2	J	1.6	0.79	ug/Kg	1		8260B	Total/NA
Anthracene	200	J	490	200	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	490	B	490	190	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	450	J B	490	210	ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	500		490	420	ug/Kg	50		8270C SIM	Total/NA
Chrysene	490		490	140	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	190	J	490	140	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	280	J	490	180	ug/Kg	50		8270C SIM	Total/NA
Pyrene	670	B	490	170	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2400		96	36	mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	5900		2400	480	mg/Kg	50		8015B	Total/NA
Antimony	1.5		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	9.7		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	86		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.077	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	16		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.56	0.056	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD13S-3.5-4 (Continued) Lab Sample ID: 720-91134-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	130		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	190	B	1.4	0.29	mg/Kg	4		6010B	Total/NA
Molybdenum	2.5		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	260		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J B	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	0.72	B	0.70	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	290		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	81		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.50		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD13S-7.5-8 Lab Sample ID: 720-91134-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	370000		40000	28000	ug/Kg	500		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1800		400	200	ug/Kg	500		8260B	Total/NA
1,3,5-Trimethylbenzene	480		400	200	ug/Kg	500		8260B	Total/NA
4-Isopropyltoluene	400		400	200	ug/Kg	500		8260B	Total/NA
Ethylbenzene	590		400	200	ug/Kg	500		8260B	Total/NA
Isopropylbenzene	200	J	400	200	ug/Kg	500		8260B	Total/NA
Naphthalene	4100		1000	400	ug/Kg	500		8260B	Total/NA
n-Butylbenzene	460	J	1000	400	ug/Kg	500		8260B	Total/NA
N-Propylbenzene	310	J	400	200	ug/Kg	500		8260B	Total/NA
sec-Butylbenzene	210	J	1000	200	ug/Kg	500		8260B	Total/NA
Toluene	520		400	200	ug/Kg	500		8260B	Total/NA
Xylenes, Total	1700		810	400	ug/Kg	500		8260B	Total/NA
2-Methylnaphthalene	2400	F2 F1	2000	980	ug/Kg	200		8270C SIM	Total/NA
Acenaphthene	860	J F1	980	550	ug/Kg	200		8270C SIM	Total/NA
Anthracene	1500	F1	980	390	ug/Kg	200		8270C SIM	Total/NA
Benzo[a]anthracene	1100	F1	980	290	ug/Kg	200		8270C SIM	Total/NA
Benzo[a]pyrene	1000	B F1	980	370	ug/Kg	200		8270C SIM	Total/NA
Benzo[b]fluoranthene	730	J B F1	980	410	ug/Kg	200		8270C SIM	Total/NA
Benzo[k]fluoranthene	520	J F1 B	980	410	ug/Kg	200		8270C SIM	Total/NA
Chrysene	1700	F1	980	270	ug/Kg	200		8270C SIM	Total/NA
Fluoranthene	810	J	980	270	ug/Kg	200		8270C SIM	Total/NA
Fluorene	1700	F1	980	430	ug/Kg	200		8270C SIM	Total/NA
Naphthalene	1100	F2 F1	980	680	ug/Kg	200		8270C SIM	Total/NA
Phenanthrene	3800		980	350	ug/Kg	200		8270C SIM	Total/NA
Pyrene	4200	B	980	330	ug/Kg	200		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	8400		200	74	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	10000		4900	990	mg/Kg	100		8015B	Total/NA
Antimony	14		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	190		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.84		0.41	0.040	mg/Kg	4		6010B	Total/NA
Chromium	21		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	6.3		0.65	0.065	mg/Kg	4		6010B	Total/NA
Copper	200		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	1000	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	1.1	J	1.6	0.21	mg/Kg	4		6010B	Total/NA
Nickel	140		1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J B	3.3	0.49	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD13S-7.5-8 (Continued) Lab Sample ID: 720-91134-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.78	J B	0.81	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	140		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	510		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.084		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV9S-0.5-1 Lab Sample ID: 720-91134-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	60	J	95	47	ug/Kg	10		8270C SIM	Total/NA
Acenaphthene	40	J	47	27	ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	30	J	47	23	ug/Kg	10		8270C SIM	Total/NA
Anthracene	74		47	19	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	170		47	14	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	230	B	47	18	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	330	B	47	20	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	140	F1	47	41	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	110	B	47	20	ug/Kg	10		8270C SIM	Total/NA
Chrysene	220		47	13	ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	54	F1	47	33	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	240		47	13	ug/Kg	10		8270C SIM	Total/NA
Fluorene	54		47	21	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	120	F1	47	40	ug/Kg	10		8270C SIM	Total/NA
Naphthalene	110		47	33	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	230	F1	47	17	ug/Kg	10		8270C SIM	Total/NA
Pyrene	370		47	16	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	660		9.6	3.6	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	840		240	48	mg/Kg	5		8015B	Total/NA
4,4'-DDD	120		3.9	1.2	ug/Kg	2		8081A	Total/NA
4,4'-DDE	280		3.9	0.83	ug/Kg	2		8081A	Total/NA
4,4'-DDT	220		3.9	0.81	ug/Kg	2		8081A	Total/NA
alpha-Chlordane	61		3.9	0.79	ug/Kg	2		8081A	Total/NA
Chlordane (technical)	340		79	6.3	ug/Kg	2		8081A	Total/NA
Dieldrin	1.5	J p	3.9	1.2	ug/Kg	2		8081A	Total/NA
gamma-Chlordane	51		3.9	0.90	ug/Kg	2		8081A	Total/NA
Antimony	35		4.4	0.73	mg/Kg	10		6010B	Total/NA
Arsenic	61		8.8	0.75	mg/Kg	10		6010B	Total/NA
Barium	1200		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.32	J	0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	8.8		1.1	0.11	mg/Kg	10		6010B	Total/NA
Chromium	85		4.4	0.46	mg/Kg	10		6010B	Total/NA
Cobalt	19		1.8	0.18	mg/Kg	10		6010B	Total/NA
Copper	900		13	6.2	mg/Kg	10		6010B	Total/NA
Lead	3000	B	4.4	0.92	mg/Kg	10		6010B	Total/NA
Molybdenum	7.6		1.8	0.22	mg/Kg	4		6010B	Total/NA
Nickel	83		4.4	0.45	mg/Kg	10		6010B	Total/NA
Selenium	3.7	J B	8.8	1.3	mg/Kg	10		6010B	Total/NA
Silver	3.6	B	2.2	0.44	mg/Kg	10		6010B	Total/NA
Vanadium	28		4.4	0.60	mg/Kg	10		6010B	Total/NA
Zinc	3400		13	5.6	mg/Kg	10		6010B	Total/NA
Mercury	1.0		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV9S-3.5-4

Lab Sample ID: 720-91134-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	22	J	38	19	ug/Kg	4		8270C SIM	Total/NA
Acenaphthylene	14	J	19	9.1	ug/Kg	4		8270C SIM	Total/NA
Anthracene	15	J	19	7.6	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]anthracene	27		19	5.7	ug/Kg	4		8270C SIM	Total/NA
Benzo[a]pyrene	34	B	19	7.2	ug/Kg	4		8270C SIM	Total/NA
Benzo[b]fluoranthene	62	B	19	8.0	ug/Kg	4		8270C SIM	Total/NA
Benzo[g,h,i]perylene	29		19	16	ug/Kg	4		8270C SIM	Total/NA
Benzo[k]fluoranthene	24	B	19	8.0	ug/Kg	4		8270C SIM	Total/NA
Chrysene	40		19	5.3	ug/Kg	4		8270C SIM	Total/NA
Dibenz(a,h)anthracene	14	J	19	13	ug/Kg	4		8270C SIM	Total/NA
Fluoranthene	62		19	5.3	ug/Kg	4		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	25		19	16	ug/Kg	4		8270C SIM	Total/NA
Naphthalene	57		19	13	ug/Kg	4		8270C SIM	Total/NA
Phenanthrene	60		19	6.8	ug/Kg	4		8270C SIM	Total/NA
Pyrene	54		19	6.4	ug/Kg	4		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	76		4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	170		99	20	mg/Kg	2		8015B	Total/NA
4,4'-DDD	3.2		1.9	0.59	ug/Kg	1		8081A	Total/NA
4,4'-DDE	9.5		1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	6.5		1.9	0.39	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	1.8	J p	1.9	0.38	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	18	J	38	3.1	ug/Kg	1		8081A	Total/NA
Dieldrin	2.5		1.9	0.57	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	2.1		1.9	0.44	ug/Kg	1		8081A	Total/NA
Aroclor 1260	24	J	50	17	ug/Kg	1		8082	Total/NA
Antimony	68		3.6	0.60	mg/Kg	10		6010B	Total/NA
Arsenic	26		7.2	0.62	mg/Kg	10		6010B	Total/NA
Barium	190		3.6	0.51	mg/Kg	10		6010B	Total/NA
Beryllium	0.46	J	0.72	0.24	mg/Kg	10		6010B	Total/NA
Cadmium	3.6		0.91	0.090	mg/Kg	10		6010B	Total/NA
Chromium	50		3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	15		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	1300		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	4700	B	3.6	0.76	mg/Kg	10		6010B	Total/NA
Molybdenum	2.5	J	3.6	0.46	mg/Kg	10		6010B	Total/NA
Nickel	48		3.6	0.37	mg/Kg	10		6010B	Total/NA
Selenium	6.4	J B	7.2	1.1	mg/Kg	10		6010B	Total/NA
Silver	6.0	B	1.8	0.37	mg/Kg	10		6010B	Total/NA
Vanadium	29		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	2800		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	1.4		0.061	0.0090	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AV9S-8.5-9

Lab Sample ID: 720-91134-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	37		20	9.8	ug/Kg	2		8270C SIM	Total/NA
Acenaphthene	6.6	J	9.8	5.5	ug/Kg	2		8270C SIM	Total/NA
Acenaphthylene	6.3	J	9.8	4.7	ug/Kg	2		8270C SIM	Total/NA
Anthracene	10		9.8	3.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	12		9.8	2.9	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	9.7	J B	9.8	3.7	ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV9S-8.5-9 (Continued) — Lab Sample ID: 720-91134-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	20	B	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	7.1	J B	9.8	4.1	ug/Kg	2		8270C SIM	Total/NA
Chrysene	23		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	39		9.8	2.7	ug/Kg	2		8270C SIM	Total/NA
Fluorene	13		9.8	4.3	ug/Kg	2		8270C SIM	Total/NA
Naphthalene	61		9.8	6.9	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	69		9.8	3.5	ug/Kg	2		8270C SIM	Total/NA
Pyrene	45	B	9.8	3.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	160		2.0	0.75	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	220		50	10	mg/Kg	1		8015B	Total/NA
4,4'-DDD	1.9		1.9	0.58	ug/Kg	1		8081A	Total/NA
4,4'-DDE	1.6	J	1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	5.7		1.9	0.39	ug/Kg	1		8081A	Total/NA
Antimony	26		2.9	0.48	mg/Kg	10		6010B	Total/NA
Arsenic	21		5.7	0.49	mg/Kg	10		6010B	Total/NA
Barium	970		2.9	0.41	mg/Kg	10		6010B	Total/NA
Beryllium	0.45	J	0.57	0.19	mg/Kg	10		6010B	Total/NA
Cadmium	5.8		0.72	0.071	mg/Kg	10		6010B	Total/NA
Chromium	37		2.9	0.30	mg/Kg	10		6010B	Total/NA
Cobalt	8.4		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	1500		8.6	4.1	mg/Kg	10		6010B	Total/NA
Lead	4100	B	2.9	0.60	mg/Kg	10		6010B	Total/NA
Molybdenum	0.96	J	2.9	0.37	mg/Kg	10		6010B	Total/NA
Nickel	46		2.9	0.29	mg/Kg	10		6010B	Total/NA
Selenium	2.2	J B	5.7	0.86	mg/Kg	10		6010B	Total/NA
Silver	5.2	B	1.4	0.29	mg/Kg	10		6010B	Total/NA
Thallium	1.4	J	2.9	0.83	mg/Kg	10		6010B	Total/NA
Vanadium	20		2.9	0.39	mg/Kg	10		6010B	Total/NA
Zinc	3100		8.6	3.6	mg/Kg	10		6010B	Total/NA
Mercury	1.2		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-U13S-7.5-8 — Lab Sample ID: 720-91134-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	740		71	50	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
4-Isopropyltoluene	0.70	J	0.71	0.36	ug/Kg	1		8260B	Total/NA
Carbon disulfide	1.4		1.4	0.71	ug/Kg	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.75		0.71	0.36	ug/Kg	1		8260B	Total/NA
Vinyl chloride	0.81	J	1.4	0.71	ug/Kg	1		8260B	Total/NA

Client Sample ID: DG-AV5S-0.5-1 — Lab Sample ID: 720-91134-8

No Detections.

Client Sample ID: DG-AV5S-3.5-4 — Lab Sample ID: 720-91134-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.71	J	1.3	0.63	ug/Kg	1		8260B	Total/NA
Toluene	1.3		1.3	0.63	ug/Kg	1		8260B	Total/NA

Client Sample ID: DG-AV5S-7.5-8 — Lab Sample ID: 720-91134-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc. Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-35 Lab Sample ID: 720-91134-11

No Detections.

Client Sample ID: DUP-93 Lab Sample ID: 720-91134-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	250000		31000	22000	ug/Kg	400		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1000		310	160	ug/Kg	400		8260B	Total/NA
1,3,5-Trimethylbenzene	290	J	310	160	ug/Kg	400		8260B	Total/NA
4-Isopropyltoluene	230	J	310	160	ug/Kg	400		8260B	Total/NA
Ethylbenzene	290	J	310	160	ug/Kg	400		8260B	Total/NA
Naphthalene	2100		780	310	ug/Kg	400		8260B	Total/NA
N-Propylbenzene	200	J	310	160	ug/Kg	400		8260B	Total/NA
Toluene	240	J	310	160	ug/Kg	400		8260B	Total/NA
Xylenes, Total	940		620	310	ug/Kg	400		8260B	Total/NA
2-Methylnaphthalene	16000		2400	1200	ug/Kg	50		8270C SIM	Total/NA
Acenaphthene	4000		1200	680	ug/Kg	50		8270C SIM	Total/NA
Acenaphthylene	860	J	1200	590	ug/Kg	50		8270C SIM	Total/NA
Anthracene	3500		1200	490	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]anthracene	2400		1200	370	ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	2200	B	1200	460	ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	1500	B	1200	510	ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1200		1200	1100	ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	690	J B	1200	510	ug/Kg	50		8270C SIM	Total/NA
Chrysene	4400		1200	340	ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	2000		1200	340	ug/Kg	50		8270C SIM	Total/NA
Fluorene	5700		1200	540	ug/Kg	50		8270C SIM	Total/NA
Naphthalene	6900		1200	860	ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	13000		1200	440	ug/Kg	50		8270C SIM	Total/NA
Pyrene	9800	B	1200	420	ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15000		480	180	mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	19000		12000	2400	mg/Kg	100		8015B	Total/NA
Antimony	13		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	43		3.1	0.27	mg/Kg	4		6010B	Total/NA
Barium	350		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.18	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.39	0.039	mg/Kg	4		6010B	Total/NA
Chromium	37		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.63	0.063	mg/Kg	4		6010B	Total/NA
Copper	220		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	1200	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	0.74	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	84		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	4.1	B	3.1	0.47	mg/Kg	4		6010B	Total/NA
Silver	1.2	B	0.79	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	1000		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP5S-3.5-4 Lab Sample ID: 720-91134-13

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AN5S-0.5-1 Lab Sample ID: 720-91134-14

No Detections.

Client Sample ID: DG-AN5S-3.5-4 Lab Sample ID: 720-91134-15

No Detections.

Client Sample ID: TB-02.01.19 Lab Sample ID: 720-91134-16

No Detections.

Client Sample ID: FB-02.01.19 Lab Sample ID: 720-91134-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	43		20	10	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AD13S-0.5-1

Date Collected: 02/01/19 10:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		80	56	ug/Kg		02/01/19 17:00	02/07/19 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*02/01/19 17:00*	*02/07/19 14:02*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*02/01/19 17:00*	*02/07/19 14:02*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/01/19 17:00*	*02/07/19 14:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
2-Hexanone	ND		8.0	4.0	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Benzene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Bromobenzene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Bromoform	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Bromomethane	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Carbon disulfide	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Chloroethane	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Chloroform	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Chloromethane	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Dibromomethane	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1

Client Sample ID: DG-AD13S-0.5-1 Lab Sample ID: 720-91134-1

Date Collected: 02/01/19 10:15 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Naphthalene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Styrene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Tetrachloroethene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Toluene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Trichloroethene	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
2-Butanone (MEK)	ND		8.0	4.0	ug/Kg		02/01/19 17:00	02/07/19 14:02	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		02/01/19 17:00	02/07/19 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/01/19 17:00*	*02/07/19 14:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*02/01/19 17:00*	*02/07/19 14:02*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		190	96	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Acenaphthene	ND		96	54	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Acenaphthylene	ND		96	46	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Anthracene	**55**	**J**	96	38	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Benzo[a]anthracene	**63**	**J**	96	29	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Benzo[a]pyrene	**110**	**B**	96	36	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Benzo[b]fluoranthene	**120**	**B**	96	40	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Benzo[g,h,i]perylene	**110**		96	82	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Benzo[k]fluoranthene	**61**	**J B**	96	40	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Chrysene	**160**		96	27	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Dibenz(a,h)anthracene	ND		96	67	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Fluoranthene	**77**	**J**	96	27	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Fluorene	ND		96	42	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Indeno[1,2,3-cd]pyrene	ND		96	81	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Naphthalene	ND		96	67	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Phenanthrene	**140**		96	35	ug/Kg		02/04/19 10:47	02/15/19 05:18	20
Pyrene	**190**	**B**	96	33	ug/Kg		02/04/19 10:47	02/15/19 05:18	20

Client Sample ID: DG-AD13S-0.5-1

Date Collected: 02/01/19 10:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-1

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		33 - 120	02/04/19 10:47	02/15/19 05:18	20
Terphenyl-d14	117		35 - 146	02/04/19 10:47	02/15/19 05:18	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**390**		9.9	3.7	mg/Kg		02/04/19 10:34	02/07/19 11:24	5
Motor Oil Range Organics [C24-C36]	**540**		250	50	mg/Kg		02/04/19 10:34	02/07/19 11:24	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	02/04/19 10:34	02/07/19 11:24	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	1.2	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
4,4'-DDE	ND		3.9	0.82	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
4,4'-DDT	**5.1**		3.9	0.80	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Aldrin	ND		3.9	0.98	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
alpha-BHC	ND		3.9	1.1	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
alpha-Chlordane	**1.2**	**J p**	3.9	0.78	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
beta-BHC	ND		3.9	0.70	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Chlordane (technical)	ND		78	6.3	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
delta-BHC	ND		3.9	0.86	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Dieldrin	ND		3.9	1.2	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Endosulfan I	ND		3.9	0.63	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Endosulfan II	ND		3.9	0.96	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Endosulfan sulfate	ND		3.9	0.74	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Endrin	ND		3.9	0.90	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Endrin ketone	ND		3.9	0.65	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
gamma-Chlordane	ND		3.9	0.90	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Heptachlor	ND		3.9	0.90	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Heptachlor epoxide	ND		3.9	0.68	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Methoxychlor	ND		3.9	1.3	ug/Kg		02/05/19 10:29	02/15/19 08:52	2
Toxaphene	ND		78	13	ug/Kg		02/05/19 10:29	02/15/19 08:52	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		21 - 136	02/05/19 10:29	02/15/19 08:52	2
Tetrachloro-m-xylene	80		21 - 145	02/05/19 10:29	02/15/19 08:52	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:33	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:33	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:33	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:33	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:33	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:33	1
Aroclor 1260	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:33	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AD13S-0.5-1

Date Collected: 02/01/19 10:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-1

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	67		45 - 120	02/08/19 12:55	02/11/19 15:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.4	0.24	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Arsenic	2.6	J	2.8	0.24	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Barium	59		1.4	0.20	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Beryllium	ND		0.28	0.092	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Cadmium	0.17	J	0.35	0.035	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Chromium	19		1.4	0.15	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Cobalt	5.4		0.57	0.057	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Copper	110		4.3	2.0	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Lead	160	B	1.4	0.30	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Molybdenum	1.2	J	1.4	0.18	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Nickel	130		1.4	0.14	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Selenium	1.1	J B	2.8	0.43	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Silver	0.28	J B	0.71	0.14	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Thallium	ND		1.4	0.41	mg/Kg		02/02/19 09:10	03/16/19 21:29	4
Vanadium	120		1.4	0.19	mg/Kg		02/02/19 09:10	02/13/19 17:36	4
Zinc	74		4.3	1.8	mg/Kg		02/02/19 09:10	02/13/19 17:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.016	0.0024	mg/Kg		02/04/19 15:03	02/04/19 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.6		0.1	0.05	%			02/04/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AD13S-3.5-4

Date Collected: 02/01/19 10:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		79	55	ug/Kg		02/01/19 17:00	02/07/19 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*02/01/19 17:00*	*02/07/19 14:27*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*	*02/01/19 17:00*	*02/07/19 14:27*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*02/01/19 17:00*	*02/07/19 14:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.9	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,1,1-Trichloroethane	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,1,2-Trichloroethane	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,1-Dichloroethane	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,1-Dichloropropene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,2,3-Trichlorobenzene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,2,4-Trichlorobenzene	ND		4.0	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,2,4-Trimethylbenzene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,2-Dichlorobenzene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,2-Dichloroethane	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,2-Dichloropropane	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,3,5-Trimethylbenzene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,3-Dichlorobenzene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,3-Dichloropropane	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,4-Dichlorobenzene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
2,2-Dichloropropane	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
2-Chlorotoluene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
2-Hexanone	ND		7.9	4.0	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
4-Chlorotoluene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
4-Isopropyltoluene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Benzene	**0.45**	**J**	0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Bromobenzene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Bromoform	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Bromomethane	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Carbon disulfide	**1.2**	**J**	1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Chlorobenzene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Chlorobromomethane	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Chloroethane	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Chloroform	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Chloromethane	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
cis-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
cis-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Chlorodibromomethane	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Dibromomethane	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Dichlorobromomethane	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1

Client Sample ID: DG-AD13S-3.5-4
Date Collected: 02/01/19 10:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Ethylbenzene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Hexachlorobutadiene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Isopropylbenzene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Methylene Chloride	ND		7.9	4.0	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Methyl tert-butyl ether	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Naphthalene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
n-Butylbenzene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
N-Propylbenzene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
sec-Butylbenzene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Styrene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
tert-Butylbenzene	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Tetrachloroethene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Toluene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
trans-1,2-Dichloroethene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
trans-1,3-Dichloropropene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Trichloroethene	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Trichlorofluoromethane	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	4.0	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Vinyl acetate	ND		6.3	3.2	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Vinyl chloride	ND		1.6	0.79	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
Ethylene Dibromide	ND		0.79	0.40	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
2-Butanone (MEK)	ND		7.9	4.0	ug/Kg		02/01/19 17:00	02/07/19 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		02/01/19 17:00	02/07/19 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*79 - 123*	*02/01/19 17:00*	*02/07/19 14:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*02/01/19 17:00*	*02/07/19 14:27*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		980	490	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Acenaphthene	ND		490	270	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Acenaphthylene	ND		490	230	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Anthracene	**200**	**J**	490	200	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Benzo[a]anthracene	ND		490	150	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Benzo[a]pyrene	**490**	**B**	490	190	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Benzo[b]fluoranthene	**450**	**J B**	490	210	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Benzo[g,h,i]perylene	**500**		490	420	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Benzo[k]fluoranthene	ND		490	210	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Chrysene	**490**		490	140	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Dibenz(a,h)anthracene	ND		490	340	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Fluoranthene	**190**	**J**	490	140	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Fluorene	ND		490	210	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Indeno[1,2,3-cd]pyrene	ND		490	410	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Naphthalene	ND		490	340	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Phenanthrene	**280**	**J**	490	180	ug/Kg		02/04/19 10:47	02/15/19 05:42	50
Pyrene	**670**	**B**	490	170	ug/Kg		02/04/19 10:47	02/15/19 05:42	50

Client Sample ID: DG-AD13S-3.5-4

Date Collected: 02/01/19 10:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*33 - 120*	*02/04/19 10:47*	*02/15/19 05:42*	*50*
Terphenyl-d14	*147*	*X*	*35 - 146*	*02/04/19 10:47*	*02/15/19 05:42*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2400**		96	36	mg/Kg		02/04/19 10:34	02/14/19 20:18	50
Motor Oil Range Organics [C24-C36]	**5900**		2400	480	mg/Kg		02/04/19 10:34	02/14/19 20:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/04/19 10:34*	*02/14/19 20:18*	*50*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F2	9.7	3.0	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
4,4'-DDE	ND	F2	9.7	2.0	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
4,4'-DDT	ND	F2	9.7	2.0	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Aldrin	ND	F2	9.7	2.4	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
alpha-BHC	ND		9.7	2.7	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
alpha-Chlordane	ND	F2	9.7	1.9	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
beta-BHC	ND		9.7	1.8	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Chlordane (technical)	ND		190	16	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
delta-BHC	ND	F2	9.7	2.1	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Dieldrin	ND	F2	9.7	2.9	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Endosulfan I	ND		9.7	1.6	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Endosulfan II	ND		9.7	2.4	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Endosulfan sulfate	ND	F1	9.7	1.9	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Endrin	ND		9.7	2.2	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Endrin aldehyde	ND		9.7	3.1	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Endrin ketone	ND		9.7	1.6	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
gamma-BHC (Lindane)	ND		9.7	3.1	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
gamma-Chlordane	ND	F1	9.7	2.2	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Heptachlor	ND		9.7	2.2	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Heptachlor epoxide	ND		9.7	1.7	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Methoxychlor	ND	F2	9.7	3.3	ug/Kg		02/05/19 10:29	02/07/19 17:14	5
Toxaphene	ND		190	33	ug/Kg		02/05/19 10:29	02/07/19 17:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*21 - 136*	*02/05/19 10:29*	*02/07/19 17:14*	*5*
Tetrachloro-m-xylene	*82*		*21 - 145*	*02/05/19 10:29*	*02/07/19 17:14*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 15:46	1
Aroclor 1221	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 15:46	1
Aroclor 1232	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 15:46	1
Aroclor 1242	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 15:46	1
Aroclor 1248	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 15:46	1
Aroclor 1254	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 15:46	1
Aroclor 1260	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 15:46	1

Client Sample ID: DG-AD13S-3.5-4
Lab Sample ID: 720-91134-2

Date Collected: 02/01/19 10:15
Matrix: Solid
Date Received: 02/01/19 16:42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*02/08/19 12:55*	*02/11/19 15:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5		1.4	0.23	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Arsenic	9.7		2.8	0.24	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Barium	86		1.4	0.20	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Beryllium	ND		0.28	0.091	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Cadmium	0.077	J	0.35	0.035	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Chromium	16		1.4	0.15	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Cobalt	9.0		0.56	0.056	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Copper	130		4.2	2.0	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Lead	190	B	1.4	0.29	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Molybdenum	2.5		1.4	0.18	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Nickel	260		1.4	0.14	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Selenium	1.3	J B	2.8	0.42	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Silver	0.72	B	0.70	0.14	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Thallium	ND		1.4	0.41	mg/Kg		02/02/19 09:10	03/16/19 21:34	4
Vanadium	290		1.4	0.19	mg/Kg		02/02/19 09:10	02/13/19 17:41	4
Zinc	81		4.2	1.8	mg/Kg		02/02/19 09:10	02/13/19 17:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50		0.016	0.0024	mg/Kg		02/04/19 15:03	02/04/19 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.3		0.1	0.05	%			02/04/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AD13S-7.5-8

Date Collected: 02/01/19 10:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**370000**		40000	28000	ug/Kg		02/06/19 14:17	02/07/19 17:50	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*55 - 140*	*02/06/19 14:17*	*02/07/19 17:50*	*500*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*	*02/06/19 14:17*	*02/07/19 17:50*	*500*
Toluene-d8 (Surr)	*100*		*60 - 140*	*02/06/19 14:17*	*02/07/19 17:50*	*500*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		2000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,1,1,2-Tetrachloroethane	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,1,1-Trichloroethane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,1,2,2-Tetrachloroethane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,1,2-Trichloroethane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,1-Dichloroethane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,1-Dichloroethene	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,1-Dichloropropene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,2,3-Trichlorobenzene	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,2,4-Trichlorobenzene	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,2,4-Trimethylbenzene	**1800**		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,2-Dibromo-3-Chloropropane	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,2-Dichlorobenzene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,2-Dichloroethane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,2-Dichloropropane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,3,5-Trimethylbenzene	**480**		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,3-Dichlorobenzene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,3-Dichloropropane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,4-Dichlorobenzene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
2,2-Dichloropropane	ND		810	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
2-Chlorotoluene	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
2-Hexanone	ND		5000	2000	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
4-Chlorotoluene	ND		1000	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
4-Isopropyltoluene	**400**		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Benzene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Bromobenzene	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Bromoform	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Bromomethane	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Carbon disulfide	ND		1000	500	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Carbon tetrachloride	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Chlorobenzene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Chlorobromomethane	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Chloroethane	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Chloroform	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Chloromethane	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
cis-1,2-Dichloroethene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
cis-1,3-Dichloropropene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Chlorodibromomethane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Dibromomethane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Dichlorobromomethane	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500

Client Sample ID: DG-AD13S-7.5-8

Lab Sample ID: 720-91134-3
Date Collected: 02/01/19 10:15
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Ethylbenzene	**590**		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Hexachlorobutadiene	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Isopropylbenzene	**200**	**J**	400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Methylene Chloride	ND		4000	2000	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Methyl tert-butyl ether	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Naphthalene	**4100**		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
n-Butylbenzene	**460**	**J**	1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
N-Propylbenzene	**310**	**J**	400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
sec-Butylbenzene	**210**	**J**	1000	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Styrene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
tert-Butylbenzene	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Tetrachloroethene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Toluene	**520**		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
trans-1,2-Dichloroethene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
trans-1,3-Dichloropropene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Trichloroethene	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Trichlorofluoromethane	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2000	810	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Vinyl acetate	ND		2000	1000	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Vinyl chloride	ND		1000	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Xylenes, Total	**1700**		810	400	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
Ethylene Dibromide	ND		400	200	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
2-Butanone (MEK)	ND		4000	2000	ug/Kg		02/06/19 14:17	02/07/19 17:50	500
4-Methyl-2-pentanone (MIBK)	ND		2000	810	ug/Kg		02/06/19 14:17	02/07/19 17:50	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*60 - 140*	*02/06/19 14:17*	*02/07/19 17:50*	*500*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*	*02/06/19 14:17*	*02/07/19 17:50*	*500*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**2400**	**F2 F1**	2000	980	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Acenaphthene	**860**	**J F1**	980	550	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Acenaphthylene	ND	F1	980	470	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Anthracene	**1500**	**F1**	980	390	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Benzo[a]anthracene	**1100**	**F1**	980	290	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Benzo[a]pyrene	**1000**	**B F1**	980	370	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Benzo[b]fluoranthene	**730**	**J B F1**	980	410	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Benzo[g,h,i]perylene	ND		980	840	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Benzo[k]fluoranthene	**520**	**J F1 B**	980	410	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Chrysene	**1700**	**F1**	980	270	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Dibenz(a,h)anthracene	ND		980	680	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Fluoranthene	**810**	**J**	980	270	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Fluorene	**1700**	**F1**	980	430	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Indeno[1,2,3-cd]pyrene	ND		980	820	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Naphthalene	**1100**	**F2 F1**	980	680	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Phenanthrene	**3800**		980	350	ug/Kg		02/04/19 10:47	02/08/19 04:04	200
Pyrene	**4200**	**B**	980	330	ug/Kg		02/04/19 10:47	02/08/19 04:04	200

Client Sample ID: DG-AD13S-7.5-8
Date Collected: 02/01/19 10:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-3
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X*	*33 - 120*	*02/04/19 10:47*	*02/08/19 04:04*	*200*
Terphenyl-d14	*0*	*X*	*35 - 146*	*02/04/19 10:47*	*02/08/19 04:04*	*200*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8400**		200	74	mg/Kg		02/04/19 10:34	02/14/19 20:48	100
Motor Oil Range Organics [C24-C36]	**10000**		4900	990	mg/Kg		02/04/19 10:34	02/14/19 20:48	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/04/19 10:34*	*02/14/19 20:48*	*100*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20	6.1	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
4,4'-DDE	ND		20	4.2	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
4,4'-DDT	ND		20	4.1	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Aldrin	ND		20	5.0	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
alpha-BHC	ND		20	5.5	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
alpha-Chlordane	ND		20	4.0	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
beta-BHC	ND		20	3.6	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Chlordane (technical)	ND		400	32	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
delta-BHC	ND		20	4.4	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Dieldrin	ND		20	5.9	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Endosulfan I	ND		20	3.2	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Endosulfan II	ND		20	4.9	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Endosulfan sulfate	ND		20	3.8	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Endrin	ND		20	4.6	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Endrin aldehyde	ND		20	6.3	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Endrin ketone	ND		20	3.3	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
gamma-BHC (Lindane)	ND		20	6.3	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
gamma-Chlordane	ND		20	4.6	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Heptachlor	ND		20	4.6	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Heptachlor epoxide	ND		20	3.5	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Methoxychlor	ND		20	6.8	ug/Kg		02/05/19 10:29	02/15/19 09:08	10
Toxaphene	ND		400	68	ug/Kg		02/05/19 10:29	02/15/19 09:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*02/05/19 10:29*	*02/15/19 09:08*	*10*
Tetrachloro-m-xylene	*0*	*X D*	*21 - 145*	*02/05/19 10:29*	*02/15/19 09:08*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:11	1
Aroclor 1221	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:11	1
Aroclor 1232	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:11	1
Aroclor 1242	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:11	1
Aroclor 1248	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:11	1
Aroclor 1254	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:11	1
Aroclor 1260	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:11	1

Client Sample ID: DG-AD13S-7.5-8 Lab Sample ID: 720-91134-3

Date Collected: 02/01/19 10:15 **Matrix: Solid**
Date Received: 02/01/19 16:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*	*02/08/19 12:55*	*02/15/19 14:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**14**		1.6	0.27	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Arsenic	**13**		3.3	0.28	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Barium	**190**		1.6	0.23	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Beryllium	ND		0.33	0.11	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Cadmium	**0.84**		0.41	0.040	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Chromium	**21**		1.6	0.17	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Cobalt	**6.3**		0.65	0.065	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Copper	**200**		4.9	2.3	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Lead	**1000**	**B**	1.6	0.34	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Molybdenum	**1.1**	**J**	1.6	0.21	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Nickel	**140**		1.6	0.17	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Selenium	**2.1**	**J B**	3.3	0.49	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Silver	**0.78**	**J B**	0.81	0.16	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Thallium	ND		1.6	0.47	mg/Kg		02/02/19 09:10	03/16/19 21:39	4
Vanadium	**140**		1.6	0.22	mg/Kg		02/02/19 09:10	02/13/19 17:57	4
Zinc	**510**		4.9	2.1	mg/Kg		02/02/19 09:10	02/13/19 17:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.084**		0.016	0.0024	mg/Kg		02/04/19 15:03	02/04/19 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.7**		0.1	0.05	%			02/04/19 15:42	1

Client Sample ID: DG-AV9S-0.5-1 Lab Sample ID: 720-91134-4

Date Collected: 02/01/19 12:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		170	120	ug/Kg		02/07/19 20:15	02/07/19 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*60 - 120*	*02/07/19 20:15*	*02/07/19 21:45*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*02/07/19 20:15*	*02/07/19 21:45*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/07/19 20:15*	*02/07/19 21:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		17	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,1,1,2-Tetrachloroethane	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,1,1-Trichloroethane	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,1,2,2-Tetrachloroethane	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,1,2-Trichloroethane	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,1-Dichloroethane	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,1-Dichloroethene	ND		3.4	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,1-Dichloropropene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,2,3-Trichlorobenzene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,2,4-Trichlorobenzene	ND		8.5	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,2,4-Trimethylbenzene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,2-Dibromo-3-Chloropropane	ND		8.5	3.4	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,2-Dichlorobenzene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,2-Dichloroethane	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,2-Dichloropropane	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,3,5-Trimethylbenzene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,3-Dichlorobenzene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,3-Dichloropropane	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,4-Dichlorobenzene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
2,2-Dichloropropane	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
2-Chlorotoluene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
2-Hexanone	ND		17	8.5	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
4-Chlorotoluene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
4-Isopropyltoluene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Benzene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Bromobenzene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Bromoform	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Bromomethane	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Carbon disulfide	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Carbon tetrachloride	ND		3.4	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Chlorobenzene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Chlorobromomethane	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Chloroethane	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Chloroform	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Chloromethane	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
cis-1,2-Dichloroethene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
cis-1,3-Dichloropropene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Chlorodibromomethane	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Dibromomethane	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Dichlorobromomethane	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1

Client Sample ID: DG-AV9S-0.5-1 Lab Sample ID: 720-91134-4

Date Collected: 02/01/19 12:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Ethylbenzene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Hexachlorobutadiene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Isopropylbenzene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Methylene Chloride	ND		17	8.5	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Methyl tert-butyl ether	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Naphthalene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
n-Butylbenzene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
N-Propylbenzene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
sec-Butylbenzene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Styrene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
tert-Butylbenzene	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Tetrachloroethene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Toluene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
trans-1,2-Dichloroethene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
trans-1,3-Dichloropropene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Trichloroethene	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Trichlorofluoromethane	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		17	8.5	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Vinyl acetate	ND		14	6.8	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Vinyl chloride	ND		3.4	1.7	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Xylenes, Total	ND		3.4	2.2	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
Ethylene Dibromide	ND		1.7	0.85	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
2-Butanone (MEK)	ND		17	8.5	ug/Kg		02/07/19 20:15	02/07/19 21:45	1
4-Methyl-2-pentanone (MIBK)	ND		8.5	4.2	ug/Kg		02/07/19 20:15	02/07/19 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/07/19 20:15*	*02/07/19 21:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*02/07/19 20:15*	*02/07/19 21:45*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**60**	**J**	95	47	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Acenaphthene	**40**	**J**	47	27	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Acenaphthylene	**30**	**J**	47	23	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Anthracene	**74**		47	19	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Benzo[a]anthracene	**170**		47	14	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Benzo[a]pyrene	**230**	**B**	47	18	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Benzo[b]fluoranthene	**330**	**B**	47	20	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Benzo[g,h,i]perylene	**140**	**F1**	47	41	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Benzo[k]fluoranthene	**110**	**B**	47	20	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Chrysene	**220**		47	13	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Dibenz(a,h)anthracene	**54**	**F1**	47	33	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Fluoranthene	**240**		47	13	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Fluorene	**54**		47	21	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Indeno[1,2,3-cd]pyrene	**120**	**F1**	47	40	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Naphthalene	**110**		47	33	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Phenanthrene	**230**	**F1**	47	17	ug/Kg		02/04/19 09:55	02/07/19 19:51	10
Pyrene	**370**		47	16	ug/Kg		02/04/19 09:55	02/07/19 19:51	10

Client Sample ID: DG-AV9S-0.5-1 Lab Sample ID: 720-91134-4

Date Collected: 02/01/19 12:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		33 - 120	02/04/19 09:55	02/07/19 19:51	10
Terphenyl-d14	97		35 - 146	02/04/19 09:55	02/07/19 19:51	10

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**660**		9.6	3.6	mg/Kg		02/04/19 10:34	02/14/19 21:18	5
Motor Oil Range Organics [C24-C36]	**840**		240	48	mg/Kg		02/04/19 10:34	02/14/19 21:18	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	02/04/19 10:34	02/14/19 21:18	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**120**		3.9	1.2	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
4,4'-DDE	**280**		3.9	0.83	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
4,4'-DDT	**220**		3.9	0.81	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Aldrin	ND		3.9	0.98	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
alpha-BHC	ND		3.9	1.1	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
alpha-Chlordane	**61**		3.9	0.79	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
beta-BHC	ND		3.9	0.71	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Chlordane (technical)	**340**		79	6.3	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
delta-BHC	ND		3.9	0.86	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Dieldrin	**1.5**	**J p**	3.9	1.2	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Endosulfan I	ND		3.9	0.63	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Endosulfan II	ND		3.9	0.96	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Endosulfan sulfate	ND		3.9	0.75	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Endrin	ND		3.9	0.90	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Endrin ketone	ND		3.9	0.65	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
gamma-Chlordane	**51**		3.9	0.90	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Heptachlor	ND		3.9	0.90	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Heptachlor epoxide	ND		3.9	0.69	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Methoxychlor	ND		3.9	1.3	ug/Kg		02/05/19 10:29	02/15/19 11:20	2
Toxaphene	ND		79	13	ug/Kg		02/05/19 10:29	02/15/19 11:20	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		21 - 136	02/05/19 10:29	02/15/19 11:20	2
Tetrachloro-m-xylene	88		21 - 145	02/05/19 10:29	02/15/19 11:20	2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 14:24	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 14:24	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 14:24	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 14:24	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 14:24	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 14:24	1
Aroclor 1260	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 14:24	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV9S-0.5-1

Date Collected: 02/01/19 12:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-4

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*02/08/19 12:55*	*02/15/19 14:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	35		4.4	0.73	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Arsenic	61		8.8	0.75	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Barium	1200		1.8	0.25	mg/Kg		02/02/19 09:10	02/13/19 18:01	4
Beryllium	0.32	J	0.35	0.11	mg/Kg		02/02/19 09:10	02/13/19 18:01	4
Cadmium	8.8		1.1	0.11	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Chromium	85		4.4	0.46	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Cobalt	19		1.8	0.18	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Copper	900		13	6.2	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Lead	3000	B	4.4	0.92	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Molybdenum	7.6		1.8	0.22	mg/Kg		02/02/19 09:10	02/13/19 18:01	4
Nickel	83		4.4	0.45	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Selenium	3.7	J B	8.8	1.3	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Silver	3.6	B	2.2	0.44	mg/Kg		02/02/19 09:10	02/14/19 16:21	10
Thallium	ND		4.4	1.3	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Vanadium	28		4.4	0.60	mg/Kg		02/02/19 09:10	02/14/19 14:29	10
Zinc	3400		13	5.6	mg/Kg		02/02/19 09:10	02/14/19 14:29	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.017	0.0025	mg/Kg		02/04/19 15:03	02/04/19 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.9		0.1	0.05	%			02/04/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV9S-3.5-4

Date Collected: 02/01/19 12:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		120	83	ug/Kg		02/01/19 17:00	02/07/19 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*02/01/19 17:00*	*02/07/19 15:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*02/01/19 17:00*	*02/07/19 15:16*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/01/19 17:00*	*02/07/19 15:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		12	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,1,1,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,1,1-Trichloroethane	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,1,2,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,1,2-Trichloroethane	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,1-Dichloroethane	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,1-Dichloroethene	ND		2.4	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,1-Dichloropropene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,2,3-Trichlorobenzene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,2,4-Trichlorobenzene	ND		6.0	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,2,4-Trimethylbenzene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,2-Dibromo-3-Chloropropane	ND		6.0	2.4	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,2-Dichlorobenzene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,2-Dichloroethane	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,2-Dichloropropane	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,3,5-Trimethylbenzene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,3-Dichlorobenzene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,3-Dichloropropane	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,4-Dichlorobenzene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
2,2-Dichloropropane	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
2-Chlorotoluene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
2-Hexanone	ND		12	6.0	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
4-Chlorotoluene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
4-Isopropyltoluene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Benzene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Bromobenzene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Bromoform	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Bromomethane	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Carbon disulfide	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Carbon tetrachloride	ND		2.4	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Chlorobenzene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Chlorobromomethane	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Chloroethane	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Chloroform	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Chloromethane	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
cis-1,2-Dichloroethene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
cis-1,3-Dichloropropene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Chlorodibromomethane	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Dibromomethane	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Dichlorobromomethane	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1

Client Sample ID: DG-AV9S-3.5-4 Lab Sample ID: 720-91134-5

Date Collected: 02/01/19 12:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Ethylbenzene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Hexachlorobutadiene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Isopropylbenzene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Methylene Chloride	ND		12	6.0	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Methyl tert-butyl ether	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Naphthalene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
n-Butylbenzene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
N-Propylbenzene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
sec-Butylbenzene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Styrene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
tert-Butylbenzene	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Tetrachloroethene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Toluene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
trans-1,2-Dichloroethene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
trans-1,3-Dichloropropene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Trichloroethene	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Trichlorofluoromethane	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12	6.0	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Vinyl acetate	ND		9.5	4.8	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Vinyl chloride	ND		2.4	1.2	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Xylenes, Total	ND		2.4	1.5	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
Ethylene Dibromide	ND		1.2	0.60	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
2-Butanone (MEK)	ND		12	6.0	ug/Kg		02/01/19 17:00	02/07/19 15:16	1
4-Methyl-2-pentanone (MIBK)	ND		6.0	3.0	ug/Kg		02/01/19 17:00	02/07/19 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/01/19 17:00*	*02/07/19 15:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/01/19 17:00*	*02/07/19 15:16*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**22**	**J**	38	19	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Acenaphthene	ND		19	11	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Acenaphthylene	**14**	**J**	19	9.1	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Anthracene	**15**	**J**	19	7.6	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Benzo[a]anthracene	**27**		19	5.7	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Benzo[a]pyrene	**34**	**B**	19	7.2	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Benzo[b]fluoranthene	**62**	**B**	19	8.0	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Benzo[g,h,i]perylene	**29**		19	16	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Benzo[k]fluoranthene	**24**	**B**	19	8.0	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Chrysene	**40**		19	5.3	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Dibenz(a,h)anthracene	**14**	**J**	19	13	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Fluoranthene	**62**		19	5.3	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Fluorene	ND		19	8.3	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Indeno[1,2,3-cd]pyrene	**25**		19	16	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Naphthalene	**57**		19	13	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Phenanthrene	**60**		19	6.8	ug/Kg		02/04/19 09:55	02/12/19 03:09	4
Pyrene	**54**		19	6.4	ug/Kg		02/04/19 09:55	02/12/19 03:09	4

Client Sample ID: DG-AV9S-3.5-4
Date Collected: 02/01/19 12:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-5
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*02/04/19 09:55*	*02/12/19 03:09*	*4*
Terphenyl-d14	*98*		*35 - 146*	*02/04/19 09:55*	*02/12/19 03:09*	*4*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**76**		4.0	1.5	mg/Kg		02/04/19 10:34	02/14/19 17:21	2
Motor Oil Range Organics [C24-C36]	**170**		99	20	mg/Kg		02/04/19 10:34	02/14/19 17:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*86*		*40 - 130*	*02/04/19 10:34*	*02/14/19 17:21*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**3.2**		1.9	0.59	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
4,4'-DDE	**9.5**		1.9	0.40	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
4,4'-DDT	**6.5**		1.9	0.39	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Aldrin	ND		1.9	0.48	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
alpha-BHC	ND		1.9	0.53	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
alpha-Chlordane	**1.8**	**J p**	1.9	0.38	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
beta-BHC	ND		1.9	0.35	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Chlordane (technical)	**18**	**J**	38	3.1	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
delta-BHC	ND		1.9	0.42	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Dieldrin	**2.5**		1.9	0.57	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Endosulfan I	ND		1.9	0.31	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Endosulfan II	ND		1.9	0.47	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Endrin	ND		1.9	0.44	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Endrin ketone	ND		1.9	0.32	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
gamma-Chlordane	**2.1**		1.9	0.44	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Heptachlor	ND		1.9	0.44	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Heptachlor epoxide	ND		1.9	0.34	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Methoxychlor	ND		1.9	0.65	ug/Kg		02/05/19 10:29	02/15/19 11:04	1
Toxaphene	ND		38	6.5	ug/Kg		02/05/19 10:29	02/15/19 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*	*p*	*21 - 136*	*02/05/19 10:29*	*02/15/19 11:04*	*1*
Tetrachloro-m-xylene	*94*		*21 - 145*	*02/05/19 10:29*	*02/15/19 11:04*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:44	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:44	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:44	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:44	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:44	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:44	1
Aroclor 1260	**24**	**J**	50	17	ug/Kg		02/08/19 12:55	02/15/19 13:44	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV9S-3.5-4

Date Collected: 02/01/19 12:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-5

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*02/08/19 12:55*	*02/15/19 13:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	68		3.6	0.60	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Arsenic	26		7.2	0.62	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Barium	190		3.6	0.51	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Beryllium	0.46	J	0.72	0.24	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Cadmium	3.6		0.91	0.090	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Chromium	50		3.6	0.38	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Cobalt	15		1.4	0.14	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Copper	1300		11	5.2	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Lead	4700	B	3.6	0.76	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Molybdenum	2.5	J	3.6	0.46	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Nickel	48		3.6	0.37	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Selenium	6.4	J B	7.2	1.1	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Silver	6.0	B	1.8	0.37	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Thallium	ND		3.6	1.1	mg/Kg		02/02/19 09:10	03/16/19 21:58	10
Vanadium	29		3.6	0.49	mg/Kg		02/02/19 09:10	02/13/19 18:06	10
Zinc	2800		11	4.6	mg/Kg		02/02/19 09:10	02/13/19 18:06	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.4		0.061	0.0090	mg/Kg		02/04/19 15:03	02/04/19 18:45	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.2		0.1	0.05	%			02/04/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV9S-8.5-9

Date Collected: 02/01/19 12:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		88	62	ug/Kg		02/01/19 17:00	02/07/19 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*02/01/19 17:00*	*02/07/19 15:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*02/01/19 17:00*	*02/07/19 15:41*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*02/01/19 17:00*	*02/07/19 15:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,1,1,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,1,1-Trichloroethane	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,1,2-Trichloroethane	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,1-Dichloroethane	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,1-Dichloroethene	ND		1.8	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,1-Dichloropropene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,2,3-Trichlorobenzene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,2-Dichlorobenzene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,2-Dichloroethane	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,2-Dichloropropane	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,3-Dichlorobenzene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,3-Dichloropropane	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,4-Dichlorobenzene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
2-Chlorotoluene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
2-Hexanone	ND		8.8	4.4	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
4-Chlorotoluene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
4-Isopropyltoluene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Benzene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Bromobenzene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Bromoform	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Bromomethane	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Carbon disulfide	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Carbon tetrachloride	ND		1.8	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Chlorobenzene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Chlorobromomethane	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Chloroethane	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Chloroform	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Chloromethane	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
cis-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
cis-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Chlorodibromomethane	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Dibromomethane	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Dichlorobromomethane	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1

Client Sample ID: DG-AV9S-8.5-9
Date Collected: 02/01/19 12:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Ethylbenzene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Hexachlorobutadiene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Isopropylbenzene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Methylene Chloride	ND		8.8	4.4	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Methyl tert-butyl ether	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Naphthalene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
n-Butylbenzene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
N-Propylbenzene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
sec-Butylbenzene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Styrene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
tert-Butylbenzene	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Tetrachloroethene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Toluene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
trans-1,2-Dichloroethene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
trans-1,3-Dichloropropene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Trichloroethene	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Trichlorofluoromethane	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.8	4.4	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Vinyl acetate	ND		7.1	3.5	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Vinyl chloride	ND		1.8	0.88	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Xylenes, Total	ND		1.8	1.1	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
Ethylene Dibromide	ND		0.88	0.44	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		02/01/19 17:00	02/07/19 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	2.2	ug/Kg		02/01/19 17:00	02/07/19 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*02/01/19 17:00*	*02/07/19 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/01/19 17:00*	*02/07/19 15:41*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**37**		20	9.8	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Acenaphthene	**6.6**	**J**	9.8	5.5	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Acenaphthylene	**6.3**	**J**	9.8	4.7	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Anthracene	**10**		9.8	3.9	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Benzo[a]anthracene	**12**		9.8	2.9	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Benzo[a]pyrene	**9.7**	**J B**	9.8	3.7	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Benzo[b]fluoranthene	**20**	**B**	9.8	4.1	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Benzo[g,h,i]perylene	ND		9.8	8.4	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Benzo[k]fluoranthene	**7.1**	**J B**	9.8	4.1	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Chrysene	**23**		9.8	2.7	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Dibenz(a,h)anthracene	ND		9.8	6.9	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Fluoranthene	**39**		9.8	2.7	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Fluorene	**13**		9.8	4.3	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Indeno[1,2,3-cd]pyrene	ND		9.8	8.2	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Naphthalene	**61**		9.8	6.9	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Phenanthrene	**69**		9.8	3.5	ug/Kg		02/04/19 10:47	02/15/19 04:55	2
Pyrene	**45**	**B**	9.8	3.3	ug/Kg		02/04/19 10:47	02/15/19 04:55	2

Client Sample ID: DG-AV9S-8.5-9
Date Collected: 02/01/19 12:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-6
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		33 - 120	02/04/19 10:47	02/15/19 04:55	2
Terphenyl-d14	79		35 - 146	02/04/19 10:47	02/15/19 04:55	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		2.0	0.75	mg/Kg		02/04/19 10:34	02/14/19 18:50	1
Motor Oil Range Organics [C24-C36]	**220**		50	10	mg/Kg		02/04/19 10:34	02/14/19 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	65		40 - 130	02/04/19 10:34	02/14/19 18:50	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**1.9**		1.9	0.58	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
4,4'-DDE	**1.6**	**J**	1.9	0.40	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
4,4'-DDT	**5.7**		1.9	0.39	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Aldrin	ND		1.9	0.48	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
alpha-BHC	ND		1.9	0.53	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
beta-BHC	ND		1.9	0.34	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Chlordane (technical)	ND		38	3.1	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
delta-BHC	ND		1.9	0.42	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Dieldrin	ND		1.9	0.56	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Endosulfan I	ND		1.9	0.31	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Endosulfan II	ND		1.9	0.47	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Endrin	ND		1.9	0.44	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Endrin ketone	ND		1.9	0.32	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Heptachlor	ND		1.9	0.44	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Methoxychlor	ND		1.9	0.65	ug/Kg		02/05/19 10:29	02/15/19 09:57	1
Toxaphene	ND		38	6.5	ug/Kg		02/05/19 10:29	02/15/19 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		21 - 136	02/05/19 10:29	02/15/19 09:57	1
Tetrachloro-m-xylene	71		21 - 145	02/05/19 10:29	02/15/19 09:57	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:20	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:20	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:20	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:20	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:20	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:20	1
Aroclor 1260	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 15:20	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV9S-8.5-9

Date Collected: 02/01/19 12:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-6

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*02/08/19 12:55*	*02/11/19 15:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	26		2.9	0.48	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Arsenic	21		5.7	0.49	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Barium	970		2.9	0.41	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Beryllium	0.45	J	0.57	0.19	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Cadmium	5.8		0.72	0.071	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Chromium	37		2.9	0.30	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Cobalt	8.4		1.1	0.11	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Copper	1500		8.6	4.1	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Lead	4100	B	2.9	0.60	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Molybdenum	0.96	J	2.9	0.37	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Nickel	46		2.9	0.29	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Selenium	2.2	J B	5.7	0.86	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Silver	5.2	B	1.4	0.29	mg/Kg		02/02/19 09:10	02/14/19 16:26	10
Thallium	1.4	J	2.9	0.83	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Vanadium	20		2.9	0.39	mg/Kg		02/02/19 09:10	02/14/19 14:34	10
Zinc	3100		8.6	3.6	mg/Kg		02/02/19 09:10	02/14/19 14:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.016	0.0023	mg/Kg		02/04/19 15:03	02/04/19 18:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	35.7		0.1	0.05	%			02/04/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-U13S-7.5-8

Date Collected: 02/01/19 08:50
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**740**		71	50	ug/Kg		02/01/19 17:00	02/07/19 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*02/01/19 17:00*	*02/07/19 16:06*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*02/01/19 17:00*	*02/07/19 16:06*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*	*02/01/19 17:00*	*02/07/19 16:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,1,1-Trichloroethane	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,1,2-Trichloroethane	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,1-Dichloroethane	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,1-Dichloroethene	ND		1.4	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,1-Dichloropropene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,2,4-Trichlorobenzene	ND		3.6	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,2-Dichlorobenzene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,2-Dichloroethane	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,2-Dichloropropane	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,3-Dichlorobenzene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,3-Dichloropropane	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,4-Dichlorobenzene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
2-Hexanone	ND		7.1	3.6	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
4-Isopropyltoluene	**0.70**	**J**	0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Benzene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Bromobenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Bromoform	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Bromomethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Carbon disulfide	**1.4**		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Carbon tetrachloride	ND		1.4	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Chlorobenzene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Chloroethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Chloroform	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Chloromethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
cis-1,2-Dichloroethene	**0.75**		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
cis-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Chlorodibromomethane	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Dibromomethane	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Dichlorobromomethane	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-U13S-7.5-8
Date Collected: 02/01/19 08:50
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Ethylbenzene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Isopropylbenzene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Methylene Chloride	ND		7.1	3.6	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Naphthalene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
N-Propylbenzene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Styrene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Tetrachloroethene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Toluene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
trans-1,2-Dichloroethene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
trans-1,3-Dichloropropene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Trichloroethene	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.6	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Vinyl acetate	ND		5.7	2.8	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Vinyl chloride	**0.81**	**J**	1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Xylenes, Total	ND		1.4	0.93	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
Ethylene Dibromide	ND		0.71	0.36	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
2-Butanone (MEK)	ND		7.1	3.6	ug/Kg		02/01/19 17:00	02/07/19 16:06	1
4-Methyl-2-pentanone (MIBK)	ND		3.6	1.8	ug/Kg		02/01/19 17:00	02/07/19 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*	*02/01/19 17:00*	*02/07/19 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*02/01/19 17:00*	*02/07/19 16:06*	*1*

Client Sample ID: DG-AV5S-0.5-1 Lab Sample ID: 720-91134-8

Date Collected: 02/01/19 12:40 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		76	53	ug/Kg		02/01/19 17:00	02/07/19 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*02/01/19 17:00*	*02/07/19 16:30*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*02/01/19 17:00*	*02/07/19 16:30*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*	*02/01/19 17:00*	*02/07/19 16:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.6	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,1,1-Trichloroethane	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,1,2-Trichloroethane	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,1-Dichloroethane	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,1-Dichloroethene	ND		1.5	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,1-Dichloropropene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,2,3-Trichlorobenzene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,2,4-Trichlorobenzene	ND		3.8	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,2,4-Trimethylbenzene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,2-Dichlorobenzene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,2-Dichloroethane	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,2-Dichloropropane	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,3,5-Trimethylbenzene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,3-Dichlorobenzene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,3-Dichloropropane	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,4-Dichlorobenzene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
2,2-Dichloropropane	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
2-Chlorotoluene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
2-Hexanone	ND		7.6	3.8	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
4-Chlorotoluene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
4-Isopropyltoluene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Benzene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Bromobenzene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Bromoform	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Bromomethane	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Carbon disulfide	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Carbon tetrachloride	ND		1.5	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Chlorobenzene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Chlorobromomethane	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Chloroethane	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Chloroform	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Chloromethane	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
cis-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
cis-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Chlorodibromomethane	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Dibromomethane	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Dichlorobromomethane	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV5S-0.5-1
Date Collected: 02/01/19 12:40
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Ethylbenzene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Hexachlorobutadiene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Isopropylbenzene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Methylene Chloride	ND		7.6	3.8	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Methyl tert-butyl ether	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Naphthalene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
n-Butylbenzene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
N-Propylbenzene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
sec-Butylbenzene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Styrene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
tert-Butylbenzene	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Tetrachloroethene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Toluene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
trans-1,2-Dichloroethene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
trans-1,3-Dichloropropene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Trichloroethene	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Trichlorofluoromethane	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	3.8	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Vinyl chloride	ND		1.5	0.76	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Xylenes, Total	ND		1.5	0.98	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
Ethylene Dibromide	ND		0.76	0.38	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
2-Butanone (MEK)	ND		7.6	3.8	ug/Kg		02/01/19 17:00	02/07/19 16:30	1
4-Methyl-2-pentanone (MIBK)	ND		3.8	1.9	ug/Kg		02/01/19 17:00	02/07/19 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*	*02/01/19 17:00*	*02/07/19 16:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*02/01/19 17:00*	*02/07/19 16:30*	*1*

Client Sample ID: DG-AV5S-3.5-4 Lab Sample ID: 720-91134-9

Date Collected: 02/01/19 12:40 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		130	88	ug/Kg		02/01/19 17:00	02/07/19 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*02/01/19 17:00*	*02/07/19 16:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*02/01/19 17:00*	*02/07/19 16:55*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*	*02/01/19 17:00*	*02/07/19 16:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		13	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,1,1,2-Tetrachloroethane	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,1,1-Trichloroethane	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,1,2,2-Tetrachloroethane	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,1,2-Trichloroethane	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,1-Dichloroethane	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,1-Dichloroethene	ND		2.5	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,1-Dichloropropene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,2,3-Trichlorobenzene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,2,4-Trichlorobenzene	ND		6.3	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,2,4-Trimethylbenzene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,2-Dibromo-3-Chloropropane	ND		6.3	2.5	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,2-Dichlorobenzene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,2-Dichloroethane	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,2-Dichloropropane	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,3,5-Trimethylbenzene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,3-Dichlorobenzene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,3-Dichloropropane	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,4-Dichlorobenzene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
2,2-Dichloropropane	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
2-Chlorotoluene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
2-Hexanone	ND		13	6.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
4-Chlorotoluene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
4-Isopropyltoluene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Benzene	**0.71**	**J**	1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Bromobenzene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Bromoform	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Bromomethane	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Carbon disulfide	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Carbon tetrachloride	ND		2.5	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Chlorobenzene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Chlorobromomethane	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Chloroethane	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Chloroform	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Chloromethane	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
cis-1,2-Dichloroethene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
cis-1,3-Dichloropropene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Chlorodibromomethane	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Dibromomethane	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Dichlorobromomethane	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV5S-3.5-4
Date Collected: 02/01/19 12:40
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Ethylbenzene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Hexachlorobutadiene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Isopropylbenzene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Methylene Chloride	ND		13	6.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Methyl tert-butyl ether	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Naphthalene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
n-Butylbenzene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
N-Propylbenzene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
sec-Butylbenzene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Styrene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
tert-Butylbenzene	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Tetrachloroethene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Toluene	**1.3**		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
trans-1,2-Dichloroethene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
trans-1,3-Dichloropropene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Trichloroethene	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Trichlorofluoromethane	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13	6.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Vinyl acetate	ND		10	5.0	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Vinyl chloride	ND		2.5	1.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Xylenes, Total	ND		2.5	1.6	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
Ethylene Dibromide	ND		1.3	0.63	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
2-Butanone (MEK)	ND		13	6.3	ug/Kg		02/01/19 17:00	02/07/19 16:55	1
4-Methyl-2-pentanone (MIBK)	ND		6.3	3.1	ug/Kg		02/01/19 17:00	02/07/19 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*	*02/01/19 17:00*	*02/07/19 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*02/01/19 17:00*	*02/07/19 16:55*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV5S-7.5-8

Date Collected: 02/01/19 12:40
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-10

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		62	43	ug/Kg		02/01/19 17:00	02/08/19 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*60 - 120*	*02/01/19 17:00*	*02/08/19 10:04*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*02/01/19 17:00*	*02/08/19 10:04*	*1*
Toluene-d8 (Surr)	*99*		*79 - 123*	*02/01/19 17:00*	*02/08/19 10:04*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,1,1,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,1,1-Trichloroethane	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,1,2-Trichloroethane	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,1-Dichloroethane	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,1-Dichloroethene	ND		1.2	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,1-Dichloropropene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,2,3-Trichlorobenzene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,2,4-Trichlorobenzene	ND		3.1	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,2,4-Trimethylbenzene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,2-Dibromo-3-Chloropropane	ND		3.1	1.2	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,2-Dichlorobenzene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,2-Dichloroethane	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,2-Dichloropropane	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,3,5-Trimethylbenzene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,3-Dichlorobenzene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,3-Dichloropropane	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,4-Dichlorobenzene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
2,2-Dichloropropane	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
2-Chlorotoluene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
2-Hexanone	ND		6.2	3.1	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
4-Chlorotoluene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
4-Isopropyltoluene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Benzene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Bromobenzene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Bromoform	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Bromomethane	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Carbon disulfide	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Carbon tetrachloride	ND		1.2	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Chlorobenzene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Chlorobromomethane	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Chloroethane	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Chloroform	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Chloromethane	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
cis-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
cis-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Chlorodibromomethane	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Dibromomethane	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Dichlorobromomethane	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV5S-7.5-8
Date Collected: 02/01/19 12:40
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Ethylbenzene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Hexachlorobutadiene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Isopropylbenzene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Methylene Chloride	ND		6.2	3.1	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Methyl tert-butyl ether	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Naphthalene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
n-Butylbenzene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
N-Propylbenzene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
sec-Butylbenzene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Styrene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
tert-Butylbenzene	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Tetrachloroethene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Toluene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
trans-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
trans-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Trichloroethene	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Trichlorofluoromethane	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	3.1	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Vinyl acetate	ND		4.9	2.5	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Vinyl chloride	ND		1.2	0.62	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Xylenes, Total	ND		1.2	0.80	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
Ethylene Dibromide	ND		0.62	0.31	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
2-Butanone (MEK)	ND		6.2	3.1	ug/Kg		02/01/19 17:00	02/08/19 10:04	1
4-Methyl-2-pentanone (MIBK)	ND		3.1	1.5	ug/Kg		02/01/19 17:00	02/08/19 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*79 - 123*	*02/01/19 17:00*	*02/08/19 10:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*02/01/19 17:00*	*02/08/19 10:04*	*1*

Client Sample ID: DUP-35
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-11
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		74	52	ug/Kg		02/01/19 17:00	02/08/19 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*02/01/19 17:00*	*02/08/19 10:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*	*02/01/19 17:00*	*02/08/19 10:29*	*1*
Toluene-d8 (Surr)	*93*		*79 - 123*	*02/01/19 17:00*	*02/08/19 10:29*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,1,1-Trichloroethane	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,1,2-Trichloroethane	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,1-Dichloroethane	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,1-Dichloropropene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,2,3-Trichlorobenzene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,2-Dichlorobenzene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,2-Dichloroethane	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,2-Dichloropropane	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,3-Dichlorobenzene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,3-Dichloropropane	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,4-Dichlorobenzene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
2-Chlorotoluene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
2-Hexanone	ND		7.4	3.7	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
4-Chlorotoluene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
4-Isopropyltoluene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Benzene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Bromobenzene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Bromoform	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Bromomethane	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Carbon disulfide	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Chlorobenzene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Chlorobromomethane	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Chloroethane	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Chloroform	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Chloromethane	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
cis-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
cis-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Chlorodibromomethane	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Dibromomethane	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Dichlorobromomethane	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DUP-35
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-11
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Ethylbenzene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Hexachlorobutadiene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Isopropylbenzene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Methylene Chloride	ND		7.4	3.7	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Methyl tert-butyl ether	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Naphthalene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
n-Butylbenzene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
N-Propylbenzene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
sec-Butylbenzene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Styrene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
tert-Butylbenzene	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Tetrachloroethene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Toluene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
trans-1,2-Dichloroethene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
trans-1,3-Dichloropropene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Trichloroethene	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Trichlorofluoromethane	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	3.7	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Vinyl acetate	ND		5.9	2.9	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Vinyl chloride	ND		1.5	0.74	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Xylenes, Total	ND		1.5	0.96	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
Ethylene Dibromide	ND		0.74	0.37	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		02/01/19 17:00	02/08/19 10:29	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.8	ug/Kg		02/01/19 17:00	02/08/19 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*79 - 123*	*02/01/19 17:00*	*02/08/19 10:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*02/01/19 17:00*	*02/08/19 10:29*	*1*

Client Sample ID: DUP-93
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	**250000**		31000	22000	ug/Kg		02/06/19 14:17	02/07/19 18:15	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*55 - 140*	*02/06/19 14:17*	*02/07/19 18:15*	*400*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*	*02/06/19 14:17*	*02/07/19 18:15*	*400*
Toluene-d8 (Surr)	*98*		*60 - 140*	*02/06/19 14:17*	*02/07/19 18:15*	*400*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1600	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,1,1,2-Tetrachloroethane	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,1,1-Trichloroethane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,1,2,2-Tetrachloroethane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,1,2-Trichloroethane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,1-Dichloroethane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,1-Dichloroethene	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,1-Dichloropropene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,2,3-Trichlorobenzene	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,2,4-Trichlorobenzene	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,2,4-Trimethylbenzene	**1000**		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,2-Dibromo-3-Chloropropane	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,2-Dichlorobenzene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,2-Dichloroethane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,2-Dichloropropane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,3,5-Trimethylbenzene	**290**	**J**	310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,3-Dichlorobenzene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,3-Dichloropropane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,4-Dichlorobenzene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
2,2-Dichloropropane	ND		620	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
2-Chlorotoluene	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
2-Hexanone	ND		3900	1600	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
4-Chlorotoluene	ND		780	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
4-Isopropyltoluene	**230**	**J**	310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Benzene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Bromobenzene	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Bromoform	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Bromomethane	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Carbon disulfide	ND		780	390	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Carbon tetrachloride	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Chlorobenzene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Chlorobromomethane	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Chloroethane	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Chloroform	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Chloromethane	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
cis-1,2-Dichloroethene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
cis-1,3-Dichloropropene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Chlorodibromomethane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Dibromomethane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Dichlorobromomethane	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400

Client Sample ID: DUP-93
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Ethylbenzene	**290**	**J**	310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Hexachlorobutadiene	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Isopropylbenzene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Methylene Chloride	ND		3100	1600	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Methyl tert-butyl ether	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Naphthalene	**2100**		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
n-Butylbenzene	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
N-Propylbenzene	**200**	**J**	310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
sec-Butylbenzene	ND		780	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Styrene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
tert-Butylbenzene	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Tetrachloroethene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Toluene	**240**	**J**	310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
trans-1,2-Dichloroethene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
trans-1,3-Dichloropropene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Trichloroethene	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Trichlorofluoromethane	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1600	620	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Vinyl acetate	ND		1600	780	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Vinyl chloride	ND		780	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Xylenes, Total	**940**		620	310	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
Ethylene Dibromide	ND		310	160	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
2-Butanone (MEK)	ND		3100	1600	ug/Kg		02/06/19 14:17	02/07/19 18:15	400
4-Methyl-2-pentanone (MIBK)	ND		1600	620	ug/Kg		02/06/19 14:17	02/07/19 18:15	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*60 - 140*	*02/06/19 14:17*	*02/07/19 18:15*	*400*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*	*02/06/19 14:17*	*02/07/19 18:15*	*400*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**16000**		2400	1200	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Acenaphthene	**4000**		1200	680	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Acenaphthylene	**860**	**J**	1200	590	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Anthracene	**3500**		1200	490	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Benzo[a]anthracene	**2400**		1200	370	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Benzo[a]pyrene	**2200**	**B**	1200	460	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Benzo[b]fluoranthene	**1500**	**B**	1200	510	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Benzo[g,h,i]perylene	**1200**		1200	1100	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Benzo[k]fluoranthene	**690**	**J B**	1200	510	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Chrysene	**4400**		1200	340	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Dibenz(a,h)anthracene	ND		1200	860	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Fluoranthene	**2000**		1200	340	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Fluorene	**5700**		1200	540	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Indeno[1,2,3-cd]pyrene	ND		1200	1000	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Naphthalene	**6900**		1200	860	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Phenanthrene	**13000**		1200	440	ug/Kg		02/04/19 10:47	02/15/19 06:05	50
Pyrene	**9800**	**B**	1200	420	ug/Kg		02/04/19 10:47	02/15/19 06:05	50

Client Sample ID: DUP-93
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-12
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	X	33 - 120	02/04/19 10:47	02/15/19 06:05	50
Terphenyl-d14	0	X	35 - 146	02/04/19 10:47	02/15/19 06:05	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15000		480	180	mg/Kg		02/04/19 10:34	02/14/19 21:48	100
Motor Oil Range Organics [C24-C36]	19000		12000	2400	mg/Kg		02/04/19 10:34	02/14/19 21:48	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	02/04/19 10:34	02/14/19 21:48	100

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		39	12	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
4,4'-DDE	ND		39	8.3	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
4,4'-DDT	ND		39	8.1	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Aldrin	ND		39	9.9	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
alpha-BHC	ND		39	11	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
alpha-Chlordane	ND		39	7.9	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
beta-BHC	ND		39	7.1	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Chlordane (technical)	ND		790	63	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
delta-BHC	ND		39	8.7	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Dieldrin	ND		39	12	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Endosulfan I	ND		39	6.3	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Endosulfan II	ND		39	9.7	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Endosulfan sulfate	ND		39	7.5	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Endrin	ND		39	9.1	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Endrin aldehyde	ND		39	12	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Endrin ketone	ND		39	6.5	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
gamma-BHC (Lindane)	ND		39	12	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
gamma-Chlordane	ND		39	9.1	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Heptachlor	ND		39	9.1	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Heptachlor epoxide	ND		39	6.9	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Methoxychlor	ND		39	13	ug/Kg		02/05/19 10:29	02/15/19 10:13	20
Toxaphene	ND		790	130	ug/Kg		02/05/19 10:29	02/15/19 10:13	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X D	21 - 136	02/05/19 10:29	02/15/19 10:13	20
Tetrachloro-m-xylene	0	X D	21 - 145	02/05/19 10:29	02/15/19 10:13	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:38	1
Aroclor 1221	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:38	1
Aroclor 1232	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:38	1
Aroclor 1242	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:38	1
Aroclor 1248	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:38	1
Aroclor 1254	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:38	1
Aroclor 1260	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 14:38	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DUP-93

Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-12

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*02/08/19 12:55*	*02/15/19 14:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	13		1.6	0.26	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Arsenic	43		3.1	0.27	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Barium	350		1.6	0.22	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Beryllium	0.18	J	0.31	0.10	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Cadmium	1.5		0.39	0.039	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Chromium	37		1.6	0.17	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Cobalt	11		0.63	0.063	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Copper	220		4.7	2.2	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Lead	1200	B	1.6	0.33	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Molybdenum	0.74	J	1.6	0.20	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Nickel	84		1.6	0.16	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Selenium	4.1	B	3.1	0.47	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Silver	1.2	B	0.79	0.16	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Thallium	ND		1.6	0.46	mg/Kg		02/02/19 09:10	03/29/19 10:08	4
Vanadium	35		1.6	0.21	mg/Kg		02/02/19 09:10	02/13/19 18:16	4
Zinc	1000		4.7	2.0	mg/Kg		02/02/19 09:10	02/13/19 18:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.014	0.0021	mg/Kg		02/04/19 15:03	02/04/19 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.4		0.1	0.05	%			02/04/19 15:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AP5S-3.5-4

Date Collected: 02/01/19 13:10
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		71	49	ug/Kg		02/01/19 17:00	02/07/19 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*02/01/19 17:00*	*02/07/19 17:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*02/01/19 17:00*	*02/07/19 17:20*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/01/19 17:00*	*02/07/19 17:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,1,1-Trichloroethane	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,1,2-Trichloroethane	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,1-Dichloroethane	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,1-Dichloropropene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,2,3-Trichlorobenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,2,4-Trichlorobenzene	ND		3.5	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,2-Dichlorobenzene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,2-Dichloroethane	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,2-Dichloropropane	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,3-Dichlorobenzene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,3-Dichloropropane	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,4-Dichlorobenzene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
2-Chlorotoluene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
2-Hexanone	ND		7.1	3.5	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
4-Chlorotoluene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
4-Isopropyltoluene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Benzene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Bromobenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Bromoform	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Bromomethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Carbon disulfide	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Chlorobenzene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Chlorobromomethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Chloroethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Chloroform	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Chloromethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
cis-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
cis-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Chlorodibromomethane	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Dibromomethane	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Dichlorobromomethane	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AP5S-3.5-4
Date Collected: 02/01/19 13:10
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Ethylbenzene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Hexachlorobutadiene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Isopropylbenzene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Methylene Chloride	ND		7.1	3.5	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Methyl tert-butyl ether	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Naphthalene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
n-Butylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
N-Propylbenzene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
sec-Butylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Styrene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
tert-Butylbenzene	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Tetrachloroethene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Toluene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
trans-1,2-Dichloroethene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
trans-1,3-Dichloropropene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Trichloroethene	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Trichlorofluoromethane	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.1	3.5	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Vinyl chloride	ND		1.4	0.71	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Xylenes, Total	ND		1.4	0.92	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
Ethylene Dibromide	ND		0.71	0.35	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
2-Butanone (MEK)	ND		7.1	3.5	ug/Kg		02/01/19 17:00	02/07/19 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		02/01/19 17:00	02/07/19 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/01/19 17:00*	*02/07/19 17:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/01/19 17:00*	*02/07/19 17:20*	*1*

Client: Geosyntec Consultants, Inc.
Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AN5S-0.5-1
Lab Sample ID: 720-91134-14
Date Collected: 02/01/19 13:30
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	72	ug/Kg		02/01/19 17:00	02/07/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*02/01/19 17:00*	*02/07/19 17:44*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*02/01/19 17:00*	*02/07/19 17:44*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*	*02/01/19 17:00*	*02/07/19 17:44*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,1,1,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,1,1-Trichloroethane	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,1,2-Trichloroethane	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,1-Dichloroethane	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,1-Dichloroethene	ND		2.1	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,1-Dichloropropene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,2,3-Trichlorobenzene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,2,4-Trichlorobenzene	ND		5.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,2,4-Trimethylbenzene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.1	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,2-Dichlorobenzene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,2-Dichloroethane	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,2-Dichloropropane	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,3,5-Trimethylbenzene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,3-Dichlorobenzene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,3-Dichloropropane	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,4-Dichlorobenzene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
2,2-Dichloropropane	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
2-Chlorotoluene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
2-Hexanone	ND		10	5.1	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
4-Chlorotoluene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
4-Isopropyltoluene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Benzene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Bromobenzene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Bromoform	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Bromomethane	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Carbon disulfide	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Carbon tetrachloride	ND		2.1	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Chlorobenzene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Chlorobromomethane	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Chloroethane	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Chloroform	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Chloromethane	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
cis-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Chlorodibromomethane	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Dibromomethane	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Dichlorobromomethane	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AN5S-0.5-1
Date Collected: 02/01/19 13:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-14
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Ethylbenzene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Hexachlorobutadiene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Isopropylbenzene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Methylene Chloride	ND		10	5.1	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Methyl tert-butyl ether	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Naphthalene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
n-Butylbenzene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
N-Propylbenzene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
sec-Butylbenzene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Styrene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
tert-Butylbenzene	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Tetrachloroethene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Toluene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
trans-1,3-Dichloropropene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Trichloroethene	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Trichlorofluoromethane	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.1	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Vinyl acetate	ND		8.2	4.1	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Vinyl chloride	ND		2.1	1.0	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Xylenes, Total	ND		2.1	1.3	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
Ethylene Dibromide	ND		1.0	0.51	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
2-Butanone (MEK)	ND		10	5.1	ug/Kg		02/01/19 17:00	02/07/19 17:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.1	2.6	ug/Kg		02/01/19 17:00	02/07/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*02/01/19 17:00*	*02/07/19 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/01/19 17:00*	*02/07/19 17:44*	*1*

Client Sample ID: DG-AN5S-3.5-4 Lab Sample ID: 720-91134-15

Date Collected: 02/01/19 13:30 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		70	49	ug/Kg		02/01/19 17:00	02/07/19 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*60 - 120*	*02/01/19 17:00*	*02/07/19 18:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*02/01/19 17:00*	*02/07/19 18:09*	*1*
Toluene-d8 (Surr)	*93*		*79 - 123*	*02/01/19 17:00*	*02/07/19 18:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.0	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,1,1-Trichloroethane	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,1,2-Trichloroethane	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,1-Dichloroethane	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,1-Dichloroethene	ND		1.4	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,1-Dichloropropene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,2,3-Trichlorobenzene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,2,4-Trichlorobenzene	ND		3.5	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,2,4-Trimethylbenzene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,2-Dichlorobenzene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,2-Dichloroethane	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,2-Dichloropropane	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,3,5-Trimethylbenzene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,3-Dichlorobenzene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,3-Dichloropropane	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,4-Dichlorobenzene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
2,2-Dichloropropane	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
2-Chlorotoluene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
2-Hexanone	ND		7.0	3.5	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
4-Chlorotoluene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
4-Isopropyltoluene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Benzene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Bromobenzene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Bromoform	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Bromomethane	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Carbon disulfide	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Carbon tetrachloride	ND		1.4	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Chlorobenzene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Chlorobromomethane	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Chloroethane	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Chloroform	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Chloromethane	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
cis-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
cis-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Chlorodibromomethane	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Dibromomethane	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Dichlorobromomethane	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AN5S-3.5-4
Date Collected: 02/01/19 13:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Ethylbenzene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Hexachlorobutadiene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Isopropylbenzene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Methylene Chloride	ND		7.0	3.5	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Methyl tert-butyl ether	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Naphthalene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
n-Butylbenzene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
N-Propylbenzene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
sec-Butylbenzene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Styrene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
tert-Butylbenzene	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Tetrachloroethene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Toluene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
trans-1,2-Dichloroethene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
trans-1,3-Dichloropropene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Trichloroethene	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Trichlorofluoromethane	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.0	3.5	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Vinyl acetate	ND		5.6	2.8	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Vinyl chloride	ND		1.4	0.70	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Xylenes, Total	ND		1.4	0.91	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
Ethylene Dibromide	ND		0.70	0.35	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
2-Butanone (MEK)	ND		7.0	3.5	ug/Kg		02/01/19 17:00	02/07/19 18:09	1
4-Methyl-2-pentanone (MIBK)	ND		3.5	1.8	ug/Kg		02/01/19 17:00	02/07/19 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*79 - 123*	*02/01/19 17:00*	*02/07/19 18:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*02/01/19 17:00*	*02/07/19 18:09*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: TB-02.01.19

Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-16

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/12/19 16:08*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*02/12/19 16:08*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/12/19 16:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Acetone	ND		20	10	ug/L			02/12/19 16:08	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 16:08	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 16:08	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 16:08	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 16:08	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 16:08	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 16:08	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 16:08	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 16:08	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: TB-02.01.19
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 16:08	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 16:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 16:08	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 16:08	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 16:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 16:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 16:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 16:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 16:08	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 16:08	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 16:08	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/12/19 16:08*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/12/19 16:08*	*1*

Client: Geosyntec Consultants, Inc.
Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: FB-02.01.19
Lab Sample ID: 720-91134-17
Date Collected: 02/01/19 00:00
Matrix: Water
Date Received: 02/01/19 16:42

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/12/19 16:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/12/19 16:34*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 16:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Acetone	**43**		20	10	ug/L			02/12/19 16:34	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 16:34	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 16:34	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 16:34	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 16:34	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 16:34	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 16:34	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 16:34	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 16:34	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: FB-02.01.19
Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91134-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 16:34	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 16:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 16:34	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 16:34	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 16:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 16:34	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 16:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 16:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 16:34	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 16:34	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 16:34	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*02/12/19 16:34*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 16:34*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(79-123)
440-232576-B-8-C MS	Matrix Spike	103	94
440-232576-C-8-A MSD	Matrix Spike Duplicate	102	94
720-91134-1	DG-AD13S-0.5-1	97	97
720-91134-2	DG-AD13S-3.5-4	97	100
720-91134-4	DG-AV9S-0.5-1	97	97
720-91134-5	DG-AV9S-3.5-4	99	97
720-91134-6	DG-AV9S-8.5-9	99	98
720-91134-7	DG-U13S-7.5-8	97	101
720-91134-8	DG-AV5S-0.5-1	97	96
720-91134-9	DG-AV5S-3.5-4	102	96
720-91134-10	DG-AV5S-7.5-8	90	99
720-91134-11	DUP-35	102	93
720-91134-13	DG-AP5S-3.5-4	99	97
720-91134-14	DG-AN5S-0.5-1	99	98
720-91134-15	DG-AN5S-3.5-4	101	93
LCS 440-527266/6	Lab Control Sample	98	94
LCS 440-527461/5	Lab Control Sample	97	96
LCS 440-527525/5	Lab Control Sample	98	94
LCSD 440-527266/7	Lab Control Sample Dup	97	96
LCSD 440-527461/6	Lab Control Sample Dup	98	98
MB 440-527266/5	Method Blank	99	97
MB 440-527461/4	Method Blank	100	95
MB 440-527525/4	Method Blank	98	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TOL	DCA
Lab Sample ID	Client Sample ID	(60-140)	(60-140)
720-91134-3	DG-AD13S-7.5-8	100	95
720-91134-12	DUP-93	98	97
LCS 440-527268/6	Lab Control Sample	97	104
LCSD 440-527268/7	Lab Control Sample Dup	99	104
MB 440-527268/5	Method Blank	97	105

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
720-91071-A-1 MS	Matrix Spike	95	98

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	
Lab Sample ID	Client Sample ID	(70-130)	(80-128)	
720-91071-A-1 MSD	Matrix Spike Duplicate	97	97	
720-91134-16	TB-02.01.19	101	98	
720-91134-17	FB-02.01.19	97	99	
LCS 440-528098/6	Lab Control Sample	98	98	
MB 440-528098/5	Method Blank	100	99	

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DBFM	BFB	TOL						
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)						
440-232576-B-8-C MS	Matrix Spike	104	98	94						
440-232576-C-8-A MSD	Matrix Spike Duplicate	103	97	93						
720-91134-1	DG-AD13S-0.5-1	100	99	97						
720-91134-2	DG-AD13S-3.5-4	100	104	100						
720-91134-4	DG-AV9S-0.5-1	97	102	97						
720-91134-5	DG-AV9S-3.5-4	101	99	97						
720-91134-6	DG-AV9S-8.5-9	101	100	98						
720-91134-7	DG-U13S-7.5-8	100	109	101						
720-91134-8	DG-AV5S-0.5-1	100	99	96						
720-91134-9	DG-AV5S-3.5-4	102	101	96						
720-91134-10	DG-AV5S-7.5-8	96	102	99						
720-91134-11	DUP-35	103	102	93						
720-91134-13	DG-AP5S-3.5-4	101	100	97						
720-91134-14	DG-AN5S-0.5-1	101	100	98						
720-91134-15	DG-AN5S-3.5-4	103	100	93						
LCS 440-527267/11	Lab Control Sample	99	99	97						
LCS 440-527462/7	Lab Control Sample	100	98	97						
LCS 440-527526/6	Lab Control Sample	99	97	97						
LCSD 440-527267/12	Lab Control Sample Dup	99	100	97						
LCSD 440-527462/8	Lab Control Sample Dup	98	97	97						
MB 440-527267/5	Method Blank	101	97	97						
MB 440-527462/4	Method Blank	100	100	95						
MB 440-527526/4	Method Blank	99	99	96						

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DBFM	BFB	TOL						
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)						
720-91134-3	DG-AD13S-7.5-8	99	97	100						

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(55-140)	(65-140)	(60-140)
720-91134-12	DUP-93	102	97	98
LCS 440-527269/8	Lab Control Sample	101	98	100
LCSD 440-527269/9	Lab Control Sample Dup	103	95	99
MB 440-527269/5	Method Blank	104	97	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
720-91071-A-1 MS	Matrix Spike	101	96	98
720-91071-A-1 MSD	Matrix Spike Duplicate	103	95	97
720-91134-16	TB-02.01.19	104	91	98
720-91134-17	FB-02.01.19	103	92	99
LCS 440-528117/7	Lab Control Sample	100	93	100
MB 440-528117/5	Method Blank	104	92	99

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPHL
Lab Sample ID	Client Sample ID	(33-120)	(35-146)
720-91134-1	DG-AD13S-0.5-1	84	117
720-91134-2	DG-AD13S-3.5-4	89	147 X
720-91134-3	DG-AD13S-7.5-8	0 X	0 X
720-91134-3 MS	DG-AD13S-7.5-8	0 X	0 X
720-91134-3 MSD	DG-AD13S-7.5-8	0 X	0 X
720-91134-4	DG-AV9S-0.5-1	63	97
720-91134-4 MS	DG-AV9S-0.5-1	62	101
720-91134-4 MSD	DG-AV9S-0.5-1	64	98
720-91134-5	DG-AV9S-3.5-4	71	98
720-91134-6	DG-AV9S-8.5-9	79	79
720-91134-12	DUP-93	0 X	0 X
LCS 720-259737/2-A	Lab Control Sample	85	118
LCS 720-259745/2-A	Lab Control Sample	82	116
MB 720-259737/1-A	Method Blank	89	120
MB 720-259745/1-A	Method Blank	77	113

Surrogate Legend

FBP = 2-Fluorobiphenyl

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TPH1 (40-130)
720-91134-1	DG-AD13S-0.5-1	0 X D
720-91134-1 MS	DG-AD13S-0.5-1	0 X D
720-91134-1 MSD	DG-AD13S-0.5-1	0 X D
720-91134-2	DG-AD13S-3.5-4	0 X D
720-91134-3	DG-AD13S-7.5-8	0 X D
720-91134-4	DG-AV9S-0.5-1	0 X D
720-91134-5	DG-AV9S-3.5-4	86
720-91134-6	DG-AV9S-8.5-9	65
720-91134-12	DUP-93	0 X D
LCS 720-259742/2-A	Lab Control Sample	123
MB 720-259742/1-A	Method Blank	109

Surrogate Legend

TPH = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (21-136)	TCX1 (21-145)
720-91134-2	DG-AD13S-3.5-4	117	82
720-91134-3	DG-AD13S-7.5-8	0 X D	0 X D
720-91134-4	DG-AV9S-0.5-1	70	88
720-91134-12	DUP-93	0 X D	0 X D

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (21-136)	TCX2 (21-145)
720-91134-2 MS	DG-AD13S-3.5-4	99	97
720-91134-5	DG-AV9S-3.5-4	109 p	94
LCS 720-259743/2-A	Lab Control Sample	111	91
MB 720-259743/1-A	Method Blank	116	93

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-91134-6	DG-AV9S-8.5-9	85	71

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-91134-1	DG-AD13S-0.5-1	74	80
720-91134-2 MSD	DG-AD13S-3.5-4	94	96

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
720-91134-1	DG-AD13S-0.5-1	67
720-91134-2	DG-AD13S-3.5-4	61
720-91134-3	DG-AD13S-7.5-8	75
720-91134-4	DG-AV9S-0.5-1	71
720-91134-5	DG-AV9S-3.5-4	61
720-91134-6	DG-AV9S-8.5-9	49
720-91134-12	DUP-93	81
720-91191-B-1-A MS	Matrix Spike	75
720-91191-B-1-B MSD	Matrix Spike Duplicate	71
LCS 440-527643/2-A	Lab Control Sample	78
MB 440-527643/1-A	Method Blank	103

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-527266/5
Matrix: Solid
Analysis Batch: 527266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Benzene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/07/19 09:31	1
Bromoform	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/07/19 09:31	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/07/19 09:31	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Chloroform	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
2-Hexanone	ND		10	5.0	ug/Kg			02/07/19 09:31	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/07/19 09:31	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Styrene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/07/19 09:31	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527266/5
Matrix: Solid
Analysis Batch: 527266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Toluene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/07/19 09:31	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/07/19 09:31	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/07/19 09:31	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/07/19 09:31	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/07/19 09:31	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/07/19 09:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/07/19 09:31	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/07/19 09:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/07/19 09:31*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*		*02/07/19 09:31*	*1*

Lab Sample ID: LCS 440-527266/6
Matrix: Solid
Analysis Batch: 527266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	20.6		ug/Kg		103	70 - 125
1,2-Dichlorobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,3-Dichlorobenzene	20.0	20.5		ug/Kg		102	75 - 125
4-Chlorotoluene	20.0	20.5		ug/Kg		102	75 - 125
1,4-Dichlorobenzene	20.0	20.6		ug/Kg		103	75 - 120
1,3-Dichloropropane	20.0	20.0		ug/Kg		100	70 - 125
Benzene	20.0	20.8		ug/Kg		104	65 - 120
1,1-Dichloropropene	20.0	21.0		ug/Kg		105	70 - 130
Bromobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/Kg		96	50 - 135
Bromoform	20.0	20.5		ug/Kg		103	55 - 135
Bromomethane	20.0	20.3		ug/Kg		101	60 - 145
Carbon disulfide	20.0	19.3		ug/Kg		96	50 - 130
Carbon tetrachloride	20.0	20.5		ug/Kg		103	65 - 140
1,1-Dichloroethane	20.0	20.6		ug/Kg		103	70 - 130
Chlorobenzene	20.0	20.0		ug/Kg		100	75 - 120
1,2-Dichloroethane	20.0	19.1		ug/Kg		95	60 - 140
Chlorobromomethane	20.0	22.5		ug/Kg		113	70 - 135
1,1-Dichloroethene	20.0	20.5		ug/Kg		102	70 - 125
Chloroethane	20.0	19.1		ug/Kg		96	60 - 140
Chloroform	20.0	20.7		ug/Kg		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527266/6
Matrix: Solid
Analysis Batch: 527266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	16.8		ug/Kg		84	45 - 145
1,2-Dichloropropane	20.0	21.5		ug/Kg		107	70 - 130
cis-1,2-Dichloroethene	20.0	20.7		ug/Kg		103	70 - 125
cis-1,3-Dichloropropene	20.0	20.7		ug/Kg		103	75 - 125
Chlorodibromomethane	20.0	20.9		ug/Kg		104	65 - 140
Dibromomethane	20.0	20.9		ug/Kg		104	70 - 130
Dichlorobromomethane	20.0	20.4		ug/Kg		102	70 - 135
2-Hexanone	20.0	19.7		ug/Kg		99	40 - 150
Dichlorodifluoromethane	20.0	16.9		ug/Kg		85	35 - 160
Ethylbenzene	20.0	19.7		ug/Kg		98	70 - 125
4-Isopropyltoluene	20.0	22.1		ug/Kg		110	75 - 125
Hexachlorobutadiene	20.0	19.2		ug/Kg		96	60 - 135
Isopropylbenzene	20.0	20.8		ug/Kg		104	75 - 130
Methylene Chloride	20.0	17.6		ug/Kg		88	55 - 135
Methyl tert-butyl ether	20.0	21.2		ug/Kg		106	60 - 140
Naphthalene	20.0	20.4		ug/Kg		102	55 - 135
1,1,1,2-Tetrachloroethane	20.0	21.0		ug/Kg		105	70 - 130
n-Butylbenzene	20.0	20.5		ug/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.2		ug/Kg		111	55 - 140
N-Propylbenzene	20.0	21.2		ug/Kg		106	70 - 130
sec-Butylbenzene	20.0	21.8		ug/Kg		109	70 - 125
1,2,3-Trichlorobenzene	20.0	20.2		ug/Kg		101	60 - 130
Styrene	20.0	19.2		ug/Kg		96	75 - 130
1,2,4-Trichlorobenzene	20.0	20.2		ug/Kg		101	70 - 135
tert-Butylbenzene	20.0	21.2		ug/Kg		106	70 - 125
1,1,1-Trichloroethane	20.0	20.0		ug/Kg		100	65 - 135
Tetrachloroethene	20.0	20.7		ug/Kg		104	70 - 125
1,1,2-Trichloroethane	20.0	20.6		ug/Kg		103	65 - 135
Toluene	20.0	19.8		ug/Kg		99	70 - 125
trans-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	70 - 125
1,2,3-Trichloropropane	20.0	21.3		ug/Kg		106	60 - 135
trans-1,3-Dichloropropene	20.0	19.9		ug/Kg		99	70 - 135
Trichloroethene	20.0	21.8		ug/Kg		109	70 - 125
1,2,4-Trimethylbenzene	20.0	21.1		ug/Kg		106	70 - 125
Trichlorofluoromethane	20.0	20.8		ug/Kg		104	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.6		ug/Kg		108	60 - 140
1,3,5-Trimethylbenzene	20.0	21.4		ug/Kg		107	70 - 125
Vinyl acetate	20.0	20.0		ug/Kg		100	45 - 145
Vinyl chloride	20.0	17.8		ug/Kg		89	55 - 135
m-Xylene & p-Xylene	20.0	19.9		ug/Kg		100	70 - 125
Ethylene Dibromide	20.0	21.1		ug/Kg		105	70 - 130
o-Xylene	20.0	20.6		ug/Kg		103	70 - 125
2-Butanone (MEK)	20.0	21.3		ug/Kg		106	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	19.2		ug/Kg		96	40 - 145
2,2-Dichloropropane	20.0	19.7		ug/Kg		99	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527266/6
Matrix: Solid
Analysis Batch: 527266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: LCSD 440-527266/7
Matrix: Solid
Analysis Batch: 527266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene			20.0	19.3		ug/Kg		96	70 - 125	7	20
1,2-Dichlorobenzene			20.0	19.7		ug/Kg		98	75 - 120	6	20
1,3-Dichlorobenzene			20.0	19.5		ug/Kg		98	75 - 125	5	20
4-Chlorotoluene			20.0	19.2		ug/Kg		96	75 - 125	6	20
1,4-Dichlorobenzene			20.0	19.3		ug/Kg		97	75 - 120	6	20
1,3-Dichloropropane			20.0	19.6		ug/Kg		98	70 - 125	2	20
Benzene			20.0	19.2		ug/Kg		96	65 - 120	8	20
1,1-Dichloropropene			20.0	18.8		ug/Kg		94	70 - 130	11	20
Bromobenzene			20.0	19.7		ug/Kg		98	75 - 120	5	20
1,2-Dibromo-3-Chloropropane			20.0	19.1		ug/Kg		96	50 - 135	0	30
Bromoform			20.0	20.3		ug/Kg		102	55 - 135	1	25
Bromomethane			20.0	18.9		ug/Kg		95	60 - 145	7	20
Carbon disulfide			20.0	17.9		ug/Kg		89	50 - 130	8	20
Carbon tetrachloride			20.0	18.7		ug/Kg		93	65 - 140	10	20
1,1-Dichloroethane			20.0	18.9		ug/Kg		94	70 - 130	9	20
Chlorobenzene			20.0	19.0		ug/Kg		95	75 - 120	5	20
1,2-Dichloroethane			20.0	17.6		ug/Kg		88	60 - 140	8	20
Chlorobromomethane			20.0	20.9		ug/Kg		104	70 - 135	8	20
1,1-Dichloroethene			20.0	19.2		ug/Kg		96	70 - 125	7	20
Chloroethane			20.0	18.3		ug/Kg		92	60 - 140	4	25
Chloroform			20.0	19.2		ug/Kg		96	70 - 130	8	20
Chloromethane			20.0	15.4		ug/Kg		77	45 - 145	9	25
1,2-Dichloropropane			20.0	19.8		ug/Kg		99	70 - 130	8	20
cis-1,2-Dichloroethene			20.0	19.4		ug/Kg		97	70 - 125	6	20
cis-1,3-Dichloropropene			20.0	20.0		ug/Kg		100	75 - 125	3	20
Chlorodibromomethane			20.0	19.8		ug/Kg		99	65 - 140	5	20
Dibromomethane			20.0	19.5		ug/Kg		98	70 - 130	7	20
Dichlorobromomethane			20.0	19.5		ug/Kg		98	70 - 135	4	20
2-Hexanone			20.0	18.3		ug/Kg		92	40 - 150	7	35
Dichlorodifluoromethane			20.0	15.5		ug/Kg		78	35 - 160	9	30
Ethylbenzene			20.0	18.7		ug/Kg		94	70 - 125	5	20
4-Isopropyltoluene			20.0	20.5		ug/Kg		103	75 - 125	7	20
Hexachlorobutadiene			20.0	18.6		ug/Kg		93	60 - 135	3	20
Isopropylbenzene			20.0	19.9		ug/Kg		99	75 - 130	4	20
Methylene Chloride			20.0	15.3		ug/Kg		77	55 - 135	14	20
Methyl tert-butyl ether			20.0	20.0		ug/Kg		100	60 - 140	6	25
Naphthalene			20.0	20.5		ug/Kg		102	55 - 135	0	25
1,1,1,2-Tetrachloroethane			20.0	20.1		ug/Kg		100	70 - 130	5	20
n-Butylbenzene			20.0	19.4		ug/Kg		97	70 - 130	6	20
1,1,2,2-Tetrachloroethane			20.0	21.4		ug/Kg		107	55 - 140	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527266/7
Matrix: Solid
Analysis Batch: 527266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	20.0	19.7		ug/Kg		99	70 - 130	7	20
sec-Butylbenzene	20.0	20.5		ug/Kg		103	70 - 125	6	20
1,2,3-Trichlorobenzene	20.0	20.3		ug/Kg		102	60 - 130	1	20
Styrene	20.0	18.3		ug/Kg		92	75 - 130	5	20
1,2,4-Trichlorobenzene	20.0	20.6		ug/Kg		103	70 - 135	2	20
tert-Butylbenzene	20.0	19.7		ug/Kg		99	70 - 125	7	20
1,1,1-Trichloroethane	20.0	18.3		ug/Kg		91	65 - 135	9	20
Tetrachloroethene	20.0	18.5		ug/Kg		92	70 - 125	11	20
1,1,2-Trichloroethane	20.0	19.7		ug/Kg		98	65 - 135	5	20
Toluene	20.0	19.0		ug/Kg		95	70 - 125	4	20
trans-1,2-Dichloroethene	20.0	19.2		ug/Kg		96	70 - 125	7	20
1,2,3-Trichloropropane	20.0	20.6		ug/Kg		103	60 - 135	3	25
trans-1,3-Dichloropropene	20.0	19.1		ug/Kg		95	70 - 135	4	20
Trichloroethene	20.0	20.6		ug/Kg		103	70 - 125	5	20
1,2,4-Trimethylbenzene	20.0	19.6		ug/Kg		98	70 - 125	8	20
Trichlorofluoromethane	20.0	18.6		ug/Kg		93	60 - 145	11	25
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.6		ug/Kg		98	60 - 140	9	40
1,3,5-Trimethylbenzene	20.0	20.0		ug/Kg		100	70 - 125	7	20
Vinyl acetate	20.0	19.3		ug/Kg		96	45 - 145	4	20
Vinyl chloride	20.0	16.5		ug/Kg		83	55 - 135	8	25
m-Xylene & p-Xylene	20.0	19.1		ug/Kg		95	70 - 125	4	20
Ethylene Dibromide	20.0	20.1		ug/Kg		100	70 - 130	5	20
o-Xylene	20.0	19.2		ug/Kg		96	70 - 125	7	20
2-Butanone (MEK)	20.0	20.3		ug/Kg		102	40 - 145	5	35
4-Methyl-2-pentanone (MIBK)	20.0	18.5		ug/Kg		92	40 - 145	4	35
2,2-Dichloropropane	20.0	18.6		ug/Kg		93	60 - 145	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: MB 440-527268/5
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,2-Dichlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,3-Dichlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
4-Chlorotoluene	ND		250	50	ug/Kg			02/07/19 08:54	100
1,4-Dichlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,3-Dichloropropane	ND		100	50	ug/Kg			02/07/19 08:54	100
Benzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,1-Dichloropropene	ND		100	50	ug/Kg			02/07/19 08:54	100
Bromobenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,2-Dibromo-3-Chloropropane	ND		250	100	ug/Kg			02/07/19 08:54	100
Bromoform	ND		250	100	ug/Kg			02/07/19 08:54	100
Bromomethane	ND		250	100	ug/Kg			02/07/19 08:54	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527268/5
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		250	130	ug/Kg			02/07/19 08:54	100
Carbon tetrachloride	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1-Dichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Chlorobenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2-Dichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Chlorobromomethane	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1-Dichloroethene	ND		250	100	ug/Kg			02/07/19 08:54	100
Chloroethane	ND		250	100	ug/Kg			02/07/19 08:54	100
Chloroform	ND		100	50	ug/Kg			02/07/19 08:54	100
Chloromethane	ND		250	100	ug/Kg			02/07/19 08:54	100
1,2-Dichloropropane	ND		100	50	ug/Kg			02/07/19 08:54	100
cis-1,2-Dichloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
cis-1,3-Dichloropropene	ND		100	50	ug/Kg			02/07/19 08:54	100
Chlorodibromomethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Dibromomethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Dichlorobromomethane	ND		100	50	ug/Kg			02/07/19 08:54	100
2-Hexanone	ND		1300	500	ug/Kg			02/07/19 08:54	100
Dichlorodifluoromethane	ND		250	100	ug/Kg			02/07/19 08:54	100
Ethylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
4-Isopropyltoluene	ND		100	50	ug/Kg			02/07/19 08:54	100
Hexachlorobutadiene	ND		250	100	ug/Kg			02/07/19 08:54	100
Isopropylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
Methylene Chloride	ND		1000	500	ug/Kg			02/07/19 08:54	100
Methyl tert-butyl ether	ND		250	100	ug/Kg			02/07/19 08:54	100
Naphthalene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,1,2-Tetrachloroethane	ND		250	100	ug/Kg			02/07/19 08:54	100
n-Butylbenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
N-Propylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
sec-Butylbenzene	ND		250	50	ug/Kg			02/07/19 08:54	100
1,2,3-Trichlorobenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
Styrene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2,4-Trichlorobenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
tert-Butylbenzene	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,1-Trichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Tetrachloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,1,2-Trichloroethane	ND		100	50	ug/Kg			02/07/19 08:54	100
Toluene	ND		100	50	ug/Kg			02/07/19 08:54	100
trans-1,2-Dichloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2,3-Trichloropropane	ND		500	100	ug/Kg			02/07/19 08:54	100
trans-1,3-Dichloropropene	ND		100	50	ug/Kg			02/07/19 08:54	100
Trichloroethene	ND		100	50	ug/Kg			02/07/19 08:54	100
1,2,4-Trimethylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
Trichlorofluoromethane	ND		250	100	ug/Kg			02/07/19 08:54	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	200	ug/Kg			02/07/19 08:54	100
1,3,5-Trimethylbenzene	ND		100	50	ug/Kg			02/07/19 08:54	100
Vinyl acetate	ND		500	250	ug/Kg			02/07/19 08:54	100
Vinyl chloride	ND		250	100	ug/Kg			02/07/19 08:54	100
Ethylene Dibromide	ND		100	50	ug/Kg			02/07/19 08:54	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527268/5
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		1000	500	ug/Kg			02/07/19 08:54	100
Xylenes, Total	ND		200	100	ug/Kg			02/07/19 08:54	100
4-Methyl-2-pentanone (MIBK)	ND		500	200	ug/Kg			02/07/19 08:54	100
2,2-Dichloropropane	ND		200	100	ug/Kg			02/07/19 08:54	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*02/07/19 08:54*	*100*
Toluene-d8 (Surr)	*97*		*60 - 140*		*02/07/19 08:54*	*100*

Lab Sample ID: LCS 440-527268/6
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	1000	980		ug/Kg		98	70 - 125
1,2-Dichlorobenzene	1000	1010		ug/Kg		101	70 - 120
1,3-Dichlorobenzene	1000	1030		ug/Kg		103	70 - 125
4-Chlorotoluene	1000	982		ug/Kg		98	70 - 125
1,4-Dichlorobenzene	1000	1010		ug/Kg		101	70 - 125
1,3-Dichloropropane	1000	1000		ug/Kg		100	65 - 130
Benzene	1000	1010		ug/Kg		101	65 - 120
1,1-Dichloropropene	1000	1030		ug/Kg		103	70 - 130
Bromobenzene	1000	992		ug/Kg		99	70 - 120
1,2-Dibromo-3-Chloropropane	1000	822		ug/Kg		82	45 - 135
Bromoform	1000	792		ug/Kg		79	50 - 130
Bromomethane	1000	883		ug/Kg		88	30 - 140
Carbon disulfide	1000	885		ug/Kg		88	50 - 130
Carbon tetrachloride	1000	960		ug/Kg		96	65 - 145
1,1-Dichloroethane	1000	1010		ug/Kg		101	65 - 130
Chlorobenzene	1000	1000		ug/Kg		100	70 - 125
1,2-Dichloroethane	1000	1000		ug/Kg		100	60 - 145
Chlorobromomethane	1000	1050		ug/Kg		105	65 - 125
1,1-Dichloroethene	1000	987		ug/Kg		99	75 - 140
Chloroethane	1000	885		ug/Kg		88	40 - 140
Chloroform	1000	1050		ug/Kg		105	75 - 130
Chloromethane	1000	707		ug/Kg		71	30 - 140
1,2-Dichloropropane	1000	1040		ug/Kg		104	75 - 125
cis-1,2-Dichloroethene	1000	1030		ug/Kg		103	65 - 130
cis-1,3-Dichloropropene	1000	923		ug/Kg		92	70 - 130
Chlorodibromomethane	1000	888		ug/Kg		89	65 - 140
Dibromomethane	1000	1020		ug/Kg		102	65 - 130
Dichlorobromomethane	1000	947		ug/Kg		95	65 - 135
2-Hexanone	1000	755	J	ug/Kg		75	35 - 140
Dichlorodifluoromethane	1000	464		ug/Kg		46	10 - 155
Ethylbenzene	1000	967		ug/Kg		97	80 - 120
4-Isopropyltoluene	1000	1050		ug/Kg		105	70 - 125
Hexachlorobutadiene	1000	1030		ug/Kg		103	60 - 135
Isopropylbenzene	1000	995		ug/Kg		100	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527268/6
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	1000	863	J	ug/Kg		86	60 - 140
Methyl tert-butyl ether	1000	937		ug/Kg		94	55 - 145
Naphthalene	1000	912		ug/Kg		91	50 - 140
1,1,1,2-Tetrachloroethane	1000	927		ug/Kg		93	70 - 140
n-Butylbenzene	1000	1040		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	1000	957		ug/Kg		96	55 - 135
N-Propylbenzene	1000	979		ug/Kg		98	70 - 130
sec-Butylbenzene	1000	1010		ug/Kg		101	70 - 125
1,2,3-Trichlorobenzene	1000	976		ug/Kg		98	60 - 135
Styrene	1000	902		ug/Kg		90	70 - 135
1,2,4-Trichlorobenzene	1000	1020		ug/Kg		102	65 - 135
tert-Butylbenzene	1000	1010		ug/Kg		101	70 - 125
1,1,1-Trichloroethane	1000	1040		ug/Kg		104	65 - 140
Tetrachloroethene	1000	1010		ug/Kg		101	65 - 125
1,1,2-Trichloroethane	1000	992		ug/Kg		99	65 - 130
Toluene	1000	960		ug/Kg		96	80 - 120
trans-1,2-Dichloroethene	1000	1040		ug/Kg		104	65 - 130
1,2,3-Trichloropropane	1000	1050		ug/Kg		105	55 - 130
trans-1,3-Dichloropropene	1000	902		ug/Kg		90	65 - 135
Trichloroethene	1000	1080		ug/Kg		108	70 - 130
1,2,4-Trimethylbenzene	1000	990		ug/Kg		99	70 - 125
Trichlorofluoromethane	1000	1070		ug/Kg		107	50 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	1030		ug/Kg		103	60 - 140
1,3,5-Trimethylbenzene	1000	990		ug/Kg		99	70 - 125
Vinyl acetate	1000	864		ug/Kg		86	25 - 145
Vinyl chloride	1000	774		ug/Kg		77	10 - 120
m-Xylene & p-Xylene	1000	988		ug/Kg		99	70 - 125
Ethylene Dibromide	1000	1000		ug/Kg		100	70 - 130
o-Xylene	1000	1010		ug/Kg		101	70 - 125
2-Butanone (MEK)	1000	631	J	ug/Kg		63	40 - 145
4-Methyl-2-pentanone (MIBK)	1000	681		ug/Kg		68	40 - 145
2,2-Dichloropropane	1000	1030		ug/Kg		103	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*97*		*60 - 140*

Lab Sample ID: LCSD 440-527268/7
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	1000	1010		ug/Kg		101	70 - 125	3	20
1,2-Dichlorobenzene	1000	1030		ug/Kg		103	70 - 120	2	20
1,3-Dichlorobenzene	1000	1050		ug/Kg		105	70 - 125	3	20
4-Chlorotoluene	1000	986		ug/Kg		99	70 - 125	0	20
1,4-Dichlorobenzene	1000	1030		ug/Kg		103	70 - 125	3	20
1,3-Dichloropropane	1000	1010		ug/Kg		101	65 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527268/7
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	1000	1010		ug/Kg		101	65 - 120	0	20
1,1-Dichloropropene	1000	1050		ug/Kg		105	70 - 130	2	20
Bromobenzene	1000	1010		ug/Kg		101	70 - 120	1	20
1,2-Dibromo-3-Chloropropane	1000	807		ug/Kg		81	45 - 135	2	25
Bromoform	1000	855		ug/Kg		85	50 - 130	8	25
Bromomethane	1000	907		ug/Kg		91	30 - 140	3	30
Carbon disulfide	1000	878		ug/Kg		88	50 - 130	1	20
Carbon tetrachloride	1000	981		ug/Kg		98	65 - 145	2	20
1,1-Dichloroethane	1000	1020		ug/Kg		102	65 - 130	1	20
Chlorobenzene	1000	1050		ug/Kg		105	70 - 125	4	20
1,2-Dichloroethane	1000	981		ug/Kg		98	60 - 145	2	20
Chlorobromomethane	1000	1040		ug/Kg		104	65 - 125	1	20
1,1-Dichloroethene	1000	995		ug/Kg		99	75 - 140	1	20
Chloroethane	1000	867		ug/Kg		87	40 - 140	2	25
Chloroform	1000	1060		ug/Kg		106	75 - 130	1	20
Chloromethane	1000	713		ug/Kg		71	30 - 140	1	25
1,2-Dichloropropane	1000	1040		ug/Kg		104	75 - 125	1	20
cis-1,2-Dichloroethene	1000	1040		ug/Kg		104	65 - 130	1	20
cis-1,3-Dichloropropene	1000	969		ug/Kg		97	70 - 130	5	20
Chlorodibromomethane	1000	926		ug/Kg		93	65 - 140	4	20
Dibromomethane	1000	1050		ug/Kg		105	65 - 130	3	20
Dichlorobromomethane	1000	946		ug/Kg		95	65 - 135	0	20
2-Hexanone	1000	715	J	ug/Kg		72	35 - 140	5	30
Dichlorodifluoromethane	1000	463		ug/Kg		46	10 - 155	0	30
Ethylbenzene	1000	998		ug/Kg		100	80 - 120	3	20
4-Isopropyltoluene	1000	1080		ug/Kg		108	70 - 125	2	20
Hexachlorobutadiene	1000	1070		ug/Kg		107	60 - 135	4	20
Isopropylbenzene	1000	1030		ug/Kg		103	70 - 125	4	20
Methylene Chloride	1000	865	J	ug/Kg		87	60 - 140	0	20
Methyl tert-butyl ether	1000	906		ug/Kg		91	55 - 145	3	25
Naphthalene	1000	911		ug/Kg		91	50 - 140	0	25
1,1,1,2-Tetrachloroethane	1000	972		ug/Kg		97	70 - 140	5	20
n-Butylbenzene	1000	1070		ug/Kg		107	70 - 130	3	20
1,1,2,2-Tetrachloroethane	1000	922		ug/Kg		92	55 - 135	4	25
N-Propylbenzene	1000	1010		ug/Kg		101	70 - 130	3	20
sec-Butylbenzene	1000	1040		ug/Kg		104	70 - 125	3	20
1,2,3-Trichlorobenzene	1000	981		ug/Kg		98	60 - 135	0	20
Styrene	1000	938		ug/Kg		94	70 - 135	4	20
1,2,4-Trichlorobenzene	1000	1020		ug/Kg		102	65 - 135	0	20
tert-Butylbenzene	1000	1070		ug/Kg		107	70 - 125	6	20
1,1,1-Trichloroethane	1000	1030		ug/Kg		103	65 - 140	1	20
Tetrachloroethene	1000	1060		ug/Kg		106	65 - 125	5	20
1,1,2-Trichloroethane	1000	1020		ug/Kg		102	65 - 130	3	20
Toluene	1000	985		ug/Kg		98	80 - 120	3	20
trans-1,2-Dichloroethene	1000	1050		ug/Kg		105	65 - 130	1	20
1,2,3-Trichloropropane	1000	1020		ug/Kg		102	55 - 130	3	25
trans-1,3-Dichloropropene	1000	920		ug/Kg		92	65 - 135	2	20
Trichloroethene	1000	1080		ug/Kg		108	70 - 130	1	20
1,2,4-Trimethylbenzene	1000	1010		ug/Kg		101	70 - 125	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527268/7
Matrix: Solid
Analysis Batch: 527268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane			1000	1060		ug/Kg		106	50 - 145	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane			1000	1120		ug/Kg		112	60 - 140	8	40
1,3,5-Trimethylbenzene			1000	1020		ug/Kg		102	70 - 125	3	20
Vinyl acetate			1000	848		ug/Kg		85	25 - 145	2	25
Vinyl chloride			1000	764		ug/Kg		76	10 - 120	1	30
m-Xylene & p-Xylene			1000	1030		ug/Kg		103	70 - 125	4	20
Ethylene Dibromide			1000	970		ug/Kg		97	70 - 130	3	20
o-Xylene			1000	1050		ug/Kg		105	70 - 125	4	20
2-Butanone (MEK)			1000	692	J	ug/Kg		69	40 - 145	9	30
4-Methyl-2-pentanone (MIBK)			1000	661		ug/Kg		66	40 - 145	3	30
2,2-Dichloropropane			1000	1030		ug/Kg		103	60 - 145	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 440-527461/4
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Benzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/07/19 19:41	1
Bromoform	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/07/19 19:41	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/07/19 19:41	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Chloroform	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527461/4
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
2-Hexanone	ND		10	5.0	ug/Kg			02/07/19 19:41	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/07/19 19:41	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Styrene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/07/19 19:41	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Toluene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/07/19 19:41	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/07/19 19:41	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/07/19 19:41	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/07/19 19:41	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/07/19 19:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/07/19 19:41	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/07/19 19:41*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*		*02/07/19 19:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527461/5
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	20.4		ug/Kg		102	70 - 125
1,2-Dichlorobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,3-Dichlorobenzene	20.0	20.7		ug/Kg		104	75 - 125
4-Chlorotoluene	20.0	20.5		ug/Kg		102	75 - 125
1,4-Dichlorobenzene	20.0	20.3		ug/Kg		101	75 - 120
1,3-Dichloropropane	20.0	20.7		ug/Kg		103	70 - 125
Benzene	20.0	20.8		ug/Kg		104	65 - 120
1,1-Dichloropropene	20.0	19.5		ug/Kg		97	70 - 130
Bromobenzene	20.0	21.2		ug/Kg		106	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.6		ug/Kg		98	50 - 135
Bromoform	20.0	22.1		ug/Kg		110	55 - 135
Bromomethane	20.0	19.9		ug/Kg		99	60 - 145
Carbon disulfide	20.0	18.7		ug/Kg		94	50 - 130
Carbon tetrachloride	20.0	19.1		ug/Kg		96	65 - 140
1,1-Dichloroethane	20.0	20.3		ug/Kg		101	70 - 130
Chlorobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	60 - 140
Chlorobromomethane	20.0	23.3		ug/Kg		116	70 - 135
1,1-Dichloroethene	20.0	19.6		ug/Kg		98	70 - 125
Chloroethane	20.0	18.5		ug/Kg		93	60 - 140
Chloroform	20.0	20.7		ug/Kg		104	70 - 130
Chloromethane	20.0	17.4		ug/Kg		87	45 - 145
1,2-Dichloropropane	20.0	22.6		ug/Kg		113	70 - 130
cis-1,2-Dichloroethene	20.0	21.1		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	20.0	21.2		ug/Kg		106	75 - 125
Chlorodibromomethane	20.0	22.1		ug/Kg		111	65 - 140
Dibromomethane	20.0	21.8		ug/Kg		109	70 - 130
Dichlorobromomethane	20.0	21.1		ug/Kg		106	70 - 135
2-Hexanone	20.0	19.8		ug/Kg		99	40 - 150
Dichlorodifluoromethane	20.0	17.0		ug/Kg		85	35 - 160
Ethylbenzene	20.0	19.7		ug/Kg		99	70 - 125
4-Isopropyltoluene	20.0	20.8		ug/Kg		104	75 - 125
Hexachlorobutadiene	20.0	19.6		ug/Kg		98	60 - 135
Isopropylbenzene	20.0	20.4		ug/Kg		102	75 - 130
Methylene Chloride	20.0	17.7		ug/Kg		89	55 - 135
Methyl tert-butyl ether	20.0	22.3		ug/Kg		111	60 - 140
Naphthalene	20.0	21.0		ug/Kg		105	55 - 135
1,1,1,2-Tetrachloroethane	20.0	21.3		ug/Kg		106	70 - 130
n-Butylbenzene	20.0	19.2		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.6		ug/Kg		113	55 - 140
N-Propylbenzene	20.0	20.4		ug/Kg		102	70 - 130
sec-Butylbenzene	20.0	20.8		ug/Kg		104	70 - 125
1,2,3-Trichlorobenzene	20.0	20.3		ug/Kg		101	60 - 130
Styrene	20.0	19.8		ug/Kg		99	75 - 130
1,2,4-Trichlorobenzene	20.0	20.5		ug/Kg		102	70 - 135
tert-Butylbenzene	20.0	19.9		ug/Kg		100	70 - 125
1,1,1-Trichloroethane	20.0	18.6		ug/Kg		93	65 - 135
Tetrachloroethene	20.0	19.2		ug/Kg		96	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527461/5
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,2-Trichloroethane			20.0	21.2		ug/Kg		106	65 - 135		
Toluene			20.0	20.1		ug/Kg		101	70 - 125		
trans-1,2-Dichloroethene			20.0	20.5		ug/Kg		102	70 - 125		
1,2,3-Trichloropropane			20.0	22.9		ug/Kg		115	60 - 135		
trans-1,3-Dichloropropene			20.0	20.6		ug/Kg		103	70 - 135		
Trichloroethene			20.0	21.3		ug/Kg		106	70 - 125		
1,2,4-Trimethylbenzene			20.0	20.5		ug/Kg		102	70 - 125		
Trichlorofluoromethane			20.0	18.7		ug/Kg		93	60 - 145		
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	19.1		ug/Kg		95	60 - 140		
1,3,5-Trimethylbenzene			20.0	20.6		ug/Kg		103	70 - 125		
Vinyl acetate			20.0	20.1		ug/Kg		101	45 - 145		
Vinyl chloride			20.0	17.4		ug/Kg		87	55 - 135		
m-Xylene & p-Xylene			20.0	20.2		ug/Kg		101	70 - 125		
Ethylene Dibromide			20.0	22.0		ug/Kg		110	70 - 130		
o-Xylene			20.0	20.7		ug/Kg		103	70 - 125		
2-Butanone (MEK)			20.0	21.4		ug/Kg		107	40 - 145		
4-Methyl-2-pentanone (MIBK)			20.0	19.8		ug/Kg		99	40 - 145		
2,2-Dichloropropane			20.0	19.1		ug/Kg		96	60 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: LCSD 440-527461/6
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene			20.0	20.1		ug/Kg		101	70 - 125	1	20
1,2-Dichlorobenzene			20.0	21.1		ug/Kg		106	75 - 120	1	20
1,3-Dichlorobenzene			20.0	20.9		ug/Kg		104	75 - 125	1	20
4-Chlorotoluene			20.0	20.5		ug/Kg		102	75 - 125	0	20
1,4-Dichlorobenzene			20.0	20.7		ug/Kg		103	75 - 120	2	20
1,3-Dichloropropane			20.0	21.4		ug/Kg		107	70 - 125	3	20
Benzene			20.0	20.8		ug/Kg		104	65 - 120	0	20
1,1-Dichloropropene			20.0	19.3		ug/Kg		97	70 - 130	1	20
Bromobenzene			20.0	21.3		ug/Kg		107	75 - 120	1	20
1,2-Dibromo-3-Chloropropane			20.0	20.2		ug/Kg		101	50 - 135	3	30
Bromoform			20.0	22.6		ug/Kg		113	55 - 135	2	25
Bromomethane			20.0	20.3		ug/Kg		101	60 - 145	2	20
Carbon disulfide			20.0	18.8		ug/Kg		94	50 - 130	0	20
Carbon tetrachloride			20.0	19.4		ug/Kg		97	65 - 140	2	20
1,1-Dichloroethane			20.0	20.8		ug/Kg		104	70 - 130	3	20
Chlorobenzene			20.0	21.4		ug/Kg		107	75 - 120	3	20
1,2-Dichloroethane			20.0	19.7		ug/Kg		98	60 - 140	1	20
Chlorobromomethane			20.0	24.0		ug/Kg		120	70 - 135	3	20
1,1-Dichloroethene			20.0	19.1		ug/Kg		96	70 - 125	2	20
Chloroethane			20.0	18.9		ug/Kg		95	60 - 140	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527461/6
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	20.0	20.8		ug/Kg		104	70 - 130	0	20
Chloromethane	20.0	16.8		ug/Kg		84	45 - 145	4	25
1,2-Dichloropropane	20.0	21.8		ug/Kg		109	70 - 130	4	20
cis-1,2-Dichloroethene	20.0	21.2		ug/Kg		106	70 - 125	1	20
cis-1,3-Dichloropropene	20.0	22.6		ug/Kg		113	75 - 125	6	20
Chlorodibromomethane	20.0	23.0		ug/Kg		115	65 - 140	4	20
Dibromomethane	20.0	22.3		ug/Kg		112	70 - 130	2	20
Dichlorobromomethane	20.0	21.2		ug/Kg		106	70 - 135	0	20
2-Hexanone	20.0	20.1		ug/Kg		100	40 - 150	2	35
Dichlorodifluoromethane	20.0	17.1		ug/Kg		85	35 - 160	0	30
Ethylbenzene	20.0	20.3		ug/Kg		102	70 - 125	3	20
4-Isopropyltoluene	20.0	21.2		ug/Kg		106	75 - 125	2	20
Hexachlorobutadiene	20.0	19.5		ug/Kg		98	60 - 135	1	20
Isopropylbenzene	20.0	21.4		ug/Kg		107	75 - 130	5	20
Methylene Chloride	20.0	17.5		ug/Kg		88	55 - 135	1	20
Methyl tert-butyl ether	20.0	21.8		ug/Kg		109	60 - 140	2	25
Naphthalene	20.0	22.2		ug/Kg		111	55 - 135	6	25
1,1,1,2-Tetrachloroethane	20.0	21.8		ug/Kg		109	70 - 130	3	20
n-Butylbenzene	20.0	19.2		ug/Kg		96	70 - 130	0	20
1,1,2,2-Tetrachloroethane	20.0	22.6		ug/Kg		113	55 - 140	0	30
N-Propylbenzene	20.0	20.4		ug/Kg		102	70 - 130	0	20
sec-Butylbenzene	20.0	20.7		ug/Kg		103	70 - 125	1	20
1,2,3-Trichlorobenzene	20.0	21.7		ug/Kg		109	60 - 130	7	20
Styrene	20.0	20.6		ug/Kg		103	75 - 130	4	20
1,2,4-Trichlorobenzene	20.0	21.4		ug/Kg		107	70 - 135	5	20
tert-Butylbenzene	20.0	20.4		ug/Kg		102	70 - 125	2	20
1,1,1-Trichloroethane	20.0	18.8		ug/Kg		94	65 - 135	1	20
Tetrachloroethene	20.0	20.0		ug/Kg		100	70 - 125	4	20
1,1,2-Trichloroethane	20.0	21.9		ug/Kg		110	65 - 135	3	20
Toluene	20.0	20.8		ug/Kg		104	70 - 125	3	20
trans-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	70 - 125	0	20
1,2,3-Trichloropropane	20.0	21.2		ug/Kg		106	60 - 135	8	25
trans-1,3-Dichloropropene	20.0	21.7		ug/Kg		108	70 - 135	5	20
Trichloroethene	20.0	21.5		ug/Kg		107	70 - 125	1	20
1,2,4-Trimethylbenzene	20.0	20.8		ug/Kg		104	70 - 125	2	20
Trichlorofluoromethane	20.0	19.0		ug/Kg		95	60 - 145	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.6		ug/Kg		98	60 - 140	3	40
1,3,5-Trimethylbenzene	20.0	20.8		ug/Kg		104	70 - 125	1	20
Vinyl acetate	20.0	20.3		ug/Kg		102	45 - 145	1	20
Vinyl chloride	20.0	17.0		ug/Kg		85	55 - 135	2	25
m-Xylene & p-Xylene	20.0	21.0		ug/Kg		105	70 - 125	3	20
Ethylene Dibromide	20.0	22.9		ug/Kg		115	70 - 130	4	20
o-Xylene	20.0	21.6		ug/Kg		108	70 - 125	5	20
2-Butanone (MEK)	20.0	21.4		ug/Kg		107	40 - 145	0	35
4-Methyl-2-pentanone (MIBK)	20.0	21.0		ug/Kg		105	40 - 145	6	35
2,2-Dichloropropane	20.0	19.1		ug/Kg		95	60 - 145	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527461/6
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-527525/4
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Benzene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/08/19 08:11	1
Bromoform	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/08/19 08:11	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/08/19 08:11	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Chloroform	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
2-Hexanone	ND		10	5.0	ug/Kg			02/08/19 08:11	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/08/19 08:11	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527525/4
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Styrene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/08/19 08:11	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Toluene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/08/19 08:11	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/08/19 08:11	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/08/19 08:11	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/08/19 08:11	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/08/19 08:11	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/08/19 08:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/08/19 08:11	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/08/19 08:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/08/19 08:11*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*02/08/19 08:11*	*1*

Lab Sample ID: LCS 440-527525/5
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	19.7		ug/Kg		99	70 - 125
1,2-Dichlorobenzene	20.0	20.3		ug/Kg		101	75 - 120
1,3-Dichlorobenzene	20.0	20.5		ug/Kg		102	75 - 125
4-Chlorotoluene	20.0	20.2		ug/Kg		101	75 - 125
1,4-Dichlorobenzene	20.0	20.0		ug/Kg		100	75 - 120
1,3-Dichloropropane	20.0	19.8		ug/Kg		99	70 - 125
Benzene	20.0	20.3		ug/Kg		102	65 - 120
1,1-Dichloropropene	20.0	20.7		ug/Kg		103	70 - 130
Bromobenzene	20.0	20.4		ug/Kg		102	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.4		ug/Kg		92	50 - 135
Bromoform	20.0	20.8		ug/Kg		104	55 - 135
Bromomethane	20.0	19.6		ug/Kg		98	60 - 145
Carbon disulfide	20.0	19.7		ug/Kg		98	50 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527525/5
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	20.0	20.9		ug/Kg		105	65 - 140
1,1-Dichloroethane	20.0	20.5		ug/Kg		103	70 - 130
Chlorobenzene	20.0	19.7		ug/Kg		98	75 - 120
1,2-Dichloroethane	20.0	18.9		ug/Kg		94	60 - 140
Chlorobromomethane	20.0	22.8		ug/Kg		114	70 - 135
1,1-Dichloroethene	20.0	20.8		ug/Kg		104	70 - 125
Chloroethane	20.0	19.5		ug/Kg		97	60 - 140
Chloroform	20.0	20.0		ug/Kg		100	70 - 130
Chloromethane	20.0	16.3		ug/Kg		82	45 - 145
1,2-Dichloropropane	20.0	20.5		ug/Kg		103	70 - 130
cis-1,2-Dichloroethene	20.0	20.8		ug/Kg		104	70 - 125
cis-1,3-Dichloropropene	20.0	20.7		ug/Kg		103	75 - 125
Chlorodibromomethane	20.0	20.8		ug/Kg		104	65 - 140
Dibromomethane	20.0	21.1		ug/Kg		105	70 - 130
Dichlorobromomethane	20.0	20.3		ug/Kg		101	70 - 135
2-Hexanone	20.0	18.2		ug/Kg		91	40 - 150
Dichlorodifluoromethane	20.0	17.2		ug/Kg		86	35 - 160
Ethylbenzene	20.0	19.7		ug/Kg		99	70 - 125
4-Isopropyltoluene	20.0	21.7		ug/Kg		109	75 - 125
Hexachlorobutadiene	20.0	19.5		ug/Kg		98	60 - 135
Isopropylbenzene	20.0	21.1		ug/Kg		105	75 - 130
Methylene Chloride	20.0	16.8		ug/Kg		84	55 - 135
Methyl tert-butyl ether	20.0	21.2		ug/Kg		106	60 - 140
Naphthalene	20.0	20.0		ug/Kg		100	55 - 135
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/Kg		105	70 - 130
n-Butylbenzene	20.0	20.4		ug/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/Kg		106	55 - 140
N-Propylbenzene	20.0	20.7		ug/Kg		103	70 - 130
sec-Butylbenzene	20.0	21.5		ug/Kg		108	70 - 125
1,2,3-Trichlorobenzene	20.0	19.5		ug/Kg		97	60 - 130
Styrene	20.0	19.0		ug/Kg		95	75 - 130
1,2,4-Trichlorobenzene	20.0	20.3		ug/Kg		102	70 - 135
tert-Butylbenzene	20.0	20.8		ug/Kg		104	70 - 125
1,1,1-Trichloroethane	20.0	20.0		ug/Kg		100	65 - 135
Tetrachloroethene	20.0	20.7		ug/Kg		103	70 - 125
1,1,2-Trichloroethane	20.0	19.6		ug/Kg		98	65 - 135
Toluene	20.0	19.8		ug/Kg		99	70 - 125
trans-1,2-Dichloroethene	20.0	20.5		ug/Kg		102	70 - 125
1,2,3-Trichloropropane	20.0	21.0		ug/Kg		105	60 - 135
trans-1,3-Dichloropropene	20.0	19.5		ug/Kg		97	70 - 135
Trichloroethene	20.0	22.0		ug/Kg		110	70 - 125
1,2,4-Trimethylbenzene	20.0	20.7		ug/Kg		103	70 - 125
Trichlorofluoromethane	20.0	20.9		ug/Kg		104	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.4		ug/Kg		107	60 - 140
1,3,5-Trimethylbenzene	20.0	20.7		ug/Kg		104	70 - 125
Vinyl acetate	20.0	19.8		ug/Kg		99	45 - 145
Vinyl chloride	20.0	17.5		ug/Kg		88	55 - 135
m-Xylene & p-Xylene	20.0	20.1		ug/Kg		101	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527525/5
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	20.0	21.1		ug/Kg		105	70 - 130
o-Xylene	20.0	20.2		ug/Kg		101	70 - 125
2-Butanone (MEK)	20.0	20.5		ug/Kg		102	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/Kg		93	40 - 145
2,2-Dichloropropane	20.0	20.6		ug/Kg		103	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: 440-232576-B-8-C MS
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 527574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		14.5	14.6		ug/Kg		100	60 - 135
1,2-Dichlorobenzene	ND		14.5	15.0		ug/Kg		103	70 - 130
1,3-Dichlorobenzene	ND		14.5	14.8		ug/Kg		102	70 - 130
4-Chlorotoluene	ND		14.5	14.3		ug/Kg		99	65 - 135
1,4-Dichlorobenzene	ND		14.5	14.5		ug/Kg		100	70 - 130
1,3-Dichloropropane	ND		14.5	15.2		ug/Kg		105	65 - 140
Benzene	ND		14.5	15.2		ug/Kg		105	65 - 130
1,1-Dichloropropene	ND		14.5	15.1		ug/Kg		104	65 - 135
Bromobenzene	ND		14.5	15.0		ug/Kg		103	65 - 140
1,2-Dibromo-3-Chloropropane	ND		14.5	14.1		ug/Kg		97	40 - 150
Bromoform	ND		14.5	15.8		ug/Kg		109	50 - 145
Bromomethane	ND		14.5	14.4		ug/Kg		99	60 - 155
Carbon disulfide	ND		14.5	14.3		ug/Kg		99	40 - 140
Carbon tetrachloride	ND		14.5	15.1		ug/Kg		104	60 - 145
1,1-Dichloroethane	ND		14.5	14.9		ug/Kg		103	65 - 135
Chlorobenzene	ND		14.5	14.5		ug/Kg		100	70 - 130
1,2-Dichloroethane	ND		14.5	14.1		ug/Kg		97	60 - 150
Chlorobromomethane	ND		14.5	16.6		ug/Kg		114	65 - 145
1,1-Dichloroethene	ND		14.5	15.1		ug/Kg		104	65 - 135
Chloroethane	ND		14.5	14.0		ug/Kg		96	60 - 150
Chloroform	ND		14.5	14.7		ug/Kg		102	65 - 135
Chloromethane	ND		14.5	11.7		ug/Kg		81	40 - 145
1,2-Dichloropropane	ND		14.5	16.0		ug/Kg		110	65 - 130
cis-1,2-Dichloroethene	ND		14.5	15.0		ug/Kg		103	65 - 135
cis-1,3-Dichloropropene	ND		14.5	15.6		ug/Kg		107	70 - 135
Chlorodibromomethane	ND		14.5	15.7		ug/Kg		108	60 - 145
Dibromomethane	ND		14.5	16.1		ug/Kg		111	65 - 140
Dichlorobromomethane	ND		14.5	15.1		ug/Kg		104	65 - 145
2-Hexanone	ND		14.5	12.9		ug/Kg		89	35 - 160
Dichlorodifluoromethane	ND		14.5	12.5		ug/Kg		86	30 - 160
Ethylbenzene	ND		14.5	14.4		ug/Kg		99	70 - 135
4-Isopropyltoluene	ND		14.5	15.1		ug/Kg		104	60 - 140
Hexachlorobutadiene	ND		14.5	12.1		ug/Kg		83	50 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232576-B-8-C MS
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 527574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	ND		14.5	15.0		ug/Kg		104	70 - 145
Methylene Chloride	ND		14.5	12.4		ug/Kg		86	55 - 145
Methyl tert-butyl ether	ND		14.5	15.3		ug/Kg		106	55 - 155
Naphthalene	ND		14.5	14.7		ug/Kg		102	40 - 150
1,1,1,2-Tetrachloroethane	ND		14.5	15.3		ug/Kg		106	65 - 145
n-Butylbenzene	ND		14.5	13.5		ug/Kg		93	55 - 145
1,1,2,2-Tetrachloroethane	ND		14.5	16.4		ug/Kg		113	40 - 160
N-Propylbenzene	ND		14.5	14.8		ug/Kg		102	65 - 140
sec-Butylbenzene	ND		14.5	15.2		ug/Kg		105	60 - 135
1,2,3-Trichlorobenzene	ND		14.5	13.4		ug/Kg		92	45 - 145
Styrene	ND		14.5	14.0		ug/Kg		96	70 - 140
1,2,4-Trichlorobenzene	ND		14.5	13.4		ug/Kg		92	50 - 140
tert-Butylbenzene	ND		14.5	14.3		ug/Kg		98	60 - 140
1,1,1-Trichloroethane	ND		14.5	14.2		ug/Kg		98	65 - 145
Tetrachloroethene	ND		14.5	14.7		ug/Kg		101	65 - 135
1,1,2-Trichloroethane	ND		14.5	15.6		ug/Kg		108	65 - 140
Toluene	ND		14.5	14.4		ug/Kg		99	70 - 130
trans-1,2-Dichloroethene	ND		14.5	15.3		ug/Kg		106	70 - 135
1,2,3-Trichloropropane	ND		14.5	16.5		ug/Kg		114	50 - 150
trans-1,3-Dichloropropene	ND		14.5	14.9		ug/Kg		103	60 - 145
Trichloroethene	ND		14.5	15.8		ug/Kg		109	65 - 140
1,2,4-Trimethylbenzene	ND		14.5	14.5		ug/Kg		100	65 - 140
Trichlorofluoromethane	ND		14.5	15.1		ug/Kg		104	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14.5	15.7		ug/Kg		108	60 - 140
1,3,5-Trimethylbenzene	ND		14.5	14.7		ug/Kg		101	65 - 135
Vinyl acetate	ND		14.5	14.9		ug/Kg		102	40 - 150
Vinyl chloride	ND		14.5	12.5		ug/Kg		86	55 - 140
m-Xylene & p-Xylene	ND		14.5	14.4		ug/Kg		99	70 - 130
Ethylene Dibromide	ND		14.5	15.9		ug/Kg		110	65 - 140
o-Xylene	ND		14.5	14.6		ug/Kg		101	65 - 130
2-Butanone (MEK)	ND		14.5	17.6		ug/Kg		121	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		14.5	14.1		ug/Kg		97	40 - 155
2,2-Dichloropropane	ND		14.5	14.5		ug/Kg		100	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: 440-232576-C-8-A MSD
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 527574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		17.6	16.6		ug/Kg		94	60 - 135	13	25
1,2-Dichlorobenzene	ND		17.6	17.0		ug/Kg		97	70 - 130	13	25
1,3-Dichlorobenzene	ND		17.6	16.9		ug/Kg		96	70 - 130	13	25
4-Chlorotoluene	ND		17.6	16.7		ug/Kg		95	65 - 135	15	25
1,4-Dichlorobenzene	ND		17.6	16.8		ug/Kg		95	70 - 130	14	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232576-C-8-A MSD
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 527574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane	ND		17.6	17.6		ug/Kg		100	65 - 140	15	25
Benzene	ND		17.6	17.4		ug/Kg		99	65 - 130	13	20
1,1-Dichloropropene	ND		17.6	17.7		ug/Kg		100	65 - 135	16	20
Bromobenzene	ND		17.6	17.5		ug/Kg		100	65 - 140	16	25
1,2-Dibromo-3-Chloropropane	ND		17.6	17.6		ug/Kg		100	40 - 150	22	30
Bromoform	ND		17.6	18.5		ug/Kg		105	50 - 145	16	30
Bromomethane	ND		17.6	16.4		ug/Kg		93	60 - 155	13	25
Carbon disulfide	ND		17.6	16.1		ug/Kg		91	40 - 140	12	20
Carbon tetrachloride	ND		17.6	17.1		ug/Kg		97	60 - 145	12	25
1,1-Dichloroethane	ND		17.6	16.7		ug/Kg		95	65 - 135	11	25
Chlorobenzene	ND		17.6	16.7		ug/Kg		95	70 - 130	14	25
1,2-Dichloroethane	ND		17.6	16.5		ug/Kg		94	60 - 150	16	25
Chlorobromomethane	ND		17.6	19.1		ug/Kg		108	65 - 145	14	25
1,1-Dichloroethene	ND		17.6	17.0		ug/Kg		96	65 - 135	12	25
Chloroethane	ND		17.6	16.2		ug/Kg		92	60 - 150	15	25
Chloroform	ND		17.6	17.0		ug/Kg		96	65 - 135	14	20
Chloromethane	ND		17.6	13.4		ug/Kg		76	40 - 145	13	25
1,2-Dichloropropane	ND		17.6	18.3		ug/Kg		104	65 - 130	14	20
cis-1,2-Dichloroethene	ND		17.6	17.1		ug/Kg		97	65 - 135	13	25
cis-1,3-Dichloropropene	ND		17.6	17.9		ug/Kg		101	70 - 135	14	25
Chlorodibromomethane	ND		17.6	17.9		ug/Kg		102	60 - 145	13	25
Dibromomethane	ND		17.6	18.6		ug/Kg		106	65 - 140	15	25
Dichlorobromomethane	ND		17.6	17.4		ug/Kg		99	65 - 145	14	20
2-Hexanone	ND		17.6	15.6		ug/Kg		89	35 - 160	19	40
Dichlorodifluoromethane	ND		17.6	14.5		ug/Kg		82	30 - 160	14	35
Ethylbenzene	ND		17.6	16.3		ug/Kg		93	70 - 135	13	25
4-Isopropyltoluene	ND		17.6	17.4		ug/Kg		99	60 - 140	14	25
Hexachlorobutadiene	ND		17.6	14.2		ug/Kg		81	50 - 145	16	35
Isopropylbenzene	ND		17.6	16.8		ug/Kg		95	70 - 145	11	25
Methylene Chloride	ND		17.6	13.9		ug/Kg		79	55 - 145	11	25
Methyl tert-butyl ether	ND		17.6	18.0		ug/Kg		102	55 - 155	16	35
Naphthalene	ND		17.6	18.5		ug/Kg		105	40 - 150	22	40
1,1,1,2-Tetrachloroethane	ND		17.6	17.2		ug/Kg		98	65 - 145	11	20
n-Butylbenzene	ND		17.6	15.5		ug/Kg		88	55 - 145	14	30
1,1,2,2-Tetrachloroethane	ND		17.6	19.4		ug/Kg		110	40 - 160	17	30
N-Propylbenzene	ND		17.6	16.8		ug/Kg		95	65 - 140	12	25
sec-Butylbenzene	ND		17.6	17.1		ug/Kg		97	60 - 135	11	25
1,2,3-Trichlorobenzene	ND		17.6	16.3		ug/Kg		93	45 - 145	20	30
Styrene	ND		17.6	16.0		ug/Kg		91	70 - 140	14	25
1,2,4-Trichlorobenzene	ND		17.6	15.7		ug/Kg		89	50 - 140	16	30
tert-Butylbenzene	ND		17.6	16.6		ug/Kg		94	60 - 140	15	25
1,1,1-Trichloroethane	ND		17.6	16.4		ug/Kg		93	65 - 145	14	20
Tetrachloroethene	ND		17.6	16.4		ug/Kg		93	65 - 135	11	25
1,1,2-Trichloroethane	ND		17.6	17.5		ug/Kg		100	65 - 140	11	30
Toluene	ND		17.6	16.7		ug/Kg		95	70 - 130	15	20
trans-1,2-Dichloroethene	ND		17.6	17.4		ug/Kg		99	70 - 135	13	25
1,2,3-Trichloropropane	ND		17.6	18.3		ug/Kg		104	50 - 150	10	30
trans-1,3-Dichloropropene	ND		17.6	17.3		ug/Kg		99	60 - 145	15	25
Trichloroethene	ND		17.6	18.5		ug/Kg		105	65 - 140	16	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232576-C-8-A MSD
Matrix: Solid
Analysis Batch: 527525

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 527574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	ND		17.6	16.5		ug/Kg		94	65 - 140	13	25
Trichlorofluoromethane	ND		17.6	17.3		ug/Kg		98	55 - 155	14	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		17.6	18.2		ug/Kg		103	60 - 140	15	40
1,3,5-Trimethylbenzene	ND		17.6	16.9		ug/Kg		96	65 - 135	13	25
Vinyl acetate	ND		17.6	17.4		ug/Kg		99	40 - 150	16	30
Vinyl chloride	ND		17.6	14.4		ug/Kg		82	55 - 140	14	30
m-Xylene & p-Xylene	ND		17.6	16.5		ug/Kg		94	70 - 130	14	25
Ethylene Dibromide	ND		17.6	18.2		ug/Kg		104	65 - 140	14	25
o-Xylene	ND		17.6	16.8		ug/Kg		95	65 - 130	14	25
2-Butanone (MEK)	ND		17.6	17.9		ug/Kg		102	25 - 170	2	40
4-Methyl-2-pentanone (MIBK)	ND		17.6	16.6		ug/Kg		94	40 - 155	16	40
2,2-Dichloropropane	ND		17.6	16.7		ug/Kg		95	65 - 150	14	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: MB 440-528098/5
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			02/12/19 08:31	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Benzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Bromobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/12/19 08:31	1
Bromoform	ND		1.0	0.40	ug/L			02/12/19 08:31	1
Bromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/12/19 08:31	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chloroethane	ND		1.0	0.40	ug/L			02/12/19 08:31	1
Chloroform	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Chloromethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 08:31	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528098/5
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Dibromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
2-Hexanone	ND		5.0	2.5	ug/L			02/12/19 08:31	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/12/19 08:31	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/12/19 08:31	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Naphthalene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
Styrene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/12/19 08:31	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Toluene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/12/19 08:31	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Trichloroethene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/12/19 08:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/12/19 08:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/12/19 08:31	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/12/19 08:31	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/12/19 08:31	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/12/19 08:31	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/12/19 08:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/12/19 08:31	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/12/19 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/12/19 08:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 08:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528098/6
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10.0	ND		ug/L		33	10 - 150
2-Chlorotoluene	10.0	9.78		ug/L		98	70 - 130
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
4-Chlorotoluene	10.0	9.78		ug/L		98	70 - 130
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	10.0	9.94		ug/L		99	70 - 130
Benzene	10.0	9.96		ug/L		100	68 - 130
1,1-Dichloropropene	10.0	10.0		ug/L		100	70 - 130
Bromobenzene	10.0	10.1		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	8.69		ug/L		87	52 - 140
Bromoform	10.0	9.99		ug/L		100	60 - 148
Bromomethane	10.0	10.3		ug/L		103	64 - 139
Carbon disulfide	10.0	9.38		ug/L		94	52 - 136
Carbon tetrachloride	10.0	9.53		ug/L		95	60 - 150
1,1-Dichloroethane	10.0	9.70		ug/L		97	64 - 130
Chlorobenzene	10.0	10.4		ug/L		104	70 - 130
1,2-Dichloroethane	10.0	9.85		ug/L		98	57 - 138
Chlorobromomethane	10.0	11.0		ug/L		110	70 - 130
1,1-Dichloroethene	10.0	10.6		ug/L		106	70 - 130
Chloroethane	10.0	9.18		ug/L		92	64 - 135
Chloroform	10.0	10.1		ug/L		101	70 - 130
Chloromethane	10.0	7.71		ug/L		77	47 - 140
1,2-Dichloropropane	10.0	9.89		ug/L		99	67 - 130
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	70 - 133
cis-1,3-Dichloropropene	10.0	9.70		ug/L		97	70 - 133
Chlorodibromomethane	10.0	9.99		ug/L		100	69 - 145
Dibromomethane	10.0	10.0		ug/L		100	70 - 130
Dichlorobromomethane	10.0	9.57		ug/L		96	70 - 132
2-Hexanone	10.0	9.58		ug/L		96	10 - 150
Dichlorodifluoromethane	10.0	7.63		ug/L		76	29 - 150
Ethylbenzene	10.0	9.66		ug/L		97	70 - 130
4-Isopropyltoluene	10.0	10.4		ug/L		104	70 - 132
Hexachlorobutadiene	10.0	10.8		ug/L		108	10 - 150
Isopropylbenzene	10.0	9.90		ug/L		99	70 - 136
Methylene Chloride	10.0	8.87		ug/L		89	52 - 130
Methyl tert-butyl ether	10.0	9.85		ug/L		98	63 - 131
Naphthalene	10.0	9.65		ug/L		97	60 - 140
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	60 - 141
n-Butylbenzene	10.0	9.89		ug/L		99	65 - 150
1,1,2,2-Tetrachloroethane	10.0	9.77		ug/L		98	63 - 130
N-Propylbenzene	10.0	9.39		ug/L		94	67 - 139
sec-Butylbenzene	10.0	9.69		ug/L		97	70 - 138
1,2,3-Trichlorobenzene	10.0	10.4		ug/L		104	60 - 140
Styrene	10.0	9.52		ug/L		95	70 - 134
1,2,4-Trichlorobenzene	10.0	10.4		ug/L		104	60 - 140
tert-Butylbenzene	10.0	10.1		ug/L		101	70 - 130
1,1,1-Trichloroethane	10.0	9.96		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528098/6
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	10.0	10.6		ug/L		106	70 - 130
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	70 - 130
Toluene	10.0	9.49		ug/L		95	70 - 130
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 130
1,2,3-Trichloropropane	10.0	11.0		ug/L		110	63 - 130
trans-1,3-Dichloropropene	10.0	9.33		ug/L		93	70 - 132
Trichloroethene	10.0	11.0		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	10.0	9.77		ug/L		98	70 - 135
Trichlorofluoromethane	10.0	10.5		ug/L		105	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.8		ug/L		108	60 - 140
1,3,5-Trimethylbenzene	10.0	9.81		ug/L		98	70 - 136
Vinyl acetate	10.0	8.69		ug/L		87	48 - 140
Vinyl chloride	10.0	8.90		ug/L		89	59 - 133
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	70 - 130
Ethylene Dibromide	10.0	10.5		ug/L		105	70 - 130
o-Xylene	10.0	10.3		ug/L		103	70 - 130
2-Butanone (MEK)	10.0	9.00		ug/L		90	44 - 150
4-Methyl-2-pentanone (MIBK)	10.0	8.24		ug/L		82	59 - 149
2,2-Dichloropropane	10.0	9.71		ug/L		97	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91071-A-1 MS
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		10.0	11.3	J	ug/L		113	10 - 150
2-Chlorotoluene	ND		10.0	9.88		ug/L		99	70 - 130
1,2-Dichlorobenzene	ND		10.0	9.96		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
4-Chlorotoluene	ND		10.0	10.2		ug/L		102	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,3-Dichloropropane	ND		10.0	9.82		ug/L		98	70 - 130
Benzene	1.5		10.0	11.3		ug/L		98	66 - 130
1,1-Dichloropropene	ND		10.0	10.2		ug/L		102	64 - 130
Bromobenzene	ND		10.0	10.5		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.76		ug/L		88	48 - 140
Bromoform	ND		10.0	9.63		ug/L		96	59 - 150
Bromomethane	ND		10.0	9.82		ug/L		98	62 - 131
Carbon disulfide	ND		10.0	9.83		ug/L		98	49 - 140
Carbon tetrachloride	ND		10.0	10.1		ug/L		101	60 - 150
1,1-Dichloroethane	ND		10.0	9.71		ug/L		97	65 - 130
Chlorobenzene	ND		10.0	10.5		ug/L		105	70 - 130
1,2-Dichloroethane	ND		10.0	9.18		ug/L		92	56 - 146
Chlorobromomethane	ND		10.0	10.5		ug/L		105	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91071-A-1 MS
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		10.0	11.0		ug/L		110	70 - 130
Chloroethane	ND		10.0	9.42		ug/L		94	68 - 130
Chloroform	ND		10.0	9.85		ug/L		99	70 - 130
Chloromethane	ND		10.0	7.50		ug/L		75	39 - 144
1,2-Dichloropropane	ND		10.0	9.53		ug/L		95	69 - 130
cis-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130
cis-1,3-Dichloropropene	ND		10.0	9.42		ug/L		94	70 - 133
Chlorodibromomethane	ND		10.0	9.83		ug/L		98	70 - 148
Dibromomethane	ND		10.0	9.99		ug/L		100	70 - 130
Dichlorobromomethane	ND		10.0	9.22		ug/L		92	70 - 138
2-Hexanone	ND		10.0	9.66		ug/L		97	10 - 150
Dichlorodifluoromethane	ND		10.0	8.33		ug/L		83	25 - 142
Ethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130
4-Isopropyltoluene	0.26	J	10.0	11.1		ug/L		108	70 - 130
Hexachlorobutadiene	ND		10.0	10.8		ug/L		108	10 - 150
Isopropylbenzene	0.48	J	10.0	10.6		ug/L		101	70 - 132
Methylene Chloride	ND		10.0	8.41		ug/L		84	52 - 130
Methyl tert-butyl ether	1.3		10.0	10.4		ug/L		91	70 - 130
Naphthalene	2.1		10.0	12.2		ug/L		101	60 - 140
1,1,1,2-Tetrachloroethane	ND		10.0	9.77		ug/L		98	60 - 149
n-Butylbenzene	ND		10.0	10.5		ug/L		105	61 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	9.97		ug/L		100	63 - 130
N-Propylbenzene	0.35	J	10.0	10.3		ug/L		100	66 - 135
sec-Butylbenzene	ND		10.0	10.3		ug/L		103	67 - 134
1,2,3-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140
Styrene	ND		10.0	9.47		ug/L		95	29 - 150
1,2,4-Trichlorobenzene	ND		10.0	10.5		ug/L		105	60 - 140
tert-Butylbenzene	ND		10.0	10.8		ug/L		108	70 - 130
1,1,1-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130
Tetrachloroethene	ND		10.0	11.1		ug/L		111	70 - 137
1,1,2-Trichloroethane	ND		10.0	10.1		ug/L		101	70 - 130
Toluene	0.53		10.0	10.1		ug/L		96	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.8		ug/L		108	70 - 130
1,2,3-Trichloropropane	ND		10.0	11.1		ug/L		111	60 - 130
trans-1,3-Dichloropropene	ND		10.0	9.21		ug/L		92	70 - 138
Trichloroethene	ND		10.0	11.0		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	0.83		10.0	10.8		ug/L		99	70 - 130
Trichlorofluoromethane	ND		10.0	10.9		ug/L		109	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.0		ug/L		110	60 - 140
1,3,5-Trimethylbenzene	ND		10.0	10.4		ug/L		104	70 - 130
Vinyl acetate	ND		10.0	8.21		ug/L		82	23 - 150
Vinyl chloride	ND		10.0	9.19		ug/L		92	50 - 137
m-Xylene & p-Xylene	0.61	J	10.0	11.1		ug/L		105	70 - 133
Ethylene Dibromide	ND		10.0	10.2		ug/L		102	70 - 131
o-Xylene	0.91		10.0	11.2		ug/L		103	70 - 133
2-Butanone (MEK)	ND		10.0	10.2		ug/L		102	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.26		ug/L		83	52 - 150
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91071-A-1 MSD
Matrix: Water
Analysis Batch: 528098

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		10.0	11.0	J	ug/L		110	10 - 150	2	35
2-Chlorotoluene	ND		10.0	9.67		ug/L		97	70 - 130	2	20
1,2-Dichlorobenzene	ND		10.0	10.0		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
4-Chlorotoluene	ND		10.0	9.72		ug/L		97	70 - 130	5	20
1,4-Dichlorobenzene	ND		10.0	10.0		ug/L		100	70 - 130	3	20
1,3-Dichloropropane	ND		10.0	9.52		ug/L		95	70 - 130	3	25
Benzene	1.5		10.0	11.2		ug/L		97	66 - 130	1	20
1,1-Dichloropropene	ND		10.0	10.2		ug/L		102	64 - 130	0	20
Bromobenzene	ND		10.0	9.95		ug/L		99	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		10.0	9.67		ug/L		97	48 - 140	10	30
Bromoform	ND		10.0	9.32		ug/L		93	59 - 150	3	25
Bromomethane	ND		10.0	9.87		ug/L		99	62 - 131	1	25
Carbon disulfide	ND		10.0	9.63		ug/L		96	49 - 140	2	20
Carbon tetrachloride	ND		10.0	10.1		ug/L		101	60 - 150	0	25
1,1-Dichloroethane	ND		10.0	9.50		ug/L		95	65 - 130	2	20
Chlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	4	20
1,2-Dichloroethane	ND		10.0	9.11		ug/L		91	56 - 146	1	20
Chlorobromomethane	ND		10.0	10.4		ug/L		104	70 - 130	1	25
1,1-Dichloroethene	ND		10.0	10.7		ug/L		107	70 - 130	2	20
Chloroethane	ND		10.0	9.16		ug/L		92	68 - 130	3	25
Chloroform	ND		10.0	9.90		ug/L		99	70 - 130	1	20
Chloromethane	ND		10.0	7.43		ug/L		74	39 - 144	1	25
1,2-Dichloropropane	ND		10.0	9.60		ug/L		96	69 - 130	1	20
cis-1,2-Dichloroethene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
cis-1,3-Dichloropropene	ND		10.0	9.33		ug/L		93	70 - 133	1	20
Chlorodibromomethane	ND		10.0	9.69		ug/L		97	70 - 148	1	25
Dibromomethane	ND		10.0	9.91		ug/L		99	70 - 130	1	25
Dichlorobromomethane	ND		10.0	9.20		ug/L		92	70 - 138	0	20
2-Hexanone	ND		10.0	8.98		ug/L		90	10 - 150	7	35
Dichlorodifluoromethane	ND		10.0	8.10		ug/L		81	25 - 142	3	30
Ethylbenzene	ND		10.0	9.87		ug/L		99	70 - 130	4	20
4-Isopropyltoluene	0.26	J	10.0	10.8		ug/L		105	70 - 130	3	20
Hexachlorobutadiene	ND		10.0	10.7		ug/L		107	10 - 150	1	20
Isopropylbenzene	0.48	J	10.0	10.5		ug/L		100	70 - 132	1	20
Methylene Chloride	ND		10.0	8.67		ug/L		87	52 - 130	3	20
Methyl tert-butyl ether	1.3		10.0	10.4		ug/L		91	70 - 130	0	25
Naphthalene	2.1		10.0	12.2		ug/L		101	60 - 140	0	30
1,1,1,2-Tetrachloroethane	ND		10.0	9.53		ug/L		95	60 - 149	3	20
n-Butylbenzene	ND		10.0	10.4		ug/L		104	61 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		10.0	9.86		ug/L		99	63 - 130	1	30
N-Propylbenzene	0.35	J	10.0	10.0		ug/L		97	66 - 135	3	20
sec-Butylbenzene	ND		10.0	10.3		ug/L		103	67 - 134	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-91071-A-1 MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 528098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	ND		10.0	10.4		ug/L		104	60 - 140	1	20
Styrene	ND		10.0	9.12		ug/L		91	29 - 150	4	35
1,2,4-Trichlorobenzene	ND		10.0	10.6		ug/L		106	60 - 140	1	20
tert-Butylbenzene	ND		10.0	10.7		ug/L		107	70 - 130	1	20
1,1,1-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	0	20
Tetrachloroethene	ND		10.0	10.4		ug/L		104	70 - 137	6	20
1,1,2-Trichloroethane	ND		10.0	9.72		ug/L		97	70 - 130	4	25
Toluene	0.53		10.0	9.82		ug/L		93	70 - 130	3	20
trans-1,2-Dichloroethene	ND		10.0	10.6		ug/L		106	70 - 130	2	20
1,2,3-Trichloropropane	ND		10.0	11.0		ug/L		110	60 - 130	1	30
trans-1,3-Dichloropropene	ND		10.0	9.00		ug/L		90	70 - 138	2	25
Trichloroethene	ND		10.0	10.8		ug/L		108	70 - 130	3	20
1,2,4-Trimethylbenzene	0.83		10.0	10.6		ug/L		98	70 - 130	1	25
Trichlorofluoromethane	ND		10.0	10.8		ug/L		108	60 - 150	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	11.0		ug/L		110	60 - 140	1	20
1,3,5-Trimethylbenzene	ND		10.0	10.2		ug/L		102	70 - 130	2	20
Vinyl acetate	ND		10.0	8.26		ug/L		83	23 - 150	1	30
Vinyl chloride	ND		10.0	9.07		ug/L		91	50 - 137	1	30
m-Xylene & p-Xylene	0.61	J	10.0	10.7		ug/L		101	70 - 133	4	25
Ethylene Dibromide	ND		10.0	9.77		ug/L		98	70 - 131	5	25
o-Xylene	0.91		10.0	10.9		ug/L		100	70 - 133	3	20
2-Butanone (MEK)	ND		10.0	8.76		ug/L		88	48 - 140	15	40
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.15		ug/L		82	52 - 150	1	35
2,2-Dichloropropane	ND		10.0	10.0		ug/L		100	69 - 138	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-527267/5 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 527267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/07/19 09:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*02/07/19 09:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*		*02/07/19 09:31*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*		*02/07/19 09:31*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-527267/11
Matrix: Solid
Analysis Batch: 527267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	784		ug/Kg		78	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-527267/12
Matrix: Solid
Analysis Batch: 527267

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	747		ug/Kg		75	60 - 135	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: MB 440-527269/5
Matrix: Solid
Analysis Batch: 527269

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		10000	7000	ug/Kg			02/07/19 08:54	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*55 - 140*		*02/07/19 08:54*	*100*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*		*02/07/19 08:54*	*100*
Toluene-d8 (Surr)	*97*		*60 - 140*		*02/07/19 08:54*	*100*

Lab Sample ID: LCS 440-527269/8
Matrix: Solid
Analysis Batch: 527269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			50000	47300		ug/Kg		95	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*55 - 140*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 440-527269/9 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527269

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			50000	49700		ug/Kg		99	60 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*55 - 140*
4-Bromofluorobenzene (Surr)	*95*		*65 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 440-527462/4 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/07/19 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*02/07/19 19:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*		*02/07/19 19:41*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*		*02/07/19 19:41*	*1*

Lab Sample ID: LCS 440-527462/7 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527462

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			1000	749		ug/Kg		75	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-527462/8 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527462

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	729		ug/Kg		73	60 - 135	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*60 - 120*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-527526/4
Matrix: Solid
Analysis Batch: 527526

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/08/19 08:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*02/08/19 08:11*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*02/08/19 08:11*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*02/08/19 08:11*	*1*

Lab Sample ID: LCS 440-527526/6
Matrix: Solid
Analysis Batch: 527526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	785		ug/Kg		78	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: 440-232576-B-8-C MS
Matrix: Solid
Analysis Batch: 527526

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 527574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1000	1040		ug/Kg		104	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: 440-232576-C-8-A MSD
Matrix: Solid
Analysis Batch: 527526

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 527574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1210	1190		ug/Kg		98	55 - 140	14	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Toluene-d8 (Surr)	*93*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-528117/5
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/12/19 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/12/19 08:31*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/12/19 08:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/12/19 08:31*	*1*

Lab Sample ID: LCS 440-528117/7
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	442		ug/L		88	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 720-91071-A-1 MS
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	87		690	770		ug/L		99	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 720-91071-A-1 MSD
Matrix: Water
Analysis Batch: 528117

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	87		690	757		ug/L		97	50 - 145	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-259737/1-A
Matrix: Solid
Analysis Batch: 259858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Acenaphthene	ND		5.0	2.8	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Anthracene	ND		5.0	2.0	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Benzo[a]pyrene	2.26	J	5.0	1.9	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Benzo[b]fluoranthene	2.14	J	5.0	2.1	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Benzo[k]fluoranthene	2.28	J	5.0	2.1	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Chrysene	ND		5.0	1.4	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Dibenz(a,h)anthracene	ND		5.0	3.5	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Fluoranthene	ND		5.0	1.4	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Fluorene	ND		5.0	2.2	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Indeno[1,2,3-cd]pyrene	ND		5.0	4.2	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Naphthalene	ND		5.0	3.5	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Phenanthrene	ND		5.0	1.8	ug/Kg		02/04/19 09:55	02/06/19 01:57	1
Pyrene	ND		5.0	1.7	ug/Kg		02/04/19 09:55	02/06/19 01:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*33 - 120*	*02/04/19 09:55*	*02/06/19 01:57*	*1*
Terphenyl-d14	*120*		*35 - 146*	*02/04/19 09:55*	*02/06/19 01:57*	*1*

Lab Sample ID: LCS 720-259737/2-A
Matrix: Solid
Analysis Batch: 259858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	575		ug/Kg		86	38 - 110
Acenaphthene	667	528		ug/Kg		79	37 - 106
Acenaphthylene	667	579		ug/Kg		87	38 - 102
Anthracene	667	594		ug/Kg		89	43 - 103
Benzo[a]anthracene	667	730		ug/Kg		109	49 - 117
Benzo[a]pyrene	667	707		ug/Kg		106	49 - 118
Benzo[b]fluoranthene	667	681		ug/Kg		102	50 - 115
Benzo[g,h,i]perylene	667	692		ug/Kg		104	39 - 122
Benzo[k]fluoranthene	667	697		ug/Kg		105	45 - 115
Chrysene	667	803		ug/Kg		120	39 - 123
Dibenz(a,h)anthracene	667	660		ug/Kg		99	43 - 121
Fluoranthene	667	657		ug/Kg		99	47 - 109
Fluorene	667	580		ug/Kg		87	40 - 106
Indeno[1,2,3-cd]pyrene	667	672		ug/Kg		101	43 - 120
Naphthalene	667	546		ug/Kg		82	35 - 110
Phenanthrene	667	527		ug/Kg		79	42 - 110
Pyrene	667	707		ug/Kg		106	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*33 - 120*
Terphenyl-d14	*118*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: 720-91134-4 MS
Matrix: Solid
Analysis Batch: 259976

Client Sample ID: DG-AV9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259737

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	60	J	634	444		ug/Kg		60	46 - 110
Acenaphthene	40	J	634	437		ug/Kg		63	46 - 106
Acenaphthylene	30	J	634	440		ug/Kg		65	46 - 108
Anthracene	74		634	481		ug/Kg		64	55 - 103
Benzo[a]anthracene	170		634	756		ug/Kg		92	54 - 110
Benzo[a]pyrene	230	B	634	833		ug/Kg		95	62 - 111
Benzo[b]fluoranthene	330	B	634	1010		ug/Kg		107	60 - 109
Benzo[g,h,i]perylene	140	F1	634	457	F1	ug/Kg		49	52 - 114
Benzo[k]fluoranthene	110	B	634	697		ug/Kg		92	58 - 109
Chrysene	220		634	707		ug/Kg		76	54 - 108
Dibenz(a,h)anthracene	54	F1	634	362	F1	ug/Kg		49	58 - 112
Fluoranthene	240		634	724		ug/Kg		76	59 - 109
Fluorene	54		634	464		ug/Kg		65	52 - 106
Indeno[1,2,3-cd]pyrene	120	F1	634	453	F1	ug/Kg		53	55 - 120
Naphthalene	110		634	458		ug/Kg		54	49 - 110
Phenanthrene	230	F1	634	538	F1	ug/Kg		48	57 - 110
Pyrene	370		634	872		ug/Kg		79	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*33 - 120*
Terphenyl-d14	*101*		*35 - 146*

Lab Sample ID: 720-91134-4 MSD
Matrix: Solid
Analysis Batch: 259976

Client Sample ID: DG-AV9S-0.5-1
Prep Type: Total/NA
Prep Batch: 259737

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	60	J	634	478		ug/Kg		66	46 - 110	8	35
Acenaphthene	40	J	634	451		ug/Kg		65	46 - 106	3	35
Acenaphthylene	30	J	634	447		ug/Kg		66	46 - 108	2	35
Anthracene	74		634	483		ug/Kg		65	55 - 103	1	35
Benzo[a]anthracene	170		634	774		ug/Kg		95	54 - 110	2	35
Benzo[a]pyrene	230	B	634	843		ug/Kg		97	62 - 111	1	35
Benzo[b]fluoranthene	330	B	634	1010		ug/Kg		107	60 - 109	0	35
Benzo[g,h,i]perylene	140	F1	634	455	F1	ug/Kg		49	52 - 114	0	35
Benzo[k]fluoranthene	110	B	634	703		ug/Kg		93	58 - 109	1	35
Chrysene	220		634	727		ug/Kg		80	54 - 108	3	35
Dibenz(a,h)anthracene	54	F1	634	355	F1	ug/Kg		48	58 - 112	2	35
Fluoranthene	240		634	767		ug/Kg		83	59 - 109	6	35
Fluorene	54		634	468		ug/Kg		65	52 - 106	1	35
Indeno[1,2,3-cd]pyrene	120	F1	634	450	F1	ug/Kg		52	55 - 120	1	35
Naphthalene	110		634	536		ug/Kg		67	49 - 110	16	35
Phenanthrene	230	F1	634	558	F1	ug/Kg		51	57 - 110	4	35
Pyrene	370		634	1000		ug/Kg		100	50 - 120	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*33 - 120*
Terphenyl-d14	*98*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 720-259745/1-A
Matrix: Solid
Analysis Batch: 259976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	5.0	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Acenaphthene	ND		5.0	2.8	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Acenaphthylene	ND		5.0	2.4	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Anthracene	ND		5.0	2.0	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Benzo[a]pyrene	3.33	J	5.0	1.9	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Benzo[b]fluoranthene	2.93	J	5.0	2.1	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Benzo[g,h,i]perylene	ND		5.0	4.3	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Benzo[k]fluoranthene	3.07	J	5.0	2.1	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Chrysene	ND		5.0	1.4	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Dibenz(a,h)anthracene	4.39	J	5.0	3.5	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Fluoranthene	ND		5.0	1.4	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Fluorene	ND		5.0	2.2	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Indeno[1,2,3-cd]pyrene	4.29	J	5.0	4.2	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Naphthalene	ND		5.0	3.5	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Phenanthrene	ND		5.0	1.8	ug/Kg		02/04/19 10:47	02/07/19 16:44	1
Pyrene	1.75	J	5.0	1.7	ug/Kg		02/04/19 10:47	02/07/19 16:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*02/04/19 10:47*	*02/07/19 16:44*	*1*
Terphenyl-d14	*113*		*35 - 146*	*02/04/19 10:47*	*02/07/19 16:44*	*1*

Lab Sample ID: LCS 720-259745/2-A
Matrix: Solid
Analysis Batch: 259976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	550		ug/Kg		83	38 - 110
Acenaphthene	667	513		ug/Kg		77	37 - 106
Acenaphthylene	667	560		ug/Kg		84	38 - 102
Anthracene	667	541		ug/Kg		81	43 - 103
Benzo[a]anthracene	667	667		ug/Kg		100	49 - 117
Benzo[a]pyrene	667	633		ug/Kg		95	49 - 118
Benzo[b]fluoranthene	667	635		ug/Kg		95	50 - 115
Benzo[g,h,i]perylene	667	584		ug/Kg		88	39 - 122
Benzo[k]fluoranthene	667	617		ug/Kg		93	45 - 115
Chrysene	667	701		ug/Kg		105	39 - 123
Dibenz(a,h)anthracene	667	531		ug/Kg		80	43 - 121
Fluoranthene	667	589		ug/Kg		88	47 - 109
Fluorene	667	556		ug/Kg		83	40 - 106
Indeno[1,2,3-cd]pyrene	667	556		ug/Kg		83	43 - 120
Naphthalene	667	528		ug/Kg		79	35 - 110
Phenanthrene	667	484		ug/Kg		73	42 - 110
Pyrene	667	695		ug/Kg		104	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*33 - 120*
Terphenyl-d14	*116*		*35 - 146*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: 720-91134-3 MS **Client Sample ID: DG-AD13S-7.5-8**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260008 **Prep Batch: 259745**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	2400	F2 F1	643	1910	F1	ug/Kg		-74	46 - 110
Acenaphthene	860	J F1	643	1650	F1	ug/Kg		123	46 - 106
Acenaphthylene	ND	F1	643	793	J F1	ug/Kg		123	46 - 108
Anthracene	1500	F1	643	2340	F1	ug/Kg		130	55 - 103
Benzo[a]anthracene	1100	F1	643	2130	F1	ug/Kg		160	54 - 110
Benzo[a]pyrene	1000	B F1	643	1940	F1	ug/Kg		146	62 - 111
Benzo[b]fluoranthene	730	J B F1	643	1610	F1	ug/Kg		137	60 - 109
Benzo[g,h,i]perylene	ND		643	1740		ug/Kg		NC	52 - 114
Benzo[k]fluoranthene	520	J F1 B	643	981		ug/Kg		72	58 - 109
Chrysene	1700	F1	643	3170	F1	ug/Kg		233	54 - 108
Dibenz(a,h)anthracene	ND		643	1430		ug/Kg		NC	58 - 112
Fluoranthene	810	J	643	1450		ug/Kg		100	59 - 109
Fluorene	1700	F1	643	2570	F1	ug/Kg		143	52 - 106
Indeno[1,2,3-cd]pyrene	ND		643	1490		ug/Kg		NC	55 - 120
Naphthalene	1100	F2 F1	643	1190	F1	ug/Kg		19	49 - 110
Phenanthrene	3800		643	4490	4	ug/Kg		114	57 - 110
Pyrene	4200	B	643	6910	4	ug/Kg		423	50 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*0*	*X*	*33 - 120*
Terphenyl-d14	*0*	*X*	*35 - 146*

Lab Sample ID: 720-91134-3 MSD **Client Sample ID: DG-AD13S-7.5-8**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260008 **Prep Batch: 259745**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	2400	F2 F1	641	4350	F1 F2	ug/Kg		307	46 - 110	78	35
Acenaphthene	860	J F1	641	1600	F1	ug/Kg		117	46 - 106	3	35
Acenaphthylene	ND	F1	641	839	J F1	ug/Kg		131	46 - 108	6	35
Anthracene	1500	F1	641	2410	F1	ug/Kg		143	55 - 103	3	35
Benzo[a]anthracene	1100	F1	641	1890	F1	ug/Kg		123	54 - 110	12	35
Benzo[a]pyrene	1000	B F1	641	1690		ug/Kg		108	62 - 111	14	35
Benzo[b]fluoranthene	730	J B F1	641	1350		ug/Kg		96	60 - 109	18	35
Benzo[g,h,i]perylene	ND		641	1330		ug/Kg		NC	52 - 114	27	35
Benzo[k]fluoranthene	520	J F1 B	641	857	J F1	ug/Kg		52	58 - 109	14	35
Chrysene	1700	F1	641	2970	F1	ug/Kg		201	54 - 108	7	35
Dibenz(a,h)anthracene	ND		641	1070		ug/Kg		NC	58 - 112	28	35
Fluoranthene	810	J	641	1350		ug/Kg		85	59 - 109	7	35
Fluorene	1700	F1	641	2760	F1	ug/Kg		173	52 - 106	7	35
Indeno[1,2,3-cd]pyrene	ND		641	1110		ug/Kg		NC	55 - 120	30	35
Naphthalene	1100	F2 F1	641	2100	F1 F2	ug/Kg		162	49 - 110	56	35
Phenanthrene	3800		641	6080	4	ug/Kg		363	57 - 110	30	35
Pyrene	4200	B	641	5950	4	ug/Kg		275	50 - 120	15	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*0*	*X*	*33 - 120*
Terphenyl-d14	*0*	*X*	*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-259742/1-A
Matrix: Solid
Analysis Batch: 259872

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		02/04/19 10:34	02/07/19 00:12	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		02/04/19 10:34	02/07/19 00:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*109*		*40 - 130*	*02/04/19 10:34*	*02/07/19 00:12*	*1*

Lab Sample ID: LCS 720-259742/2-A
Matrix: Solid
Analysis Batch: 259872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	167	177		mg/Kg		106	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*123*		*40 - 130*

Lab Sample ID: 720-91134-1 MS
Matrix: Solid
Analysis Batch: 259948

Client Sample ID: DG-AD13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	390		160	619		mg/Kg		141	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Lab Sample ID: 720-91134-1 MSD
Matrix: Solid
Analysis Batch: 259948

Client Sample ID: DG-AD13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	390		162	525		mg/Kg		81	50 - 150	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-259743/1-A
Matrix: Solid
Analysis Batch: 259940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259743

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		02/05/19 10:29	02/07/19 14:34	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-259743/1-A
Matrix: Solid
Analysis Batch: 259940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259743

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	ND		2.0	0.41	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Aldrin	ND		2.0	0.50	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
alpha-BHC	ND		2.0	0.55	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Chlordane (technical)	ND		40	3.2	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
delta-BHC	ND		2.0	0.44	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Dieldrin	ND		2.0	0.59	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Endosulfan II	ND		2.0	0.49	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Endrin	ND		2.0	0.46	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Heptachlor	ND		2.0	0.46	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Methoxychlor	ND		2.0	0.68	ug/Kg		02/05/19 10:29	02/07/19 14:34	1
Toxaphene	ND		40	6.8	ug/Kg		02/05/19 10:29	02/07/19 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*21 - 136*	*02/05/19 10:29*	*02/07/19 14:34*	*1*
Tetrachloro-m-xylene	*93*		*21 - 145*	*02/05/19 10:29*	*02/07/19 14:34*	*1*

Lab Sample ID: LCS 720-259743/2-A
Matrix: Solid
Analysis Batch: 259940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	17.4		ug/Kg		104	75 - 128
4,4'-DDE	16.7	17.1		ug/Kg		103	76 - 126
4,4'-DDT	16.7	16.9		ug/Kg		101	63 - 127
Aldrin	16.7	15.1		ug/Kg		90	65 - 120
alpha-BHC	16.7	14.8		ug/Kg		89	46 - 122
alpha-Chlordane	16.7	16.8		ug/Kg		101	70 - 120
beta-BHC	16.7	18.0		ug/Kg		108	78 - 136
delta-BHC	16.7	17.2		ug/Kg		103	43 - 125
Dieldrin	16.7	16.9		ug/Kg		101	72 - 120
Endosulfan I	16.7	17.1		ug/Kg		102	62 - 120
Endosulfan II	16.7	18.2		ug/Kg		109	65 - 120
Endosulfan sulfate	16.7	17.8		ug/Kg		107	72 - 121
Endrin	16.7	17.9		ug/Kg		108	68 - 120
Endrin aldehyde	16.7	18.7		ug/Kg		112	68 - 120
Endrin ketone	16.7	17.5		ug/Kg		105	75 - 136
gamma-BHC (Lindane)	16.7	15.7		ug/Kg		94	72 - 120
gamma-Chlordane	16.7	16.6		ug/Kg		100	68 - 120
Heptachlor	16.7	15.9		ug/Kg		96	69 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-259743/2-A
Matrix: Solid
Analysis Batch: 259940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	16.7	16.7		ug/Kg		100	68 - 120
Methoxychlor	16.7	18.6		ug/Kg		111	71 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*111*		*21 - 136*
Tetrachloro-m-xylene	*91*		*21 - 145*

Lab Sample ID: 720-91134-2 MS
Matrix: Solid
Analysis Batch: 259940

Client Sample ID: DG-AD13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259743

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F2	15.8	11.5		ug/Kg		73	40 - 120
4,4'-DDE	ND	F2	15.8	11.2		ug/Kg		71	40 - 120
4,4'-DDT	ND	F2	15.8	18.0		ug/Kg		114	17 - 144
Aldrin	ND	F2	15.8	10.6		ug/Kg		68	53 - 120
alpha-BHC	ND		15.8	11.9		ug/Kg		75	40 - 120
alpha-Chlordane	ND	F2	15.8	11.1		ug/Kg		71	40 - 120
beta-BHC	ND		15.8	10.2		ug/Kg		65	40 - 120
delta-BHC	ND	F2	15.8	9.99		ug/Kg		63	40 - 120
Dieldrin	ND	F2	15.8	9.60	p	ug/Kg		61	46 - 130
Endosulfan I	ND		15.8	13.8		ug/Kg		87	40 - 120
Endosulfan II	ND		15.8	13.0		ug/Kg		82	40 - 120
Endosulfan sulfate	ND	F1	15.8	4.78	J F1 p	ug/Kg		30	40 - 120
Endrin	ND		15.8	13.6		ug/Kg		86	32 - 143
Endrin aldehyde	ND		15.8	8.80	J	ug/Kg		56	40 - 120
Endrin ketone	ND		15.8	8.03	J	ug/Kg		51	40 - 120
gamma-BHC (Lindane)	ND		15.8	12.6		ug/Kg		80	58 - 120
gamma-Chlordane	ND	F1	15.8	13.9		ug/Kg		88	40 - 120
Heptachlor	ND		15.8	12.5		ug/Kg		79	52 - 120
Heptachlor epoxide	ND		15.8	11.7		ug/Kg		74	40 - 120
Methoxychlor	ND	F2	15.8	7.76	J p	ug/Kg		49	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*21 - 136*
Tetrachloro-m-xylene	*97*		*21 - 145*

Lab Sample ID: 720-91134-2 MSD
Matrix: Solid
Analysis Batch: 259940

Client Sample ID: DG-AD13S-3.5-4
Prep Type: Total/NA
Prep Batch: 259743

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F2	16.1	15.6	F2	ug/Kg		97	40 - 120	30	20
4,4'-DDE	ND	F2	16.1	13.5		ug/Kg		84	40 - 120	19	20
4,4'-DDT	ND	F2	16.1	13.2	F2	ug/Kg		82	17 - 144	31	20
Aldrin	ND	F2	16.1	13.9	F2	ug/Kg		86	53 - 120	26	20
alpha-BHC	ND		16.1	11.7		ug/Kg		73	40 - 120	1	20
alpha-Chlordane	ND	F2	16.1	14.9	F2	ug/Kg		92	40 - 120	29	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91134-2 MSD **Client Sample ID: DG-AD13S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259940 **Prep Batch: 259743**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
beta-BHC	ND		16.1	12.5		ug/Kg		77	40 - 120	20	20
delta-BHC	ND	F2	16.1	13.7	F2	ug/Kg		85	40 - 120	31	20
Dieldrin	ND	F2	16.1	12.0	p F2	ug/Kg		74	46 - 130	22	20
Endosulfan I	ND		16.1	12.7		ug/Kg		79	40 - 120	8	20
Endosulfan II	ND		16.1	15.6		ug/Kg		97	40 - 120	19	30
Endosulfan sulfate	ND	F1	16.1	5.87	J F1	ug/Kg		36	40 - 120	20	20
Endrin	ND		16.1	15.9		ug/Kg		99	32 - 143	16	20
Endrin aldehyde	ND		16.1	9.75	p	ug/Kg		60	40 - 120	10	20
Endrin ketone	ND		16.1	8.17	J	ug/Kg		51	40 - 120	2	20
gamma-BHC (Lindane)	ND		16.1	15.3		ug/Kg		95	58 - 120	19	20
gamma-Chlordane	ND	F1	16.1	16.5		ug/Kg		102	40 - 120	17	20
Heptachlor	ND		16.1	14.3		ug/Kg		89	52 - 120	14	20
Heptachlor epoxide	ND		16.1	12.8		ug/Kg		79	40 - 120	10	20
Methoxychlor	ND	F2	16.1	13.4	F2	ug/Kg		83	40 - 120	54	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*21 - 136*
Tetrachloro-m-xylene	*96*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-527643/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 527893 **Prep Batch: 527643**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1260	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*103*		*45 - 120*	*02/08/19 12:55*	*02/11/19 12:26*	*1*

Lab Sample ID: LCS 440-527643/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 527893 **Prep Batch: 527643**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	210		ug/Kg		79	65 - 115		
Aroclor 1260			267	238		ug/Kg		89	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-91191-B-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527893 — **Prep Batch: 527643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	217		ug/Kg		81	50 - 120
Aroclor 1260	ND		266	243		ug/Kg		91	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*

Lab Sample ID: 720-91191-B-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 527893 — **Prep Batch: 527643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	215		ug/Kg		81	50 - 120	1	30
Aroclor 1260	ND		266	233		ug/Kg		88	50 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259688/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260327 — **Prep Batch: 259688**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Arsenic	ND		1.0	0.085	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Barium	ND		0.50	0.071	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Beryllium	ND		0.10	0.033	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Cadmium	ND		0.13	0.012	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Chromium	ND		0.50	0.053	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Cobalt	ND		0.20	0.020	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Copper	ND		1.5	0.71	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Lead	0.250	J	0.50	0.11	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Nickel	ND		0.50	0.051	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Selenium	0.157	J	1.0	0.15	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Silver	0.0512	J	0.25	0.051	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Vanadium	ND		0.50	0.068	mg/Kg		02/01/19 16:39	02/13/19 16:01	1
Zinc	ND		1.5	0.64	mg/Kg		02/01/19 16:39	02/13/19 16:01	1

Lab Sample ID: MB 720-259688/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 262161 — **Prep Batch: 259688**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		2.0	0.58	mg/Kg		02/01/19 16:39	03/16/19 19:44	4

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259688/2-A
Matrix: Solid
Analysis Batch: 260327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.2		mg/Kg		90	80 - 120
Arsenic	50.0	46.7		mg/Kg		93	80 - 120
Barium	50.0	46.7		mg/Kg		93	80 - 120
Beryllium	50.0	46.8		mg/Kg		94	80 - 120
Cadmium	50.0	48.9		mg/Kg		98	80 - 120
Chromium	50.0	48.0		mg/Kg		96	80 - 120
Cobalt	50.0	49.0		mg/Kg		98	80 - 120
Copper	50.0	49.6		mg/Kg		99	80 - 120
Lead	50.0	50.3		mg/Kg		101	80 - 120
Molybdenum	50.0	49.0		mg/Kg		98	80 - 120
Nickel	50.0	49.4		mg/Kg		99	80 - 120
Selenium	50.0	48.5		mg/Kg		97	80 - 120
Silver	25.0	24.1		mg/Kg		97	80 - 120
Vanadium	50.0	49.1		mg/Kg		98	80 - 120
Zinc	50.0	50.4		mg/Kg		101	80 - 120

Lab Sample ID: LCS 720-259688/2-A
Matrix: Solid
Analysis Batch: 262161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	49.1		mg/Kg		98	80 - 120

Lab Sample ID: 720-91107-A-34-D MS
Matrix: Solid
Analysis Batch: 260327

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	6.2		45.5	42.3		mg/Kg		79	75 - 125
Arsenic	17	F1	45.5	78.7	F1	mg/Kg		137	75 - 125
Barium	370		45.5	465	4	mg/Kg		212	75 - 125
Beryllium	ND	F1	45.5	58.8	F1	mg/Kg		129	75 - 125
Cadmium	0.79	J F1	45.5	58.0	F1	mg/Kg		126	75 - 125
Chromium	19	F1	45.5	85.9	F1	mg/Kg		147	75 - 125
Cobalt	3.7	F1	45.5	61.9	F1	mg/Kg		128	75 - 125
Copper	220	F2	45.5	399	4	mg/Kg		400	75 - 125
Lead	960	B F2	45.5	1560	4	mg/Kg		1318	75 - 125
Molybdenum	ND		45.5	55.4		mg/Kg		122	75 - 125
Nickel	18	F1	45.5	84.6	F1	mg/Kg		147	75 - 125
Selenium	ND	F1	45.5	58.5	F1	mg/Kg		129	75 - 125
Silver	1.9	J B F1	22.7	32.5	F1	mg/Kg		135	75 - 125
Vanadium	20	F1	45.5	88.1	F1	mg/Kg		150	75 - 125
Zinc	660	F2	45.5	957	4	mg/Kg		649	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91107-A-34-D MS
Matrix: Solid
Analysis Batch: 262161

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		45.5	49.2		mg/Kg		108	75 - 125

Lab Sample ID: 720-91107-A-34-E MSD
Matrix: Solid
Analysis Batch: 260327

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	6.2		44.6	42.5		mg/Kg		81	75 - 125	1	20
Arsenic	17	F1	44.6	81.7	F1	mg/Kg		146	75 - 125	4	20
Barium	370		44.6	394	4	mg/Kg		57	75 - 125	16	20
Beryllium	ND	F1	44.6	56.5	F1	mg/Kg		127	75 - 125	4	20
Cadmium	0.79	J F1	44.6	55.5		mg/Kg		123	75 - 125	4	20
Chromium	19	F1	44.6	78.1	F1	mg/Kg		133	75 - 125	9	20
Cobalt	3.7	F1	44.6	59.8	F1	mg/Kg		126	75 - 125	3	20
Copper	220	F2	44.6	277	4 F2	mg/Kg		134	75 - 125	36	20
Lead	960	B F2	44.6	875	4 F2	mg/Kg		-198	75 - 125	56	20
Molybdenum	ND		44.6	53.1		mg/Kg		119	75 - 125	4	20
Nickel	18	F1	44.6	77.2	F1	mg/Kg		134	75 - 125	9	20
Selenium	ND	F1	44.6	57.9	F1	mg/Kg		130	75 - 125	1	20
Silver	1.9	J B F1	22.3	30.4	F1	mg/Kg		127	75 - 125	7	20
Vanadium	20	F1	44.6	85.5	F1	mg/Kg		147	75 - 125	3	20
Zinc	660	F2	44.6	759	4 F2	mg/Kg		216	75 - 125	23	20

Lab Sample ID: 720-91107-A-34-E MSD
Matrix: Solid
Analysis Batch: 262161

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	ND		44.6	50.2		mg/Kg		112	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259649/1-A
Matrix: Solid
Analysis Batch: 259814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/04/19 15:03	02/04/19 17:35	1

Lab Sample ID: LCS 720-259649/2-A
Matrix: Solid
Analysis Batch: 259814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259649

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury			0.833	0.810		mg/Kg		97	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91108-B-1-D MS
Matrix: Solid
Analysis Batch: 259814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.012	J	0.806	0.807		mg/Kg		99	75 - 125		

Lab Sample ID: 720-91108-B-1-E MSD
Matrix: Solid
Analysis Batch: 259814

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259649

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.012	J	0.781	0.784		mg/Kg		99	75 - 125	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91134-1 DU
Matrix: Solid
Analysis Batch: 259766

Client Sample ID: DG-AD13S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	20.6		19.8		%		4	20

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Prep Batch: 527132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	5035	
720-91134-12	DUP-93	Total/NA	Solid	5035	

Analysis Batch: 527266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	8260B	527332
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	8260B	527332
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	8260B	527332
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	8260B	527332
720-91134-7	DG-U13S-7.5-8	Total/NA	Solid	8260B	527332
720-91134-8	DG-AV5S-0.5-1	Total/NA	Solid	8260B	527332
720-91134-9	DG-AV5S-3.5-4	Total/NA	Solid	8260B	527332
720-91134-13	DG-AP5S-3.5-4	Total/NA	Solid	8260B	527332
720-91134-14	DG-AN5S-0.5-1	Total/NA	Solid	8260B	527332
720-91134-15	DG-AN5S-3.5-4	Total/NA	Solid	8260B	527332
MB 440-527266/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-527266/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-527266/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 527267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-7	DG-U13S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-8	DG-AV5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-9	DG-AV5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-13	DG-AP5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-14	DG-AN5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-15	DG-AN5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527332
MB 440-527267/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-527267/11	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-527267/12	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 527268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	8260B	527132
720-91134-12	DUP-93	Total/NA	Solid	8260B	527132
MB 440-527268/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-527268/6	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS VOA (Continued)

Analysis Batch: 527268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 440-527268/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 527269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	527132
720-91134-12	DUP-93	Total/NA	Solid	8260B/CA_LUFT MS	527132
MB 440-527269/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-527269/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-527269/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 527332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	5035	
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	5035	
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	5035	
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	5035	
720-91134-7	DG-U13S-7.5-8	Total/NA	Solid	5035	
720-91134-8	DG-AV5S-0.5-1	Total/NA	Solid	5035	
720-91134-9	DG-AV5S-3.5-4	Total/NA	Solid	5035	
720-91134-10	DG-AV5S-7.5-8	Total/NA	Solid	5035	
720-91134-11	DUP-35	Total/NA	Solid	5035	
720-91134-13	DG-AP5S-3.5-4	Total/NA	Solid	5035	
720-91134-14	DG-AN5S-0.5-1	Total/NA	Solid	5035	
720-91134-15	DG-AN5S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 527461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	8260B	527485
MB 440-527461/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-527461/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-527461/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 527462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	527485
MB 440-527462/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-527462/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-527462/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 527485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	5035	

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Analysis Batch: 527525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-10	DG-AV5S-7.5-8	Total/NA	Solid	8260B	527332
720-91134-11	DUP-35	Total/NA	Solid	8260B	527332
MB 440-527525/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-527525/5	Lab Control Sample	Total/NA	Solid	8260B	
440-232576-B-8-C MS	Matrix Spike	Total/NA	Solid	8260B	527574
440-232576-C-8-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	527574

Analysis Batch: 527526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-10	DG-AV5S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	527332
720-91134-11	DUP-35	Total/NA	Solid	8260B/CA_LUFT MS	527332
MB 440-527526/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-527526/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-232576-B-8-C MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	527574
440-232576-C-8-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	527574

Prep Batch: 527574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-232576-B-8-C MS	Matrix Spike	Total/NA	Solid	5035	
440-232576-C-8-A MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 528098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-16	TB-02.01.19	Total/NA	Water	8260B	
720-91134-17	FB-02.01.19	Total/NA	Water	8260B	
MB 440-528098/5	Method Blank	Total/NA	Water	8260B	
LCS 440-528098/6	Lab Control Sample	Total/NA	Water	8260B	
720-91071-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
720-91071-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-16	TB-02.01.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91134-17	FB-02.01.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528117/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528117/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-A-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
720-91071-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

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Prep Batch: 259737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	3546	
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	3546	
MB 720-259737/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259737/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91134-4 MS	DG-AV9S-0.5-1	Total/NA	Solid	3546	
720-91134-4 MSD	DG-AV9S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 259745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	3546	
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	3546	
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	3546	
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	3546	
720-91134-12	DUP-93	Total/NA	Solid	3546	
MB 720-259745/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259745/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91134-3 MS	DG-AD13S-7.5-8	Total/NA	Solid	3546	
720-91134-3 MSD	DG-AD13S-7.5-8	Total/NA	Solid	3546	

Analysis Batch: 259858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259737/1-A	Method Blank	Total/NA	Solid	8270C SIM	259737
LCS 720-259737/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259737

Analysis Batch: 259976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	8270C SIM	259737
MB 720-259745/1-A	Method Blank	Total/NA	Solid	8270C SIM	259745
LCS 720-259745/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	259745
720-91134-4 MS	DG-AV9S-0.5-1	Total/NA	Solid	8270C SIM	259737
720-91134-4 MSD	DG-AV9S-0.5-1	Total/NA	Solid	8270C SIM	259737

Analysis Batch: 260008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	8270C SIM	259745
720-91134-3 MS	DG-AD13S-7.5-8	Total/NA	Solid	8270C SIM	259745
720-91134-3 MSD	DG-AD13S-7.5-8	Total/NA	Solid	8270C SIM	259745

Analysis Batch: 260175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	8270C SIM	259737

Analysis Batch: 260399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	8270C SIM	259745
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	8270C SIM	259745
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	8270C SIM	259745
720-91134-12	DUP-93	Total/NA	Solid	8270C SIM	259745

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

GC Semi VOA

Prep Batch: 259742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	3546	
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	3546	
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	3546	
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	3546	
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	3546	
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	3546	
720-91134-12	DUP-93	Total/NA	Solid	3546	
MB 720-259742/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259742/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91134-1 MS	DG-AD13S-0.5-1	Total/NA	Solid	3546	
720-91134-1 MSD	DG-AD13S-0.5-1	Total/NA	Solid	3546	

Prep Batch: 259743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	3546	
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	3546	
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	3546	
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	3546	
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	3546	
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	3546	
720-91134-12	DUP-93	Total/NA	Solid	3546	
MB 720-259743/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259743/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91134-2 MS	DG-AD13S-3.5-4	Total/NA	Solid	3546	
720-91134-2 MSD	DG-AD13S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 259872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259742/1-A	Method Blank	Total/NA	Solid	8015B	259742
LCS 720-259742/2-A	Lab Control Sample	Total/NA	Solid	8015B	259742

Analysis Batch: 259940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	8081A	259743
MB 720-259743/1-A	Method Blank	Total/NA	Solid	8081A	259743
LCS 720-259743/2-A	Lab Control Sample	Total/NA	Solid	8081A	259743
720-91134-2 MS	DG-AD13S-3.5-4	Total/NA	Solid	8081A	259743
720-91134-2 MSD	DG-AD13S-3.5-4	Total/NA	Solid	8081A	259743

Analysis Batch: 259948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	8015B	259742
720-91134-1 MS	DG-AD13S-0.5-1	Total/NA	Solid	8015B	259742
720-91134-1 MSD	DG-AD13S-0.5-1	Total/NA	Solid	8015B	259742

Analysis Batch: 260333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	8015B	259742
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	8015B	259742
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	8015B	259742
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	8015B	259742

GC Semi VOA (Continued)

Analysis Batch: 260333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	8015B	259742
720-91134-12	DUP-93	Total/NA	Solid	8015B	259742

Analysis Batch: 260397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	8081A	259743
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	8081A	259743
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	8081A	259743
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	8081A	259743
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	8081A	259743
720-91134-12	DUP-93	Total/NA	Solid	8081A	259743

Prep Batch: 527643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	3546	
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	3546	
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	3546	
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	3546	
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	3546	
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	3546	
720-91134-12	DUP-93	Total/NA	Solid	3546	
MB 440-527643/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-527643/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91191-B-1-A MS	Matrix Spike	Total/NA	Solid	3546	
720-91191-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 527893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	8082	527643
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	8082	527643
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	8082	527643
MB 440-527643/1-A	Method Blank	Total/NA	Solid	8082	527643
LCS 440-527643/2-A	Lab Control Sample	Total/NA	Solid	8082	527643
720-91191-B-1-A MS	Matrix Spike	Total/NA	Solid	8082	527643
720-91191-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	527643

Analysis Batch: 528976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	8082	527643
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	8082	527643
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	8082	527643
720-91134-12	DUP-93	Total/NA	Solid	8082	527643

Metals

Prep Batch: 259649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	7471A	
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	7471A	
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	7471A	
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	7471A	
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	7471A	
720-91134-12	DUP-93	Total/NA	Solid	7471A	
MB 720-259649/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259649/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91108-B-1-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-91108-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	3050B	
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	3050B	
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	3050B	
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	3050B	
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	3050B	
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	3050B	
720-91134-12	DUP-93	Total/NA	Solid	3050B	
MB 720-259688/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259688/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91107-A-34-D MS	Matrix Spike	Total/NA	Solid	3050B	
720-91107-A-34-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 259814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	7471A	259649
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	7471A	259649
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	7471A	259649
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	7471A	259649
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	7471A	259649
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	7471A	259649
720-91134-12	DUP-93	Total/NA	Solid	7471A	259649
MB 720-259649/1-A	Method Blank	Total/NA	Solid	7471A	259649
LCS 720-259649/2-A	Lab Control Sample	Total/NA	Solid	7471A	259649
720-91108-B-1-D MS	Matrix Spike	Total/NA	Solid	7471A	259649
720-91108-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259649

Analysis Batch: 260327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	6010B	259688
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	6010B	259688
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	6010B	259688
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	6010B	259688
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	6010B	259688
720-91134-12	DUP-93	Total/NA	Solid	6010B	259688
MB 720-259688/1-A	Method Blank	Total/NA	Solid	6010B	259688
LCS 720-259688/2-A	Lab Control Sample	Total/NA	Solid	6010B	259688
720-91107-A-34-D MS	Matrix Spike	Total/NA	Solid	6010B	259688
720-91107-A-34-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259688

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Metals

Analysis Batch: 260382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	6010B	259688
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	6010B	259688

Analysis Batch: 260388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	6010B	259688
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	6010B	259688

Analysis Batch: 262161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	6010B	259688
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	6010B	259688
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	6010B	259688
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	6010B	259688
MB 720-259688/1-A	Method Blank	Total/NA	Solid	6010B	259688
LCS 720-259688/2-A	Lab Control Sample	Total/NA	Solid	6010B	259688
720-91107-A-34-D MS	Matrix Spike	Total/NA	Solid	6010B	259688
720-91107-A-34-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259688

Analysis Batch: 262854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-12	DUP-93	Total/NA	Solid	6010B	259688

General Chemistry

Analysis Batch: 259766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91134-1	DG-AD13S-0.5-1	Total/NA	Solid	Moisture	
720-91134-2	DG-AD13S-3.5-4	Total/NA	Solid	Moisture	
720-91134-3	DG-AD13S-7.5-8	Total/NA	Solid	Moisture	
720-91134-4	DG-AV9S-0.5-1	Total/NA	Solid	Moisture	
720-91134-5	DG-AV9S-3.5-4	Total/NA	Solid	Moisture	
720-91134-6	DG-AV9S-8.5-9	Total/NA	Solid	Moisture	
720-91134-12	DUP-93	Total/NA	Solid	Moisture	
720-91134-1 DU	DG-AD13S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AD13S-0.5-1

Lab Sample ID: 720-91134-1

Date Collected: 02/01/19 10:15
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 14:02	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 14:02	OH1	TAL IRV
Total/NA	Prep	3546			259745	02/04/19 10:47	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		20	260399	02/15/19 05:18	MQL	TAL PLS
Total/NA	Prep	3546			259742	02/04/19 10:34	KLM	TAL PLS
Total/NA	Analysis	8015B		5	259948	02/07/19 11:24	JXL	TAL PLS
Total/NA	Prep	3546			259743	02/05/19 10:29	KLM	TAL PLS
Total/NA	Analysis	8081A		2	260397	02/15/19 08:52	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	527893	02/11/19 15:33	JM	TAL IRV
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262161	03/16/19 21:29	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 17:36	OBI	TAL PLS
Total/NA	Prep	7471A			259649	02/04/19 15:03	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259814	02/04/19 18:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259766	02/04/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AD13S-3.5-4

Lab Sample ID: 720-91134-2

Date Collected: 02/01/19 10:15
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 14:27	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 14:27	OH1	TAL IRV
Total/NA	Prep	3546			259745	02/04/19 10:47	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		50	260399	02/15/19 05:42	MQL	TAL PLS
Total/NA	Prep	3546			259742	02/04/19 10:34	KLM	TAL PLS
Total/NA	Analysis	8015B		50	260333	02/14/19 20:18	JXL	TAL PLS
Total/NA	Prep	3546			259743	02/05/19 10:29	KLM	TAL PLS
Total/NA	Analysis	8081A		5	259940	02/07/19 17:14	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	527893	02/11/19 15:46	JM	TAL IRV
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262161	03/16/19 21:34	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 17:41	OBI	TAL PLS
Total/NA	Prep	7471A			259649	02/04/19 15:03	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259814	02/04/19 18:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259766	02/04/19 15:42	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AD13S-7.5-8

Lab Sample ID: 720-91134-3

Date Collected: 02/01/19 10:15
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527132	02/06/19 14:17	JB	TAL IRV
Total/NA	Analysis	8260B		500	527268	02/07/19 17:50	AYL	TAL IRV
Total/NA	Prep	5035			527132	02/06/19 14:17	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		500	527269	02/07/19 17:50	AYL	TAL IRV
Total/NA	Prep	3546			259745	02/04/19 10:47	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		200	260008	02/08/19 04:04	LPL	TAL PLS
Total/NA	Prep	3546			259742	02/04/19 10:34	KLM	TAL PLS
Total/NA	Analysis	8015B		100	260333	02/14/19 20:48	JXL	TAL PLS
Total/NA	Prep	3546			259743	02/05/19 10:29	KLM	TAL PLS
Total/NA	Analysis	8081A		10	260397	02/15/19 09:08	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	528976	02/15/19 14:11	JM	TAL IRV
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262161	03/16/19 21:39	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 17:57	OBI	TAL PLS
Total/NA	Prep	7471A			259649	02/04/19 15:03	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259814	02/04/19 18:17	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259766	02/04/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AV9S-0.5-1

Lab Sample ID: 720-91134-4

Date Collected: 02/01/19 12:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B		1	527461	02/07/19 21:45	GK	TAL IRV
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527462	02/07/19 21:45	GK	TAL IRV
Total/NA	Prep	3546			259737	02/04/19 09:55	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		10	259976	02/07/19 19:51	LPL	TAL PLS
Total/NA	Prep	3546			259742	02/04/19 10:34	KLM	TAL PLS
Total/NA	Analysis	8015B		5	260333	02/14/19 21:18	JXL	TAL PLS
Total/NA	Prep	3546			259743	02/05/19 10:29	KLM	TAL PLS
Total/NA	Analysis	8081A		2	260397	02/15/19 11:20	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	528976	02/15/19 14:24	JM	TAL IRV
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260382	02/14/19 14:29	OBI	TAL PLS
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 18:01	OBI	TAL PLS
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260388	02/14/19 16:21	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AV9S-0.5-1
Lab Sample ID: 720-91134-4
Date Collected: 02/01/19 12:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259649	02/04/19 15:03	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259814	02/04/19 18:19	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259766	02/04/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AV9S-3.5-4
Lab Sample ID: 720-91134-5
Date Collected: 02/01/19 12:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 15:16	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 15:16	OH1	TAL IRV
Total/NA	Prep	3546			259737	02/04/19 09:55	JNG	TAL PLS
Total/NA	Analysis	8270C SIM		4	260175	02/12/19 03:09	LPL	TAL PLS
Total/NA	Prep	3546			259742	02/04/19 10:34	KLM	TAL PLS
Total/NA	Analysis	8015B		2	260333	02/14/19 17:21	JXL	TAL PLS
Total/NA	Prep	3546			259743	02/05/19 10:29	KLM	TAL PLS
Total/NA	Analysis	8081A		1	260397	02/15/19 11:04	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	528976	02/15/19 13:44	JM	TAL IRV
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		10	262161	03/16/19 21:58	BKR	TAL PLS
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260327	02/13/19 18:06	OBI	TAL PLS
Total/NA	Prep	7471A			259649	02/04/19 15:03	GLL	TAL PLS
Total/NA	Analysis	7471A		4	259814	02/04/19 18:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259766	02/04/19 15:42	TNL	TAL PLS

Client Sample ID: DG-AV9S-8.5-9
Lab Sample ID: 720-91134-6
Date Collected: 02/01/19 12:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 15:41	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 15:41	OH1	TAL IRV
Total/NA	Prep	3546			259745	02/04/19 10:47	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		2	260399	02/15/19 04:55	MQL	TAL PLS
Total/NA	Prep	3546			259742	02/04/19 10:34	KLM	TAL PLS
Total/NA	Analysis	8015B		1	260333	02/14/19 18:50	JXL	TAL PLS
Total/NA	Prep	3546			259743	02/05/19 10:29	KLM	TAL PLS
Total/NA	Analysis	8081A		1	260397	02/15/19 09:57	JZT	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV9S-8.5-9

Lab Sample ID: 720-91134-6

Date Collected: 02/01/19 12:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	527893	02/11/19 15:20	JM	TAL IRV
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260382	02/14/19 14:34	OBI	TAL PLS
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260388	02/14/19 16:26	OBI	TAL PLS
Total/NA	Prep	7471A			259649	02/04/19 15:03	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259814	02/04/19 18:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259766	02/04/19 15:42	TNL	TAL PLS

Client Sample ID: DG-U13S-7.5-8

Lab Sample ID: 720-91134-7

Date Collected: 02/01/19 08:50
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 16:06	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 16:06	OH1	TAL IRV

Client Sample ID: DG-AV5S-0.5-1

Lab Sample ID: 720-91134-8

Date Collected: 02/01/19 12:40
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 16:30	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 16:30	OH1	TAL IRV

Client Sample ID: DG-AV5S-3.5-4

Lab Sample ID: 720-91134-9

Date Collected: 02/01/19 12:40
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 16:55	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 16:55	OH1	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91134-1

Client Sample ID: DG-AV5S-7.5-8

Lab Sample ID: 720-91134-10
Date Collected: 02/01/19 12:40
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527525	02/08/19 10:04	AYL	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527526	02/08/19 10:04	HR	TAL IRV

Client Sample ID: DUP-35

Lab Sample ID: 720-91134-11
Date Collected: 02/01/19 00:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527525	02/08/19 10:29	AYL	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527526	02/08/19 10:29	HR	TAL IRV

Client Sample ID: DUP-93

Lab Sample ID: 720-91134-12
Date Collected: 02/01/19 00:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527132	02/06/19 14:17	JB	TAL IRV
Total/NA	Analysis	8260B		400	527268	02/07/19 18:15	AYL	TAL IRV
Total/NA	Prep	5035			527132	02/06/19 14:17	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		400	527269	02/07/19 18:15	AYL	TAL IRV
Total/NA	Prep	3546			259745	02/04/19 10:47	KLM	TAL PLS
Total/NA	Analysis	8270C SIM		50	260399	02/15/19 06:05	MQL	TAL PLS
Total/NA	Prep	3546			259742	02/04/19 10:34	KLM	TAL PLS
Total/NA	Analysis	8015B		100	260333	02/14/19 21:48	JXL	TAL PLS
Total/NA	Prep	3546			259743	02/05/19 10:29	KLM	TAL PLS
Total/NA	Analysis	8081A		20	260397	02/15/19 10:13	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	528976	02/15/19 14:38	JM	TAL IRV
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		4	262854	03/29/19 10:08	OBI	TAL PLS
Total/NA	Prep	3050B			259688	02/02/19 09:10	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260327	02/13/19 18:16	OBI	TAL PLS
Total/NA	Prep	7471A			259649	02/04/19 15:03	GLL	TAL PLS
Total/NA	Analysis	7471A		1	259814	02/04/19 18:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259766	02/04/19 15:42	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AP5S-3.5-4 — Lab Sample ID: 720-91134-13

Date Collected: 02/01/19 13:10 — **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 17:20	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 17:20	OH1	TAL IRV

Client Sample ID: DG-AN5S-0.5-1 — Lab Sample ID: 720-91134-14

Date Collected: 02/01/19 13:30 — **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 17:44	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 17:44	OH1	TAL IRV

Client Sample ID: DG-AN5S-3.5-4 — Lab Sample ID: 720-91134-15

Date Collected: 02/01/19 13:30 — **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B		1	527266	02/07/19 18:09	GMA	TAL IRV
Total/NA	Prep	5035			527332	02/01/19 17:00	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527267	02/07/19 18:09	OH1	TAL IRV

Client Sample ID: TB-02.01.19 — Lab Sample ID: 720-91134-16

Date Collected: 02/01/19 00:00 — **Matrix: Water**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 16:08	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 16:08	DCI	TAL IRV

Client Sample ID: FB-02.01.19 — Lab Sample ID: 720-91134-17

Date Collected: 02/01/19 00:00 — **Matrix: Water**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528098	02/12/19 16:34	DCI	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528117	02/12/19 16:34	DCI	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3050B	Preparation, Metals	SW846	TAL PLS
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91134-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91134-1	DG-AD13S-0.5-1	Solid	02/01/19 10:15	02/01/19 16:42
720-91134-2	DG-AD13S-3.5-4	Solid	02/01/19 10:15	02/01/19 16:42
720-91134-3	DG-AD13S-7.5-8	Solid	02/01/19 10:15	02/01/19 16:42
720-91134-4	DG-AV9S-0.5-1	Solid	02/01/19 12:00	02/01/19 16:42
720-91134-5	DG-AV9S-3.5-4	Solid	02/01/19 12:00	02/01/19 16:42
720-91134-6	DG-AV9S-8.5-9	Solid	02/01/19 12:00	02/01/19 16:42
720-91134-7	DG-U13S-7.5-8	Solid	02/01/19 08:50	02/01/19 16:42
720-91134-8	DG-AV5S-0.5-1	Solid	02/01/19 12:40	02/01/19 16:42
720-91134-9	DG-AV5S-3.5-4	Solid	02/01/19 12:40	02/01/19 16:42
720-91134-10	DG-AV5S-7.5-8	Solid	02/01/19 12:40	02/01/19 16:42
720-91134-11	DUP-35	Solid	02/01/19 00:00	02/01/19 16:42
720-91134-12	DUP-93	Solid	02/01/19 00:00	02/01/19 16:42
720-91134-13	DG-AP5S-3.5-4	Solid	02/01/19 13:10	02/01/19 16:42
720-91134-14	DG-AN5S-0.5-1	Solid	02/01/19 13:30	02/01/19 16:42
720-91134-15	DG-AN5S-3.5-4	Solid	02/01/19 13:30	02/01/19 16:42
720-91134-16	TB-02.01.19	Water	02/01/19 00:00	02/01/19 16:42
720-91134-17	FB-02.01.19	Water	02/01/19 00:00	02/01/19 16:42

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Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: B190838
Received: 02/05/2019
Reported: 2/14/2019
Analyst: Candace Burrus

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-AD13S-0.5-1 (720-91134-1)	B13197	Yes	Chrysotile Amosite	0.25 <0.25
DG-AD13S-3.5-4 (720-91134-2)	B13198	No	None Detected	0.00
DG-AD13S-7.5-8 (720-91134-3)	B13199	No	None Detected	0.00
DG-AV9S-0.5-1 (720-91134-4)	B13200	No	None Detected	0.00
DG-AV9S-3.5-4 (720-91134-5)	B13201	No	None Detected	0.00
DG-AV9S-8.5-9 (720-91134-6)	B13202	No	None Detected	0.00
DUP-93 (720-91134-12)	B13203	No	None Detected	0.00

REVIEWED BY: _____

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

eurofins | CEI

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

B13116-B13 B13197-B13203 B190838 (84) (7)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41035.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91134-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/15/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-AD13S-0.5-1 (720-91134-1)	2/1/19	10:15 Pacific		Solid			X	1	
DG-AD13S-3.5-4 (720-91134-2)	2/1/19	10:15 Pacific		Solid			X	1	
DG-AD13S-7.5-8 (720-91134-3)	2/1/19	10:15 Pacific		Solid			X	1	
DG-AV9S-0.5-1 (720-91134-4)	2/1/19	12:00 Pacific		Solid			X	1	
DG-AV9S-3.5-4 (720-91134-5)	2/1/19	12:00 Pacific		Solid			X	1	
DG-AV9S-8.5-9 (720-91134-6)	2/1/19	12:00 Pacific		Solid			X	1	
DUP-93 (720-91134-12)	2/1/19	Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		2/4/19 1327	TRPS		2/5 9:20	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: eurofins | Accept Samples

KC

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-91134

Chain of Custody Record

188224

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Naomi Hernandez
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91134 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-AD13S-0.5-1	1 February 2019	1015	G	S	7	N		X	X	X	X	X	X	X	
2 DG-AD13S-3.5-4		1015						X	X	X	X	X	X	X	
3 DG-AD13S-7.5-8		1015						X	X	X	X	X	X	X	
4 DG-AV9S-0.5-1		1200						X	X	X	X	X	X	X	
5 DG-AV9S-3.5-4		1200						X	X	X	X	X	X	X	
6 DG-AV9S-8.5-9		1200						X	X	X	X	X	X	X	
7 DG-U13S-7.5-8		0850			4			X							
8 DG-AV5S-0.5-1		1240						X							
9 DG-AV5S-3.5-4		1240						X							
10 DG-AV5S-7.5-8		1240						X							
11 DUP-35		—						X							
12 DUP-93		—	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd: ____ Corr'd ____ Therm ID No. ____	
Relinquished by	Company Geosyntec	Date/Time 1 Feb. 2019	Received by Company TA-PLS Date/Time 2/1/19 1420
Relinquished by	Company TA-PLS	Date/Time 2/1/19 1642	Received by Company TA-PLS Date/Time 2/1/19 1642
Relinquished by	Company	Date/Time	Received in Laboratory by Company Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

3 2 —

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91134

Chain of Custody Record

1882224

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Naomi Hernandez
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
~~(NAF) DG-AP5s-3.5-4~~			G	S	1	N		X	X	X	X	X	X	X	
13 DG-AP5s-3,5-4	1 Feb 2019	1310	G	S	4			X							
14 DG-AN5s-0.5-1		1330	↓	↓	↓			X							
15 DG-AN5s-3.5-4		1330	↓	↓	↓			X							
16 TB-02.01.19		—			2			X							
17 FB-02.01.19	↓	—			2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No. (420)	Cooler Temp. (°C) Obs'd ____ Corr'd. ____	Therm ID No ____
Relinquished by	Company Geosyntec	Date/Time 1 Feb 2019	Received by	Company TAPLS	Date/Time 2/1/19 1420
Relinquished by	Company TAPLS	Date/Time 2/1/19 1642	Received by	Company TA-PLS	Date/Time 2/1/19 1642
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

3.2C

720-91134
GEOSYNTEC FRI.
TERRA CORES

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC04

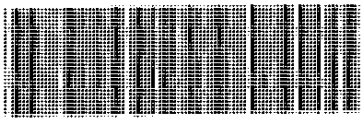
FedEx Express Package(s) - Dropped Off
478645743414

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Feb 01, 2019 2:49:42 PM



720-91134-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41036.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91134-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/13/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			Other:
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_T 8260(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_T 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AD13S-0.5-1 (720-91134-1)	2/1/19	10:15 Pacific		Solid			X	X	X				
DG-AD13S-3.5-4 (720-91134-2)	2/1/19	10:15 Pacific		Solid			X	X	X				
DG-AD13S-7.5-8 (720-91134-3)	2/1/19	10:15 Pacific		Solid			X	X	X				
DG-AV9S-0.5-1 (720-91134-4)	2/1/19	12:00 Pacific		Solid			X	X	X				
DG-AV9S-3.5-4 (720-91134-5)	2/1/19	12:00 Pacific		Solid			X	X	X				
DG-AV9S-8.5-9 (720-91134-6)	2/1/19	12:00 Pacific		Solid			X	X	X				
~~DG-U13S-7.5-8 (720-91134-7)~~	~~2/1/19~~	~~08:50 Pacific~~		~~Solid~~				X	X				
~~DG-AV5S-0.5-1 (720-91134-8)~~	~~2/1/19~~	~~12:40 Pacific~~		~~Solid~~				X	X				
~~DG-AV5S-3.5-4 (720-91134-9)~~	~~2/1/19~~	~~12:40 Pacific~~		~~Solid~~				X	X				

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by	Date/Time: 2/4/19 1420	Company: TAPS	Received by:
Relinquished by	Date/Time:	Company	Received by:
Relinquished by	Date/Time:	Company	Received by:

Date/Time	Company
Date/Time:	Company
2/5/19 1000	TA PLV

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.8 & 3.3 / 3.3

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41036.2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91134-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/13/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	82600_LL/5035A_F_FW_7 8260 (MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260 (MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X								
DG-AV5S-7.5-8 (720-91134-10)	2/1/19	12:40 Pacific		Solid				X	X				1	
DUP-95 (720-91134-11)	2/1/19	Pacific		Solid				X	X				1	
DUP-93 (720-91134-12)	2/1/19	Pacific		Solid			X	X	X				1	
DG-AP6S-3.5-4 (720-91134-13)	2/1/19	13:10 Pacific		Solid				X	X				1	
DG-AN5S-0.5-1 (720-91134-14)	2/1/19	13:30 Pacific		Solid				X	X				1	
DG-AN5S-3.5-4 (720-91134-15)	2/1/19	13:30 Pacific		Solid				X	X				1	
TB-02.01.19 (720-91134-16)	2/1/19	Pacific		Water						X	X		2	check for 2 phases
FB-02.01.19 (720-91134-17)	2/1/19	Pacific		Water						X	X		2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment		
Relinquished by:	Date/Time: 2/4/19 12:20	Company: TRPG	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time: 2/5/19 10:00	Company TA 112

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.88 3-3/3 3

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91134-1

Login Number: 91134
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91134-1

Login Number: 91134
List Number: 2
Creator: Avila, Stephanie 1

List Source: Eurofins TestAmerica, Irvine
List Creation: 02/02/19 12:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91134-1

Login Number: 91134
List Number: 3
Creator: Avila, Stephanie 1

List Source: Eurofins TestAmerica, Irvine
List Creation: 02/02/19 12:31 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/Kg)	Corrected Result * (mg/Kg)
720-91134-A-12-A	DUP-93	14	ND
720-91134-A-1-A	DG-AD13S-0.5-1	48	ND
720-91134-A-2-A	DG-AD13S-3.5-4	120	ND
720-91134-A-3-A	DG-AD13S-7.5-8	54	ND
720-91134-A-5-A	DG-AV9S-3.5-4	11	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your

regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa Brewer
Quality Assurance Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91135-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/23/2019 11:19:50 AM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91135-1

Job ID: 720-91135-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91135-1

Comments
No additional comments.

Receipt
The samples were received on 2/1/2019 4:42 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DG-AB16S-0.54. The container labels list DG-AB16S-0.5-1 , while the COC lists DG-AB16S-0.54. Logged using sample label sample ID.
The client was contacted, and the lab was instructed to login according to sample label.

Metals
Method 6010B: The method blank for preparation batch 720-259705 and analytical batch 720-260406 contained Arsenic above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259705 and analytical batch 720-260406 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260406 was outside control limits for Barium-60%, Nickel-50%, Lead-55%, & Vanadium-60%: (720-91135-A-1-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AB15S-0.5-1 (720-91135-1), DG-AB15S-3.5-4 (720-91135-2), DG-AB16S-0.5-1 (720-91135-3), DG-AB16S-3.5-4 (720-91135-4), DG-AD14S-0.5-1 (720-91135-5), DG-AD14S-3.5-4 (720-91135-6), DG-AI14S-0.5-1 (720-91135-7) and DG-AI14S-3.5-4 (720-91135-8). Elevated reporting limits (RLs) are provided.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259709 and analytical batch 720-260451 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91135-1

Client Sample ID: DG-AB15S-0.5-1 — Lab Sample ID: 720-91135-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5	F1	3.4	0.56	mg/Kg	10		6010B	Total/NA
Arsenic	4.7	J B	6.7	0.57	mg/Kg	10		6010B	Total/NA
Barium	90	F1	3.4	0.48	mg/Kg	10		6010B	Total/NA
Beryllium	0.32	J	0.67	0.22	mg/Kg	10		6010B	Total/NA
Cadmium	1.1		0.84	0.083	mg/Kg	10		6010B	Total/NA
Chromium	14		3.4	0.36	mg/Kg	10		6010B	Total/NA
Cobalt	5.3		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	110	F1 F2	10	4.8	mg/Kg	10		6010B	Total/NA
Lead	280		3.4	0.70	mg/Kg	10		6010B	Total/NA
Molybdenum	0.93	J	3.4	0.43	mg/Kg	10		6010B	Total/NA
Nickel	46		3.4	0.34	mg/Kg	10		6010B	Total/NA
Vanadium	56	F1	3.4	0.46	mg/Kg	10		6010B	Total/NA
Zinc	130	F1	10	4.3	mg/Kg	10		6010B	Total/NA
Mercury	0.51	F1	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB15S-3.5-4 — Lab Sample ID: 720-91135-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.78	J	1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	1.5	J B	2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	100		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.37		0.25	0.082	mg/Kg	4		6010B	Total/NA
Cadmium	0.067	J	0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	61		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.4		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	13		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	5.0		1.3	0.26	mg/Kg	4		6010B	Total/NA
Nickel	21		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	70		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	28		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.0088	J	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB16S-0.5-1 — Lab Sample ID: 720-91135-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.2	J	3.8	0.64	mg/Kg	10		6010B	Total/NA
Arsenic	3.5	J B	7.7	0.65	mg/Kg	10		6010B	Total/NA
Barium	63		3.8	0.55	mg/Kg	10		6010B	Total/NA
Beryllium	0.28	J	0.77	0.25	mg/Kg	10		6010B	Total/NA
Cadmium	0.41	J	0.96	0.095	mg/Kg	10		6010B	Total/NA
Chromium	13		3.8	0.41	mg/Kg	10		6010B	Total/NA
Cobalt	4.7		1.5	0.15	mg/Kg	10		6010B	Total/NA
Copper	100		12	5.5	mg/Kg	10		6010B	Total/NA
Lead	260		3.8	0.81	mg/Kg	10		6010B	Total/NA
Nickel	67		3.8	0.39	mg/Kg	10		6010B	Total/NA
Vanadium	69		3.8	0.52	mg/Kg	10		6010B	Total/NA
Zinc	85		12	4.9	mg/Kg	10		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AB16S-3.5-4 — Lab Sample ID: 720-91135-4

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB16S-3.5-4 (Continued) — Lab Sample ID: 720-91135-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	9.6		3.3	0.55	mg/Kg	10		6010B	Total/NA
Arsenic	11	B	6.7	0.57	mg/Kg	10		6010B	Total/NA
Barium	54		3.3	0.47	mg/Kg	10		6010B	Total/NA
Cadmium	0.27	J	0.83	0.083	mg/Kg	10		6010B	Total/NA
Chromium	14		3.3	0.35	mg/Kg	10		6010B	Total/NA
Cobalt	4.2		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	210		10	4.7	mg/Kg	10		6010B	Total/NA
Lead	570		3.3	0.70	mg/Kg	10		6010B	Total/NA
Nickel	57		3.3	0.34	mg/Kg	10		6010B	Total/NA
Selenium	1.0	J	6.7	1.0	mg/Kg	10		6010B	Total/NA
Vanadium	63		3.3	0.45	mg/Kg	10		6010B	Total/NA
Zinc	110		10	4.2	mg/Kg	10		6010B	Total/NA
Mercury	0.013	J	0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD14S-0.5-1 — Lab Sample ID: 720-91135-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	3.3	0.55	mg/Kg	10		6010B	Total/NA
Arsenic	5.5	J B	6.6	0.56	mg/Kg	10		6010B	Total/NA
Barium	61		3.3	0.47	mg/Kg	10		6010B	Total/NA
Beryllium	0.40	J	0.66	0.21	mg/Kg	10		6010B	Total/NA
Cadmium	0.65	J	0.82	0.082	mg/Kg	10		6010B	Total/NA
Chromium	23		3.3	0.35	mg/Kg	10		6010B	Total/NA
Cobalt	6.7		1.3	0.13	mg/Kg	10		6010B	Total/NA
Copper	320		9.9	4.7	mg/Kg	10		6010B	Total/NA
Lead	360		3.3	0.69	mg/Kg	10		6010B	Total/NA
Molybdenum	2.2	J	3.3	0.42	mg/Kg	10		6010B	Total/NA
Nickel	160		3.3	0.34	mg/Kg	10		6010B	Total/NA
Silver	0.91	J	1.6	0.33	mg/Kg	10		6010B	Total/NA
Vanadium	220		3.3	0.45	mg/Kg	10		6010B	Total/NA
Zinc	130		9.9	4.2	mg/Kg	10		6010B	Total/NA
Mercury	0.29		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AD14S-3.5-4 — Lab Sample ID: 720-91135-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.8		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	8.9	B	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	29		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.45		0.28	0.092	mg/Kg	4		6010B	Total/NA
Cadmium	0.32	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	29		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	260		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	240		1.4	0.30	mg/Kg	4		6010B	Total/NA
Molybdenum	5.2		1.4	0.18	mg/Kg	4		6010B	Total/NA
Nickel	190		1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	2.4	J	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	0.75		0.70	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	310		1.4	0.19	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AD14S-3.5-4 (Continued) — Lab Sample ID: 720-91135-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	51		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.22		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI14S-0.5-1 — Lab Sample ID: 720-91135-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.77	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	2.2	J B	3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	56		1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.22	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.36	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	26		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	160		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	67		1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	39		1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.26	J	0.93	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	75		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	220		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.083		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI14S-3.5-4 — Lab Sample ID: 720-91135-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.1	B	2.7	0.23	mg/Kg	4		6010B	Total/NA
Barium	14		1.3	0.19	mg/Kg	4		6010B	Total/NA
Beryllium	0.11	J	0.27	0.087	mg/Kg	4		6010B	Total/NA
Cadmium	0.065	J	0.34	0.033	mg/Kg	4		6010B	Total/NA
Chromium	8.9		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	2.7		0.54	0.054	mg/Kg	4		6010B	Total/NA
Copper	13		4.0	1.9	mg/Kg	4		6010B	Total/NA
Lead	19		1.3	0.28	mg/Kg	4		6010B	Total/NA
Nickel	18		1.3	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.14	J	0.67	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	20		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	20		4.0	1.7	mg/Kg	4		6010B	Total/NA
Mercury	0.0087	J	0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AB15S-0.5-1

Date Collected: 02/01/19 09:20
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91135-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5	F1	3.4	0.56	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Arsenic	4.7	J B	6.7	0.57	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Barium	90	F1	3.4	0.48	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Beryllium	0.32	J	0.67	0.22	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Cadmium	1.1		0.84	0.083	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Chromium	14		3.4	0.36	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Cobalt	5.3		1.3	0.13	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Copper	110	F1 F2	10	4.8	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Lead	280		3.4	0.70	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Molybdenum	0.93	J	3.4	0.43	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Nickel	46		3.4	0.34	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Selenium	ND		6.7	1.0	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Silver	ND		1.7	0.34	mg/Kg		02/02/19 10:23	02/15/19 10:03	10
Thallium	ND		3.4	0.97	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Vanadium	56	F1	3.4	0.46	mg/Kg		02/02/19 10:23	02/14/19 17:16	10
Zinc	130	F1	10	4.3	mg/Kg		02/02/19 10:23	02/14/19 17:16	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.51	F1	0.015	0.0021	mg/Kg		02/14/19 17:52	02/15/19 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.4		0.1	0.05	%			02/05/19 16:16	1

Client Sample ID: DG-AB15S-3.5-4

Date Collected: 02/01/19 09:20
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91135-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.78	J	1.3	0.21	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Arsenic	1.5	J B	2.5	0.21	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Barium	100		1.3	0.18	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Beryllium	0.37		0.25	0.082	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Cadmium	0.067	J	0.31	0.031	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Chromium	61		1.3	0.13	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Cobalt	8.4		0.50	0.050	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Copper	13		3.8	1.8	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Lead	5.0		1.3	0.26	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Molybdenum	ND		1.3	0.16	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Nickel	21		1.3	0.13	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Selenium	ND		2.5	0.38	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Silver	ND		0.63	0.13	mg/Kg		02/02/19 10:23	02/15/19 10:07	4
Thallium	ND		1.3	0.36	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Vanadium	70		1.3	0.17	mg/Kg		02/02/19 10:23	02/14/19 17:21	4
Zinc	28		3.8	1.6	mg/Kg		02/02/19 10:23	02/14/19 17:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0088	J	0.015	0.0022	mg/Kg		02/14/19 17:52	02/15/19 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.7		0.1	0.05	%			02/05/19 16:16	1

Client Sample ID: DG-AB16S-0.5-1

Date Collected: 02/01/19 09:45
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91135-3

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2	J	3.8	0.64	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Arsenic	3.5	J B	7.7	0.65	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Barium	63		3.8	0.55	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Beryllium	0.28	J	0.77	0.25	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Cadmium	0.41	J	0.96	0.095	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Chromium	13		3.8	0.41	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Cobalt	4.7		1.5	0.15	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Copper	100		12	5.5	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Lead	260		3.8	0.81	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Molybdenum	ND		3.8	0.49	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Nickel	67		3.8	0.39	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Selenium	ND		7.7	1.2	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Silver	ND		1.9	0.39	mg/Kg		02/02/19 10:23	02/15/19 10:12	10
Thallium	ND		3.8	1.1	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Vanadium	69		3.8	0.52	mg/Kg		02/02/19 10:23	02/14/19 17:25	10
Zinc	85		12	4.9	mg/Kg		02/02/19 10:23	02/14/19 17:25	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		02/14/19 17:52	02/15/19 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.4		0.1	0.05	%			02/05/19 16:16	1

Client Sample ID: DG-AB16S-3.5-4

Date Collected: 02/01/19 09:45
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91135-4

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	9.6		3.3	0.55	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Arsenic	11	B	6.7	0.57	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Barium	54		3.3	0.47	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Beryllium	ND		0.67	0.22	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Cadmium	0.27	J	0.83	0.083	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Chromium	14		3.3	0.35	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Cobalt	4.2		1.3	0.13	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Copper	210		10	4.7	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Lead	570		3.3	0.70	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Molybdenum	ND		3.3	0.43	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Nickel	57		3.3	0.34	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Selenium	1.0	J	6.7	1.0	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Silver	ND		1.7	0.34	mg/Kg		02/02/19 10:23	02/15/19 10:17	10
Thallium	ND		3.3	0.97	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Vanadium	63		3.3	0.45	mg/Kg		02/02/19 10:23	02/14/19 17:30	10
Zinc	110		10	4.2	mg/Kg		02/02/19 10:23	02/14/19 17:30	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.015	0.0021	mg/Kg		02/14/19 17:52	02/15/19 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.5		0.1	0.05	%			02/05/19 16:16	1

Client Sample ID: DG-AD14S-0.5-1

Date Collected: 02/01/19 11:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91135-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	3.3	0.55	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Arsenic	5.5	J B	6.6	0.56	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Barium	61		3.3	0.47	mg/Kg		02/02/19 10:23	02/15/19 10:31	10
Beryllium	0.40	J	0.66	0.21	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Cadmium	0.65	J	0.82	0.082	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Chromium	23		3.3	0.35	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Cobalt	6.7		1.3	0.13	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Copper	320		9.9	4.7	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Lead	360		3.3	0.69	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Molybdenum	2.2	J	3.3	0.42	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Nickel	160		3.3	0.34	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Selenium	ND		6.6	0.99	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Silver	0.91	J	1.6	0.33	mg/Kg		02/02/19 10:23	02/15/19 10:31	10
Thallium	ND		3.3	0.95	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Vanadium	220		3.3	0.45	mg/Kg		02/02/19 10:23	02/14/19 17:45	10
Zinc	130		9.9	4.2	mg/Kg		02/02/19 10:23	02/14/19 17:45	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.016	0.0024	mg/Kg		02/14/19 17:52	02/15/19 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.4		0.1	0.05	%			02/05/19 16:16	1

Client Sample ID: DG-AD14S-3.5-4

Date Collected: 02/01/19 11:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91135-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.8		1.4	0.23	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Arsenic	8.9	B	2.8	0.24	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Barium	29		1.4	0.20	mg/Kg		02/02/19 10:23	02/15/19 10:36	4
Beryllium	0.45		0.28	0.092	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Cadmium	0.32	J	0.35	0.035	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Chromium	29		1.4	0.15	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Cobalt	13		0.56	0.056	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Copper	260		4.2	2.0	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Lead	240		1.4	0.30	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Molybdenum	5.2		1.4	0.18	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Nickel	190		1.4	0.14	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Selenium	2.4	J	2.8	0.42	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Silver	0.75		0.70	0.14	mg/Kg		02/02/19 10:23	02/15/19 10:36	4
Thallium	ND		1.4	0.41	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Vanadium	310		1.4	0.19	mg/Kg		02/02/19 10:23	02/14/19 17:49	4
Zinc	51		4.2	1.8	mg/Kg		02/02/19 10:23	02/14/19 17:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.015	0.0022	mg/Kg		02/14/19 17:52	02/15/19 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.1		0.1	0.05	%			02/05/19 16:16	1

Client Sample ID: DG-AI14S-0.5-1

Date Collected: 02/01/19 11:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91135-7

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.77	J	1.9	0.31	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Arsenic	2.2	J B	3.7	0.31	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Barium	56		1.9	0.26	mg/Kg		02/02/19 10:23	02/15/19 10:41	4
Beryllium	0.22	J	0.37	0.12	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Cadmium	0.36	J	0.46	0.046	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Chromium	26		1.9	0.20	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Cobalt	8.1		0.74	0.074	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Copper	160		5.6	2.6	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Lead	67		1.9	0.39	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Molybdenum	ND		1.9	0.24	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Nickel	39		1.9	0.19	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Selenium	ND		3.7	0.56	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Silver	0.26	J	0.93	0.19	mg/Kg		02/02/19 10:23	02/15/19 10:41	4
Thallium	ND		1.9	0.54	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Vanadium	75		1.9	0.25	mg/Kg		02/02/19 10:23	02/14/19 17:54	4
Zinc	220		5.6	2.4	mg/Kg		02/02/19 10:23	02/14/19 17:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.083		0.015	0.0022	mg/Kg		02/14/19 17:52	02/15/19 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.2		0.1	0.05	%			02/05/19 16:16	1

Client Sample ID: DG-AI14S-3.5-4

Date Collected: 02/01/19 11:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91135-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.22	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Arsenic	**5.1**	**B**	2.7	0.23	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Barium	**14**		1.3	0.19	mg/Kg		02/02/19 10:23	02/15/19 10:45	4
Beryllium	**0.11**	**J**	0.27	0.087	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Cadmium	**0.065**	**J**	0.34	0.033	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Chromium	**8.9**		1.3	0.14	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Cobalt	**2.7**		0.54	0.054	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Copper	**13**		4.0	1.9	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Lead	**19**		1.3	0.28	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Molybdenum	ND		1.3	0.17	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Nickel	**18**		1.3	0.14	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Selenium	ND		2.7	0.40	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Silver	**0.14**	**J**	0.67	0.14	mg/Kg		02/02/19 10:23	02/15/19 10:45	4
Thallium	ND		1.3	0.39	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Vanadium	**20**		1.3	0.18	mg/Kg		02/02/19 10:23	02/14/19 17:59	4
Zinc	**20**		4.0	1.7	mg/Kg		02/02/19 10:23	02/14/19 17:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0087**	**J**	0.015	0.0022	mg/Kg		02/14/19 17:52	02/15/19 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.4**		0.1	0.05	%			02/05/19 16:16	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259705/1-A
Matrix: Solid
Analysis Batch: 260406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Arsenic	0.109	J	1.0	0.085	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Barium	ND		0.50	0.071	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Beryllium	ND		0.10	0.033	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Cadmium	ND		0.13	0.012	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Chromium	ND		0.50	0.053	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Cobalt	ND		0.20	0.020	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Copper	ND		1.5	0.71	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Lead	ND		0.50	0.11	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Nickel	ND		0.50	0.051	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Selenium	ND		1.0	0.15	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Thallium	ND		0.50	0.15	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Vanadium	ND		0.50	0.068	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Zinc	ND		1.5	0.64	mg/Kg		02/02/19 10:23	02/14/19 16:47	1

Lab Sample ID: MB 720-259705/1-A
Matrix: Solid
Analysis Batch: 260438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.25	0.051	mg/Kg		02/02/19 10:23	02/15/19 09:34	1

Lab Sample ID: LCS 720-259705/2-A
Matrix: Solid
Analysis Batch: 260406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.9		mg/Kg		102	80 - 120
Arsenic	50.0	53.0		mg/Kg		106	80 - 120
Barium	50.0	54.8		mg/Kg		110	80 - 120
Beryllium	50.0	54.0		mg/Kg		108	80 - 120
Cadmium	50.0	53.6		mg/Kg		107	80 - 120
Chromium	50.0	51.8		mg/Kg		104	80 - 120
Cobalt	50.0	53.0		mg/Kg		106	80 - 120
Copper	50.0	52.9		mg/Kg		106	80 - 120
Lead	50.0	53.8		mg/Kg		108	80 - 120
Molybdenum	50.0	53.9		mg/Kg		108	80 - 120
Nickel	50.0	51.7		mg/Kg		103	80 - 120
Selenium	50.0	51.7		mg/Kg		103	80 - 120
Thallium	50.0	53.7		mg/Kg		107	80 - 120
Vanadium	50.0	53.8		mg/Kg		108	80 - 120
Zinc	50.0	51.9		mg/Kg		104	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259705/2-A
Matrix: Solid
Analysis Batch: 260438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	25.0	23.5		mg/Kg		94	80 - 120

Lab Sample ID: 720-91135-1 MS
Matrix: Solid
Analysis Batch: 260406

Client Sample ID: DG-AB15S-0.5-1
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.5	F1	33.8	15.7	F1	mg/Kg		36	75 - 125
Arsenic	4.7	J B	33.8	40.8		mg/Kg		107	75 - 125
Barium	90	F1	33.8	80.9	F1	mg/Kg		-25	75 - 125
Beryllium	0.32	J	33.8	37.1		mg/Kg		109	75 - 125
Cadmium	1.1		33.8	37.3		mg/Kg		107	75 - 125
Chromium	14		33.8	48.9		mg/Kg		103	75 - 125
Cobalt	5.3		33.8	40.9		mg/Kg		105	75 - 125
Copper	110	F1 F2	33.8	154	F1	mg/Kg		130	75 - 125
Lead	280		33.8	342	4	mg/Kg		173	75 - 125
Molybdenum	0.93	J	33.8	35.4		mg/Kg		102	75 - 125
Nickel	46		33.8	79.0		mg/Kg		97	75 - 125
Selenium	ND		33.8	35.1		mg/Kg		104	75 - 125
Thallium	ND		33.8	34.3		mg/Kg		102	75 - 125
Vanadium	56	F1	33.8	100	F1	mg/Kg		131	75 - 125
Zinc	130	F1	33.8	172	F1	mg/Kg		130	75 - 125

Lab Sample ID: 720-91135-1 MS
Matrix: Solid
Analysis Batch: 260438

Client Sample ID: DG-AB15S-0.5-1
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		16.9	15.4		mg/Kg		91	75 - 125

Lab Sample ID: 720-91135-1 MSD
Matrix: Solid
Analysis Batch: 260406

Client Sample ID: DG-AB15S-0.5-1
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.5	F1	33.8	16.4	F1	mg/Kg		38	75 - 125	5	20
Arsenic	4.7	J B	33.8	40.7		mg/Kg		107	75 - 125	0	20
Barium	90	F1	33.8	92.0	F1	mg/Kg		7	75 - 125	13	20
Beryllium	0.32	J	33.8	34.9		mg/Kg		102	75 - 125	6	20
Cadmium	1.1		33.8	36.2		mg/Kg		104	75 - 125	3	20
Chromium	14		33.8	51.8		mg/Kg		112	75 - 125	6	20
Cobalt	5.3		33.8	41.2		mg/Kg		106	75 - 125	1	20
Copper	110	F1 F2	33.8	208	F1 F2	mg/Kg		291	75 - 125	30	20
Lead	280		33.8	363	4	mg/Kg		234	75 - 125	6	20
Molybdenum	0.93	J	33.8	34.8		mg/Kg		100	75 - 125	2	20
Nickel	46		33.8	85.5		mg/Kg		117	75 - 125	8	20
Selenium	ND		33.8	33.9		mg/Kg		100	75 - 125	4	20
Thallium	ND		33.8	33.8		mg/Kg		100	75 - 125	2	20
Vanadium	56	F1	33.8	95.4		mg/Kg		117	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91135-1 MSD — **Client Sample ID: DG-AB15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260406 — **Prep Batch: 259705**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	130	F1	33.8	164		mg/Kg		107	75 - 125	5	20

Lab Sample ID: 720-91135-1 MSD — **Client Sample ID: DG-AB15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260438 — **Prep Batch: 259705**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		16.9	15.5		mg/Kg		92	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259709/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260451 — **Prep Batch: 259709**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/14/19 17:52	02/15/19 12:10	1

Lab Sample ID: LCS 720-259709/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260451 — **Prep Batch: 259709**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.772		mg/Kg		93	80 - 120

Lab Sample ID: 720-91135-1 MS — **Client Sample ID: DG-AB15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260451 — **Prep Batch: 259709**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.51	F1	0.704	0.853	F1	mg/Kg		49	75 - 125

Lab Sample ID: 720-91135-1 MSD — **Client Sample ID: DG-AB15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260451 — **Prep Batch: 259709**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.51	F1	0.704	0.837	F1	mg/Kg		47	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91135-1 DU — **Client Sample ID: DG-AB15S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259846

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17.4		16.5		%		5	20

Metals

Prep Batch: 259705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91135-1	DG-AB15S-0.5-1	Total/NA	Solid	3050B	
720-91135-2	DG-AB15S-3.5-4	Total/NA	Solid	3050B	
720-91135-3	DG-AB16S-0.5-1	Total/NA	Solid	3050B	
720-91135-4	DG-AB16S-3.5-4	Total/NA	Solid	3050B	
720-91135-5	DG-AD14S-0.5-1	Total/NA	Solid	3050B	
720-91135-6	DG-AD14S-3.5-4	Total/NA	Solid	3050B	
720-91135-7	DG-AI14S-0.5-1	Total/NA	Solid	3050B	
720-91135-8	DG-AI14S-3.5-4	Total/NA	Solid	3050B	
MB 720-259705/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259705/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91135-1 MS	DG-AB15S-0.5-1	Total/NA	Solid	3050B	
720-91135-1 MSD	DG-AB15S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91135-1	DG-AB15S-0.5-1	Total/NA	Solid	7471A	
720-91135-2	DG-AB15S-3.5-4	Total/NA	Solid	7471A	
720-91135-3	DG-AB16S-0.5-1	Total/NA	Solid	7471A	
720-91135-4	DG-AB16S-3.5-4	Total/NA	Solid	7471A	
720-91135-5	DG-AD14S-0.5-1	Total/NA	Solid	7471A	
720-91135-6	DG-AD14S-3.5-4	Total/NA	Solid	7471A	
720-91135-7	DG-AI14S-0.5-1	Total/NA	Solid	7471A	
720-91135-8	DG-AI14S-3.5-4	Total/NA	Solid	7471A	
MB 720-259709/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259709/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91135-1 MS	DG-AB15S-0.5-1	Total/NA	Solid	7471A	
720-91135-1 MSD	DG-AB15S-0.5-1	Total/NA	Solid	7471A	

Analysis Batch: 260406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91135-1	DG-AB15S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-2	DG-AB15S-3.5-4	Total/NA	Solid	6010B	259705
720-91135-3	DG-AB16S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-4	DG-AB16S-3.5-4	Total/NA	Solid	6010B	259705
720-91135-5	DG-AD14S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-6	DG-AD14S-3.5-4	Total/NA	Solid	6010B	259705
720-91135-7	DG-AI14S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-8	DG-AI14S-3.5-4	Total/NA	Solid	6010B	259705
MB 720-259705/1-A	Method Blank	Total/NA	Solid	6010B	259705
LCS 720-259705/2-A	Lab Control Sample	Total/NA	Solid	6010B	259705
720-91135-1 MS	DG-AB15S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-1 MSD	DG-AB15S-0.5-1	Total/NA	Solid	6010B	259705

Analysis Batch: 260438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91135-1	DG-AB15S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-2	DG-AB15S-3.5-4	Total/NA	Solid	6010B	259705
720-91135-3	DG-AB16S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-4	DG-AB16S-3.5-4	Total/NA	Solid	6010B	259705
720-91135-5	DG-AD14S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-6	DG-AD14S-3.5-4	Total/NA	Solid	6010B	259705

Metals (Continued)

Analysis Batch: 260438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91135-7	DG-AI14S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-8	DG-AI14S-3.5-4	Total/NA	Solid	6010B	259705
MB 720-259705/1-A	Method Blank	Total/NA	Solid	6010B	259705
LCS 720-259705/2-A	Lab Control Sample	Total/NA	Solid	6010B	259705
720-91135-1 MS	DG-AB15S-0.5-1	Total/NA	Solid	6010B	259705
720-91135-1 MSD	DG-AB15S-0.5-1	Total/NA	Solid	6010B	259705

Analysis Batch: 260451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91135-1	DG-AB15S-0.5-1	Total/NA	Solid	7471A	259709
720-91135-2	DG-AB15S-3.5-4	Total/NA	Solid	7471A	259709
720-91135-3	DG-AB16S-0.5-1	Total/NA	Solid	7471A	259709
720-91135-4	DG-AB16S-3.5-4	Total/NA	Solid	7471A	259709
720-91135-5	DG-AD14S-0.5-1	Total/NA	Solid	7471A	259709
720-91135-6	DG-AD14S-3.5-4	Total/NA	Solid	7471A	259709
720-91135-7	DG-AI14S-0.5-1	Total/NA	Solid	7471A	259709
720-91135-8	DG-AI14S-3.5-4	Total/NA	Solid	7471A	259709
MB 720-259709/1-A	Method Blank	Total/NA	Solid	7471A	259709
LCS 720-259709/2-A	Lab Control Sample	Total/NA	Solid	7471A	259709
720-91135-1 MS	DG-AB15S-0.5-1	Total/NA	Solid	7471A	259709
720-91135-1 MSD	DG-AB15S-0.5-1	Total/NA	Solid	7471A	259709

General Chemistry

Analysis Batch: 259846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91135-1	DG-AB15S-0.5-1	Total/NA	Solid	Moisture	
720-91135-2	DG-AB15S-3.5-4	Total/NA	Solid	Moisture	
720-91135-3	DG-AB16S-0.5-1	Total/NA	Solid	Moisture	
720-91135-4	DG-AB16S-3.5-4	Total/NA	Solid	Moisture	
720-91135-5	DG-AD14S-0.5-1	Total/NA	Solid	Moisture	
720-91135-6	DG-AD14S-3.5-4	Total/NA	Solid	Moisture	
720-91135-7	DG-AI14S-0.5-1	Total/NA	Solid	Moisture	
720-91135-8	DG-AI14S-3.5-4	Total/NA	Solid	Moisture	
720-91135-1 DU	DG-AB15S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91135-1

Client Sample ID: DG-AB15S-0.5-1

Lab Sample ID: 720-91135-1

Date Collected: 02/01/19 09:20

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260406	02/14/19 17:16	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260438	02/15/19 10:03	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Client Sample ID: DG-AB15S-3.5-4

Lab Sample ID: 720-91135-2

Date Collected: 02/01/19 09:20

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 17:21	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 10:07	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Client Sample ID: DG-AB16S-0.5-1

Lab Sample ID: 720-91135-3

Date Collected: 02/01/19 09:45

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260406	02/14/19 17:25	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260438	02/15/19 10:12	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Client Sample ID: DG-AB16S-3.5-4

Lab Sample ID: 720-91135-4

Date Collected: 02/01/19 09:45

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260406	02/14/19 17:30	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260438	02/15/19 10:17	OBI	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91135-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:27	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Client Sample ID: DG-AD14S-0.5-1 — Lab Sample ID: 720-91135-5

Date Collected: 02/01/19 11:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260406	02/14/19 17:45	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260438	02/15/19 10:31	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:29	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Client Sample ID: DG-AD14S-3.5-4 — Lab Sample ID: 720-91135-6

Date Collected: 02/01/19 11:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 17:49	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 10:36	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Client Sample ID: DG-AI14S-0.5-1 — Lab Sample ID: 720-91135-7

Date Collected: 02/01/19 11:15 **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 17:54	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 10:41	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91135-1

Client Sample ID: DG-AI14S-3.5-4

Date Collected: 02/01/19 11:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91135-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 17:59	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 10:45	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91135-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91135-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91135-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91135-1	DG-AB15S-0.5-1	Solid	02/01/19 09:20	02/01/19 16:42
720-91135-2	DG-AB15S-3.5-4	Solid	02/01/19 09:20	02/01/19 16:42
720-91135-3	DG-AB16S-0.5-1	Solid	02/01/19 09:45	02/01/19 16:42
720-91135-4	DG-AB16S-3.5-4	Solid	02/01/19 09:45	02/01/19 16:42
720-91135-5	DG-AD14S-0.5-1	Solid	02/01/19 11:00	02/01/19 16:42
720-91135-6	DG-AD14S-3.5-4	Solid	02/01/19 11:00	02/01/19 16:42
720-91135-7	DG-AI14S-0.5-1	Solid	02/01/19 11:15	02/01/19 16:42
720-91135-8	DG-AI14S-3.5-4	Solid	02/01/19 11:15	02/01/19 16:42

188225

720-91135

Chain of Custody Record

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Naomi Hemsfell
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com mkahrilas@geosyntec.com, tsmith@geosyntec.com	2 weeks			
Project Name: Brisbane OU2 Investigation	1 week			
Site: Brisbane OU2	2 days			
P O # WG2619/ TA project # 72013947	1 day			

720-91135 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AB1S-0.5-1	1 Feb. 2019	0920	G	S	1	N		X	
2	DG-AB1S-3.5-4		0920							
3	DG-AB16S-0.5-1		0945							
4	DG-AB16S-3.5-4		0945							
5	DG-AD14S-0.5-1		1100							
6	DG-AD14S-3.5-4		1100							
7	DG-AI14S-0.5-1		1115							
8	DG-AI14S-3.5-4		1115							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No. 1420	Cooler Temp (°C): Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company Geosyntec	Date/Time 1 Feb 2019	Received by	Company TAPLS	Date/Time 2/1/19 1620
Relinquished by	Company TAPLS	Date/Time 2/1/19 1642	Received by	Company TA-PLS	Date/Time 2/1/19 1642
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

3.2C

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91135-1

Login Number: 91135
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Tuesday, February 05, 2019 10:23 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-91135-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

I agree.

Thank you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Sent: Tuesday, February 5, 2019 10:13 AM
To: Miranda Kahrilas <MKahrilas@Geosyntec.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-91135-1 Brisbane OU-2 Data Gap Investigation

Hello,

Sorry, it must have gotten cut off.

The container labels list DG-AB16S-0.5-1 , while the COC lists DG-AB16S-0.54. Logged using container label sample ID.

Thank You,

Christian Bondoc

Phone: 949-261-1022
Direct: 949-260-3271

E-mail: Christian.bondoc@testamericainc.com

From: Miranda Kahrilas [mailto:MKahrilas@Geosyntec.com]
Sent: Tuesday, February 05, 2019 10:06 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-91135-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Christian,

Can you list what container label did not match the COC?

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Tuesday, February 5, 2019 10:01 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-91135-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-91135-1; Brisbane OU-2 Data Gap Investigation

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC):

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [500035]
Attachments: 3

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91136-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 9:24:45 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Geosyntec Consultants, Inc. Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91136-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 2/1/2019 4:42 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AV2S-0.5-1 (720-91136-1), DG-AV2S-3.5-4 (720-91136-2), DG-AX2S-0.5-1 (720-91136-3), DG-AX2S-3.5-4 (720-91136-4), DG-AY2S-0.5-1 (720-91136-5), DG-AY2S-3.5-4 (720-91136-6), DG-AV3S-0.5-1 (720-91136-7), DG-AV3S-3.5-4 (720-91136-8), DG-AZ2S-0.5-1 (720-91136-9), DG-AZ2S-3.5-4 (720-91136-10), DG-AX3S-0.5-1 (720-91136-11), DG-AX3S-3.5-4 (720-91136-12), DG-AW4S-0.5-1 (720-91136-13), DG-AW4S-3.5-4 (720-91136-14), DG-AY4S-0.5-1 (720-91136-15), DG-AY4S-3.5-4 (720-91136-16), DG-AX4S-0.5-1 (720-91136-17), DG-AX4S-3.5-4 (720-91136-18), DG-AZ3S-0.5-1 (720-91136-19), DG-AZ3S-3.5-4 (720-91136-20), DG-AX6S-0.5-1 (720-91136-21), DG-AX6S-3.5-4 (720-91136-22), DG-AQ10S-0.5-1 (720-91136-23), DUP-28 (720-91136-24), DG-AQ10S-3.5-4 (720-91136-25), DG-AK8S-0.5-1 (720-91136-26), DG-AK8S-3.5-4 (720-91136-27), DG-AI13S-0.5-1 (720-91136-28), DG-AI13S-3.5-4 (720-91136-29) and DUP-94 (720-91136-30). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259705 and analytical batch 720-260406 contained Arsenic above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259705 and analytical batch 720-260406 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260406 was outside control limits for Barium-60%, Nickel-50%, Lead-55%, and Vanadium-60%: (720-91135-A-1-C SD)

Method 6010B: The method blank for preparation batch 720-259715 and analytical batch 720-260404 contained Chromium, Nickel, and Antimony above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259715 and analytical batch 720-260404 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260404 was outside control limits for Cobalt-27%, Chromium-12%, Nickel--22%, Lead-25%, and Vanadium-12%: (720-91136-A-16-C SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259715 and analytical batch 720-260454 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259709 and analytical batch 720-260451 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The following samples were diluted to bring the concentration of target analyte Mercury within the calibration range: DG-AZ2S-3.5-4 (720-91136-10) and DG-AX3S-3.5-4 (720-91136-12). Elevated reporting limits (RLs) are provided.
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 720-91136-1 (Continued)

Laboratory: Eurofins TestAmerica, Pleasanton (Continued)

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AV2S-0.5-1 — Lab Sample ID: 720-91136-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	16	B	3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	56		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.23	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.93		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	18		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	150		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	180		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	0.71	J	1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	19		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.34	J	0.80	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	89		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	230		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV2S-3.5-4 — Lab Sample ID: 720-91136-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	8.2	B	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	320		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.73		0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	0.25	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	49		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	58		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	360		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	56		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.85	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	100		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.071		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX2S-0.5-1 — Lab Sample ID: 720-91136-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.3		1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	67	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	170		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.31	J	0.35	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	2.7		0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	160		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	190		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	470		1.8	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	4.3		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	120		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Silver	0.39	J	0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.8	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AX2S-0.5-1 (Continued)

Lab Sample ID: 720-91136-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	440		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.92		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX2S-3.5-4

Lab Sample ID: 720-91136-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.2		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	96	B	3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	88		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.54		0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	110		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	120		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	160		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.85	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	150		1.9	0.19	mg/Kg	4		6010B	Total/NA
Silver	0.22	J	0.94	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	65		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	200		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.41		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AY2S-0.5-1

Lab Sample ID: 720-91136-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.4		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	330	B	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	58		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	26		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	150		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	340		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	48		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.7	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Silver	0.26	J	0.90	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	48		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	190		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.26		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AY2S-3.5-4

Lab Sample ID: 720-91136-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.89	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	11	B	3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	99		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.53		0.30	0.098	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	93		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.61	0.061	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AY2S-3.5-4 (Continued)

Lab Sample ID: 720-91136-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	27		4.5	2.2	mg/Kg	4		6010B	Total/NA
Lead	7.1		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	150		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Vanadium	66		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	51		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.69		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV3S-0.5-1

Lab Sample ID: 720-91136-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.2		1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	690	B	2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	130		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.69		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	12		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	300		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	230		1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	12		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Silver	0.45	J	0.74	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	77		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	150		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV3S-3.5-4

Lab Sample ID: 720-91136-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.36	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	7.1	B	2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	27		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.35	0.034	mg/Kg	4		6010B	Total/NA
Chromium	9.6		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.9		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	110		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	41		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	7.6		1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	59		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.13		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AZ2S-0.5-1

Lab Sample ID: 720-91136-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.0		1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	210	B	3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	77		9.6	1.4	mg/Kg	20		6010B	Total/NA
Cadmium	0.77		0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	12		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	5.7		0.77	0.077	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AZ2S-0.5-1 (Continued)

Lab Sample ID: 720-91136-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	610		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	250		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.35	J	1.9	0.25	mg/Kg	4		6010B	Total/NA
Nickel	17		1.9	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	110		29	12	mg/Kg	20		6010B	Total/NA
Mercury	0.23		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AZ2S-3.5-4

Lab Sample ID: 720-91136-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	130	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	62		1.7	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.38		0.35	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	80		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	55		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	56		1.7	0.37	mg/Kg	4		6010B	Total/NA
Nickel	95		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.73	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	82		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	4.3		0.14	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-AX3S-0.5-1

Lab Sample ID: 720-91136-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	35		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	350	B	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	250		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.32	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	2.8		0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	43		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	640		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	3100		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	59		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Silver	6.1		0.85	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	1000		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX3S-3.5-4

Lab Sample ID: 720-91136-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.97	J	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	60	B	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	67		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.31	J	0.35	0.11	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AX3S-3.5-4 (Continued)

Lab Sample ID: 720-91136-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.26	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	97		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	33		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	10		1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	140		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.73	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	56		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	2.2		0.061	0.0090	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-AW4S-0.5-1

Lab Sample ID: 720-91136-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.0	B	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	51		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	96		1.8	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	2.6		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	35	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	200		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	370		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	2.9		1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	37	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Silver	0.97		0.90	0.18	mg/Kg	4		6010B	Total/NA
Thallium	0.86	J	1.8	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	590		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.42		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AW4S-3.5-4

Lab Sample ID: 720-91136-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	62		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	53		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.41		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	13	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	8.5		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	58		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	16		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	16	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.36	J	1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	91		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.099		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AY4S-0.5-1

Lab Sample ID: 720-91136-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	11	B	1.5	0.24	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AY4S-0.5-1 (Continued)
Lab Sample ID: 720-91136-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	130		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	3.1		0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	47	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	170		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	1100		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	3.8		1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	82	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	2.5	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Silver	0.37	J	0.74	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	520		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.091		0.0017	0.00025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AY4S-3.5-4
Lab Sample ID: 720-91136-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.3	F1 B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	7.6		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	96	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.34	J	0.37	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.15	J	0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	56	F2 F1 B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	37	F1	5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	22	F1	1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	71	F2 F1 B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	87	F1	5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.45		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX4S-0.5-1
Lab Sample ID: 720-91136-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.7	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	240		3.7	0.31	mg/Kg	4		6010B	Total/NA
Barium	110		1.9	0.26	mg/Kg	4		6010B	Total/NA
Cadmium	0.75		0.46	0.046	mg/Kg	4		6010B	Total/NA
Chromium	28	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.74	0.074	mg/Kg	4		6010B	Total/NA
Copper	110		5.6	2.6	mg/Kg	4		6010B	Total/NA
Lead	160		1.9	0.39	mg/Kg	4		6010B	Total/NA
Molybdenum	0.39	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	30	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	3.7	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	200		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.017	0.0025	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AX4S-3.5-4 — Lab Sample ID: 720-91136-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.6	B	1.5	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	420		2.9	0.25	mg/Kg	4		6010B	Total/NA
Barium	81		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.29		0.29	0.096	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.37	0.036	mg/Kg	4		6010B	Total/NA
Chromium	47	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	18		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	5.3		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	35	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.90	J	2.9	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	35		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.032		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AZ3S-0.5-1 — Lab Sample ID: 720-91136-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6	B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	120		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	34		1.6	0.23	mg/Kg	4		6010B	Total/NA
Cadmium	0.17	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	8.3	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	89		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	64		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	9.1	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.64	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	64		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.071		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AZ3S-3.5-4 — Lab Sample ID: 720-91136-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.5	B	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	88		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	47		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.43		0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	43	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	20		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	29		1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	34	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	4.9		3.8	0.57	mg/Kg	4		6010B	Total/NA
Thallium	1.4	J	1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	68		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	1100		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.016		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AX6S-0.5-1 — Lab Sample ID: 720-91136-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	26	B	6.5	1.1	mg/Kg	20		6010B	Total/NA
Arsenic	33		13	1.1	mg/Kg	20		6010B	Total/NA
Barium	1000		3.2	0.46	mg/Kg	10		6010B	Total/NA
Beryllium	0.47		0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	0.89	J	1.6	0.16	mg/Kg	20		6010B	Total/NA
Chromium	34	B	6.5	0.69	mg/Kg	20		6010B	Total/NA
Cobalt	12		2.6	0.26	mg/Kg	20		6010B	Total/NA
Copper	950		19	9.2	mg/Kg	20		6010B	Total/NA
Lead	2500		6.5	1.4	mg/Kg	20		6010B	Total/NA
Molybdenum	0.81	J	3.2	0.42	mg/Kg	10		6010B	Total/NA
Nickel	35	B	6.5	0.66	mg/Kg	20		6010B	Total/NA
Selenium	11	J	13	1.9	mg/Kg	20		6010B	Total/NA
Silver	6.8		3.2	0.66	mg/Kg	20		6010B	Total/NA
Vanadium	32		6.5	0.88	mg/Kg	20		6010B	Total/NA
Zinc	1500		19	8.2	mg/Kg	20		6010B	Total/NA
Mercury	0.20		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AX6S-3.5-4 — Lab Sample ID: 720-91136-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.96	J B	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	7.3		3.3	0.28	mg/Kg	4		6010B	Total/NA
Barium	79		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.99		0.33	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.41	0.041	mg/Kg	4		6010B	Total/NA
Chromium	34	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	25		0.66	0.066	mg/Kg	4		6010B	Total/NA
Copper	37		4.9	2.3	mg/Kg	4		6010B	Total/NA
Lead	49		1.6	0.34	mg/Kg	4		6010B	Total/NA
Nickel	45	B	1.6	0.17	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J	3.3	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	52		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	89		4.9	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ10S-0.5-1 — Lab Sample ID: 720-91136-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.4	J B	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	2.3	J	3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	55		1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	33	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	140		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	140		1.7	0.37	mg/Kg	4		6010B	Total/NA
Molybdenum	0.58	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	13	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.28	J	0.87	0.18	mg/Kg	4		6010B	Total/NA
Thallium	0.63	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	110		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	260		5.2	2.2	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AQ10S-0.5-1 (Continued)

Lab Sample ID: 720-91136-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.13		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-28

Lab Sample ID: 720-91136-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	22	B	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	18		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	190		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	3.6		0.31	0.030	mg/Kg	4		6010B	Total/NA
Chromium	56	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	190		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	1100		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	3.7		1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	63	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	2.5		2.5	0.37	mg/Kg	4		6010B	Total/NA
Silver	0.52	J	0.61	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.52	J	1.2	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	36		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	710		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.65		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AQ10S-3.5-4

Lab Sample ID: 720-91136-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	22	B	2.7	0.45	mg/Kg	10		6010B	Total/NA
Arsenic	14		5.4	0.46	mg/Kg	10		6010B	Total/NA
Barium	760		2.7	0.38	mg/Kg	10		6010B	Total/NA
Beryllium	0.13	J	0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	4.1		0.68	0.067	mg/Kg	10		6010B	Total/NA
Chromium	40	B	2.7	0.29	mg/Kg	10		6010B	Total/NA
Cobalt	11		1.1	0.11	mg/Kg	10		6010B	Total/NA
Copper	7700		8.1	3.8	mg/Kg	10		6010B	Total/NA
Lead	2700		2.7	0.57	mg/Kg	10		6010B	Total/NA
Molybdenum	0.75	J	2.7	0.35	mg/Kg	10		6010B	Total/NA
Nickel	46	B	2.7	0.28	mg/Kg	10		6010B	Total/NA
Selenium	5.8		5.4	0.81	mg/Kg	10		6010B	Total/NA
Silver	6.2		1.4	0.27	mg/Kg	10		6010B	Total/NA
Vanadium	40		2.7	0.37	mg/Kg	10		6010B	Total/NA
Zinc	2700		8.1	3.4	mg/Kg	10		6010B	Total/NA
Mercury	1.1		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK8S-0.5-1

Lab Sample ID: 720-91136-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.46	J B	1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	0.84	J	2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	56		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.57		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	24	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	120		3.5	1.7	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK8S-0.5-1 (Continued)

Lab Sample ID: 720-91136-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	69		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	6.3	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.37	J	2.3	0.35	mg/Kg	4		6010B	Total/NA
Silver	0.13	J	0.58	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.46	J	1.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	86		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	140		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.55		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK8S-3.5-4

Lab Sample ID: 720-91136-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.3		2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	62		1.1	0.16	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J	0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	14	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	4.3		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	12		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	17		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	14	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.41	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	19		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	32		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.037		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI13S-0.5-1

Lab Sample ID: 720-91136-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3	J	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	16		1.7	0.24	mg/Kg	4		6010B	Total/NA
Cadmium	0.28	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	6.8	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	83	F1	5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	29		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	7.5	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.4	0.52	mg/Kg	4		6010B	Total/NA
Thallium	0.99	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	100	F1	1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	74	F1	5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.031		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI13S-3.5-4

Lab Sample ID: 720-91136-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	33		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	31		1.7	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	4.4	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	62		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	34		1.7	0.37	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc. Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AI13S-3.5-4 (Continued) Lab Sample ID: 720-91136-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	10	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.73	J	3.5	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.7	0.24	mg/Kg	4		6010B	Total/NA
Zinc	83		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.066		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-94 Lab Sample ID: 720-91136-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J B	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	73		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	31		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.23	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	16	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.70	0.070	mg/Kg	4		6010B	Total/NA
Copper	130		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	50		1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	20	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	86		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	98		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV2S-0.5-1 Lab Sample ID: 720-91136-1

Date Collected: 02/01/19 09:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.6	0.27	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Arsenic	16	B	3.2	0.27	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Barium	56		1.6	0.23	mg/Kg		02/02/19 10:23	02/15/19 10:50	4
Beryllium	0.23	J	0.32	0.10	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Cadmium	0.93		0.40	0.040	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Chromium	18		1.6	0.17	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Cobalt	11		0.64	0.064	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Copper	150		4.8	2.3	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Lead	180		1.6	0.34	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Molybdenum	0.71	J	1.6	0.20	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Nickel	19		1.6	0.16	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Selenium	1.2	J	3.2	0.48	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Silver	0.34	J	0.80	0.16	mg/Kg		02/02/19 10:23	02/15/19 10:50	4
Thallium	ND		1.6	0.46	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Vanadium	89		1.6	0.22	mg/Kg		02/02/19 10:23	02/14/19 18:04	4
Zinc	230		4.8	2.0	mg/Kg		02/02/19 10:23	02/14/19 18:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.017	0.0025	mg/Kg		02/14/19 17:52	02/15/19 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AV2S-3.5-4
Lab Sample ID: 720-91136-2
Date Collected: 02/01/19 09:00
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.5	0.25	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Arsenic	8.2	B	3.1	0.26	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Barium	320		1.5	0.22	mg/Kg		02/02/19 10:23	02/15/19 10:55	4
Beryllium	0.73		0.31	0.099	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Cadmium	0.25	J	0.38	0.038	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Chromium	49		1.5	0.16	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Cobalt	14		0.61	0.061	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Copper	58		4.6	2.2	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Lead	360		1.5	0.32	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Molybdenum	ND		1.5	0.20	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Nickel	56		1.5	0.16	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Selenium	0.85	J	3.1	0.46	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Silver	ND		0.76	0.15	mg/Kg		02/02/19 10:23	02/15/19 10:55	4
Thallium	ND		1.5	0.44	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Vanadium	48		1.5	0.21	mg/Kg		02/02/19 10:23	02/14/19 18:08	4
Zinc	100		4.6	1.9	mg/Kg		02/02/19 10:23	02/14/19 18:08	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.014	0.0021	mg/Kg		02/14/19 17:52	02/15/19 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.7		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AX2S-0.5-1
Lab Sample ID: 720-91136-3
Date Collected: 02/01/19 09:10
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.3		1.8	0.29	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Arsenic	67	B	3.5	0.30	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Barium	170		1.8	0.25	mg/Kg		02/02/19 10:23	02/15/19 10:59	4
Beryllium	0.31	J	0.35	0.12	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Cadmium	2.7		0.44	0.044	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Chromium	160		1.8	0.19	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Cobalt	14		0.71	0.071	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Copper	190		5.3	2.5	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Lead	470		1.8	0.37	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Molybdenum	4.3		1.8	0.23	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Nickel	120		1.8	0.18	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Selenium	1.2	J	3.5	0.53	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Silver	0.39	J	0.88	0.18	mg/Kg		02/02/19 10:23	02/15/19 10:59	4
Thallium	ND		1.8	0.51	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Vanadium	62		1.8	0.24	mg/Kg		02/02/19 10:23	02/14/19 18:13	4
Zinc	440		5.3	2.2	mg/Kg		02/02/19 10:23	02/14/19 18:13	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.92		0.016	0.0024	mg/Kg		02/14/19 17:52	02/15/19 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.6		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AX2S-3.5-4
Lab Sample ID: 720-91136-4
Date Collected: 02/01/19 09:10
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.2		1.9	0.31	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Arsenic	96	B	3.8	0.32	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Barium	88		1.9	0.27	mg/Kg		02/02/19 10:23	02/15/19 11:04	4
Beryllium	0.54		0.38	0.12	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Cadmium	1.1		0.47	0.047	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Chromium	110		1.9	0.20	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Cobalt	18		0.75	0.075	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Copper	120		5.7	2.7	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Lead	160		1.9	0.40	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Molybdenum	0.85	J	1.9	0.24	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Nickel	150		1.9	0.19	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Selenium	ND		3.8	0.57	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Silver	0.22	J	0.94	0.19	mg/Kg		02/02/19 10:23	02/15/19 11:04	4
Thallium	ND		1.9	0.55	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Vanadium	65		1.9	0.26	mg/Kg		02/02/19 10:23	02/14/19 18:18	4
Zinc	200		5.7	2.4	mg/Kg		02/02/19 10:23	02/14/19 18:18	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.017	0.0025	mg/Kg		02/14/19 17:52	02/15/19 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			02/06/19 15:09	1

Client Sample ID: DG-AY2S-0.5-1 Lab Sample ID: 720-91136-5

Date Collected: 02/01/19 09:30 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.4		1.8	0.30	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Arsenic	330	B	3.6	0.31	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Barium	58		1.8	0.26	mg/Kg		02/02/19 10:23	02/15/19 11:09	4
Beryllium	0.17	J	0.36	0.12	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Cadmium	1.5		0.45	0.045	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Chromium	26		1.8	0.19	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Cobalt	13		0.72	0.072	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Copper	150		5.4	2.6	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Lead	340		1.8	0.38	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Molybdenum	0.25	J	1.8	0.23	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Nickel	48		1.8	0.18	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Selenium	1.7	J	3.6	0.54	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Silver	0.26	J	0.90	0.18	mg/Kg		02/02/19 10:23	02/15/19 11:09	4
Thallium	ND		1.8	0.52	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Vanadium	48		1.8	0.25	mg/Kg		02/02/19 10:23	02/14/19 18:23	4
Zinc	190		5.4	2.3	mg/Kg		02/02/19 10:23	02/14/19 18:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.015	0.0022	mg/Kg		02/14/19 17:52	02/15/19 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.1	0.05	%			02/06/19 15:09	1

Client Sample ID: DG-AY2S-3.5-4 Lab Sample ID: 720-91136-6

Date Collected: 02/01/19 09:30 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.89	J	1.5	0.25	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Arsenic	11	B	3.0	0.26	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Barium	99		1.5	0.22	mg/Kg		02/02/19 10:23	02/15/19 11:14	4
Beryllium	0.53		0.30	0.098	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Cadmium	0.19	J	0.38	0.038	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Chromium	93		1.5	0.16	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Cobalt	17		0.61	0.061	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Copper	27		4.5	2.2	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Lead	7.1		1.5	0.32	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Molybdenum	ND		1.5	0.19	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Nickel	150		1.5	0.15	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Selenium	1.5	J	3.0	0.45	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Silver	ND		0.76	0.15	mg/Kg		02/02/19 10:23	02/15/19 11:14	4
Thallium	ND		1.5	0.44	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Vanadium	66		1.5	0.21	mg/Kg		02/02/19 10:23	02/14/19 18:27	4
Zinc	51		4.5	1.9	mg/Kg		02/02/19 10:23	02/14/19 18:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.69		0.016	0.0023	mg/Kg		02/14/19 17:52	02/15/19 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.05	%			02/06/19 15:09	1

Client Sample ID: DG-AV3S-0.5-1 Lab Sample ID: 720-91136-7

Date Collected: 02/01/19 10:05 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.2		1.5	0.24	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Arsenic	690	B	2.9	0.25	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Barium	130		1.5	0.21	mg/Kg		02/02/19 10:23	02/15/19 11:28	4
Beryllium	ND		0.29	0.096	mg/Kg		02/02/19 10:23	02/15/19 11:28	4
Cadmium	0.69		0.37	0.036	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Chromium	12		1.5	0.16	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Cobalt	10		0.59	0.059	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Copper	300		4.4	2.1	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Lead	230		1.5	0.31	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Molybdenum	ND		1.5	0.19	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Nickel	12		1.5	0.15	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Selenium	0.54	J	2.9	0.44	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Silver	0.45	J	0.74	0.15	mg/Kg		02/02/19 10:23	02/15/19 11:28	4
Thallium	ND		1.5	0.43	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Vanadium	77		1.5	0.20	mg/Kg		02/02/19 10:23	02/14/19 18:42	4
Zinc	150		4.4	1.9	mg/Kg		02/02/19 10:23	02/14/19 18:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.015	0.0023	mg/Kg		02/14/19 17:52	02/15/19 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			02/06/19 15:09	1

Client Sample ID: DG-AV3S-3.5-4 Lab Sample ID: 720-91136-8

Date Collected: 02/01/19 10:05 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.4	0.23	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Arsenic	7.1	B	2.8	0.24	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Barium	27		1.4	0.20	mg/Kg		02/02/19 10:23	02/15/19 11:33	4
Beryllium	ND		0.28	0.090	mg/Kg		02/02/19 10:23	02/15/19 11:33	4
Cadmium	0.20	J	0.35	0.034	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Chromium	9.6		1.4	0.15	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Cobalt	8.9		0.56	0.056	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Copper	110		4.2	2.0	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Lead	41		1.4	0.29	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Molybdenum	ND		1.4	0.18	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Nickel	7.6		1.4	0.14	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Selenium	ND		2.8	0.42	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Silver	0.17	J	0.69	0.14	mg/Kg		02/02/19 10:23	02/15/19 11:33	4
Thallium	ND		1.4	0.40	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Vanadium	63		1.4	0.19	mg/Kg		02/02/19 10:23	02/14/19 18:46	4
Zinc	59		4.2	1.8	mg/Kg		02/02/19 10:23	02/14/19 18:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.014	0.0021	mg/Kg		02/14/19 17:52	02/15/19 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.8		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AZ2S-0.5-1

Date Collected: 02/01/19 09:50
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-9

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0		1.9	0.32	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Arsenic	210	B	3.8	0.33	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Barium	77		9.6	1.4	mg/Kg		02/02/19 10:23	02/15/19 11:37	20
Beryllium	ND		1.9	0.63	mg/Kg		02/02/19 10:23	02/15/19 11:37	20
Cadmium	0.77		0.48	0.048	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Chromium	12		1.9	0.20	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Cobalt	5.7		0.77	0.077	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Copper	610		5.8	2.7	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Lead	250		1.9	0.40	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Molybdenum	0.35	J	1.9	0.25	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Nickel	17		1.9	0.20	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Selenium	ND		3.8	0.58	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Silver	ND		4.8	0.97	mg/Kg		02/02/19 10:23	02/15/19 11:37	20
Thallium	ND		1.9	0.56	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Vanadium	39		1.9	0.26	mg/Kg		02/02/19 10:23	02/14/19 18:51	4
Zinc	110		29	12	mg/Kg		02/02/19 10:23	02/15/19 11:37	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.016	0.0024	mg/Kg		02/14/19 17:52	02/15/19 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.1		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AZ2S-3.5-4

Date Collected: 02/01/19 09:50
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1		1.7	0.29	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Arsenic	130	B	3.5	0.30	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Barium	62		1.7	0.25	mg/Kg		02/02/19 10:23	02/15/19 11:42	4
Beryllium	0.38		0.35	0.11	mg/Kg		02/02/19 10:23	02/15/19 11:42	4
Cadmium	0.23	J	0.43	0.043	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Chromium	80		1.7	0.18	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Cobalt	17		0.70	0.070	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Copper	55		5.2	2.5	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Lead	56		1.7	0.37	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Molybdenum	ND		1.7	0.22	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Nickel	95		1.7	0.18	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Selenium	0.73	J	3.5	0.52	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Silver	ND		0.87	0.18	mg/Kg		02/02/19 10:23	02/15/19 11:42	4
Thallium	ND		1.7	0.50	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Vanadium	64		1.7	0.24	mg/Kg		02/02/19 10:23	02/14/19 18:56	4
Zinc	82		5.2	2.2	mg/Kg		02/02/19 10:23	02/14/19 18:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.3		0.14	0.021	mg/Kg		02/14/19 17:52	02/15/19 13:51	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.0		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AX3S-0.5-1
Lab Sample ID: 720-91136-11
Date Collected: 02/01/19 10:20
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	35		1.7	0.28	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Arsenic	350	B	3.4	0.29	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Barium	250		1.7	0.24	mg/Kg		02/02/19 10:23	02/15/19 11:47	4
Beryllium	0.32	J	0.34	0.11	mg/Kg		02/02/19 10:23	02/15/19 11:47	4
Cadmium	2.8		0.43	0.042	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Chromium	43		1.7	0.18	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Cobalt	12		0.68	0.068	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Copper	640		5.1	2.4	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Lead	3100		1.7	0.36	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Molybdenum	ND		1.7	0.22	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Nickel	59		1.7	0.17	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Selenium	2.1	J	3.4	0.51	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Silver	6.1		0.85	0.17	mg/Kg		02/02/19 10:23	02/15/19 11:47	4
Thallium	ND		1.7	0.50	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Vanadium	43		1.7	0.23	mg/Kg		02/02/19 10:23	02/14/19 19:01	4
Zinc	1000		5.1	2.2	mg/Kg		02/02/19 10:23	02/14/19 19:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.016	0.0023	mg/Kg		02/14/19 17:52	02/15/19 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.4		0.1	0.05	%			02/06/19 15:09	1

Client Sample ID: DG-AX3S-3.5-4 Lab Sample ID: 720-91136-12

Date Collected: 02/01/19 10:20 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.97	J	1.8	0.29	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Arsenic	60	B	3.5	0.30	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Barium	67		1.8	0.25	mg/Kg		02/02/19 10:23	02/15/19 11:52	4
Beryllium	0.31	J	0.35	0.11	mg/Kg		02/02/19 10:23	02/15/19 11:52	4
Cadmium	0.26	J	0.44	0.044	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Chromium	97		1.8	0.19	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Cobalt	18		0.70	0.070	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Copper	33		5.3	2.5	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Lead	10		1.8	0.37	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Molybdenum	ND		1.8	0.22	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Nickel	140		1.8	0.18	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Selenium	0.73	J	3.5	0.53	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Silver	ND		0.88	0.18	mg/Kg		02/02/19 10:23	02/15/19 11:52	4
Thallium	ND		1.8	0.51	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Vanadium	67		1.8	0.24	mg/Kg		02/02/19 10:23	02/14/19 19:05	4
Zinc	56		5.3	2.2	mg/Kg		02/02/19 10:23	02/14/19 19:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.2		0.061	0.0090	mg/Kg		02/14/19 17:52	02/15/19 13:56	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		0.1	0.05	%			02/06/19 15:09	1

Client Sample ID: DG-AW4S-0.5-1 Lab Sample ID: 720-91136-13

Date Collected: 02/01/19 10:30 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0	B	1.8	0.30	mg/Kg		02/02/19 12:30	02/15/19 14:24	4
Arsenic	51		3.6	0.31	mg/Kg		02/02/19 12:30	02/14/19 19:36	4
Barium	96		1.8	0.26	mg/Kg		02/02/19 12:30	02/15/19 14:24	4
Beryllium	ND		0.36	0.12	mg/Kg		02/02/19 12:30	02/14/19 19:36	4
Cadmium	2.6		0.45	0.045	mg/Kg		02/02/19 12:30	02/15/19 14:24	4
Chromium	35	B	1.8	0.19	mg/Kg		02/02/19 12:30	02/15/19 14:24	4
Cobalt	11		0.72	0.072	mg/Kg		02/02/19 12:30	02/15/19 14:24	4
Copper	200		5.4	2.6	mg/Kg		02/02/19 12:30	02/15/19 14:24	4
Lead	370		1.8	0.38	mg/Kg		02/02/19 12:30	02/14/19 19:36	4
Molybdenum	2.9		1.8	0.23	mg/Kg		02/02/19 12:30	02/15/19 14:24	4
Nickel	37	B	1.8	0.18	mg/Kg		02/02/19 12:30	02/14/19 19:36	4
Selenium	1.5	J	3.6	0.54	mg/Kg		02/02/19 12:30	02/14/19 19:36	4
Silver	0.97		0.90	0.18	mg/Kg		02/02/19 12:30	02/14/19 19:36	4
Thallium	0.86	J	1.8	0.52	mg/Kg		02/02/19 12:30	02/14/19 19:36	4
Vanadium	60		1.8	0.25	mg/Kg		02/02/19 12:30	02/14/19 19:36	4
Zinc	590		5.4	2.3	mg/Kg		02/02/19 12:30	02/14/19 19:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.015	0.0023	mg/Kg		02/14/19 17:21	02/15/19 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		0.1	0.05	%			02/06/19 15:09	1

Client Sample ID: DG-AW4S-3.5-4 Lab Sample ID: 720-91136-14

Date Collected: 02/01/19 10:30 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J B	1.2	0.20	mg/Kg		02/02/19 12:30	02/15/19 14:29	4
Arsenic	62		2.4	0.21	mg/Kg		02/02/19 12:30	02/14/19 19:41	4
Barium	53		1.2	0.17	mg/Kg		02/02/19 12:30	02/15/19 14:29	4
Beryllium	ND		0.24	0.079	mg/Kg		02/02/19 12:30	02/14/19 19:41	4
Cadmium	0.41		0.30	0.030	mg/Kg		02/02/19 12:30	02/15/19 14:29	4
Chromium	13	B	1.2	0.13	mg/Kg		02/02/19 12:30	02/15/19 14:29	4
Cobalt	8.5		0.48	0.048	mg/Kg		02/02/19 12:30	02/15/19 14:29	4
Copper	58		3.6	1.7	mg/Kg		02/02/19 12:30	02/15/19 14:29	4
Lead	16		1.2	0.25	mg/Kg		02/02/19 12:30	02/14/19 19:41	4
Molybdenum	ND		1.2	0.16	mg/Kg		02/02/19 12:30	02/15/19 14:29	4
Nickel	16	B	1.2	0.12	mg/Kg		02/02/19 12:30	02/14/19 19:41	4
Selenium	ND		2.4	0.36	mg/Kg		02/02/19 12:30	02/14/19 19:41	4
Silver	ND		0.61	0.12	mg/Kg		02/02/19 12:30	02/14/19 19:41	4
Thallium	0.36	J	1.2	0.35	mg/Kg		02/02/19 12:30	02/14/19 19:41	4
Vanadium	56		1.2	0.16	mg/Kg		02/02/19 12:30	02/14/19 19:41	4
Zinc	91		3.6	1.5	mg/Kg		02/02/19 12:30	02/14/19 19:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.099		0.015	0.0023	mg/Kg		02/14/19 17:21	02/15/19 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AY4S-0.5-1
Lab Sample ID: 720-91136-15

Date Collected: 02/01/19 11:00
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	11	B	1.5	0.24	mg/Kg		02/02/19 12:30	02/15/19 14:34	4
Arsenic	13		2.9	0.25	mg/Kg		02/02/19 12:30	02/14/19 19:46	4
Barium	130		1.5	0.21	mg/Kg		02/02/19 12:30	02/15/19 14:34	4
Beryllium	ND		0.29	0.096	mg/Kg		02/02/19 12:30	02/14/19 19:46	4
Cadmium	3.1		0.37	0.036	mg/Kg		02/02/19 12:30	02/15/19 14:34	4
Chromium	47	B	1.5	0.16	mg/Kg		02/02/19 12:30	02/15/19 14:34	4
Cobalt	11		0.59	0.059	mg/Kg		02/02/19 12:30	02/15/19 14:34	4
Copper	170		4.4	2.1	mg/Kg		02/02/19 12:30	02/15/19 14:34	4
Lead	1100		1.5	0.31	mg/Kg		02/02/19 12:30	02/14/19 19:46	4
Molybdenum	3.8		1.5	0.19	mg/Kg		02/02/19 12:30	02/15/19 14:34	4
Nickel	82	B	1.5	0.15	mg/Kg		02/02/19 12:30	02/14/19 19:46	4
Selenium	2.5	J	2.9	0.44	mg/Kg		02/02/19 12:30	02/14/19 19:46	4
Silver	0.37	J	0.74	0.15	mg/Kg		02/02/19 12:30	02/14/19 19:46	4
Thallium	ND		1.5	0.43	mg/Kg		02/02/19 12:30	02/14/19 19:46	4
Vanadium	35		1.5	0.20	mg/Kg		02/02/19 12:30	02/14/19 19:46	4
Zinc	520		4.4	1.9	mg/Kg		02/02/19 12:30	02/14/19 19:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.0017	0.00025	mg/Kg		02/14/19 17:21	02/15/19 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AY4S-3.5-4

Date Collected: 02/01/19 11:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.3	F1 B	1.9	0.31	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Arsenic	7.6		3.7	0.31	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Barium	96	F1	1.9	0.26	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Beryllium	0.34	J	0.37	0.12	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Cadmium	0.15	J	0.46	0.046	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Chromium	56	F2 F1 B	1.9	0.20	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Cobalt	15		0.74	0.074	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Copper	37	F1	5.6	2.6	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Lead	22	F1	1.9	0.39	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Molybdenum	ND		1.9	0.24	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Nickel	71	F2 F1 B	1.9	0.19	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Selenium	1.5	J	3.7	0.56	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Silver	ND		0.93	0.19	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Thallium	ND		1.9	0.54	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Vanadium	53		1.9	0.25	mg/Kg		02/02/19 12:30	02/14/19 17:56	4
Zinc	87	F1	5.6	2.4	mg/Kg		02/02/19 12:30	02/14/19 17:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.45		0.016	0.0024	mg/Kg		02/14/19 17:21	02/15/19 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AX4S-0.5-1
Lab Sample ID: 720-91136-17
Date Collected: 02/01/19 11:15
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.7	B	1.9	0.31	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Arsenic	240		3.7	0.31	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Barium	110		1.9	0.26	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Beryllium	ND		0.37	0.12	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Cadmium	0.75		0.46	0.046	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Chromium	28	B	1.9	0.20	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Cobalt	12		0.74	0.074	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Copper	110		5.6	2.6	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Lead	160		1.9	0.39	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Molybdenum	0.39	J	1.9	0.24	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Nickel	30	B	1.9	0.19	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Selenium	1.5	J	3.7	0.56	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Silver	ND		0.93	0.19	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Thallium	ND		1.9	0.54	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Vanadium	62		1.9	0.25	mg/Kg		02/02/19 12:30	02/14/19 18:01	4
Zinc	200		5.6	2.4	mg/Kg		02/02/19 12:30	02/14/19 18:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.017	0.0025	mg/Kg		02/14/19 17:21	02/15/19 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.2		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AX4S-3.5-4
Lab Sample ID: 720-91136-18
Date Collected: 02/01/19 11:15
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.6	B	1.5	0.24	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Arsenic	420		2.9	0.25	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Barium	81		1.5	0.21	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Beryllium	0.29		0.29	0.096	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Cadmium	0.14	J	0.37	0.036	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Chromium	47	B	1.5	0.16	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Cobalt	14		0.59	0.059	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Copper	18		4.4	2.1	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Lead	5.3		1.5	0.31	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Molybdenum	0.20	J	1.5	0.19	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Nickel	35	B	1.5	0.15	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Selenium	0.90	J	2.9	0.44	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Silver	ND		0.74	0.15	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Thallium	ND		1.5	0.43	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Vanadium	50		1.5	0.20	mg/Kg		02/02/19 12:30	02/14/19 18:06	4
Zinc	35		4.4	1.9	mg/Kg		02/02/19 12:30	02/14/19 18:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.014	0.0021	mg/Kg		02/14/19 17:21	02/15/19 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		0.1	0.05	%			02/06/19 15:09	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AZ3S-0.5-1
Lab Sample ID: 720-91136-19
Date Collected: 02/01/19 11:25
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6	B	1.6	0.27	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Arsenic	120		3.2	0.27	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Barium	34		1.6	0.23	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Beryllium	ND		0.32	0.10	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Cadmium	0.17	J	0.40	0.040	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Chromium	8.3	B	1.6	0.17	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Cobalt	9.4		0.64	0.064	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Copper	89		4.8	2.3	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Lead	64		1.6	0.34	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Molybdenum	ND		1.6	0.20	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Nickel	9.1	B	1.6	0.16	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Selenium	0.64	J	3.2	0.48	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Silver	ND		0.80	0.16	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Thallium	ND		1.6	0.46	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Vanadium	59		1.6	0.22	mg/Kg		02/02/19 12:30	02/14/19 18:10	4
Zinc	64		4.8	2.0	mg/Kg		02/02/19 12:30	02/14/19 18:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.016	0.0023	mg/Kg		02/14/19 17:21	02/15/19 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.1	0.05	%			02/06/19 15:40	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AZ3S-3.5-4
Lab Sample ID: 720-91136-20
Date Collected: 02/01/19 11:25
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.5	B	1.9	0.31	mg/Kg		02/02/19 12:30	02/15/19 13:13	4
Arsenic	88		3.8	0.32	mg/Kg		02/02/19 12:30	02/14/19 18:25	4
Barium	47		1.9	0.27	mg/Kg		02/02/19 12:30	02/15/19 13:13	4
Beryllium	0.43		0.38	0.12	mg/Kg		02/02/19 12:30	02/14/19 18:25	4
Cadmium	1.0		0.47	0.047	mg/Kg		02/02/19 12:30	02/15/19 13:13	4
Chromium	43	B	1.9	0.20	mg/Kg		02/02/19 12:30	02/15/19 13:13	4
Cobalt	17		0.75	0.075	mg/Kg		02/02/19 12:30	02/14/19 18:25	4
Copper	20		5.7	2.7	mg/Kg		02/02/19 12:30	02/15/19 13:13	4
Lead	29		1.9	0.40	mg/Kg		02/02/19 12:30	02/14/19 18:25	4
Molybdenum	ND		1.9	0.24	mg/Kg		02/02/19 12:30	02/15/19 13:13	4
Nickel	34	B	1.9	0.19	mg/Kg		02/02/19 12:30	02/14/19 18:25	4
Selenium	4.9		3.8	0.57	mg/Kg		02/02/19 12:30	02/14/19 18:25	4
Silver	ND		0.94	0.19	mg/Kg		02/02/19 12:30	02/14/19 18:25	4
Thallium	1.4	J	1.9	0.55	mg/Kg		02/02/19 12:30	02/14/19 18:25	4
Vanadium	68		1.9	0.26	mg/Kg		02/02/19 12:30	02/14/19 18:25	4
Zinc	1100		5.7	2.4	mg/Kg		02/02/19 12:30	02/14/19 18:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.015	0.0022	mg/Kg		02/14/19 17:21	02/15/19 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.5		0.1	0.05	%			02/06/19 15:40	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AX6S-0.5-1
Lab Sample ID: 720-91136-21
Date Collected: 02/01/19 12:00
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	26	B	6.5	1.1	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Arsenic	33		13	1.1	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Barium	1000		3.2	0.46	mg/Kg		02/02/19 12:30	02/15/19 13:18	10
Beryllium	0.47		0.26	0.084	mg/Kg		02/02/19 12:30	02/14/19 18:29	4
Cadmium	0.89	J	1.6	0.16	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Chromium	34	B	6.5	0.69	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Cobalt	12		2.6	0.26	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Copper	950		19	9.2	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Lead	2500		6.5	1.4	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Molybdenum	0.81	J	3.2	0.42	mg/Kg		02/02/19 12:30	02/15/19 13:18	10
Nickel	35	B	6.5	0.66	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Selenium	11	J	13	1.9	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Silver	6.8		3.2	0.66	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Thallium	ND		6.5	1.9	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Vanadium	32		6.5	0.88	mg/Kg		02/02/19 12:30	02/15/19 15:42	20
Zinc	1500		19	8.2	mg/Kg		02/02/19 12:30	02/15/19 15:42	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.016	0.0024	mg/Kg		02/14/19 17:21	02/15/19 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.9		0.1	0.05	%			02/06/19 15:40	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AX6S-3.5-4
Lab Sample ID: 720-91136-22
Date Collected: 02/01/19 12:00
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.96	J B	1.6	0.27	mg/Kg		02/02/19 12:30	02/15/19 13:23	4
Arsenic	7.3		3.3	0.28	mg/Kg		02/02/19 12:30	02/14/19 18:34	4
Barium	79		1.6	0.23	mg/Kg		02/02/19 12:30	02/15/19 13:23	4
Beryllium	0.99		0.33	0.11	mg/Kg		02/02/19 12:30	02/14/19 18:34	4
Cadmium	0.21	J	0.41	0.041	mg/Kg		02/02/19 12:30	02/15/19 13:23	4
Chromium	34	B	1.6	0.17	mg/Kg		02/02/19 12:30	02/15/19 13:23	4
Cobalt	25		0.66	0.066	mg/Kg		02/02/19 12:30	02/14/19 18:34	4
Copper	37		4.9	2.3	mg/Kg		02/02/19 12:30	02/15/19 13:23	4
Lead	49		1.6	0.34	mg/Kg		02/02/19 12:30	02/14/19 18:34	4
Molybdenum	ND		1.6	0.21	mg/Kg		02/02/19 12:30	02/15/19 13:23	4
Nickel	45	B	1.6	0.17	mg/Kg		02/02/19 12:30	02/14/19 18:34	4
Selenium	1.3	J	3.3	0.49	mg/Kg		02/02/19 12:30	02/14/19 18:34	4
Silver	ND		0.82	0.17	mg/Kg		02/02/19 12:30	02/14/19 18:34	4
Thallium	ND		1.6	0.48	mg/Kg		02/02/19 12:30	02/14/19 18:34	4
Vanadium	52		1.6	0.22	mg/Kg		02/02/19 12:30	02/14/19 18:34	4
Zinc	89		4.9	2.1	mg/Kg		02/02/19 12:30	02/14/19 18:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.015	0.0022	mg/Kg		02/14/19 17:21	02/15/19 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.0		0.1	0.05	%			02/06/19 15:40	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AQ10S-0.5-1
Lab Sample ID: 720-91136-23
Date Collected: 02/01/19 12:30
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J B	1.7	0.29	mg/Kg		02/02/19 12:30	02/15/19 13:27	4
Arsenic	2.3	J	3.5	0.30	mg/Kg		02/02/19 12:30	02/14/19 18:39	4
Barium	55		1.7	0.25	mg/Kg		02/02/19 12:30	02/15/19 13:27	4
Beryllium	ND		0.35	0.11	mg/Kg		02/02/19 12:30	02/14/19 18:39	4
Cadmium	1.2		0.43	0.043	mg/Kg		02/02/19 12:30	02/15/19 13:27	4
Chromium	33	B	1.7	0.18	mg/Kg		02/02/19 12:30	02/15/19 13:27	4
Cobalt	16		0.70	0.070	mg/Kg		02/02/19 12:30	02/14/19 18:39	4
Copper	140		5.2	2.5	mg/Kg		02/02/19 12:30	02/15/19 13:27	4
Lead	140		1.7	0.37	mg/Kg		02/02/19 12:30	02/14/19 18:39	4
Molybdenum	0.58	J	1.7	0.22	mg/Kg		02/02/19 12:30	02/15/19 13:27	4
Nickel	13	B	1.7	0.18	mg/Kg		02/02/19 12:30	02/14/19 18:39	4
Selenium	ND		3.5	0.52	mg/Kg		02/02/19 12:30	02/14/19 18:39	4
Silver	0.28	J	0.87	0.18	mg/Kg		02/02/19 12:30	02/14/19 18:39	4
Thallium	0.63	J	1.7	0.50	mg/Kg		02/02/19 12:30	02/14/19 18:39	4
Vanadium	110		1.7	0.24	mg/Kg		02/02/19 12:30	02/14/19 18:39	4
Zinc	260		5.2	2.2	mg/Kg		02/02/19 12:30	02/14/19 18:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.016	0.0023	mg/Kg		02/14/19 17:21	02/15/19 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1	0.05	%			02/06/19 15:40	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-28
Lab Sample ID: 720-91136-24
Date Collected: 02/01/19 00:00
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	22	B	1.2	0.20	mg/Kg		02/02/19 12:30	02/15/19 13:32	4
Arsenic	18		2.5	0.21	mg/Kg		02/02/19 12:30	02/14/19 18:44	4
Barium	190		1.2	0.17	mg/Kg		02/02/19 12:30	02/15/19 13:32	4
Beryllium	ND		0.25	0.080	mg/Kg		02/02/19 12:30	02/14/19 18:44	4
Cadmium	3.6		0.31	0.030	mg/Kg		02/02/19 12:30	02/15/19 13:32	4
Chromium	56	B	1.2	0.13	mg/Kg		02/02/19 12:30	02/15/19 13:32	4
Cobalt	10		0.49	0.049	mg/Kg		02/02/19 12:30	02/14/19 18:44	4
Copper	190		3.7	1.7	mg/Kg		02/02/19 12:30	02/15/19 13:32	4
Lead	1100		1.2	0.26	mg/Kg		02/02/19 12:30	02/14/19 18:44	4
Molybdenum	3.7		1.2	0.16	mg/Kg		02/02/19 12:30	02/15/19 13:32	4
Nickel	63	B	1.2	0.13	mg/Kg		02/02/19 12:30	02/14/19 18:44	4
Selenium	2.5		2.5	0.37	mg/Kg		02/02/19 12:30	02/14/19 18:44	4
Silver	0.52	J	0.61	0.12	mg/Kg		02/02/19 12:30	02/14/19 18:44	4
Thallium	0.52	J	1.2	0.36	mg/Kg		02/02/19 12:30	02/14/19 18:44	4
Vanadium	36		1.2	0.17	mg/Kg		02/02/19 12:30	02/14/19 18:44	4
Zinc	710		3.7	1.6	mg/Kg		02/02/19 12:30	02/14/19 18:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.65		0.015	0.0023	mg/Kg		02/14/19 17:21	02/15/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.1		0.1	0.05	%			02/06/19 15:40	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AQ10S-3.5-4
Lab Sample ID: 720-91136-25
Date Collected: 02/01/19 12:30
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	22	B	2.7	0.45	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Arsenic	14		5.4	0.46	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Barium	760		2.7	0.38	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Beryllium	0.13	J	0.22	0.070	mg/Kg		02/02/19 12:30	02/14/19 18:49	4
Cadmium	4.1		0.68	0.067	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Chromium	40	B	2.7	0.29	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Cobalt	11		1.1	0.11	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Copper	7700		8.1	3.8	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Lead	2700		2.7	0.57	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Molybdenum	0.75	J	2.7	0.35	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Nickel	46	B	2.7	0.28	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Selenium	5.8		5.4	0.81	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Silver	6.2		1.4	0.27	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Thallium	ND		2.7	0.78	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Vanadium	40		2.7	0.37	mg/Kg		02/02/19 12:30	02/15/19 13:37	10
Zinc	2700		8.1	3.4	mg/Kg		02/02/19 12:30	02/15/19 13:37	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.014	0.0021	mg/Kg		02/14/19 17:21	02/15/19 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.4		0.1	0.05	%			02/06/19 15:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AK8S-0.5-1

Date Collected: 02/01/19 13:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-26

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J B	1.2	0.19	mg/Kg		02/02/19 12:30	02/15/19 13:41	4
Arsenic	0.84	J	2.3	0.20	mg/Kg		02/02/19 12:30	02/14/19 18:54	4
Barium	56		1.2	0.17	mg/Kg		02/02/19 12:30	02/15/19 13:41	4
Beryllium	ND		0.23	0.076	mg/Kg		02/02/19 12:30	02/14/19 18:54	4
Cadmium	0.57		0.29	0.029	mg/Kg		02/02/19 12:30	02/15/19 13:41	4
Chromium	24	B	1.2	0.12	mg/Kg		02/02/19 12:30	02/15/19 13:41	4
Cobalt	9.5		0.47	0.047	mg/Kg		02/02/19 12:30	02/14/19 18:54	4
Copper	120		3.5	1.7	mg/Kg		02/02/19 12:30	02/15/19 13:41	4
Lead	69		1.2	0.25	mg/Kg		02/02/19 12:30	02/14/19 18:54	4
Molybdenum	ND		1.2	0.15	mg/Kg		02/02/19 12:30	02/15/19 13:41	4
Nickel	6.3	B	1.2	0.12	mg/Kg		02/02/19 12:30	02/14/19 18:54	4
Selenium	0.37	J	2.3	0.35	mg/Kg		02/02/19 12:30	02/14/19 18:54	4
Silver	0.13	J	0.58	0.12	mg/Kg		02/02/19 12:30	02/14/19 18:54	4
Thallium	0.46	J	1.2	0.34	mg/Kg		02/02/19 12:30	02/14/19 18:54	4
Vanadium	86		1.2	0.16	mg/Kg		02/02/19 12:30	02/14/19 18:54	4
Zinc	140		3.5	1.5	mg/Kg		02/02/19 12:30	02/14/19 18:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.017	0.0025	mg/Kg		02/14/19 17:21	02/15/19 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		0.1	0.05	%			02/06/19 15:40	1

Client Sample ID: DG-AK8S-3.5-4 Lab Sample ID: 720-91136-27

Date Collected: 02/01/19 13:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.19	mg/Kg		02/02/19 12:30	02/15/19 13:46	4
Arsenic	**5.3**		2.3	0.19	mg/Kg		02/02/19 12:30	02/14/19 18:58	4
Barium	**62**		1.1	0.16	mg/Kg		02/02/19 12:30	02/15/19 13:46	4
Beryllium	ND		0.23	0.073	mg/Kg		02/02/19 12:30	02/14/19 18:58	4
Cadmium	**0.22**	**J**	0.28	0.028	mg/Kg		02/02/19 12:30	02/15/19 13:46	4
Chromium	**14**	**B**	1.1	0.12	mg/Kg		02/02/19 12:30	02/15/19 13:46	4
Cobalt	**4.3**		0.45	0.045	mg/Kg		02/02/19 12:30	02/14/19 18:58	4
Copper	**12**		3.4	1.6	mg/Kg		02/02/19 12:30	02/15/19 13:46	4
Lead	**17**		1.1	0.24	mg/Kg		02/02/19 12:30	02/14/19 18:58	4
Molybdenum	ND		1.1	0.14	mg/Kg		02/02/19 12:30	02/15/19 13:46	4
Nickel	**14**	**B**	1.1	0.12	mg/Kg		02/02/19 12:30	02/14/19 18:58	4
Selenium	**0.41**	**J**	2.3	0.34	mg/Kg		02/02/19 12:30	02/14/19 18:58	4
Silver	ND		0.56	0.11	mg/Kg		02/02/19 12:30	02/14/19 18:58	4
Thallium	ND		1.1	0.33	mg/Kg		02/02/19 12:30	02/14/19 18:58	4
Vanadium	**19**		1.1	0.15	mg/Kg		02/02/19 12:30	02/14/19 18:58	4
Zinc	**32**		3.4	1.4	mg/Kg		02/02/19 12:30	02/14/19 18:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.037**		0.015	0.0021	mg/Kg		02/14/19 17:21	02/15/19 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.4**		0.1	0.05	%			02/06/19 15:40	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AI13S-0.5-1
Lab Sample ID: 720-91136-28
Date Collected: 02/01/19 13:15
Matrix: Solid
Date Received: 02/01/19 16:42

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	1.7	0.29	mg/Kg		02/02/19 12:30	02/15/19 14:10	4
Arsenic	**3.3**	**J**	3.4	0.29	mg/Kg		02/02/19 12:30	02/14/19 19:22	4
Barium	**16**		1.7	0.24	mg/Kg		02/02/19 12:30	02/15/19 14:10	4
Beryllium	ND		0.34	0.11	mg/Kg		02/02/19 12:30	02/14/19 19:22	4
Cadmium	**0.28**	**J**	0.43	0.043	mg/Kg		02/02/19 12:30	02/15/19 14:10	4
Chromium	**6.8**	**B**	1.7	0.18	mg/Kg		02/02/19 12:30	02/15/19 14:10	4
Cobalt	**12**		0.69	0.069	mg/Kg		02/02/19 12:30	02/15/19 14:10	4
Copper	**83**	**F1**	5.2	2.5	mg/Kg		02/02/19 12:30	02/15/19 14:10	4
Lead	**29**		1.7	0.36	mg/Kg		02/02/19 12:30	02/14/19 19:22	4
Molybdenum	ND		1.7	0.22	mg/Kg		02/02/19 12:30	02/15/19 14:10	4
Nickel	**7.5**	**B**	1.7	0.18	mg/Kg		02/02/19 12:30	02/14/19 19:22	4
Selenium	**1.4**	**J**	3.4	0.52	mg/Kg		02/02/19 12:30	02/14/19 19:22	4
Silver	ND		0.86	0.17	mg/Kg		02/02/19 12:30	02/14/19 19:22	4
Thallium	**0.99**	**J**	1.7	0.50	mg/Kg		02/02/19 12:30	02/14/19 19:22	4
Vanadium	**100**	**F1**	1.7	0.23	mg/Kg		02/02/19 12:30	02/14/19 19:22	4
Zinc	**74**	**F1**	5.2	2.2	mg/Kg		02/02/19 12:30	02/14/19 19:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.014	0.0021	mg/Kg		02/14/19 17:21	02/15/19 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.4**		0.1	0.05	%			02/06/19 15:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AI13S-3.5-4

Date Collected: 02/01/19 13:15
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.29	mg/Kg		02/02/19 12:30	02/15/19 14:15	4
Arsenic	**33**		3.5	0.30	mg/Kg		02/02/19 12:30	02/14/19 19:27	4
Barium	**31**		1.7	0.25	mg/Kg		02/02/19 12:30	02/15/19 14:15	4
Beryllium	ND		0.35	0.11	mg/Kg		02/02/19 12:30	02/14/19 19:27	4
Cadmium	**0.23**	**J**	0.43	0.043	mg/Kg		02/02/19 12:30	02/15/19 14:15	4
Chromium	**4.4**	**B**	1.7	0.18	mg/Kg		02/02/19 12:30	02/15/19 14:15	4
Cobalt	**9.3**		0.70	0.070	mg/Kg		02/02/19 12:30	02/15/19 14:15	4
Copper	**62**		5.2	2.5	mg/Kg		02/02/19 12:30	02/15/19 14:15	4
Lead	**34**		1.7	0.37	mg/Kg		02/02/19 12:30	02/14/19 19:27	4
Molybdenum	ND		1.7	0.22	mg/Kg		02/02/19 12:30	02/15/19 14:15	4
Nickel	**10**	**B**	1.7	0.18	mg/Kg		02/02/19 12:30	02/14/19 19:27	4
Selenium	**0.73**	**J**	3.5	0.52	mg/Kg		02/02/19 12:30	02/14/19 19:27	4
Silver	ND		0.87	0.18	mg/Kg		02/02/19 12:30	02/14/19 19:27	4
Thallium	ND		1.7	0.50	mg/Kg		02/02/19 12:30	02/14/19 19:27	4
Vanadium	**62**		1.7	0.24	mg/Kg		02/02/19 12:30	02/14/19 19:27	4
Zinc	**83**		5.2	2.2	mg/Kg		02/02/19 12:30	02/14/19 19:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**		0.016	0.0023	mg/Kg		02/14/19 17:21	02/15/19 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.05	%			02/06/19 15:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DUP-94

Date Collected: 02/01/19 00:00
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J B	1.8	0.29	mg/Kg		02/02/19 12:30	02/15/19 14:20	4
Arsenic	73		3.5	0.30	mg/Kg		02/02/19 12:30	02/14/19 19:32	4
Barium	31		1.8	0.25	mg/Kg		02/02/19 12:30	02/15/19 14:20	4
Beryllium	ND		0.35	0.11	mg/Kg		02/02/19 12:30	02/14/19 19:32	4
Cadmium	0.23	J	0.44	0.044	mg/Kg		02/02/19 12:30	02/15/19 14:20	4
Chromium	16	B	1.8	0.19	mg/Kg		02/02/19 12:30	02/15/19 14:20	4
Cobalt	12		0.70	0.070	mg/Kg		02/02/19 12:30	02/15/19 14:20	4
Copper	130		5.3	2.5	mg/Kg		02/02/19 12:30	02/15/19 14:20	4
Lead	50		1.8	0.37	mg/Kg		02/02/19 12:30	02/14/19 19:32	4
Molybdenum	ND		1.8	0.22	mg/Kg		02/02/19 12:30	02/15/19 14:20	4
Nickel	20	B	1.8	0.18	mg/Kg		02/02/19 12:30	02/14/19 19:32	4
Selenium	ND		3.5	0.53	mg/Kg		02/02/19 12:30	02/14/19 19:32	4
Silver	ND		0.88	0.18	mg/Kg		02/02/19 12:30	02/14/19 19:32	4
Thallium	ND		1.8	0.51	mg/Kg		02/02/19 12:30	02/14/19 19:32	4
Vanadium	86		1.8	0.24	mg/Kg		02/02/19 12:30	02/14/19 19:32	4
Zinc	98		5.3	2.2	mg/Kg		02/02/19 12:30	02/14/19 19:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.016	0.0024	mg/Kg		02/14/19 17:21	02/15/19 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.2		0.1	0.05	%			02/06/19 15:40	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259705/1-A
Matrix: Solid
Analysis Batch: 260406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Arsenic	0.109	J	1.0	0.085	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Barium	ND		0.50	0.071	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Beryllium	ND		0.10	0.033	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Cadmium	ND		0.13	0.012	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Chromium	ND		0.50	0.053	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Cobalt	ND		0.20	0.020	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Copper	ND		1.5	0.71	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Lead	ND		0.50	0.11	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Nickel	ND		0.50	0.051	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Selenium	ND		1.0	0.15	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Thallium	ND		0.50	0.15	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Vanadium	ND		0.50	0.068	mg/Kg		02/02/19 10:23	02/14/19 16:47	1
Zinc	ND		1.5	0.64	mg/Kg		02/02/19 10:23	02/14/19 16:47	1

Lab Sample ID: MB 720-259705/1-A
Matrix: Solid
Analysis Batch: 260438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.25	0.051	mg/Kg		02/02/19 10:23	02/15/19 09:34	1

Lab Sample ID: LCS 720-259705/2-A
Matrix: Solid
Analysis Batch: 260406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.9		mg/Kg		102	80 - 120
Arsenic	50.0	53.0		mg/Kg		106	80 - 120
Barium	50.0	54.8		mg/Kg		110	80 - 120
Beryllium	50.0	54.0		mg/Kg		108	80 - 120
Cadmium	50.0	53.6		mg/Kg		107	80 - 120
Chromium	50.0	51.8		mg/Kg		104	80 - 120
Cobalt	50.0	53.0		mg/Kg		106	80 - 120
Copper	50.0	52.9		mg/Kg		106	80 - 120
Lead	50.0	53.8		mg/Kg		108	80 - 120
Molybdenum	50.0	53.9		mg/Kg		108	80 - 120
Nickel	50.0	51.7		mg/Kg		103	80 - 120
Selenium	50.0	51.7		mg/Kg		103	80 - 120
Thallium	50.0	53.7		mg/Kg		107	80 - 120
Vanadium	50.0	53.8		mg/Kg		108	80 - 120
Zinc	50.0	51.9		mg/Kg		104	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259705/2-A
Matrix: Solid
Analysis Batch: 260438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	25.0	23.5		mg/Kg		94	80 - 120

Lab Sample ID: 720-91135-A-1-A MS
Matrix: Solid
Analysis Batch: 260406

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.5	F1	33.8	15.7	F1	mg/Kg		36	75 - 125
Arsenic	4.7	J B	33.8	40.8		mg/Kg		107	75 - 125
Barium	90	F1	33.8	80.9	F1	mg/Kg		-25	75 - 125
Beryllium	0.32	J	33.8	37.1		mg/Kg		109	75 - 125
Cadmium	1.1		33.8	37.3		mg/Kg		107	75 - 125
Chromium	14		33.8	48.9		mg/Kg		103	75 - 125
Cobalt	5.3		33.8	40.9		mg/Kg		105	75 - 125
Copper	110	F1 F2	33.8	154	F1	mg/Kg		130	75 - 125
Lead	280		33.8	342	4	mg/Kg		173	75 - 125
Molybdenum	0.93	J	33.8	35.4		mg/Kg		102	75 - 125
Nickel	46		33.8	79.0		mg/Kg		97	75 - 125
Selenium	ND		33.8	35.1		mg/Kg		104	75 - 125
Thallium	ND		33.8	34.3		mg/Kg		102	75 - 125
Vanadium	56	F1	33.8	100	F1	mg/Kg		131	75 - 125
Zinc	130	F1	33.8	172	F1	mg/Kg		130	75 - 125

Lab Sample ID: 720-91135-A-1-A MS
Matrix: Solid
Analysis Batch: 260438

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		16.9	15.4		mg/Kg		91	75 - 125

Lab Sample ID: 720-91135-A-1-B MSD
Matrix: Solid
Analysis Batch: 260406

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.5	F1	33.8	16.4	F1	mg/Kg		38	75 - 125	5	20
Arsenic	4.7	J B	33.8	40.7		mg/Kg		107	75 - 125	0	20
Barium	90	F1	33.8	92.0	F1	mg/Kg		7	75 - 125	13	20
Beryllium	0.32	J	33.8	34.9		mg/Kg		102	75 - 125	6	20
Cadmium	1.1		33.8	36.2		mg/Kg		104	75 - 125	3	20
Chromium	14		33.8	51.8		mg/Kg		112	75 - 125	6	20
Cobalt	5.3		33.8	41.2		mg/Kg		106	75 - 125	1	20
Copper	110	F1 F2	33.8	208	F1 F2	mg/Kg		291	75 - 125	30	20
Lead	280		33.8	363	4	mg/Kg		234	75 - 125	6	20
Molybdenum	0.93	J	33.8	34.8		mg/Kg		100	75 - 125	2	20
Nickel	46		33.8	85.5		mg/Kg		117	75 - 125	8	20
Selenium	ND		33.8	33.9		mg/Kg		100	75 - 125	4	20
Thallium	ND		33.8	33.8		mg/Kg		100	75 - 125	2	20
Vanadium	56	F1	33.8	95.4		mg/Kg		117	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91135-A-1-B MSD
Matrix: Solid
Analysis Batch: 260406

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	130	F1	33.8	164		mg/Kg		107	75 - 125	5	20

Lab Sample ID: 720-91135-A-1-B MSD
Matrix: Solid
Analysis Batch: 260438

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259705

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		16.9	15.5		mg/Kg		92	75 - 125	1	20

Lab Sample ID: MB 720-259715/1-A
Matrix: Solid
Analysis Batch: 260404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.179	J	0.50	0.083	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Arsenic	ND		1.0	0.085	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Barium	ND		0.50	0.071	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Beryllium	ND		0.10	0.033	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Cadmium	ND		0.13	0.012	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Chromium	0.0953	J	0.50	0.053	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Cobalt	ND		0.20	0.020	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Copper	ND		1.5	0.71	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Lead	ND		0.50	0.11	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Nickel	0.0684	J	0.50	0.051	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Selenium	ND		1.0	0.15	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Silver	ND		0.25	0.051	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Thallium	ND		0.50	0.15	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Vanadium	ND		0.50	0.068	mg/Kg		02/02/19 12:30	02/14/19 17:28	1
Zinc	ND		1.5	0.64	mg/Kg		02/02/19 12:30	02/14/19 17:28	1

Lab Sample ID: LCS 720-259715/2-A
Matrix: Solid
Analysis Batch: 260404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	43.0		mg/Kg		86	80 - 120
Arsenic	50.0	46.1		mg/Kg		92	80 - 120
Barium	50.0	44.2		mg/Kg		88	80 - 120
Beryllium	50.0	45.0		mg/Kg		90	80 - 120
Cadmium	50.0	50.5		mg/Kg		101	80 - 120
Chromium	50.0	44.9		mg/Kg		90	80 - 120
Cobalt	50.0	51.0		mg/Kg		102	80 - 120
Copper	50.0	45.2		mg/Kg		90	80 - 120
Lead	50.0	49.9		mg/Kg		100	80 - 120
Molybdenum	50.0	44.7		mg/Kg		89	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Selenium	50.0	46.6		mg/Kg		93	80 - 120
Silver	25.0	23.2		mg/Kg		93	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-259715/2-A
Matrix: Solid
Analysis Batch: 261993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	48.3		mg/Kg		97	80 - 120
Vanadium	50.0	46.5		mg/Kg		93	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: 720-91136-16 MS
Matrix: Solid
Analysis Batch: 260404

Client Sample ID: DG-AY4S-3.5-4
Prep Type: Total/NA
Prep Batch: 259715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.3	F1 B	45.9	18.4	F1	mg/Kg		31	75 - 125
Arsenic	7.6		45.9	43.5		mg/Kg		78	75 - 125
Barium	96	F1	45.9	101	F1	mg/Kg		12	75 - 125
Beryllium	0.34	J	45.9	40.0		mg/Kg		86	75 - 125
Cadmium	0.15	J	45.9	42.0		mg/Kg		91	75 - 125
Chromium	56	F2 F1 B	45.9	103		mg/Kg		101	75 - 125
Cobalt	15		45.9	54.4		mg/Kg		86	75 - 125
Copper	37	F1	45.9	69.0	F1	mg/Kg		70	75 - 125
Lead	22	F1	45.9	55.8	F1	mg/Kg		73	75 - 125
Molybdenum	ND		45.9	39.6		mg/Kg		86	75 - 125
Nickel	71	F2 F1 B	45.9	112		mg/Kg		90	75 - 125
Selenium	1.5	J	45.9	39.6		mg/Kg		83	75 - 125
Silver	ND		22.9	20.8		mg/Kg		91	75 - 125
Thallium	ND		45.9	41.1		mg/Kg		90	75 - 125
Vanadium	53		45.9	88.5		mg/Kg		78	75 - 125
Zinc	87	F1	45.9	102	F1	mg/Kg		34	75 - 125

Lab Sample ID: 720-91136-16 MSD
Matrix: Solid
Analysis Batch: 260404

Client Sample ID: DG-AY4S-3.5-4
Prep Type: Total/NA
Prep Batch: 259715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.3	F1 B	45.9	19.8	F1	mg/Kg		34	75 - 125	7	20
Arsenic	7.6		45.9	45.9		mg/Kg		83	75 - 125	5	20
Barium	96	F1	45.9	124	F1	mg/Kg		62	75 - 125	20	20
Beryllium	0.34	J	45.9	41.5		mg/Kg		90	75 - 125	4	20
Cadmium	0.15	J	45.9	42.5		mg/Kg		92	75 - 125	1	20
Chromium	56	F2 F1 B	45.9	128	F1 F2	mg/Kg		155	75 - 125	22	20
Cobalt	15		45.9	58.1		mg/Kg		94	75 - 125	7	20
Copper	37	F1	45.9	71.8		mg/Kg		76	75 - 125	4	20
Lead	22	F1	45.9	55.8	F1	mg/Kg		73	75 - 125	0	20
Molybdenum	ND		45.9	38.5		mg/Kg		84	75 - 125	3	20
Nickel	71	F2 F1 B	45.9	161	F1 F2	mg/Kg		197	75 - 125	36	20
Selenium	1.5	J	45.9	39.9		mg/Kg		84	75 - 125	1	20
Silver	ND		22.9	21.3		mg/Kg		93	75 - 125	2	20
Thallium	ND		45.9	40.6		mg/Kg		88	75 - 125	1	20
Vanadium	53		45.9	95.9		mg/Kg		94	75 - 125	8	20
Zinc	87	F1	45.9	107	F1	mg/Kg		44	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91136-28 MS
Matrix: Solid
Analysis Batch: 260404

Client Sample ID: DG-AI13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.3	J	43.5	50.1		mg/Kg		108	75 - 125
Beryllium	ND		43.5	48.8		mg/Kg		112	75 - 125
Lead	29		43.5	80.0		mg/Kg		118	75 - 125
Nickel	7.5	B	43.5	56.9		mg/Kg		114	75 - 125
Selenium	1.4	J	43.5	49.1		mg/Kg		110	75 - 125
Silver	ND		21.7	25.4		mg/Kg		117	75 - 125
Thallium	0.99	J	43.5	47.1		mg/Kg		106	75 - 125
Vanadium	100	F1	43.5	163	F1	mg/Kg		138	75 - 125
Zinc	74	F1	43.5	134	F1	mg/Kg		139	75 - 125

Lab Sample ID: 720-91136-28 MS
Matrix: Solid
Analysis Batch: 260454

Client Sample ID: DG-AI13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	43.5	12.8	F1	mg/Kg		29	75 - 125
Barium	16		43.5	60.0		mg/Kg		102	75 - 125
Cadmium	0.28	J	43.5	41.1		mg/Kg		94	75 - 125
Chromium	6.8	B	43.5	49.5		mg/Kg		98	75 - 125
Cobalt	12		43.5	53.8		mg/Kg		96	75 - 125
Copper	83	F1	43.5	139	F1	mg/Kg		129	75 - 125
Molybdenum	ND		43.5	39.5		mg/Kg		91	75 - 125

Lab Sample ID: 720-91136-28 MSD
Matrix: Solid
Analysis Batch: 260404

Client Sample ID: DG-AI13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.3	J	43.5	49.0		mg/Kg		105	75 - 125	2	20
Beryllium	ND		43.5	48.8		mg/Kg		112	75 - 125	0	20
Lead	29		43.5	74.7		mg/Kg		106	75 - 125	7	20
Nickel	7.5	B	43.5	55.0		mg/Kg		109	75 - 125	3	20
Selenium	1.4	J	43.5	47.5		mg/Kg		106	75 - 125	3	20
Silver	ND		21.7	24.5		mg/Kg		113	75 - 125	3	20
Thallium	0.99	J	43.5	45.6		mg/Kg		103	75 - 125	3	20
Vanadium	100	F1	43.5	166	F1	mg/Kg		146	75 - 125	2	20
Zinc	74	F1	43.5	124		mg/Kg		115	75 - 125	8	20

Lab Sample ID: 720-91136-28 MSD
Matrix: Solid
Analysis Batch: 260454

Client Sample ID: DG-AI13S-0.5-1
Prep Type: Total/NA
Prep Batch: 259715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	43.5	13.7	F1	mg/Kg		32	75 - 125	7	20
Barium	16		43.5	60.0		mg/Kg		102	75 - 125	0	20
Cadmium	0.28	J	43.5	43.1		mg/Kg		99	75 - 125	5	20
Chromium	6.8	B	43.5	48.1		mg/Kg		95	75 - 125	3	20
Cobalt	12		43.5	56.5		mg/Kg		102	75 - 125	5	20
Copper	83	F1	43.5	133		mg/Kg		114	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91136-28 MSD — **Client Sample ID: DG-AI13S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260454 — **Prep Batch: 259715**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	ND		43.5	41.2		mg/Kg		95	75 - 125	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259709/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260451 — **Prep Batch: 259709**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/14/19 17:52	02/15/19 12:10	1

Lab Sample ID: LCS 720-259709/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260451 — **Prep Batch: 259709**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.772		mg/Kg		93	80 - 120

Lab Sample ID: 720-91135-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260451 — **Prep Batch: 259709**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.51	F1	0.704	0.853	F1	mg/Kg		49	75 - 125

Lab Sample ID: 720-91135-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260451 — **Prep Batch: 259709**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.51	F1	0.704	0.837	F1	mg/Kg		47	75 - 125	2	20

Lab Sample ID: MB 720-259716/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260462 — **Prep Batch: 259716**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/14/19 17:21	02/15/19 14:06	1

Lab Sample ID: LCS 720-259716/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260462 — **Prep Batch: 259716**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.779		mg/Kg		94	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91136-16 MS — **Client Sample ID: DG-AY4S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260462 — **Prep Batch: 259716**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.45		0.794	1.17		mg/Kg		90	75 - 125

Lab Sample ID: 720-91136-16 MSD — **Client Sample ID: DG-AY4S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260462 — **Prep Batch: 259716**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.45		0.806	1.29		mg/Kg		104	75 - 125	10	20

Lab Sample ID: 720-91136-28 MS — **Client Sample ID: DG-AI13S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260462 — **Prep Batch: 259716**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.031		0.714	0.738		mg/Kg		99	75 - 125

Lab Sample ID: 720-91136-28 MSD — **Client Sample ID: DG-AI13S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260462 — **Prep Batch: 259716**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.031		0.694	0.706		mg/Kg		97	75 - 125	4	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91192-A-20 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259923

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.0		8.4		%		7	20

Lab Sample ID: 720-91136-19 DU — **Client Sample ID: DG-AZ3S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259926

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	6.8		7.3		%		7	20

Metals

Prep Batch: 259705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-1	DG-AV2S-0.5-1	Total/NA	Solid	3050B	
720-91136-2	DG-AV2S-3.5-4	Total/NA	Solid	3050B	
720-91136-3	DG-AX2S-0.5-1	Total/NA	Solid	3050B	
720-91136-4	DG-AX2S-3.5-4	Total/NA	Solid	3050B	
720-91136-5	DG-AY2S-0.5-1	Total/NA	Solid	3050B	
720-91136-6	DG-AY2S-3.5-4	Total/NA	Solid	3050B	
720-91136-7	DG-AV3S-0.5-1	Total/NA	Solid	3050B	
720-91136-8	DG-AV3S-3.5-4	Total/NA	Solid	3050B	
720-91136-9	DG-AZ2S-0.5-1	Total/NA	Solid	3050B	
720-91136-10	DG-AZ2S-3.5-4	Total/NA	Solid	3050B	
720-91136-11	DG-AX3S-0.5-1	Total/NA	Solid	3050B	
720-91136-12	DG-AX3S-3.5-4	Total/NA	Solid	3050B	
MB 720-259705/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259705/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91135-A-1-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-91135-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-1	DG-AV2S-0.5-1	Total/NA	Solid	7471A	
720-91136-2	DG-AV2S-3.5-4	Total/NA	Solid	7471A	
720-91136-3	DG-AX2S-0.5-1	Total/NA	Solid	7471A	
720-91136-4	DG-AX2S-3.5-4	Total/NA	Solid	7471A	
720-91136-5	DG-AY2S-0.5-1	Total/NA	Solid	7471A	
720-91136-6	DG-AY2S-3.5-4	Total/NA	Solid	7471A	
720-91136-7	DG-AV3S-0.5-1	Total/NA	Solid	7471A	
720-91136-8	DG-AV3S-3.5-4	Total/NA	Solid	7471A	
720-91136-9	DG-AZ2S-0.5-1	Total/NA	Solid	7471A	
720-91136-10	DG-AZ2S-3.5-4	Total/NA	Solid	7471A	
720-91136-11	DG-AX3S-0.5-1	Total/NA	Solid	7471A	
720-91136-12	DG-AX3S-3.5-4	Total/NA	Solid	7471A	
MB 720-259709/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259709/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91135-A-1-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-91135-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-13	DG-AW4S-0.5-1	Total/NA	Solid	3050B	
720-91136-14	DG-AW4S-3.5-4	Total/NA	Solid	3050B	
720-91136-15	DG-AY4S-0.5-1	Total/NA	Solid	3050B	
720-91136-16	DG-AY4S-3.5-4	Total/NA	Solid	3050B	
720-91136-17	DG-AX4S-0.5-1	Total/NA	Solid	3050B	
720-91136-18	DG-AX4S-3.5-4	Total/NA	Solid	3050B	
720-91136-19	DG-AZ3S-0.5-1	Total/NA	Solid	3050B	
720-91136-20	DG-AZ3S-3.5-4	Total/NA	Solid	3050B	
720-91136-21	DG-AX6S-0.5-1	Total/NA	Solid	3050B	
720-91136-22	DG-AX6S-3.5-4	Total/NA	Solid	3050B	
720-91136-23	DG-AQ10S-0.5-1	Total/NA	Solid	3050B	
720-91136-24	DUP-28	Total/NA	Solid	3050B	
720-91136-25	DG-AQ10S-3.5-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 259715 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-26	DG-AK8S-0.5-1	Total/NA	Solid	3050B	
720-91136-27	DG-AK8S-3.5-4	Total/NA	Solid	3050B	
720-91136-28	DG-AI13S-0.5-1	Total/NA	Solid	3050B	
720-91136-29	DG-AI13S-3.5-4	Total/NA	Solid	3050B	
720-91136-30	DUP-94	Total/NA	Solid	3050B	
MB 720-259715/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259715/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91136-16 MS	DG-AY4S-3.5-4	Total/NA	Solid	3050B	
720-91136-16 MSD	DG-AY4S-3.5-4	Total/NA	Solid	3050B	
720-91136-28 MS	DG-AI13S-0.5-1	Total/NA	Solid	3050B	
720-91136-28 MSD	DG-AI13S-0.5-1	Total/NA	Solid	3050B	

Prep Batch: 259716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-13	DG-AW4S-0.5-1	Total/NA	Solid	7471A	
720-91136-14	DG-AW4S-3.5-4	Total/NA	Solid	7471A	
720-91136-15	DG-AY4S-0.5-1	Total/NA	Solid	7471A	
720-91136-16	DG-AY4S-3.5-4	Total/NA	Solid	7471A	
720-91136-17	DG-AX4S-0.5-1	Total/NA	Solid	7471A	
720-91136-18	DG-AX4S-3.5-4	Total/NA	Solid	7471A	
720-91136-19	DG-AZ3S-0.5-1	Total/NA	Solid	7471A	
720-91136-20	DG-AZ3S-3.5-4	Total/NA	Solid	7471A	
720-91136-21	DG-AX6S-0.5-1	Total/NA	Solid	7471A	
720-91136-22	DG-AX6S-3.5-4	Total/NA	Solid	7471A	
720-91136-23	DG-AQ10S-0.5-1	Total/NA	Solid	7471A	
720-91136-24	DUP-28	Total/NA	Solid	7471A	
720-91136-25	DG-AQ10S-3.5-4	Total/NA	Solid	7471A	
720-91136-26	DG-AK8S-0.5-1	Total/NA	Solid	7471A	
720-91136-27	DG-AK8S-3.5-4	Total/NA	Solid	7471A	
720-91136-28	DG-AI13S-0.5-1	Total/NA	Solid	7471A	
720-91136-29	DG-AI13S-3.5-4	Total/NA	Solid	7471A	
720-91136-30	DUP-94	Total/NA	Solid	7471A	
MB 720-259716/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259716/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91136-16 MS	DG-AY4S-3.5-4	Total/NA	Solid	7471A	
720-91136-16 MSD	DG-AY4S-3.5-4	Total/NA	Solid	7471A	
720-91136-28 MS	DG-AI13S-0.5-1	Total/NA	Solid	7471A	
720-91136-28 MSD	DG-AI13S-0.5-1	Total/NA	Solid	7471A	

Analysis Batch: 260404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-13	DG-AW4S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-14	DG-AW4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-15	DG-AY4S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-16	DG-AY4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-17	DG-AX4S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-18	DG-AX4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-19	DG-AZ3S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-20	DG-AZ3S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-21	DG-AX6S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-22	DG-AX6S-3.5-4	Total/NA	Solid	6010B	259715

Metals (Continued)

Analysis Batch: 260404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-23	DG-AQ10S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-24	DUP-28	Total/NA	Solid	6010B	259715
720-91136-25	DG-AQ10S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-26	DG-AK8S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-27	DG-AK8S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-28	DG-AI13S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-29	DG-AI13S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-30	DUP-94	Total/NA	Solid	6010B	259715
MB 720-259715/1-A	Method Blank	Total/NA	Solid	6010B	259715
LCS 720-259715/2-A	Lab Control Sample	Total/NA	Solid	6010B	259715
720-91136-16 MS	DG-AY4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-16 MSD	DG-AY4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-28 MS	DG-AI13S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-28 MSD	DG-AI13S-0.5-1	Total/NA	Solid	6010B	259715

Analysis Batch: 260406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-1	DG-AV2S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-2	DG-AV2S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-3	DG-AX2S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-4	DG-AX2S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-5	DG-AY2S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-6	DG-AY2S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-7	DG-AV3S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-8	DG-AV3S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-9	DG-AZ2S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-10	DG-AZ2S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-11	DG-AX3S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-12	DG-AX3S-3.5-4	Total/NA	Solid	6010B	259705
MB 720-259705/1-A	Method Blank	Total/NA	Solid	6010B	259705
LCS 720-259705/2-A	Lab Control Sample	Total/NA	Solid	6010B	259705
720-91135-A-1-A MS	Matrix Spike	Total/NA	Solid	6010B	259705
720-91135-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259705

Analysis Batch: 260438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-1	DG-AV2S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-2	DG-AV2S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-3	DG-AX2S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-4	DG-AX2S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-5	DG-AY2S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-6	DG-AY2S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-7	DG-AV3S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-8	DG-AV3S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-9	DG-AZ2S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-10	DG-AZ2S-3.5-4	Total/NA	Solid	6010B	259705
720-91136-11	DG-AX3S-0.5-1	Total/NA	Solid	6010B	259705
720-91136-12	DG-AX3S-3.5-4	Total/NA	Solid	6010B	259705
MB 720-259705/1-A	Method Blank	Total/NA	Solid	6010B	259705
LCS 720-259705/2-A	Lab Control Sample	Total/NA	Solid	6010B	259705
720-91135-A-1-A MS	Matrix Spike	Total/NA	Solid	6010B	259705

Metals (Continued)

Analysis Batch: 260438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91135-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259705

Analysis Batch: 260451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-1	DG-AV2S-0.5-1	Total/NA	Solid	7471A	259709
720-91136-2	DG-AV2S-3.5-4	Total/NA	Solid	7471A	259709
720-91136-3	DG-AX2S-0.5-1	Total/NA	Solid	7471A	259709
720-91136-4	DG-AX2S-3.5-4	Total/NA	Solid	7471A	259709
720-91136-5	DG-AY2S-0.5-1	Total/NA	Solid	7471A	259709
720-91136-6	DG-AY2S-3.5-4	Total/NA	Solid	7471A	259709
720-91136-7	DG-AV3S-0.5-1	Total/NA	Solid	7471A	259709
720-91136-8	DG-AV3S-3.5-4	Total/NA	Solid	7471A	259709
720-91136-9	DG-AZ2S-0.5-1	Total/NA	Solid	7471A	259709
720-91136-10	DG-AZ2S-3.5-4	Total/NA	Solid	7471A	259709
720-91136-11	DG-AX3S-0.5-1	Total/NA	Solid	7471A	259709
720-91136-12	DG-AX3S-3.5-4	Total/NA	Solid	7471A	259709
MB 720-259709/1-A	Method Blank	Total/NA	Solid	7471A	259709
LCS 720-259709/2-A	Lab Control Sample	Total/NA	Solid	7471A	259709
720-91135-A-1-D MS	Matrix Spike	Total/NA	Solid	7471A	259709
720-91135-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259709

Analysis Batch: 260454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-13	DG-AW4S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-14	DG-AW4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-15	DG-AY4S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-20	DG-AZ3S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-21	DG-AX6S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-22	DG-AX6S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-23	DG-AQ10S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-24	DUP-28	Total/NA	Solid	6010B	259715
720-91136-25	DG-AQ10S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-26	DG-AK8S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-27	DG-AK8S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-28	DG-AI13S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-29	DG-AI13S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-30	DUP-94	Total/NA	Solid	6010B	259715
720-91136-28 MS	DG-AI13S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-28 MSD	DG-AI13S-0.5-1	Total/NA	Solid	6010B	259715

Analysis Batch: 260462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-13	DG-AW4S-0.5-1	Total/NA	Solid	7471A	259716
720-91136-14	DG-AW4S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-15	DG-AY4S-0.5-1	Total/NA	Solid	7471A	259716
720-91136-16	DG-AY4S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-17	DG-AX4S-0.5-1	Total/NA	Solid	7471A	259716
720-91136-18	DG-AX4S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-19	DG-AZ3S-0.5-1	Total/NA	Solid	7471A	259716
720-91136-20	DG-AZ3S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-21	DG-AX6S-0.5-1	Total/NA	Solid	7471A	259716

Metals (Continued)

Analysis Batch: 260462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-22	DG-AX6S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-23	DG-AQ10S-0.5-1	Total/NA	Solid	7471A	259716
720-91136-24	DUP-28	Total/NA	Solid	7471A	259716
720-91136-25	DG-AQ10S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-26	DG-AK8S-0.5-1	Total/NA	Solid	7471A	259716
720-91136-27	DG-AK8S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-28	DG-AI13S-0.5-1	Total/NA	Solid	7471A	259716
720-91136-29	DG-AI13S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-30	DUP-94	Total/NA	Solid	7471A	259716
MB 720-259716/1-A	Method Blank	Total/NA	Solid	7471A	259716
LCS 720-259716/2-A	Lab Control Sample	Total/NA	Solid	7471A	259716
720-91136-16 MS	DG-AY4S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-16 MSD	DG-AY4S-3.5-4	Total/NA	Solid	7471A	259716
720-91136-28 MS	DG-AI13S-0.5-1	Total/NA	Solid	7471A	259716
720-91136-28 MSD	DG-AI13S-0.5-1	Total/NA	Solid	7471A	259716

Analysis Batch: 260463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-21	DG-AX6S-0.5-1	Total/NA	Solid	6010B	259715

Analysis Batch: 261993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-13	DG-AW4S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-14	DG-AW4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-15	DG-AY4S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-16	DG-AY4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-17	DG-AX4S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-18	DG-AX4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-19	DG-AZ3S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-20	DG-AZ3S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-22	DG-AX6S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-23	DG-AQ10S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-24	DUP-28	Total/NA	Solid	6010B	259715
720-91136-26	DG-AK8S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-27	DG-AK8S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-28	DG-AI13S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-29	DG-AI13S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-30	DUP-94	Total/NA	Solid	6010B	259715
MB 720-259715/1-A	Method Blank	Total/NA	Solid	6010B	259715
LCS 720-259715/2-A	Lab Control Sample	Total/NA	Solid	6010B	259715
720-91136-16 MS	DG-AY4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-16 MSD	DG-AY4S-3.5-4	Total/NA	Solid	6010B	259715
720-91136-28 MS	DG-AI13S-0.5-1	Total/NA	Solid	6010B	259715
720-91136-28 MSD	DG-AI13S-0.5-1	Total/NA	Solid	6010B	259715

Analysis Batch: 262006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-21	DG-AX6S-0.5-1	Total/NA	Solid	6010B	259715

General Chemistry

Analysis Batch: 259923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-1	DG-AV2S-0.5-1	Total/NA	Solid	Moisture	
720-91136-2	DG-AV2S-3.5-4	Total/NA	Solid	Moisture	
720-91136-3	DG-AX2S-0.5-1	Total/NA	Solid	Moisture	
720-91136-4	DG-AX2S-3.5-4	Total/NA	Solid	Moisture	
720-91136-5	DG-AY2S-0.5-1	Total/NA	Solid	Moisture	
720-91136-6	DG-AY2S-3.5-4	Total/NA	Solid	Moisture	
720-91136-7	DG-AV3S-0.5-1	Total/NA	Solid	Moisture	
720-91136-8	DG-AV3S-3.5-4	Total/NA	Solid	Moisture	
720-91136-9	DG-AZ2S-0.5-1	Total/NA	Solid	Moisture	
720-91136-10	DG-AZ2S-3.5-4	Total/NA	Solid	Moisture	
720-91136-11	DG-AX3S-0.5-1	Total/NA	Solid	Moisture	
720-91136-12	DG-AX3S-3.5-4	Total/NA	Solid	Moisture	
720-91136-13	DG-AW4S-0.5-1	Total/NA	Solid	Moisture	
720-91136-14	DG-AW4S-3.5-4	Total/NA	Solid	Moisture	
720-91136-15	DG-AY4S-0.5-1	Total/NA	Solid	Moisture	
720-91136-16	DG-AY4S-3.5-4	Total/NA	Solid	Moisture	
720-91136-17	DG-AX4S-0.5-1	Total/NA	Solid	Moisture	
720-91136-18	DG-AX4S-3.5-4	Total/NA	Solid	Moisture	
720-91192-A-20 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 259926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91136-19	DG-AZ3S-0.5-1	Total/NA	Solid	Moisture	
720-91136-20	DG-AZ3S-3.5-4	Total/NA	Solid	Moisture	
720-91136-21	DG-AX6S-0.5-1	Total/NA	Solid	Moisture	
720-91136-22	DG-AX6S-3.5-4	Total/NA	Solid	Moisture	
720-91136-23	DG-AQ10S-0.5-1	Total/NA	Solid	Moisture	
720-91136-24	DUP-28	Total/NA	Solid	Moisture	
720-91136-25	DG-AQ10S-3.5-4	Total/NA	Solid	Moisture	
720-91136-26	DG-AK8S-0.5-1	Total/NA	Solid	Moisture	
720-91136-27	DG-AK8S-3.5-4	Total/NA	Solid	Moisture	
720-91136-28	DG-AI13S-0.5-1	Total/NA	Solid	Moisture	
720-91136-29	DG-AI13S-3.5-4	Total/NA	Solid	Moisture	
720-91136-30	DUP-94	Total/NA	Solid	Moisture	
720-91136-19 DU	DG-AZ3S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AV2S-0.5-1

Lab Sample ID: 720-91136-1

Date Collected: 02/01/19 09:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:04	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 10:50	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AV2S-3.5-4

Lab Sample ID: 720-91136-2

Date Collected: 02/01/19 09:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:08	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 10:55	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:45	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AX2S-0.5-1

Lab Sample ID: 720-91136-3

Date Collected: 02/01/19 09:10
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:13	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 10:59	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AX2S-3.5-4

Lab Sample ID: 720-91136-4

Date Collected: 02/01/19 09:10
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:18	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 11:04	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:50	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AX2S-3.5-4
Date Collected: 02/01/19 09:10
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AY2S-0.5-1
Date Collected: 02/01/19 09:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:23	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 11:09	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AY2S-3.5-4
Date Collected: 02/01/19 09:30
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:27	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 11:14	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AV3S-0.5-1
Date Collected: 02/01/19 10:05
Date Received: 02/01/19 16:42

Lab Sample ID: 720-91136-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:42	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 11:28	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AV3S-3.5-4

Lab Sample ID: 720-91136-8

Date Collected: 02/01/19 10:05

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:46	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 11:33	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 12:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AZ2S-0.5-1

Lab Sample ID: 720-91136-9

Date Collected: 02/01/19 09:50

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:51	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260438	02/15/19 11:37	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 13:31	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AZ2S-3.5-4

Lab Sample ID: 720-91136-10

Date Collected: 02/01/19 09:50

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 18:56	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 11:42	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		10	260451	02/15/19 13:51	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AX3S-0.5-1

Lab Sample ID: 720-91136-11

Date Collected: 02/01/19 10:20

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 19:01	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 11:47	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260451	02/15/19 13:53	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91136-1

Client Sample ID: DG-AX3S-0.5-1

Lab Sample ID: 720-91136-11
Matrix: Solid
Date Collected: 02/01/19 10:20
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AX3S-3.5-4

Lab Sample ID: 720-91136-12
Matrix: Solid
Date Collected: 02/01/19 10:20
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260406	02/14/19 19:05	OBI	TAL PLS
Total/NA	Prep	3050B			259705	02/02/19 10:23	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260438	02/15/19 11:52	OBI	TAL PLS
Total/NA	Prep	7471A			259709	02/14/19 17:52	GLL	TAL PLS
Total/NA	Analysis	7471A		4	260451	02/15/19 13:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AW4S-0.5-1

Lab Sample ID: 720-91136-13
Matrix: Solid
Date Collected: 02/01/19 10:30
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 14:24	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 19:36	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 19:36	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 15:05	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AW4S-3.5-4

Lab Sample ID: 720-91136-14
Matrix: Solid
Date Collected: 02/01/19 10:30
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 14:29	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 19:41	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 19:41	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 15:07	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AY4S-0.5-1 — Lab Sample ID: 720-91136-15

Date Collected: 02/01/19 11:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 14:34	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 19:46	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 19:46	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 15:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AY4S-3.5-4 — Lab Sample ID: 720-91136-16

Date Collected: 02/01/19 11:00 **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 17:56	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 17:56	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AX4S-0.5-1 — Lab Sample ID: 720-91136-17

Date Collected: 02/01/19 11:15 **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:01	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 18:01	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AX4S-3.5-4 — Lab Sample ID: 720-91136-18

Date Collected: 02/01/19 11:15 **Matrix: Solid**
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:06	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 18:06	BKR	TAL PLS

Client Sample ID: DG-AX4S-3.5-4

Lab Sample ID: 720-91136-18

Date Collected: 02/01/19 11:15

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:21	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Client Sample ID: DG-AZ3S-0.5-1

Lab Sample ID: 720-91136-19

Date Collected: 02/01/19 11:25

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:10	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 18:10	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:23	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DG-AZ3S-3.5-4

Lab Sample ID: 720-91136-20

Date Collected: 02/01/19 11:25

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 13:13	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:25	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 18:25	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:25	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DG-AX6S-0.5-1

Lab Sample ID: 720-91136-21

Date Collected: 02/01/19 12:00

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260454	02/15/19 13:18	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:29	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		20	260463	02/15/19 15:42	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		20	262006	02/15/19 15:42	BKR	TAL PLS

Client Sample ID: DG-AX6S-0.5-1

Lab Sample ID: 720-91136-21

Date Collected: 02/01/19 12:00

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DG-AX6S-3.5-4

Lab Sample ID: 720-91136-22

Date Collected: 02/01/19 12:00

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 13:23	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:34	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 18:34	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DG-AQ10S-0.5-1

Lab Sample ID: 720-91136-23

Date Collected: 02/01/19 12:30

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 13:27	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:39	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 18:39	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:37	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DUP-28

Lab Sample ID: 720-91136-24

Date Collected: 02/01/19 00:00

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 13:32	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:44	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 18:44	BKR	TAL PLS

Client Sample ID: DUP-28

Lab Sample ID: 720-91136-24

Date Collected: 02/01/19 00:00

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DG-AQ10S-3.5-4

Lab Sample ID: 720-91136-25

Date Collected: 02/01/19 12:30

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		10	260454	02/15/19 13:37	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:49	OBI	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DG-AK8S-0.5-1

Lab Sample ID: 720-91136-26

Date Collected: 02/01/19 13:00

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 13:41	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:54	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 18:54	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:44	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DG-AK8S-3.5-4

Lab Sample ID: 720-91136-27

Date Collected: 02/01/19 13:00

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 13:46	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 18:58	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 18:58	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:46	MAG	TAL PLS

Client Sample ID: DG-AK8S-3.5-4

Lab Sample ID: 720-91136-27

Date Collected: 02/01/19 13:00

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DG-AI13S-0.5-1

Lab Sample ID: 720-91136-28

Date Collected: 02/01/19 13:15

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 14:10	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 19:22	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 19:22	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DG-AI13S-3.5-4

Lab Sample ID: 720-91136-29

Date Collected: 02/01/19 13:15

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 14:15	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 19:27	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 19:27	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 14:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Client Sample ID: DUP-94

Lab Sample ID: 720-91136-30

Date Collected: 02/01/19 00:00

Matrix: Solid

Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260454	02/15/19 14:20	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260404	02/14/19 19:32	OBI	TAL PLS
Total/NA	Prep	3050B			259715	02/02/19 12:30	SUN	TAL PLS
Total/NA	Analysis	6010B		4	261993	02/14/19 19:32	BKR	TAL PLS
Total/NA	Prep	7471A			259716	02/14/19 17:21	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260462	02/15/19 15:03	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-94
Lab Sample ID: 720-91136-30
Date Collected: 02/01/19 00:00
Matrix: Solid
Date Received: 02/01/19 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259926	02/06/19 15:40	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91136-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91136-1	DG-AV2S-0.5-1	Solid	02/01/19 09:00	02/01/19 16:42
720-91136-2	DG-AV2S-3.5-4	Solid	02/01/19 09:00	02/01/19 16:42
720-91136-3	DG-AX2S-0.5-1	Solid	02/01/19 09:10	02/01/19 16:42
720-91136-4	DG-AX2S-3.5-4	Solid	02/01/19 09:10	02/01/19 16:42
720-91136-5	DG-AY2S-0.5-1	Solid	02/01/19 09:30	02/01/19 16:42
720-91136-6	DG-AY2S-3.5-4	Solid	02/01/19 09:30	02/01/19 16:42
720-91136-7	DG-AV3S-0.5-1	Solid	02/01/19 10:05	02/01/19 16:42
720-91136-8	DG-AV3S-3.5-4	Solid	02/01/19 10:05	02/01/19 16:42
720-91136-9	DG-AZ2S-0.5-1	Solid	02/01/19 09:50	02/01/19 16:42
720-91136-10	DG-AZ2S-3.5-4	Solid	02/01/19 09:50	02/01/19 16:42
720-91136-11	DG-AX3S-0.5-1	Solid	02/01/19 10:20	02/01/19 16:42
720-91136-12	DG-AX3S-3.5-4	Solid	02/01/19 10:20	02/01/19 16:42
720-91136-13	DG-AW4S-0.5-1	Solid	02/01/19 10:30	02/01/19 16:42
720-91136-14	DG-AW4S-3.5-4	Solid	02/01/19 10:30	02/01/19 16:42
720-91136-15	DG-AY4S-0.5-1	Solid	02/01/19 11:00	02/01/19 16:42
720-91136-16	DG-AY4S-3.5-4	Solid	02/01/19 11:00	02/01/19 16:42
720-91136-17	DG-AX4S-0.5-1	Solid	02/01/19 11:15	02/01/19 16:42
720-91136-18	DG-AX4S-3.5-4	Solid	02/01/19 11:15	02/01/19 16:42
720-91136-19	DG-AZ3S-0.5-1	Solid	02/01/19 11:25	02/01/19 16:42
720-91136-20	DG-AZ3S-3.5-4	Solid	02/01/19 11:25	02/01/19 16:42
720-91136-21	DG-AX6S-0.5-1	Solid	02/01/19 12:00	02/01/19 16:42
720-91136-22	DG-AX6S-3.5-4	Solid	02/01/19 12:00	02/01/19 16:42
720-91136-23	DG-AQ10S-0.5-1	Solid	02/01/19 12:30	02/01/19 16:42
720-91136-24	DUP-28	Solid	02/01/19 00:00	02/01/19 16:42
720-91136-25	DG-AQ10S-3.5-4	Solid	02/01/19 12:30	02/01/19 16:42
720-91136-26	DG-AK8S-0.5-1	Solid	02/01/19 13:00	02/01/19 16:42
720-91136-27	DG-AK8S-3.5-4	Solid	02/01/19 13:00	02/01/19 16:42
720-91136-28	DG-AI13S-0.5-1	Solid	02/01/19 13:15	02/01/19 16:42
720-91136-29	DG-AI13S-3.5-4	Solid	02/01/19 13:15	02/01/19 16:42
720-91136-30	DUP-94	Solid	02/01/19 00:00	02/01/19 16:42

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91136

Chain of Custody Record

188223

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-Feb-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler N. Randle
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91136 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG-AV2S-0.5-1	2/1/19	0900	G	S	1	N		X	
2	DG-AV2S-3.5-4		0900							
3	DG-AX2S-0.5-1		0910							
4	DG-AX2S-3.5-4		0910							
5	DG-AY2S-0.5-1		0930							
6	DG-AY2S-3.5-4		0930							
7	DG-AV3S-0.5-1		1005							
8	DG-AV3S-3.5-4		1005							
9	DG-AZ2S-0.5-1		0950							
10	DG-AZ2S-3.5-4		0950							
11	DG-AX3S-0.5-1		1020							
12	DG-AX3S-3.5-4	↓	1020	↓	↓	↓	↓		↓	

Preservation Used: (1= Ice) 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____	
Relinquished by: Nicholas Z Randle	Company: Geosyntec	Date/Time: 2/1/19 1410	Received by:	Company:	Date/Time: 2/1/19 1410
Relinquished by:	Company: FEDEX	Date/Time: 2/1/19 1642	Received by:	Company: TA-PLS	Date/Time: 2/1/19 1642
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

3.5 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91136

Chain of Custody Record

188223

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-Feb-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: N. Randle
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AW4S-0.5-1	2/1/19	1030	G	S	1	N		X	
14	DG-AW4S-3.5-4		1030							
15	DG-AY4S-0.5-1		1100							
16	DG-AY4S-3.5-4		1100					Y		
17	DG-AX4S-0.5-1		1115							
18	DG-AX4S-3.5-4		1115							
19	DG-AZ3S-0.5-1		1125							
20	DG-AZ3S-3.5-4		1125							
21	DG-AX6S-0.5-1		1200							
22	DG-AX6S-3.5-4		1200							
23	DG-AQ10S-0.5-1		1230							
24	Duo-28	↓	—	↓	↓	↓	↓		↓	

Page 2 of 3

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No. _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Nicholas L Randle	Geosyntec	2/1/19 1410		TAPLS	2/1/19 1410
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	TAPLS	2/1/19 1642		TA PLS	2/1/19 1642
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

3 JC

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

4/14/2019 (Rev. 1)

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91136

Chain of Custody Record

188223

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-Feb-2019	COC No: 3 of 3 COCs
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	Sampler: Mr Randle
1111 Broadway 6th Floor	Analysis Turnaround Time			For Lab Use Only:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			Lab Sampling
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25 DG-AQ10S-3.5-4	2/1/19	1230	G	S	1	N		X	
26 DG-AK8S-0.5-1		1300							
27 DG-AK8S-3.5-4		1300							
28 DG-AI13S-0.5-1		1315					Y		
29 DG-AI13S-3.5-4		1315							
30 Dup-94		=							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No. 140	Cooler Temp. (°C): Obs'd ____ Corr'd ____	Therm ID No ____
Relinquished by: Nicholas Z Randle	Company: Geosyntec	Date/Time: 2/1/19 1550	Received by:	Company: TAPLS	Date/Time: 2/1/19 1410
Relinquished by:	Company: TAPLS	Date/Time: 2/1/19 1642	Received by:	Company: TAPLS	Date/Time: 2/1/19 1642
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

3.5C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91136-1

Login Number: 91136
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

April 2, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/Kg)	Corrected Result * (mg/Kg)
720-91136-A-13-B	DG-AW4S-0.5-1	24	0.86
720-91136-A-14-D	DG-AW4S-3.5-4	22	0.36
720-91136-A-15-D	DG-AY4S-0.5-1	14	ND
720-91136-A-16-C	DG-AY4S-3.5-4	20	ND
720-91136-A-17-A	DG-AX4S-0.5-1	24	ND
720-91136-A-18-A	DG-AX4S-3.5-4	20	ND
720-91136-A-19-A	DG-AZ3S-0.5-1	23	ND
720-91136-A-20-A	DG-AZ3S-3.5-4	27	1.4
720-91136-A-21-A	DG-AX6S-0.5-1	0.56	ND
720-91136-A-22-A	DG-AX6S-3.5-4	20	ND
720-91136-A-23-A	DG-AQ10S-0.5-1	43	0.63
720-91136-A-24-A	DUP-28	14	0.52
720-91136-A-26-A	DG-AK8S-0.5-1	34	0.46
720-91136-A-27-A	DG-AK8S-3.5-4	7.3	ND
720-91136-A-28-C	DG-AI13S-0.5-1	41	0.99

Lab ID	Sample Name	Original Result (mg/Kg)	Corrected Result * (mg/Kg)
720-91136-A-29-A	DG-AI13S-3.5-4	24	ND
720-91136-A-30-A	DUP-94	34	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa A Brewer

Melissa Brewer
Quality Assurance Manager

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91158-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 9:31:43 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91158-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91158-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91158-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation. .

Receipt
The samples were received on 2/4/2019 6:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1º C.

Metals
Method 6010B: The method blank for preparation batch 720-260561 and analytical batch 720-260671 contained Barium, Chromium, and Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-260561 and analytical batch 720-260671 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260671 was outside control limits for Barium (39%), Cobalt (37%), Chromium (42%), Nickel (36%), Lead (38%), Vanadium (41%) and Zinc (36%): (720-91158-A-1-K SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Z7S-0.5-1 (720-91158-1) and DG-Z7S-3.5-4 (720-91158-2). Elevated reporting limits (RLs) are provided.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-260564 and analytical batch 720-260621 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91158-1

Client Sample ID: DG-Z7S-0.5-1 — Lab Sample ID: 720-91158-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.7	B F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	7.3		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	63	B F1 F2	1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	1.2		0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	28	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	10		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	120	F1	5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	220		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	1.6	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	39	F1	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.6	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Thallium	1.4	J	1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	54	F1	1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	230		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z7S-3.5-4 — Lab Sample ID: 720-91158-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	22	B F1	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	1400	B	1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.80		0.38	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	2.1		0.48	0.047	mg/Kg	4		6010B	Total/NA
Chromium	34	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	4.6		0.76	0.076	mg/Kg	4		6010B	Total/NA
Copper	570	F2	5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	4300		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	0.44	J	1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	69	F1 F2	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.96	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Silver	5.5		0.95	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	1900		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.56	F1	0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-Z7S-0.5-1 Lab Sample ID: 720-91158-1

Date Collected: 02/04/19 09:30 **Matrix: Solid**
Date Received: 02/04/19 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	B F1	1.9	0.32	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Arsenic	7.3		3.8	0.32	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Barium	63	B F1 F2	1.9	0.27	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Beryllium	ND		0.38	0.12	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Cadmium	1.2		0.48	0.047	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Chromium	28	B	1.9	0.20	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Cobalt	10		0.76	0.076	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Copper	120	F1	5.7	2.7	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Lead	220		1.9	0.40	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Molybdenum	1.6	J	1.9	0.24	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Nickel	39	F1	1.9	0.19	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Selenium	2.6	J	3.8	0.57	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Silver	ND		0.95	0.19	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Thallium	1.4	J	1.9	0.55	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Vanadium	54	F1	1.9	0.26	mg/Kg		02/18/19 17:41	02/19/19 22:05	4
Zinc	230		5.7	2.4	mg/Kg		02/18/19 17:41	02/19/19 22:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.015	0.0022	mg/Kg		02/18/19 19:00	02/19/19 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			02/05/19 16:16	1

Client Sample ID: DG-Z7S-3.5-4 Lab Sample ID: 720-91158-2

Date Collected: 02/04/19 09:30 **Matrix: Solid**
Date Received: 02/04/19 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	22	B F1	1.9	0.32	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Arsenic	11		3.8	0.32	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Barium	1400	B	1.9	0.27	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Beryllium	0.80		0.38	0.12	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Cadmium	2.1		0.48	0.047	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Chromium	34	B	1.9	0.20	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Cobalt	4.6		0.76	0.076	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Copper	570	F2	5.7	2.7	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Lead	4300		1.9	0.40	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Molybdenum	0.44	J	1.9	0.24	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Nickel	69	F1 F2	1.9	0.19	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Selenium	0.96	J	3.8	0.57	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Silver	5.5		0.95	0.19	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Thallium	ND		1.9	0.55	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Vanadium	26		1.9	0.26	mg/Kg		02/18/19 17:41	02/19/19 22:19	4
Zinc	1900		5.7	2.4	mg/Kg		02/18/19 17:41	02/19/19 22:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.56	F1	0.015	0.0022	mg/Kg		02/18/19 19:00	02/19/19 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.5		0.1	0.05	%			02/05/19 16:16	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-260561/1-A
Matrix: Solid
Analysis Batch: 260671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.166	J	0.50	0.083	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Arsenic	ND		1.0	0.085	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Barium	0.237	J	0.50	0.071	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Beryllium	ND		0.10	0.033	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Cadmium	ND		0.13	0.012	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Chromium	0.105	J	0.50	0.053	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Cobalt	ND		0.20	0.020	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Copper	ND		1.5	0.71	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Lead	ND		0.50	0.11	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Nickel	ND		0.50	0.051	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Selenium	ND		1.0	0.15	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Silver	ND		0.25	0.051	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Thallium	ND		0.50	0.15	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Vanadium	ND		0.50	0.068	mg/Kg		02/18/19 17:41	02/19/19 21:27	1
Zinc	ND		1.5	0.64	mg/Kg		02/18/19 17:41	02/19/19 21:27	1

Lab Sample ID: LCS 720-260561/2-A
Matrix: Solid
Analysis Batch: 260671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.2		mg/Kg		92	80 - 120
Arsenic	50.0	47.7		mg/Kg		95	80 - 120
Barium	50.0	47.4		mg/Kg		95	80 - 120
Beryllium	50.0	46.6		mg/Kg		93	80 - 120
Cadmium	50.0	47.0		mg/Kg		94	80 - 120
Chromium	50.0	48.8		mg/Kg		98	80 - 120
Cobalt	50.0	47.3		mg/Kg		95	80 - 120
Copper	50.0	48.7		mg/Kg		97	80 - 120
Lead	50.0	47.5		mg/Kg		95	80 - 120
Molybdenum	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	46.6		mg/Kg		93	80 - 120
Selenium	50.0	44.7		mg/Kg		89	80 - 120
Silver	25.0	23.8		mg/Kg		95	80 - 120
Thallium	50.0	49.3		mg/Kg		99	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	47.8		mg/Kg		96	80 - 120

Lab Sample ID: 720-91158-1 MS
Matrix: Solid
Analysis Batch: 260671

Client Sample ID: DG-Z7S-0.5-1
Prep Type: Total/NA
Prep Batch: 260561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.7	B F1	48.1	21.9	F1	mg/Kg		38	75 - 125
Arsenic	7.3		48.1	61.6		mg/Kg		113	75 - 125
Barium	63	B F1 F2	48.1	247	F1	mg/Kg		383	75 - 125
Beryllium	ND		48.1	46.1		mg/Kg		96	75 - 125
Cadmium	1.2		48.1	40.7		mg/Kg		82	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91158-1 MS **Client Sample ID: DG-Z7S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260671 **Prep Batch: 260561**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	28	B	48.1	73.8		mg/Kg		95	75 - 125
Cobalt	10		48.1	48.9		mg/Kg		80	75 - 125
Copper	120	F1	48.1	164		mg/Kg		102	75 - 125
Lead	220		48.1	233	4	mg/Kg		22	75 - 125
Molybdenum	1.6	J	48.1	50.3		mg/Kg		101	75 - 125
Nickel	39	F1	48.1	74.4	F1	mg/Kg		74	75 - 125
Selenium	2.6	J	48.1	41.2		mg/Kg		80	75 - 125
Silver	ND		24.0	23.1		mg/Kg		96	75 - 125
Thallium	1.4	J	48.1	43.4		mg/Kg		87	75 - 125
Vanadium	54	F1	48.1	104		mg/Kg		103	75 - 125
Zinc	230		48.1	261	4	mg/Kg		56	75 - 125

Lab Sample ID: 720-91158-1 MSD **Client Sample ID: DG-Z7S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260671 **Prep Batch: 260561**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.7	B F1	47.2	18.2	F1	mg/Kg		31	75 - 125	19	20
Arsenic	7.3		47.2	50.2		mg/Kg		91	75 - 125	20	20
Barium	63	B F1 F2	47.2	105	F2	mg/Kg		89	75 - 125	81	20
Beryllium	ND		47.2	45.6		mg/Kg		97	75 - 125	1	20
Cadmium	1.2		47.2	46.3		mg/Kg		96	75 - 125	13	20
Chromium	28	B	47.2	70.3		mg/Kg		89	75 - 125	5	20
Cobalt	10		47.2	53.6		mg/Kg		92	75 - 125	9	20
Copper	120	F1	47.2	143	F1	mg/Kg		58	75 - 125	14	20
Lead	220		47.2	244	4	mg/Kg		47	75 - 125	5	20
Molybdenum	1.6	J	47.2	47.4		mg/Kg		97	75 - 125	6	20
Nickel	39	F1	47.2	73.3	F1	mg/Kg		73	75 - 125	2	20
Selenium	2.6	J	47.2	44.4		mg/Kg		89	75 - 125	8	20
Silver	ND		23.6	23.9		mg/Kg		101	75 - 125	4	20
Thallium	1.4	J	47.2	45.6		mg/Kg		94	75 - 125	5	20
Vanadium	54	F1	47.2	86.7	F1	mg/Kg		70	75 - 125	18	20
Zinc	230		47.2	242	4	mg/Kg		18	75 - 125	7	20

Lab Sample ID: 720-91158-2 MS **Client Sample ID: DG-Z7S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260671 **Prep Batch: 260561**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	22	B F1	47.2	23.6	F1	mg/Kg		4	75 - 125
Arsenic	11		47.2	56.8		mg/Kg		97	75 - 125
Barium	1400	B	47.2	1420	4	mg/Kg		73	75 - 125
Beryllium	0.80		47.2	46.8		mg/Kg		97	75 - 125
Cadmium	2.1		47.2	45.1		mg/Kg		91	75 - 125
Chromium	34	B	47.2	86.8		mg/Kg		113	75 - 125
Cobalt	4.6		47.2	49.6		mg/Kg		95	75 - 125
Copper	570	F2	47.2	412	4	mg/Kg		-344	75 - 125
Lead	4300		47.2	4660	4	mg/Kg		820	75 - 125
Molybdenum	0.44	J	47.2	43.9		mg/Kg		92	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91158-2 MS — **Client Sample ID: DG-Z7S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260671 — **Prep Batch: 260561**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	69	F1 F2	47.2	114		mg/Kg		96	75 - 125
Selenium	0.96	J	47.2	41.2		mg/Kg		85	75 - 125
Silver	5.5		23.6	26.7		mg/Kg		90	75 - 125
Thallium	ND		47.2	40.8		mg/Kg		86	75 - 125
Vanadium	26		47.2	76.3		mg/Kg		106	75 - 125
Zinc	1900		47.2	1910	4	mg/Kg		37	75 - 125

Lab Sample ID: 720-91158-2 MSD — **Client Sample ID: DG-Z7S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260671 — **Prep Batch: 260561**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	22	B F1	47.2	25.2	F1	mg/Kg		7	75 - 125	6	20
Arsenic	11		47.2	56.4		mg/Kg		96	75 - 125	1	20
Barium	1400	B	47.2	1580	4	mg/Kg		411	75 - 125	11	20
Beryllium	0.80		47.2	46.5		mg/Kg		97	75 - 125	1	20
Cadmium	2.1		47.2	46.1		mg/Kg		93	75 - 125	2	20
Chromium	34	B	47.2	77.7		mg/Kg		93	75 - 125	11	20
Cobalt	4.6		47.2	49.8		mg/Kg		96	75 - 125	0	20
Copper	570	F2	47.2	606	4 F2	mg/Kg		68	75 - 125	38	20
Lead	4300		47.2	5610	4	mg/Kg		2829	75 - 125	18	20
Molybdenum	0.44	J	47.2	44.0		mg/Kg		92	75 - 125	0	20
Nickel	69	F1 F2	47.2	502	F1 F2	mg/Kg		917	75 - 125	126	20
Selenium	0.96	J	47.2	42.6		mg/Kg		88	75 - 125	3	20
Silver	5.5		23.6	28.8		mg/Kg		99	75 - 125	8	20
Thallium	ND		47.2	38.7		mg/Kg		82	75 - 125	5	20
Vanadium	26		47.2	74.5		mg/Kg		102	75 - 125	2	20
Zinc	1900		47.2	1880	4	mg/Kg		-28	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-260564/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260621 — **Prep Batch: 260564**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/18/19 19:00	02/19/19 12:36	1

Lab Sample ID: LCS 720-260564/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260621 — **Prep Batch: 260564**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.824		mg/Kg		99	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91158-1 MS — **Client Sample ID: DG-Z7S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260621 — **Prep Batch: 260564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.21		0.725	0.991		mg/Kg		108	75 - 125		

Lab Sample ID: 720-91158-1 MSD — **Client Sample ID: DG-Z7S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260621 — **Prep Batch: 260564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.21		0.735	1.03		mg/Kg		112	75 - 125	4	20

Lab Sample ID: 720-91158-2 MS — **Client Sample ID: DG-Z7S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260621 — **Prep Batch: 260564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.56	F1	0.725	1.44		mg/Kg		121	75 - 125		

Lab Sample ID: 720-91158-2 MSD — **Client Sample ID: DG-Z7S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 260621 — **Prep Batch: 260564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.56	F1	0.725	1.47	F1	mg/Kg		126	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91135-A-1 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259846

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	17.4			16.5		%				5	20

Metals

Prep Batch: 260561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91158-1	DG-Z7S-0.5-1	Total/NA	Solid	3050B	
720-91158-2	DG-Z7S-3.5-4	Total/NA	Solid	3050B	
MB 720-260561/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-260561/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91158-1 MS	DG-Z7S-0.5-1	Total/NA	Solid	3050B	
720-91158-1 MSD	DG-Z7S-0.5-1	Total/NA	Solid	3050B	
720-91158-2 MS	DG-Z7S-3.5-4	Total/NA	Solid	3050B	
720-91158-2 MSD	DG-Z7S-3.5-4	Total/NA	Solid	3050B	

Prep Batch: 260564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91158-1	DG-Z7S-0.5-1	Total/NA	Solid	7471A	
720-91158-2	DG-Z7S-3.5-4	Total/NA	Solid	7471A	
MB 720-260564/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-260564/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91158-1 MS	DG-Z7S-0.5-1	Total/NA	Solid	7471A	
720-91158-1 MSD	DG-Z7S-0.5-1	Total/NA	Solid	7471A	
720-91158-2 MS	DG-Z7S-3.5-4	Total/NA	Solid	7471A	
720-91158-2 MSD	DG-Z7S-3.5-4	Total/NA	Solid	7471A	

Analysis Batch: 260621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91158-1	DG-Z7S-0.5-1	Total/NA	Solid	7471A	260564
720-91158-2	DG-Z7S-3.5-4	Total/NA	Solid	7471A	260564
MB 720-260564/1-A	Method Blank	Total/NA	Solid	7471A	260564
LCS 720-260564/2-A	Lab Control Sample	Total/NA	Solid	7471A	260564
720-91158-1 MS	DG-Z7S-0.5-1	Total/NA	Solid	7471A	260564
720-91158-1 MSD	DG-Z7S-0.5-1	Total/NA	Solid	7471A	260564
720-91158-2 MS	DG-Z7S-3.5-4	Total/NA	Solid	7471A	260564
720-91158-2 MSD	DG-Z7S-3.5-4	Total/NA	Solid	7471A	260564

Analysis Batch: 260671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91158-1	DG-Z7S-0.5-1	Total/NA	Solid	6010B	260561
720-91158-2	DG-Z7S-3.5-4	Total/NA	Solid	6010B	260561
MB 720-260561/1-A	Method Blank	Total/NA	Solid	6010B	260561
LCS 720-260561/2-A	Lab Control Sample	Total/NA	Solid	6010B	260561
720-91158-1 MS	DG-Z7S-0.5-1	Total/NA	Solid	6010B	260561
720-91158-1 MSD	DG-Z7S-0.5-1	Total/NA	Solid	6010B	260561
720-91158-2 MS	DG-Z7S-3.5-4	Total/NA	Solid	6010B	260561
720-91158-2 MSD	DG-Z7S-3.5-4	Total/NA	Solid	6010B	260561

Analysis Batch: 262012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91158-1	DG-Z7S-0.5-1	Total/NA	Solid	6010B	260561
720-91158-2	DG-Z7S-3.5-4	Total/NA	Solid	6010B	260561
MB 720-260561/1-A	Method Blank	Total/NA	Solid	6010B	260561
LCS 720-260561/2-A	Lab Control Sample	Total/NA	Solid	6010B	260561
720-91158-1 MS	DG-Z7S-0.5-1	Total/NA	Solid	6010B	260561
720-91158-1 MSD	DG-Z7S-0.5-1	Total/NA	Solid	6010B	260561
720-91158-2 MS	DG-Z7S-3.5-4	Total/NA	Solid	6010B	260561

QC Association Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91158-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Metals (Continued)

Analysis Batch: 262012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91158-2 MSD	DG-Z7S-3.5-4	Total/NA	Solid	6010B	260561

General Chemistry

Analysis Batch: 259846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91158-1	DG-Z7S-0.5-1	Total/NA	Solid	Moisture	
720-91158-2	DG-Z7S-3.5-4	Total/NA	Solid	Moisture	
720-91135-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91158-1

Client Sample ID: DG-Z7S-0.5-1

Date Collected: 02/04/19 09:30
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91158-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			260561	02/18/19 17:41	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260671	02/19/19 22:05	OBI	TAL PLS
Total/NA	Prep	3050B			260561	02/18/19 17:41	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262012	02/19/19 22:05	BKR	TAL PLS
Total/NA	Prep	7471A			260564	02/18/19 19:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260621	02/19/19 12:53	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Client Sample ID: DG-Z7S-3.5-4

Date Collected: 02/04/19 09:30
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91158-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			260561	02/18/19 17:41	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260671	02/19/19 22:19	OBI	TAL PLS
Total/NA	Prep	3050B			260561	02/18/19 17:41	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262012	02/19/19 22:19	BKR	TAL PLS
Total/NA	Prep	7471A			260564	02/18/19 19:00	GLL	TAL PLS
Total/NA	Analysis	7471A		1	260621	02/19/19 13:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259846	02/05/19 16:16	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91158-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91158-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91158-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91158-1	DG-Z7S-0.5-1	Solid	02/04/19 09:30	02/04/19 18:10
720-91158-2	DG-Z7S-3.5-4	Solid	02/04/19 09:30	02/04/19 18:10

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600 3002

720-91158

Chain of Custody Record

#155261

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 4 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	___ of ___ COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Scheitman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
DG-ZTs-0.5-1	4 Feb. 2019	0930	G	S	1	N	X		
DG-ZTs-3.5-4	↓	0930	↓	↓	↓	↓	↓		

720-91158 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.1C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by: Nate Fukuba	Company: Geosyntec	Date/Time: 4 Feb. 2019	Received by:	Company: TA-PLS	Date/Time: 2-4-19 16:10
Relinquished by:	Company: TA-PLS	Date/Time: 2-4-19 18:10	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 2/4/19 1810

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91158-1

Login Number: 91158
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Tuesday, February 05, 2019 10:25 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: TestAmerica sample confirmation files from 720-91158-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Please add MS/MSD analysis for both samples.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Tuesday, February 5, 2019 10:21 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: TestAmerica sample confirmation files from 720-91158-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-91158-1; Brisbane OU-2 Data Gap Investigation

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [500041]
Attachments: 3

April 2, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/Kg)	Corrected Result * (mg/Kg)
720-91158-A-1-K	DG-Z7S-0.5-1	22	1.4
720-91158-A-2-K	DG-Z7S-3.5-4	10	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa Brewer
Quality Assurance Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91159-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Urvashi Patel

Authorized for release by:
2/21/2019 10:05:52 PM

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91159-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91159-1

Comments
No additional comments.

Receipt
The samples were received on 2/4/2019 6:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528653 recovered above the upper control limit for 1,1-Dichloroethene and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-528653 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Client Sample ID: DG-AT5S-0.5-1 — Lab Sample ID: 720-91159-1

No Detections.

Client Sample ID: DG-AT5S-3.5-4 — Lab Sample ID: 720-91159-2

No Detections.

Client Sample ID: DG-AG3S-3.5-4 — Lab Sample ID: 720-91159-3

No Detections.

Client Sample ID: DG-U7S-3.5-4 — Lab Sample ID: 720-91159-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	11		7.8	3.9	ug/Kg	1		8260B	Total/NA

Client Sample ID: DG-S7S-3.5-4 — Lab Sample ID: 720-91159-5

No Detections.

Client Sample ID: DG-S9S-4.5-5 — Lab Sample ID: 720-91159-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.45	J	0.80	0.40	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	22		8.0	4.0	ug/Kg	1		8260B	Total/NA

Client Sample ID: DG-S9S-7-7.5 — Lab Sample ID: 720-91159-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	160		63	44	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Toluene	0.49	J	0.63	0.31	ug/Kg	1		8260B	Total/NA

Client Sample ID: DG-O4S-7.5-8 — Lab Sample ID: 720-91159-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	310		62	44	ug/Kg	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: FB-02.04.19 — Lab Sample ID: 720-91159-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	57		20	10	ug/L	1		8260B	Total/NA

Client Sample ID: TB-02.04.19 — Lab Sample ID: 720-91159-15

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AT5S-0.5-1

Date Collected: 02/04/19 08:30
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		75	52	ug/Kg		02/07/19 20:15	02/07/19 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*02/07/19 20:15*	*02/07/19 22:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*02/07/19 20:15*	*02/07/19 22:10*	*1*
Toluene-d8 (Surr)	*93*		*79 - 123*	*02/07/19 20:15*	*02/07/19 22:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,1,1,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,1,1-Trichloroethane	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,1,2-Trichloroethane	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,1-Dichloroethane	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,1-Dichloroethene	ND		1.5	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,1-Dichloropropene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,2,3-Trichlorobenzene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,2,4-Trichlorobenzene	ND		3.7	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,2-Dichlorobenzene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,2-Dichloroethane	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,2-Dichloropropane	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,3-Dichlorobenzene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,3-Dichloropropane	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,4-Dichlorobenzene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
2-Chlorotoluene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
2-Hexanone	ND		7.5	3.7	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
4-Chlorotoluene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
4-Isopropyltoluene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Benzene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Bromobenzene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Bromoform	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Bromomethane	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Carbon disulfide	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Carbon tetrachloride	ND		1.5	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Chlorobenzene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Chlorobromomethane	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Chloroethane	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Chloroform	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Chloromethane	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
cis-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
cis-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Chlorodibromomethane	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Dibromomethane	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Dichlorobromomethane	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1

Client Sample ID: DG-AT5S-0.5-1
Date Collected: 02/04/19 08:30
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Ethylbenzene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Hexachlorobutadiene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Isopropylbenzene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Methylene Chloride	ND		7.5	3.7	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Methyl tert-butyl ether	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Naphthalene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
n-Butylbenzene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
N-Propylbenzene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
sec-Butylbenzene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Styrene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
tert-Butylbenzene	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Tetrachloroethene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Toluene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
trans-1,2-Dichloroethene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
trans-1,3-Dichloropropene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Trichloroethene	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Trichlorofluoromethane	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	3.7	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Vinyl acetate	ND		6.0	3.0	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Vinyl chloride	ND		1.5	0.75	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Xylenes, Total	ND		1.5	0.97	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
Ethylene Dibromide	ND		0.75	0.37	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
2-Butanone (MEK)	ND		7.5	3.7	ug/Kg		02/07/19 20:15	02/07/19 22:10	1
4-Methyl-2-pentanone (MIBK)	ND		3.7	1.9	ug/Kg		02/07/19 20:15	02/07/19 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*79 - 123*	*02/07/19 20:15*	*02/07/19 22:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*02/07/19 20:15*	*02/07/19 22:10*	*1*

Client Sample ID: DG-AT5S-3.5-4

Date Collected: 02/04/19 08:30
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-2

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		66	46	ug/Kg		02/07/19 20:15	02/07/19 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*60 - 120*	*02/07/19 20:15*	*02/07/19 22:35*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*02/07/19 20:15*	*02/07/19 22:35*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*	*02/07/19 20:15*	*02/07/19 22:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.6	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,1,1-Trichloroethane	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,1,2-Trichloroethane	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,1-Dichloroethane	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,1-Dichloroethene	ND		1.3	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,1-Dichloropropene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,2,3-Trichlorobenzene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,2,4-Trichlorobenzene	ND		3.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,2,4-Trimethylbenzene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,2-Dibromo-3-Chloropropane	ND		3.3	1.3	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,2-Dichlorobenzene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,2-Dichloroethane	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,2-Dichloropropane	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,3,5-Trimethylbenzene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,3-Dichlorobenzene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,3-Dichloropropane	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,4-Dichlorobenzene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
2,2-Dichloropropane	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
2-Chlorotoluene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
2-Hexanone	ND		6.6	3.3	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
4-Chlorotoluene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
4-Isopropyltoluene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Benzene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Bromobenzene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Bromoform	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Bromomethane	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Carbon disulfide	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Carbon tetrachloride	ND		1.3	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Chlorobenzene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Chlorobromomethane	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Chloroethane	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Chloroform	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Chloromethane	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
cis-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
cis-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Chlorodibromomethane	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Dibromomethane	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Dichlorobromomethane	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1

Client Sample ID: DG-AT5S-3.5-4
Date Collected: 02/04/19 08:30
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Ethylbenzene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Hexachlorobutadiene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Isopropylbenzene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Methylene Chloride	ND		6.6	3.3	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Methyl tert-butyl ether	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Naphthalene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
n-Butylbenzene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
N-Propylbenzene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
sec-Butylbenzene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Styrene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
tert-Butylbenzene	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Tetrachloroethene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Toluene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
trans-1,2-Dichloroethene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
trans-1,3-Dichloropropene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Trichloroethene	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Trichlorofluoromethane	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	3.3	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Vinyl acetate	ND		5.3	2.7	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Vinyl chloride	ND		1.3	0.66	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Xylenes, Total	ND		1.3	0.86	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
Ethylene Dibromide	ND		0.66	0.33	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
2-Butanone (MEK)	ND		6.6	3.3	ug/Kg		02/07/19 20:15	02/07/19 22:35	1
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.7	ug/Kg		02/07/19 20:15	02/07/19 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*	*02/07/19 20:15*	*02/07/19 22:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*02/07/19 20:15*	*02/07/19 22:35*	*1*

Client Sample ID: DG-AG3S-3.5-4

Date Collected: 02/04/19 09:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		64	45	ug/Kg		02/07/19 20:15	02/07/19 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*	*02/07/19 20:15*	*02/07/19 22:59*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*02/07/19 20:15*	*02/07/19 22:59*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/07/19 20:15*	*02/07/19 22:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.4	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,1,1-Trichloroethane	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,1,2-Trichloroethane	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,1-Dichloroethane	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,1-Dichloroethene	ND		1.3	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,1-Dichloropropene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,2,3-Trichlorobenzene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,2,4-Trichlorobenzene	ND		3.2	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,2,4-Trimethylbenzene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.3	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,2-Dichlorobenzene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,2-Dichloroethane	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,2-Dichloropropane	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,3,5-Trimethylbenzene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,3-Dichlorobenzene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,3-Dichloropropane	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,4-Dichlorobenzene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
2,2-Dichloropropane	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
2-Chlorotoluene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
2-Hexanone	ND		6.4	3.2	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
4-Chlorotoluene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
4-Isopropyltoluene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Benzene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Bromobenzene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Bromoform	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Bromomethane	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Carbon disulfide	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Carbon tetrachloride	ND		1.3	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Chlorobenzene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Chlorobromomethane	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Chloroethane	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Chloroform	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Chloromethane	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
cis-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
cis-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Chlorodibromomethane	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Dibromomethane	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Dichlorobromomethane	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1

Client Sample ID: DG-AG3S-3.5-4
Date Collected: 02/04/19 09:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Ethylbenzene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Hexachlorobutadiene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Isopropylbenzene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Methylene Chloride	ND		6.4	3.2	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Methyl tert-butyl ether	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Naphthalene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
n-Butylbenzene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
N-Propylbenzene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
sec-Butylbenzene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Styrene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
tert-Butylbenzene	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Tetrachloroethene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Toluene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
trans-1,2-Dichloroethene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
trans-1,3-Dichloropropene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Trichloroethene	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Trichlorofluoromethane	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	3.2	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Vinyl acetate	ND		5.1	2.6	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Vinyl chloride	ND		1.3	0.64	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Xylenes, Total	ND		1.3	0.84	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
Ethylene Dibromide	ND		0.64	0.32	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
2-Butanone (MEK)	ND		6.4	3.2	ug/Kg		02/07/19 20:15	02/07/19 22:59	1
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.6	ug/Kg		02/07/19 20:15	02/07/19 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*79 - 123*	*02/07/19 20:15*	*02/07/19 22:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*02/07/19 20:15*	*02/07/19 22:59*	*1*

Client Sample ID: DG-U7S-3.5-4

Date Collected: 02/04/19 09:50
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		78	55	ug/Kg		02/08/19 21:14	02/09/19 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*	*02/08/19 21:14*	*02/09/19 02:26*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*02/08/19 21:14*	*02/09/19 02:26*	*1*
Toluene-d8 (Surr)	*94*		*79 - 123*	*02/08/19 21:14*	*02/09/19 02:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,1,1-Trichloroethane	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,1,2-Trichloroethane	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,1-Dichloroethane	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,1-Dichloroethene	ND		1.6	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,1-Dichloropropene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,2,3-Trichlorobenzene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,2-Dichlorobenzene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,2-Dichloroethane	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,2-Dichloropropane	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,3-Dichlorobenzene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,3-Dichloropropane	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,4-Dichlorobenzene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
2-Chlorotoluene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
2-Hexanone	ND		7.8	3.9	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
4-Chlorotoluene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
4-Isopropyltoluene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Benzene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Bromobenzene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Bromoform	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Bromomethane	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Carbon disulfide	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Carbon tetrachloride	ND		1.6	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Chlorobenzene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Chlorobromomethane	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Chloroethane	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Chloroform	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Chloromethane	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
cis-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
cis-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Chlorodibromomethane	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Dibromomethane	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Dichlorobromomethane	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1

Client Sample ID: DG-U7S-3.5-4
Date Collected: 02/04/19 09:50
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Ethylbenzene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Hexachlorobutadiene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Isopropylbenzene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Methylene Chloride	ND		7.8	3.9	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Methyl tert-butyl ether	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Naphthalene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
n-Butylbenzene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
N-Propylbenzene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
sec-Butylbenzene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Styrene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
tert-Butylbenzene	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Tetrachloroethene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Toluene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
trans-1,2-Dichloroethene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
trans-1,3-Dichloropropene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Trichloroethene	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Trichlorofluoromethane	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	3.9	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Vinyl acetate	ND		6.3	3.1	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Vinyl chloride	ND		1.6	0.78	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
Ethylene Dibromide	ND		0.78	0.39	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
2-Butanone (MEK)	**11**		7.8	3.9	ug/Kg		02/08/19 21:14	02/09/19 02:26	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	2.0	ug/Kg		02/08/19 21:14	02/09/19 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*79 - 123*	*02/08/19 21:14*	*02/09/19 02:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*02/08/19 21:14*	*02/09/19 02:26*	*1*

Client Sample ID: DG-S7S-3.5-4

Date Collected: 02/04/19 10:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		84	59	ug/Kg		02/07/19 20:15	02/07/19 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*	*02/07/19 20:15*	*02/07/19 23:49*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*	*02/07/19 20:15*	*02/07/19 23:49*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/07/19 20:15*	*02/07/19 23:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.4	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,1,1,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,1,1-Trichloroethane	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,1,2-Trichloroethane	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,1-Dichloroethane	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,1-Dichloroethene	ND		1.7	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,1-Dichloropropene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,2,3-Trichlorobenzene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,2,4-Trichlorobenzene	ND		4.2	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,2,4-Trimethylbenzene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,2-Dibromo-3-Chloropropane	ND		4.2	1.7	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,2-Dichlorobenzene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,2-Dichloroethane	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,2-Dichloropropane	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,3,5-Trimethylbenzene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,3-Dichlorobenzene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,3-Dichloropropane	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,4-Dichlorobenzene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
2,2-Dichloropropane	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
2-Chlorotoluene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
2-Hexanone	ND		8.4	4.2	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
4-Chlorotoluene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
4-Isopropyltoluene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Benzene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Bromobenzene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Bromoform	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Bromomethane	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Carbon disulfide	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Carbon tetrachloride	ND		1.7	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Chlorobenzene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Chlorobromomethane	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Chloroethane	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Chloroform	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Chloromethane	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
cis-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
cis-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Chlorodibromomethane	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Dibromomethane	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Dichlorobromomethane	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1

Client Sample ID: DG-S7S-3.5-4
Date Collected: 02/04/19 10:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Ethylbenzene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Hexachlorobutadiene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Isopropylbenzene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Methylene Chloride	ND		8.4	4.2	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Methyl tert-butyl ether	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Naphthalene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
n-Butylbenzene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
N-Propylbenzene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
sec-Butylbenzene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Styrene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
tert-Butylbenzene	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Tetrachloroethene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Toluene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
trans-1,2-Dichloroethene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
trans-1,3-Dichloropropene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Trichloroethene	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Trichlorofluoromethane	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.4	4.2	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Vinyl acetate	ND		6.7	3.4	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Vinyl chloride	ND		1.7	0.84	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Xylenes, Total	ND		1.7	1.1	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
Ethylene Dibromide	ND		0.84	0.42	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
2-Butanone (MEK)	ND		8.4	4.2	ug/Kg		02/07/19 20:15	02/07/19 23:49	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	2.1	ug/Kg		02/07/19 20:15	02/07/19 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/07/19 20:15*	*02/07/19 23:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*02/07/19 20:15*	*02/07/19 23:49*	*1*

Client Sample ID: DG-S9S-4.5-5

Date Collected: 02/04/19 10:20
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		80	56	ug/Kg		02/07/19 20:15	02/08/19 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*60 - 120*	*02/07/19 20:15*	*02/08/19 00:13*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*	*02/07/19 20:15*	*02/08/19 00:13*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*	*02/07/19 20:15*	*02/08/19 00:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,1,1,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,1,1-Trichloroethane	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,1,2-Trichloroethane	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,1-Dichloroethane	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,1-Dichloroethene	ND		1.6	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,1-Dichloropropene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,2,3-Trichlorobenzene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,2-Dichlorobenzene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,2-Dichloroethane	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,2-Dichloropropane	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,3-Dichlorobenzene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,3-Dichloropropane	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,4-Dichlorobenzene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
2-Chlorotoluene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
2-Hexanone	ND		8.0	4.0	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
4-Chlorotoluene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
4-Isopropyltoluene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Benzene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Bromobenzene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Bromoform	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Bromomethane	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Carbon disulfide	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Carbon tetrachloride	ND		1.6	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Chlorobenzene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Chlorobromomethane	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Chloroethane	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Chloroform	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Chloromethane	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
cis-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
cis-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Chlorodibromomethane	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Dibromomethane	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Dichlorobromomethane	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Client Sample ID: DG-S9S-4.5-5
Date Collected: 02/04/19 10:20
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Ethylbenzene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Hexachlorobutadiene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Isopropylbenzene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Methylene Chloride	ND		8.0	4.0	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Methyl tert-butyl ether	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Naphthalene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
n-Butylbenzene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
N-Propylbenzene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
sec-Butylbenzene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Styrene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
tert-Butylbenzene	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Tetrachloroethene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Toluene	**0.45**	**J**	0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
trans-1,2-Dichloroethene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
trans-1,3-Dichloropropene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Trichloroethene	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Trichlorofluoromethane	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	4.0	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Vinyl acetate	ND		6.4	3.2	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Vinyl chloride	ND		1.6	0.80	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Xylenes, Total	ND		1.6	1.0	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
Ethylene Dibromide	ND		0.80	0.40	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
2-Butanone (MEK)	**22**		8.0	4.0	ug/Kg		02/07/19 20:15	02/08/19 00:13	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	2.0	ug/Kg		02/07/19 20:15	02/08/19 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*79 - 123*	*02/07/19 20:15*	*02/08/19 00:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*02/07/19 20:15*	*02/08/19 00:13*	*1*

Client Sample ID: DG-S9S-7-7.5

Date Collected: 02/04/19 11:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	160		63	44	ug/Kg		02/07/19 20:15	02/08/19 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*60 - 120*	*02/07/19 20:15*	*02/08/19 00:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*02/07/19 20:15*	*02/08/19 00:38*	*1*
Toluene-d8 (Surr)	*94*		*79 - 123*	*02/07/19 20:15*	*02/08/19 00:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,1,1,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,1,1-Trichloroethane	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,1,2,2-Tetrachloroethane	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,1,2-Trichloroethane	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,1-Dichloroethane	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,1-Dichloroethene	ND		1.3	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,1-Dichloropropene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,2,3-Trichlorobenzene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,2,4-Trichlorobenzene	ND		3.1	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,2,4-Trimethylbenzene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,2-Dibromo-3-Chloropropane	ND		3.1	1.3	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,2-Dichlorobenzene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,2-Dichloroethane	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,2-Dichloropropane	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,3,5-Trimethylbenzene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,3-Dichlorobenzene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,3-Dichloropropane	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,4-Dichlorobenzene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
2,2-Dichloropropane	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
2-Chlorotoluene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
2-Hexanone	ND		6.3	3.1	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
4-Chlorotoluene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
4-Isopropyltoluene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Benzene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Bromobenzene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Bromoform	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Bromomethane	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Carbon disulfide	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Carbon tetrachloride	ND		1.3	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Chlorobenzene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Chlorobromomethane	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Chloroethane	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Chloroform	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Chloromethane	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
cis-1,2-Dichloroethene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
cis-1,3-Dichloropropene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Chlorodibromomethane	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Dibromomethane	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Dichlorobromomethane	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Client Sample ID: DG-S9S-7-7.5
Date Collected: 02/04/19 11:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Ethylbenzene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Hexachlorobutadiene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Isopropylbenzene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Methylene Chloride	ND		6.3	3.1	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Methyl tert-butyl ether	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Naphthalene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
n-Butylbenzene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
N-Propylbenzene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
sec-Butylbenzene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Styrene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
tert-Butylbenzene	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Tetrachloroethene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Toluene	**0.49**	**J**	0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
trans-1,2-Dichloroethene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
trans-1,3-Dichloropropene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Trichloroethene	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Trichlorofluoromethane	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.3	3.1	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Vinyl acetate	ND		5.0	2.5	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Vinyl chloride	ND		1.3	0.63	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Xylenes, Total	ND		1.3	0.82	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
Ethylene Dibromide	ND		0.63	0.31	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
2-Butanone (MEK)	ND		6.3	3.1	ug/Kg		02/07/19 20:15	02/08/19 00:38	1
4-Methyl-2-pentanone (MIBK)	ND		3.1	1.6	ug/Kg		02/07/19 20:15	02/08/19 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*79 - 123*	*02/07/19 20:15*	*02/08/19 00:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*02/07/19 20:15*	*02/08/19 00:38*	*1*

Client Sample ID: DG-O4S-7.5-8

Date Collected: 02/04/19 11:10
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	310		62	44	ug/Kg		02/07/19 20:15	02/08/19 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*60 - 120*	*02/07/19 20:15*	*02/08/19 01:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*	*02/07/19 20:15*	*02/08/19 01:03*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/07/19 20:15*	*02/08/19 01:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,1,1,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,1,1-Trichloroethane	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,1,2-Trichloroethane	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,1-Dichloroethane	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,1-Dichloroethene	ND		1.2	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,1-Dichloropropene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,2,3-Trichlorobenzene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,2,4-Trichlorobenzene	ND		3.1	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,2,4-Trimethylbenzene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,2-Dibromo-3-Chloropropane	ND		3.1	1.2	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,2-Dichlorobenzene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,2-Dichloroethane	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,2-Dichloropropane	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,3,5-Trimethylbenzene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,3-Dichlorobenzene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,3-Dichloropropane	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,4-Dichlorobenzene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
2,2-Dichloropropane	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
2-Chlorotoluene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
2-Hexanone	ND		6.2	3.1	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
4-Chlorotoluene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
4-Isopropyltoluene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Benzene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Bromobenzene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Bromoform	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Bromomethane	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Carbon disulfide	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Carbon tetrachloride	ND		1.2	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Chlorobenzene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Chlorobromomethane	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Chloroethane	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Chloroform	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Chloromethane	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
cis-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
cis-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Chlorodibromomethane	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Dibromomethane	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Dichlorobromomethane	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1

Client Sample ID: DG-O4S-7.5-8
Date Collected: 02/04/19 11:10
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Ethylbenzene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Hexachlorobutadiene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Isopropylbenzene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Methylene Chloride	ND		6.2	3.1	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Methyl tert-butyl ether	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Naphthalene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
n-Butylbenzene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
N-Propylbenzene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
sec-Butylbenzene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Styrene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
tert-Butylbenzene	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Tetrachloroethene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Toluene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
trans-1,2-Dichloroethene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
trans-1,3-Dichloropropene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Trichloroethene	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Trichlorofluoromethane	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	3.1	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Vinyl acetate	ND		5.0	2.5	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Vinyl chloride	ND		1.2	0.62	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Xylenes, Total	ND		1.2	0.81	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
Ethylene Dibromide	ND		0.62	0.31	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
2-Butanone (MEK)	ND		6.2	3.1	ug/Kg		02/07/19 20:15	02/08/19 01:03	1
4-Methyl-2-pentanone (MIBK)	ND		3.1	1.6	ug/Kg		02/07/19 20:15	02/08/19 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*79 - 123*	*02/07/19 20:15*	*02/08/19 01:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*02/07/19 20:15*	*02/08/19 01:03*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Client Sample ID: FB-02.04.19
Date Collected: 02/04/19 00:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-14
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*02/14/19 16:03*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*02/14/19 16:03*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/14/19 16:03*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Acetone	**57**		20	10	ug/L			02/14/19 16:03	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 16:03	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 16:03	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 16:03	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 16:03	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 16:03	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 16:03	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 16:03	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 16:03	1

Client Sample ID: FB-02.04.19
Date Collected: 02/04/19 00:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 16:03	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 16:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 16:03	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 16:03	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 16:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 16:03	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 16:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 16:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 16:03	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 16:03	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 16:03	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*02/14/19 16:03*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/14/19 16:03*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Client Sample ID: TB-02.04.19
Date Collected: 02/04/19 00:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-15
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*02/14/19 16:29*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/14/19 16:29*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*02/14/19 16:29*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Acetone	ND		20	10	ug/L			02/14/19 16:29	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 16:29	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 16:29	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 16:29	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 16:29	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 16:29	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 16:29	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 16:29	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 16:29	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Client Sample ID: TB-02.04.19
Date Collected: 02/04/19 00:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 16:29	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 16:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 16:29	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 16:29	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 16:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 16:29	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 16:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 16:29	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 16:29	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 16:29	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*02/14/19 16:29*	*1*
Toluene-d8 (Surr)	*96*		*80 - 128*		*02/14/19 16:29*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(79-123)
440-231899-A-9 MS	Matrix Spike	95	93
440-231899-A-9 MSD	Matrix Spike Duplicate	93	95
720-91159-1	DG-AT5S-0.5-1	101	93
720-91159-2	DG-AT5S-3.5-4	97	96
720-91159-3	DG-AG3S-3.5-4	96	98
720-91159-4	DG-U7S-3.5-4	96	94
720-91159-5	DG-S7S-3.5-4	97	97
720-91159-6	DG-S9S-4.5-5	97	95
720-91159-7	DG-S9S-7-7.5	96	94
720-91159-8	DG-O4S-7.5-8	94	97
LCS 440-527461/5	Lab Control Sample	97	96
LCS 440-527701/5	Lab Control Sample	93	96
LCSD 440-527461/6	Lab Control Sample Dup	98	98
MB 440-527461/4	Method Blank	100	95
MB 440-527701/4	Method Blank	94	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-232894-C-12 MS	Matrix Spike	114	96
440-232894-C-12 MSD	Matrix Spike Duplicate	115	96
720-91159-14	FB-02.04.19	117	99
720-91159-15	TB-02.04.19	122	96
LCS 440-528653/5	Lab Control Sample	118	96
MB 440-528653/4	Method Blank	115	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
440-231899-A-9 MS	Matrix Spike	100	95	93
440-231899-A-9 MSD	Matrix Spike Duplicate	97	96	95
720-91159-1	DG-AT5S-0.5-1	101	100	93
720-91159-2	DG-AT5S-3.5-4	98	101	96
720-91159-3	DG-AG3S-3.5-4	100	101	97
720-91159-4	DG-U7S-3.5-4	99	101	94
720-91159-5	DG-S7S-3.5-4	99	101	97

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
720-91159-6	DG-S9S-4.5-5	97	103	95
720-91159-7	DG-S9S-7-7.5	97	100	94
720-91159-8	DG-O4S-7.5-8	97	97	97
LCS 440-527462/7	Lab Control Sample	100	98	97
LCS 440-527702/6	Lab Control Sample	98	96	96
LCSD 440-527462/8	Lab Control Sample Dup	98	97	97
MB 440-527462/4	Method Blank	100	100	95
MB 440-527702/4	Method Blank	98	98	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-232894-C-12 MS	Matrix Spike	111	91	96
440-232894-C-12 MSD	Matrix Spike Duplicate	112	86	96
720-91159-14	FB-02.04.19	112	88	99
720-91159-15	TB-02.04.19	114	89	96
LCS 440-528654/6	Lab Control Sample	113	90	97
MB 440-528654/4	Method Blank	110	89	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-527461/4
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Benzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/07/19 19:41	1
Bromoform	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/07/19 19:41	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/07/19 19:41	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Chloroform	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
2-Hexanone	ND		10	5.0	ug/Kg			02/07/19 19:41	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/07/19 19:41	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Styrene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/07/19 19:41	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527461/4
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Toluene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/07/19 19:41	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/07/19 19:41	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/07/19 19:41	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/07/19 19:41	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/07/19 19:41	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/07/19 19:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/07/19 19:41	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/07/19 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/07/19 19:41*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*		*02/07/19 19:41*	*1*

Lab Sample ID: LCS 440-527461/5
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	20.4		ug/Kg		102	70 - 125
1,2-Dichlorobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,3-Dichlorobenzene	20.0	20.7		ug/Kg		104	75 - 125
4-Chlorotoluene	20.0	20.5		ug/Kg		102	75 - 125
1,4-Dichlorobenzene	20.0	20.3		ug/Kg		101	75 - 120
1,3-Dichloropropane	20.0	20.7		ug/Kg		103	70 - 125
Benzene	20.0	20.8		ug/Kg		104	65 - 120
1,1-Dichloropropene	20.0	19.5		ug/Kg		97	70 - 130
Bromobenzene	20.0	21.2		ug/Kg		106	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.6		ug/Kg		98	50 - 135
Bromoform	20.0	22.1		ug/Kg		110	55 - 135
Bromomethane	20.0	19.9		ug/Kg		99	60 - 145
Carbon disulfide	20.0	18.7		ug/Kg		94	50 - 130
Carbon tetrachloride	20.0	19.1		ug/Kg		96	65 - 140
1,1-Dichloroethane	20.0	20.3		ug/Kg		101	70 - 130
Chlorobenzene	20.0	20.8		ug/Kg		104	75 - 120
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	60 - 140
Chlorobromomethane	20.0	23.3		ug/Kg		116	70 - 135
1,1-Dichloroethene	20.0	19.6		ug/Kg		98	70 - 125
Chloroethane	20.0	18.5		ug/Kg		93	60 - 140
Chloroform	20.0	20.7		ug/Kg		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527461/5
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	17.4		ug/Kg		87	45 - 145
1,2-Dichloropropane	20.0	22.6		ug/Kg		113	70 - 130
cis-1,2-Dichloroethene	20.0	21.1		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	20.0	21.2		ug/Kg		106	75 - 125
Chlorodibromomethane	20.0	22.1		ug/Kg		111	65 - 140
Dibromomethane	20.0	21.8		ug/Kg		109	70 - 130
Dichlorobromomethane	20.0	21.1		ug/Kg		106	70 - 135
2-Hexanone	20.0	19.8		ug/Kg		99	40 - 150
Dichlorodifluoromethane	20.0	17.0		ug/Kg		85	35 - 160
Ethylbenzene	20.0	19.7		ug/Kg		99	70 - 125
4-Isopropyltoluene	20.0	20.8		ug/Kg		104	75 - 125
Hexachlorobutadiene	20.0	19.6		ug/Kg		98	60 - 135
Isopropylbenzene	20.0	20.4		ug/Kg		102	75 - 130
Methylene Chloride	20.0	17.7		ug/Kg		89	55 - 135
Methyl tert-butyl ether	20.0	22.3		ug/Kg		111	60 - 140
Naphthalene	20.0	21.0		ug/Kg		105	55 - 135
1,1,1,2-Tetrachloroethane	20.0	21.3		ug/Kg		106	70 - 130
n-Butylbenzene	20.0	19.2		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.6		ug/Kg		113	55 - 140
N-Propylbenzene	20.0	20.4		ug/Kg		102	70 - 130
sec-Butylbenzene	20.0	20.8		ug/Kg		104	70 - 125
1,2,3-Trichlorobenzene	20.0	20.3		ug/Kg		101	60 - 130
Styrene	20.0	19.8		ug/Kg		99	75 - 130
1,2,4-Trichlorobenzene	20.0	20.5		ug/Kg		102	70 - 135
tert-Butylbenzene	20.0	19.9		ug/Kg		100	70 - 125
1,1,1-Trichloroethane	20.0	18.6		ug/Kg		93	65 - 135
Tetrachloroethene	20.0	19.2		ug/Kg		96	70 - 125
1,1,2-Trichloroethane	20.0	21.2		ug/Kg		106	65 - 135
Toluene	20.0	20.1		ug/Kg		101	70 - 125
trans-1,2-Dichloroethene	20.0	20.5		ug/Kg		102	70 - 125
1,2,3-Trichloropropane	20.0	22.9		ug/Kg		115	60 - 135
trans-1,3-Dichloropropene	20.0	20.6		ug/Kg		103	70 - 135
Trichloroethene	20.0	21.3		ug/Kg		106	70 - 125
1,2,4-Trimethylbenzene	20.0	20.5		ug/Kg		102	70 - 125
Trichlorofluoromethane	20.0	18.7		ug/Kg		93	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.1		ug/Kg		95	60 - 140
1,3,5-Trimethylbenzene	20.0	20.6		ug/Kg		103	70 - 125
Vinyl acetate	20.0	20.1		ug/Kg		101	45 - 145
Vinyl chloride	20.0	17.4		ug/Kg		87	55 - 135
m-Xylene & p-Xylene	20.0	20.2		ug/Kg		101	70 - 125
Ethylene Dibromide	20.0	22.0		ug/Kg		110	70 - 130
o-Xylene	20.0	20.7		ug/Kg		103	70 - 125
2-Butanone (MEK)	20.0	21.4		ug/Kg		107	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	19.8		ug/Kg		99	40 - 145
2,2-Dichloropropane	20.0	19.1		ug/Kg		96	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527461/5
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: LCSD 440-527461/6
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene			20.0	20.1		ug/Kg		101	70 - 125	1	20
1,2-Dichlorobenzene			20.0	21.1		ug/Kg		106	75 - 120	1	20
1,3-Dichlorobenzene			20.0	20.9		ug/Kg		104	75 - 125	1	20
4-Chlorotoluene			20.0	20.5		ug/Kg		102	75 - 125	0	20
1,4-Dichlorobenzene			20.0	20.7		ug/Kg		103	75 - 120	2	20
1,3-Dichloropropane			20.0	21.4		ug/Kg		107	70 - 125	3	20
Benzene			20.0	20.8		ug/Kg		104	65 - 120	0	20
1,1-Dichloropropene			20.0	19.3		ug/Kg		97	70 - 130	1	20
Bromobenzene			20.0	21.3		ug/Kg		107	75 - 120	1	20
1,2-Dibromo-3-Chloropropane			20.0	20.2		ug/Kg		101	50 - 135	3	30
Bromoform			20.0	22.6		ug/Kg		113	55 - 135	2	25
Bromomethane			20.0	20.3		ug/Kg		101	60 - 145	2	20
Carbon disulfide			20.0	18.8		ug/Kg		94	50 - 130	0	20
Carbon tetrachloride			20.0	19.4		ug/Kg		97	65 - 140	2	20
1,1-Dichloroethane			20.0	20.8		ug/Kg		104	70 - 130	3	20
Chlorobenzene			20.0	21.4		ug/Kg		107	75 - 120	3	20
1,2-Dichloroethane			20.0	19.7		ug/Kg		98	60 - 140	1	20
Chlorobromomethane			20.0	24.0		ug/Kg		120	70 - 135	3	20
1,1-Dichloroethene			20.0	19.1		ug/Kg		96	70 - 125	2	20
Chloroethane			20.0	18.9		ug/Kg		95	60 - 140	2	25
Chloroform			20.0	20.8		ug/Kg		104	70 - 130	0	20
Chloromethane			20.0	16.8		ug/Kg		84	45 - 145	4	25
1,2-Dichloropropane			20.0	21.8		ug/Kg		109	70 - 130	4	20
cis-1,2-Dichloroethene			20.0	21.2		ug/Kg		106	70 - 125	1	20
cis-1,3-Dichloropropene			20.0	22.6		ug/Kg		113	75 - 125	6	20
Chlorodibromomethane			20.0	23.0		ug/Kg		115	65 - 140	4	20
Dibromomethane			20.0	22.3		ug/Kg		112	70 - 130	2	20
Dichlorobromomethane			20.0	21.2		ug/Kg		106	70 - 135	0	20
2-Hexanone			20.0	20.1		ug/Kg		100	40 - 150	2	35
Dichlorodifluoromethane			20.0	17.1		ug/Kg		85	35 - 160	0	30
Ethylbenzene			20.0	20.3		ug/Kg		102	70 - 125	3	20
4-Isopropyltoluene			20.0	21.2		ug/Kg		106	75 - 125	2	20
Hexachlorobutadiene			20.0	19.5		ug/Kg		98	60 - 135	1	20
Isopropylbenzene			20.0	21.4		ug/Kg		107	75 - 130	5	20
Methylene Chloride			20.0	17.5		ug/Kg		88	55 - 135	1	20
Methyl tert-butyl ether			20.0	21.8		ug/Kg		109	60 - 140	2	25
Naphthalene			20.0	22.2		ug/Kg		111	55 - 135	6	25
1,1,1,2-Tetrachloroethane			20.0	21.8		ug/Kg		109	70 - 130	3	20
n-Butylbenzene			20.0	19.2		ug/Kg		96	70 - 130	0	20
1,1,2,2-Tetrachloroethane			20.0	22.6		ug/Kg		113	55 - 140	0	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-527461/6
Matrix: Solid
Analysis Batch: 527461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	20.0	20.4		ug/Kg		102	70 - 130	0	20
sec-Butylbenzene	20.0	20.7		ug/Kg		103	70 - 125	1	20
1,2,3-Trichlorobenzene	20.0	21.7		ug/Kg		109	60 - 130	7	20
Styrene	20.0	20.6		ug/Kg		103	75 - 130	4	20
1,2,4-Trichlorobenzene	20.0	21.4		ug/Kg		107	70 - 135	5	20
tert-Butylbenzene	20.0	20.4		ug/Kg		102	70 - 125	2	20
1,1,1-Trichloroethane	20.0	18.8		ug/Kg		94	65 - 135	1	20
Tetrachloroethene	20.0	20.0		ug/Kg		100	70 - 125	4	20
1,1,2-Trichloroethane	20.0	21.9		ug/Kg		110	65 - 135	3	20
Toluene	20.0	20.8		ug/Kg		104	70 - 125	3	20
trans-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	70 - 125	0	20
1,2,3-Trichloropropane	20.0	21.2		ug/Kg		106	60 - 135	8	25
trans-1,3-Dichloropropene	20.0	21.7		ug/Kg		108	70 - 135	5	20
Trichloroethene	20.0	21.5		ug/Kg		107	70 - 125	1	20
1,2,4-Trimethylbenzene	20.0	20.8		ug/Kg		104	70 - 125	2	20
Trichlorofluoromethane	20.0	19.0		ug/Kg		95	60 - 145	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.6		ug/Kg		98	60 - 140	3	40
1,3,5-Trimethylbenzene	20.0	20.8		ug/Kg		104	70 - 125	1	20
Vinyl acetate	20.0	20.3		ug/Kg		102	45 - 145	1	20
Vinyl chloride	20.0	17.0		ug/Kg		85	55 - 135	2	25
m-Xylene & p-Xylene	20.0	21.0		ug/Kg		105	70 - 125	3	20
Ethylene Dibromide	20.0	22.9		ug/Kg		115	70 - 130	4	20
o-Xylene	20.0	21.6		ug/Kg		108	70 - 125	5	20
2-Butanone (MEK)	20.0	21.4		ug/Kg		107	40 - 145	0	35
4-Methyl-2-pentanone (MIBK)	20.0	21.0		ug/Kg		105	40 - 145	6	35
2,2-Dichloropropane	20.0	19.1		ug/Kg		95	60 - 145	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-527701/4
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Benzene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/08/19 19:26	1
Bromoform	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527701/4
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/08/19 19:26	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/08/19 19:26	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Chloroform	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
2-Hexanone	ND		10	5.0	ug/Kg			02/08/19 19:26	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/08/19 19:26	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Styrene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/08/19 19:26	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Toluene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/08/19 19:26	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/08/19 19:26	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/08/19 19:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-527701/4
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/08/19 19:26	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/08/19 19:26	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/08/19 19:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/08/19 19:26	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/08/19 19:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*02/08/19 19:26*	*1*
Toluene-d8 (Surr)	*98*		*79 - 123*		*02/08/19 19:26*	*1*

Lab Sample ID: LCS 440-527701/5
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	19.6		ug/Kg		98	70 - 125
1,2-Dichlorobenzene	20.0	20.5		ug/Kg		102	75 - 120
1,3-Dichlorobenzene	20.0	20.3		ug/Kg		102	75 - 125
4-Chlorotoluene	20.0	19.7		ug/Kg		99	75 - 125
1,4-Dichlorobenzene	20.0	19.9		ug/Kg		99	75 - 120
1,3-Dichloropropane	20.0	19.5		ug/Kg		98	70 - 125
Benzene	20.0	20.4		ug/Kg		102	65 - 120
1,1-Dichloropropene	20.0	19.3		ug/Kg		96	70 - 130
Bromobenzene	20.0	20.2		ug/Kg		101	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.6		ug/Kg		93	50 - 135
Bromoform	20.0	20.9		ug/Kg		105	55 - 135
Bromomethane	20.0	19.6		ug/Kg		98	60 - 145
Carbon disulfide	20.0	19.1		ug/Kg		95	50 - 130
Carbon tetrachloride	20.0	18.7		ug/Kg		93	65 - 140
1,1-Dichloroethane	20.0	19.9		ug/Kg		99	70 - 130
Chlorobenzene	20.0	20.1		ug/Kg		101	75 - 120
1,2-Dichloroethane	20.0	18.6		ug/Kg		93	60 - 140
Chlorobromomethane	20.0	22.7		ug/Kg		113	70 - 135
1,1-Dichloroethene	20.0	20.1		ug/Kg		100	70 - 125
Chloroethane	20.0	19.2		ug/Kg		96	60 - 140
Chloroform	20.0	19.9		ug/Kg		100	70 - 130
Chloromethane	20.0	16.5		ug/Kg		82	45 - 145
1,2-Dichloropropane	20.0	21.4		ug/Kg		107	70 - 130
cis-1,2-Dichloroethene	20.0	20.5		ug/Kg		102	70 - 125
cis-1,3-Dichloropropene	20.0	20.8		ug/Kg		104	75 - 125
Chlorodibromomethane	20.0	20.8		ug/Kg		104	65 - 140
Dibromomethane	20.0	21.1		ug/Kg		105	70 - 130
Dichlorobromomethane	20.0	19.9		ug/Kg		99	70 - 135
2-Hexanone	20.0	18.6		ug/Kg		93	40 - 150
Dichlorodifluoromethane	20.0	17.5		ug/Kg		87	35 - 160
Ethylbenzene	20.0	19.2		ug/Kg		96	70 - 125
4-Isopropyltoluene	20.0	20.9		ug/Kg		104	75 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-527701/5
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	20.0	19.2		ug/Kg		96	60 - 135
Isopropylbenzene	20.0	20.3		ug/Kg		102	75 - 130
Methylene Chloride	20.0	17.6		ug/Kg		88	55 - 135
Methyl tert-butyl ether	20.0	20.9		ug/Kg		104	60 - 140
Naphthalene	20.0	19.6		ug/Kg		98	55 - 135
1,1,1,2-Tetrachloroethane	20.0	21.1		ug/Kg		106	70 - 130
n-Butylbenzene	20.0	19.5		ug/Kg		97	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/Kg		107	55 - 140
N-Propylbenzene	20.0	19.9		ug/Kg		99	70 - 130
sec-Butylbenzene	20.0	20.9		ug/Kg		105	70 - 125
1,2,3-Trichlorobenzene	20.0	19.6		ug/Kg		98	60 - 130
Styrene	20.0	19.1		ug/Kg		95	75 - 130
1,2,4-Trichlorobenzene	20.0	20.2		ug/Kg		101	70 - 135
tert-Butylbenzene	20.0	20.2		ug/Kg		101	70 - 125
1,1,1-Trichloroethane	20.0	18.6		ug/Kg		93	65 - 135
Tetrachloroethene	20.0	19.1		ug/Kg		96	70 - 125
1,1,2-Trichloroethane	20.0	20.8		ug/Kg		104	65 - 135
Toluene	20.0	19.7		ug/Kg		99	70 - 125
trans-1,2-Dichloroethene	20.0	20.3		ug/Kg		101	70 - 125
1,2,3-Trichloropropane	20.0	20.1		ug/Kg		101	60 - 135
trans-1,3-Dichloropropene	20.0	19.5		ug/Kg		98	70 - 135
Trichloroethene	20.0	21.1		ug/Kg		106	70 - 125
1,2,4-Trimethylbenzene	20.0	20.3		ug/Kg		102	70 - 125
Trichlorofluoromethane	20.0	19.2		ug/Kg		96	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.8		ug/Kg		99	60 - 140
1,3,5-Trimethylbenzene	20.0	20.1		ug/Kg		101	70 - 125
Vinyl acetate	20.0	19.3		ug/Kg		97	45 - 145
Vinyl chloride	20.0	16.5		ug/Kg		82	55 - 135
m-Xylene & p-Xylene	20.0	19.7		ug/Kg		99	70 - 125
Ethylene Dibromide	20.0	20.9		ug/Kg		104	70 - 130
o-Xylene	20.0	20.1		ug/Kg		100	70 - 125
2-Butanone (MEK)	20.0	20.4		ug/Kg		102	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	18.5		ug/Kg		92	40 - 145
2,2-Dichloropropane	20.0	18.8		ug/Kg		94	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: 440-231899-A-9 MS
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		19.8	19.5		ug/Kg		98	60 - 135
1,2-Dichlorobenzene	ND		19.8	19.9		ug/Kg		101	70 - 130
1,3-Dichlorobenzene	ND		19.8	19.8		ug/Kg		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231899-A-9 MS
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	ND		19.8	19.3		ug/Kg		97	65 - 135
1,4-Dichlorobenzene	ND		19.8	19.6		ug/Kg		99	70 - 130
1,3-Dichloropropane	ND		19.8	19.7		ug/Kg		100	65 - 140
Benzene	ND		19.8	20.5		ug/Kg		104	65 - 130
1,1-Dichloropropene	ND		19.8	20.4		ug/Kg		103	65 - 135
Bromobenzene	ND		19.8	20.2		ug/Kg		102	65 - 140
1,2-Dibromo-3-Chloropropane	ND		19.8	18.1		ug/Kg		92	40 - 150
Bromoform	ND		19.8	20.1		ug/Kg		102	50 - 145
Bromomethane	ND		19.8	19.6		ug/Kg		99	60 - 155
Carbon disulfide	ND		19.8	19.5		ug/Kg		99	40 - 140
Carbon tetrachloride	ND		19.8	19.9		ug/Kg		101	60 - 145
1,1-Dichloroethane	ND		19.8	20.1		ug/Kg		102	65 - 135
Chlorobenzene	ND		19.8	19.4		ug/Kg		98	70 - 130
1,2-Dichloroethane	ND		19.8	18.0		ug/Kg		91	60 - 150
Chlorobromomethane	ND		19.8	22.1		ug/Kg		112	65 - 145
1,1-Dichloroethene	ND		19.8	20.5		ug/Kg		104	65 - 135
Chloroethane	ND		19.8	19.1		ug/Kg		97	60 - 150
Chloroform	ND		19.8	19.8		ug/Kg		100	65 - 135
Chloromethane	ND		19.8	16.3		ug/Kg		82	40 - 145
1,2-Dichloropropane	ND		19.8	21.9		ug/Kg		111	65 - 130
cis-1,2-Dichloroethene	ND		19.8	20.4		ug/Kg		103	65 - 135
cis-1,3-Dichloropropene	ND		19.8	20.2		ug/Kg		102	70 - 135
Chlorodibromomethane	ND		19.8	20.4		ug/Kg		103	60 - 145
Dibromomethane	ND		19.8	21.5		ug/Kg		109	65 - 140
Dichlorobromomethane	ND		19.8	19.6		ug/Kg		99	65 - 145
2-Hexanone	ND		19.8	19.2		ug/Kg		97	35 - 160
Dichlorodifluoromethane	ND		19.8	18.6		ug/Kg		94	30 - 160
Ethylbenzene	ND		19.8	19.2		ug/Kg		97	70 - 135
4-Isopropyltoluene	ND		19.8	21.2		ug/Kg		107	60 - 140
Hexachlorobutadiene	ND		19.8	19.2		ug/Kg		97	50 - 145
Isopropylbenzene	ND		19.8	20.4		ug/Kg		103	70 - 145
Methylene Chloride	ND		19.8	16.5		ug/Kg		83	55 - 145
Methyl tert-butyl ether	ND		19.8	20.5		ug/Kg		104	55 - 155
Naphthalene	1.5	J	19.8	21.8		ug/Kg		103	40 - 150
1,1,1,2-Tetrachloroethane	ND		19.8	20.1		ug/Kg		102	65 - 145
n-Butylbenzene	ND		19.8	19.2		ug/Kg		97	55 - 145
1,1,2,2-Tetrachloroethane	ND		19.8	21.3		ug/Kg		108	40 - 160
N-Propylbenzene	ND		19.8	20.2		ug/Kg		102	65 - 140
sec-Butylbenzene	ND		19.8	21.2		ug/Kg		107	60 - 135
1,2,3-Trichlorobenzene	ND		19.8	19.5		ug/Kg		98	45 - 145
Styrene	ND		19.8	18.9		ug/Kg		96	70 - 140
1,2,4-Trichlorobenzene	ND		19.8	20.1		ug/Kg		102	50 - 140
tert-Butylbenzene	ND		19.8	20.1		ug/Kg		102	60 - 140
1,1,1-Trichloroethane	ND		19.8	19.1		ug/Kg		97	65 - 145
Tetrachloroethene	ND		19.8	19.7		ug/Kg		100	65 - 135
1,1,2-Trichloroethane	ND		19.8	20.4		ug/Kg		103	65 - 140
Toluene	ND		19.8	19.4		ug/Kg		98	70 - 130
trans-1,2-Dichloroethene	ND		19.8	20.4		ug/Kg		103	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231899-A-9 MS
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		19.8	20.3		ug/Kg		103	50 - 150
trans-1,3-Dichloropropene	ND		19.8	19.3		ug/Kg		98	60 - 145
Trichloroethene	ND		19.8	21.8		ug/Kg		110	65 - 140
1,2,4-Trimethylbenzene	ND		19.8	20.5		ug/Kg		103	65 - 140
Trichlorofluoromethane	ND		19.8	20.6		ug/Kg		104	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		19.8	21.0		ug/Kg		106	60 - 140
1,3,5-Trimethylbenzene	ND		19.8	20.1		ug/Kg		102	65 - 135
Vinyl acetate	ND		19.8	20.3		ug/Kg		103	40 - 150
Vinyl chloride	ND		19.8	17.0		ug/Kg		86	55 - 140
m-Xylene & p-Xylene	ND		19.8	19.6		ug/Kg		99	70 - 130
Ethylene Dibromide	ND		19.8	20.5		ug/Kg		104	65 - 140
o-Xylene	ND		19.8	19.8		ug/Kg		100	65 - 130
2-Butanone (MEK)	ND		19.8	23.5		ug/Kg		119	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		19.8	18.3		ug/Kg		93	40 - 155
2,2-Dichloropropane	ND		19.8	19.9		ug/Kg		100	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*93*		*79 - 123*

Lab Sample ID: 440-231899-A-9 MSD
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		19.8	20.3		ug/Kg		103	60 - 135	4	25
1,2-Dichlorobenzene	ND		19.8	21.1		ug/Kg		106	70 - 130	6	25
1,3-Dichlorobenzene	ND		19.8	21.3		ug/Kg		107	70 - 130	8	25
4-Chlorotoluene	ND		19.8	20.8		ug/Kg		105	65 - 135	7	25
1,4-Dichlorobenzene	ND		19.8	21.2		ug/Kg		107	70 - 130	8	25
1,3-Dichloropropane	ND		19.8	21.9		ug/Kg		110	65 - 140	11	25
Benzene	ND		19.8	21.3		ug/Kg		108	65 - 130	4	20
1,1-Dichloropropene	ND		19.8	21.1		ug/Kg		106	65 - 135	3	20
Bromobenzene	ND		19.8	21.5		ug/Kg		109	65 - 140	6	25
1,2-Dibromo-3-Chloropropane	ND		19.8	21.5		ug/Kg		108	40 - 150	17	30
Bromoform	ND		19.8	22.9		ug/Kg		115	50 - 145	13	30
Bromomethane	ND		19.8	20.8		ug/Kg		105	60 - 155	6	25
Carbon disulfide	ND		19.8	20.0		ug/Kg		101	40 - 140	2	20
Carbon tetrachloride	ND		19.8	20.6		ug/Kg		104	60 - 145	3	25
1,1-Dichloroethane	ND		19.8	20.6		ug/Kg		104	65 - 135	3	25
Chlorobenzene	ND		19.8	21.1		ug/Kg		106	70 - 130	8	25
1,2-Dichloroethane	ND		19.8	19.4		ug/Kg		98	60 - 150	7	25
Chlorobromomethane	ND		19.8	23.4		ug/Kg		118	65 - 145	5	25
1,1-Dichloroethene	ND		19.8	21.0		ug/Kg		106	65 - 135	2	25
Chloroethane	ND		19.8	19.7		ug/Kg		100	60 - 150	3	25
Chloroform	ND		19.8	20.4		ug/Kg		103	65 - 135	3	20
Chloromethane	ND		19.8	16.5		ug/Kg		83	40 - 145	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231899-A-9 MSD
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		19.8	21.8		ug/Kg		110	65 - 130	0	20
cis-1,2-Dichloroethene	ND		19.8	21.2		ug/Kg		107	65 - 135	4	25
cis-1,3-Dichloropropene	ND		19.8	22.0		ug/Kg		111	70 - 135	9	25
Chlorodibromomethane	ND		19.8	22.1		ug/Kg		111	60 - 145	8	25
Dibromomethane	ND		19.8	21.9		ug/Kg		110	65 - 140	2	25
Dichlorobromomethane	ND		19.8	20.9		ug/Kg		105	65 - 145	6	20
2-Hexanone	ND		19.8	21.1		ug/Kg		106	35 - 160	9	40
Dichlorodifluoromethane	ND		19.8	18.5		ug/Kg		93	30 - 160	1	35
Ethylbenzene	ND		19.8	20.4		ug/Kg		103	70 - 135	6	25
4-Isopropyltoluene	ND		19.8	22.2		ug/Kg		112	60 - 140	5	25
Hexachlorobutadiene	ND		19.8	20.1		ug/Kg		101	50 - 145	5	35
Isopropylbenzene	ND		19.8	21.7		ug/Kg		109	70 - 145	6	25
Methylene Chloride	ND		19.8	17.4		ug/Kg		88	55 - 145	5	25
Methyl tert-butyl ether	ND		19.8	21.5		ug/Kg		108	55 - 155	5	35
Naphthalene	1.5	J	19.8	24.8		ug/Kg		118	40 - 150	13	40
1,1,1,2-Tetrachloroethane	ND		19.8	21.4		ug/Kg		108	65 - 145	6	20
n-Butylbenzene	ND		19.8	20.8		ug/Kg		105	55 - 145	8	30
1,1,2,2-Tetrachloroethane	ND		19.8	23.2		ug/Kg		117	40 - 160	9	30
N-Propylbenzene	ND		19.8	21.4		ug/Kg		108	65 - 140	6	25
sec-Butylbenzene	ND		19.8	22.3		ug/Kg		112	60 - 135	5	25
1,2,3-Trichlorobenzene	ND		19.8	22.2		ug/Kg		112	45 - 145	13	30
Styrene	ND		19.8	20.2		ug/Kg		102	70 - 140	7	25
1,2,4-Trichlorobenzene	ND		19.8	21.8		ug/Kg		110	50 - 140	8	30
tert-Butylbenzene	ND		19.8	21.3		ug/Kg		107	60 - 140	6	25
1,1,1-Trichloroethane	ND		19.8	19.7		ug/Kg		100	65 - 145	3	20
Tetrachloroethene	ND		19.8	20.7		ug/Kg		104	65 - 135	5	25
1,1,2-Trichloroethane	ND		19.8	22.1		ug/Kg		111	65 - 140	8	30
Toluene	ND		19.8	20.7		ug/Kg		104	70 - 130	7	20
trans-1,2-Dichloroethene	ND		19.8	21.7		ug/Kg		109	70 - 135	6	25
1,2,3-Trichloropropane	ND		19.8	22.3		ug/Kg		112	50 - 150	10	30
trans-1,3-Dichloropropene	ND		19.8	21.3		ug/Kg		108	60 - 145	10	25
Trichloroethene	ND		19.8	22.6		ug/Kg		114	65 - 140	4	25
1,2,4-Trimethylbenzene	ND		19.8	21.5		ug/Kg		109	65 - 140	5	25
Trichlorofluoromethane	ND		19.8	21.0		ug/Kg		106	55 - 155	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		19.8	21.5		ug/Kg		109	60 - 140	3	40
1,3,5-Trimethylbenzene	ND		19.8	21.4		ug/Kg		108	65 - 135	6	25
Vinyl acetate	ND		19.8	21.0		ug/Kg		106	40 - 150	3	30
Vinyl chloride	ND		19.8	17.4		ug/Kg		88	55 - 140	2	30
m-Xylene & p-Xylene	ND		19.8	21.4		ug/Kg		108	70 - 130	9	25
Ethylene Dibromide	ND		19.8	22.4		ug/Kg		113	65 - 140	9	25
o-Xylene	ND		19.8	21.0		ug/Kg		106	65 - 130	6	25
2-Butanone (MEK)	ND		19.8	21.9		ug/Kg		110	25 - 170	7	40
4-Methyl-2-pentanone (MIBK)	ND		19.8	19.8		ug/Kg		100	40 - 155	7	40
2,2-Dichloropropane	ND		19.8	19.6		ug/Kg		99	65 - 150	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231899-A-9 MSD
Matrix: Solid
Analysis Batch: 527701

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	95		79 - 123

Lab Sample ID: MB 440-528653/4
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			02/14/19 08:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 08:25	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 08:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 08:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 08:25	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528653/4
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 08:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 08:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 08:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 08:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 08:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 08:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*02/14/19 08:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 08:25*	*1*

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10.0	ND		ug/L		57	10 - 150
2-Chlorotoluene	10.0	9.06		ug/L		91	70 - 130
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
4-Chlorotoluene	10.0	9.11		ug/L		91	70 - 130
1,4-Dichlorobenzene	10.0	9.99		ug/L		100	70 - 130
1,3-Dichloropropane	10.0	9.65		ug/L		97	70 - 130
Benzene	10.0	9.53		ug/L		95	68 - 130
1,1-Dichloropropene	10.0	9.95		ug/L		99	70 - 130
Bromobenzene	10.0	10.1		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	9.32		ug/L		93	52 - 140
Bromoform	10.0	11.5		ug/L		115	60 - 148
Bromomethane	10.0	10.9		ug/L		109	64 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	10.0	8.65		ug/L		86	52 - 136
Carbon tetrachloride	10.0	11.3		ug/L		113	60 - 150
1,1-Dichloroethane	10.0	9.55		ug/L		95	64 - 130
Chlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,2-Dichloroethane	10.0	11.5		ug/L		115	57 - 138
Chlorobromomethane	10.0	11.6		ug/L		116	70 - 130
1,1-Dichloroethene	10.0	10.8		ug/L		108	70 - 130
Chloroethane	10.0	8.76		ug/L		88	64 - 135
Chloroform	10.0	10.9		ug/L		109	70 - 130
Chloromethane	10.0	7.95		ug/L		79	47 - 140
1,2-Dichloropropane	10.0	9.45		ug/L		94	67 - 130
cis-1,2-Dichloroethene	10.0	9.92		ug/L		99	70 - 133
cis-1,3-Dichloropropene	10.0	9.52		ug/L		95	70 - 133
Chlorodibromomethane	10.0	11.1		ug/L		111	69 - 145
Dibromomethane	10.0	11.2		ug/L		112	70 - 130
Dichlorobromomethane	10.0	10.9		ug/L		109	70 - 132
2-Hexanone	10.0	8.50		ug/L		85	10 - 150
Dichlorodifluoromethane	10.0	10.6		ug/L		106	29 - 150
Ethylbenzene	10.0	9.40		ug/L		94	70 - 130
4-Isopropyltoluene	10.0	10.1		ug/L		101	70 - 132
Hexachlorobutadiene	10.0	11.5		ug/L		115	10 - 150
Isopropylbenzene	10.0	9.78		ug/L		98	70 - 136
Methylene Chloride	10.0	9.47		ug/L		95	52 - 130
Methyl tert-butyl ether	10.0	9.86		ug/L		99	63 - 131
Naphthalene	10.0	9.26		ug/L		93	60 - 140
1,1,1,2-Tetrachloroethane	10.0	10.7		ug/L		107	60 - 141
n-Butylbenzene	10.0	9.17		ug/L		92	65 - 150
1,1,2,2-Tetrachloroethane	10.0	8.81		ug/L		88	63 - 130
N-Propylbenzene	10.0	8.63		ug/L		86	67 - 139
sec-Butylbenzene	10.0	9.22		ug/L		92	70 - 138
1,2,3-Trichlorobenzene	10.0	10.5		ug/L		105	60 - 140
Styrene	10.0	9.26		ug/L		93	70 - 134
1,2,4-Trichlorobenzene	10.0	10.8		ug/L		108	60 - 140
tert-Butylbenzene	10.0	9.60		ug/L		96	70 - 130
1,1,1-Trichloroethane	10.0	11.6		ug/L		116	70 - 130
Tetrachloroethene	10.0	10.9		ug/L		109	70 - 130
1,1,2-Trichloroethane	10.0	9.53		ug/L		95	70 - 130
Toluene	10.0	9.06		ug/L		91	70 - 130
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 130
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	63 - 130
trans-1,3-Dichloropropene	10.0	9.80		ug/L		98	70 - 132
Trichloroethene	10.0	10.8		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	10.0	9.34		ug/L		93	70 - 135
Trichlorofluoromethane	10.0	13.4		ug/L		134	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.5		ug/L		115	60 - 140
1,3,5-Trimethylbenzene	10.0	9.34		ug/L		93	70 - 136
Vinyl acetate	10.0	8.49		ug/L		85	48 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	10.0	8.94		ug/L		89	59 - 133
m-Xylene & p-Xylene	10.0	9.79		ug/L		98	70 - 130
Ethylene Dibromide	10.0	10.8		ug/L		108	70 - 130
o-Xylene	10.0	9.99		ug/L		100	70 - 130
2-Butanone (MEK)	10.0	8.12		ug/L		81	44 - 150
4-Methyl-2-pentanone (MIBK)	10.0	7.70		ug/L		77	59 - 149
2,2-Dichloropropane	10.0	10.8		ug/L		108	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150
2-Chlorotoluene	ND		10.0	8.79		ug/L		88	70 - 130
1,2-Dichlorobenzene	ND		10.0	9.81		ug/L		98	70 - 130
1,3-Dichlorobenzene	ND		10.0	9.99		ug/L		100	70 - 130
4-Chlorotoluene	ND		10.0	9.15		ug/L		92	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.93		ug/L		99	70 - 130
1,3-Dichloropropane	ND		10.0	8.98		ug/L		90	70 - 130
Benzene	ND		10.0	9.11		ug/L		91	66 - 130
1,1-Dichloropropene	ND		10.0	9.69		ug/L		97	64 - 130
Bromobenzene	ND		10.0	9.66		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.72		ug/L		87	48 - 140
Bromoform	ND		10.0	10.9		ug/L		109	59 - 150
Bromomethane	ND		10.0	10.9		ug/L		109	62 - 131
Carbon disulfide	ND		10.0	8.35		ug/L		84	49 - 140
Carbon tetrachloride	ND		10.0	11.3		ug/L		113	60 - 150
1,1-Dichloroethane	ND		10.0	9.02		ug/L		90	65 - 130
Chlorobenzene	ND		10.0	9.91		ug/L		99	70 - 130
1,2-Dichloroethane	ND		10.0	11.1		ug/L		111	56 - 146
Chlorobromomethane	ND		10.0	10.4		ug/L		104	70 - 130
1,1-Dichloroethene	ND		10.0	10.1		ug/L		101	70 - 130
Chloroethane	ND		10.0	8.67		ug/L		87	68 - 130
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130
Chloromethane	ND		10.0	7.50		ug/L		75	39 - 144
1,2-Dichloropropane	ND		10.0	9.22		ug/L		92	69 - 130
cis-1,2-Dichloroethene	ND		10.0	9.49		ug/L		95	70 - 130
cis-1,3-Dichloropropene	ND		10.0	8.98		ug/L		90	70 - 133
Chlorodibromomethane	ND		10.0	10.9		ug/L		109	70 - 148
Dibromomethane	ND		10.0	10.5		ug/L		105	70 - 130
Dichlorobromomethane	ND		10.0	10.5		ug/L		105	70 - 138
2-Hexanone	ND		10.0	8.35		ug/L		83	10 - 150
Dichlorodifluoromethane	ND		10.0	10.8		ug/L		108	25 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		10.0	9.02		ug/L		90	70 - 130
4-Isopropyltoluene	ND		10.0	9.93		ug/L		99	70 - 130
Hexachlorobutadiene	ND		10.0	11.4		ug/L		114	10 - 150
Isopropylbenzene	ND		10.0	9.42		ug/L		94	70 - 132
Methylene Chloride	ND		10.0	9.06		ug/L		91	52 - 130
Methyl tert-butyl ether	4.6		10.0	13.9		ug/L		93	70 - 130
Naphthalene	ND		10.0	8.74		ug/L		87	60 - 140
1,1,1,2-Tetrachloroethane	ND		10.0	10.3		ug/L		103	60 - 149
n-Butylbenzene	ND		10.0	8.79		ug/L		88	61 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	8.34		ug/L		83	63 - 130
N-Propylbenzene	ND		10.0	8.26		ug/L		83	66 - 135
sec-Butylbenzene	ND		10.0	8.91		ug/L		89	67 - 134
1,2,3-Trichlorobenzene	ND		10.0	10.1		ug/L		101	60 - 140
Styrene	ND		10.0	8.96		ug/L		90	29 - 150
1,2,4-Trichlorobenzene	ND		10.0	10.5		ug/L		105	60 - 140
tert-Butylbenzene	ND		10.0	9.83		ug/L		98	70 - 130
1,1,1-Trichloroethane	ND		10.0	10.8		ug/L		108	70 - 130
Tetrachloroethene	ND		10.0	10.5		ug/L		105	70 - 137
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130
Toluene	ND		10.0	8.65		ug/L		87	70 - 130
trans-1,2-Dichloroethene	ND		10.0	9.49		ug/L		95	70 - 130
1,2,3-Trichloropropane	ND		10.0	10.7		ug/L		107	60 - 130
trans-1,3-Dichloropropene	ND		10.0	9.29		ug/L		93	70 - 138
Trichloroethene	ND		10.0	10.8		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	ND		10.0	9.13		ug/L		91	70 - 130
Trichlorofluoromethane	ND		10.0	12.5		ug/L		125	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.8		ug/L		108	60 - 140
1,3,5-Trimethylbenzene	ND		10.0	9.13		ug/L		91	70 - 130
Vinyl acetate	ND		10.0	7.86		ug/L		79	23 - 150
Vinyl chloride	ND		10.0	9.89		ug/L		99	50 - 137
m-Xylene & p-Xylene	ND		10.0	9.53		ug/L		95	70 - 133
Ethylene Dibromide	ND		10.0	9.58		ug/L		96	70 - 131
o-Xylene	ND		10.0	9.44		ug/L		94	70 - 133
2-Butanone (MEK)	ND		10.0	8.50		ug/L		85	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.48		ug/L		85	52 - 150
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150	NC	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		10.0	8.72		ug/L		87	70 - 130	1	20
1,2-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	3	20
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	1	20
4-Chlorotoluene	ND		10.0	9.25		ug/L		92	70 - 130	1	20
1,4-Dichlorobenzene	ND		10.0	9.84		ug/L		98	70 - 130	1	20
1,3-Dichloropropane	ND		10.0	9.08		ug/L		91	70 - 130	1	25
Benzene	ND		10.0	9.11		ug/L		91	66 - 130	0	20
1,1-Dichloropropene	ND		10.0	9.84		ug/L		98	64 - 130	1	20
Bromobenzene	ND		10.0	9.86		ug/L		99	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		10.0	9.89		ug/L		99	48 - 140	13	30
Bromoform	ND		10.0	10.4		ug/L		104	59 - 150	5	25
Bromomethane	ND		10.0	11.5		ug/L		115	62 - 131	5	25
Carbon disulfide	ND		10.0	8.13		ug/L		81	49 - 140	3	20
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	60 - 150	1	25
1,1-Dichloroethane	ND		10.0	9.19		ug/L		92	65 - 130	2	20
Chlorobenzene	ND		10.0	9.88		ug/L		99	70 - 130	0	20
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	56 - 146	1	20
Chlorobromomethane	ND		10.0	10.7		ug/L		107	70 - 130	3	25
1,1-Dichloroethene	ND		10.0	10.0		ug/L		100	70 - 130	1	20
Chloroethane	ND		10.0	8.47		ug/L		85	68 - 130	2	25
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130	1	20
Chloromethane	ND		10.0	7.45		ug/L		75	39 - 144	1	25
1,2-Dichloropropane	ND		10.0	8.75		ug/L		87	69 - 130	5	20
cis-1,2-Dichloroethene	ND		10.0	9.82		ug/L		98	70 - 130	3	20
cis-1,3-Dichloropropene	ND		10.0	9.26		ug/L		93	70 - 133	3	20
Chlorodibromomethane	ND		10.0	10.8		ug/L		108	70 - 148	1	25
Dibromomethane	ND		10.0	10.7		ug/L		107	70 - 130	2	25
Dichlorobromomethane	ND		10.0	10.3		ug/L		103	70 - 138	2	20
2-Hexanone	ND		10.0	7.83		ug/L		78	10 - 150	6	35
Dichlorodifluoromethane	ND		10.0	10.9		ug/L		109	25 - 142	1	30
Ethylbenzene	ND		10.0	8.94		ug/L		89	70 - 130	1	20
4-Isopropyltoluene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
Hexachlorobutadiene	ND		10.0	11.8		ug/L		118	10 - 150	3	20
Isopropylbenzene	ND		10.0	9.36		ug/L		94	70 - 132	1	20
Methylene Chloride	ND		10.0	8.99		ug/L		90	52 - 130	1	20
Methyl tert-butyl ether	4.6		10.0	13.7		ug/L		91	70 - 130	2	25
Naphthalene	ND		10.0	9.19		ug/L		92	60 - 140	5	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.6		ug/L		106	60 - 149	3	20
n-Butylbenzene	ND		10.0	8.93		ug/L		89	61 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		10.0	8.43		ug/L		84	63 - 130	1	30
N-Propylbenzene	ND		10.0	7.99		ug/L		80	66 - 135	3	20
sec-Butylbenzene	ND		10.0	8.85		ug/L		89	67 - 134	1	20
1,2,3-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140	2	20
Styrene	ND		10.0	8.89		ug/L		89	29 - 150	1	35
1,2,4-Trichlorobenzene	ND		10.0	11.0		ug/L		110	60 - 140	4	20
tert-Butylbenzene	ND		10.0	9.84		ug/L		98	70 - 130	0	20
1,1,1-Trichloroethane	ND		10.0	11.2		ug/L		112	70 - 130	3	20
Tetrachloroethene	ND		10.0	10.8		ug/L		108	70 - 137	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	1	25
Toluene	ND		10.0	8.67		ug/L		87	70 - 130	0	20
trans-1,2-Dichloroethene	ND		10.0	9.68		ug/L		97	70 - 130	2	20
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	60 - 130	2	30
trans-1,3-Dichloropropene	ND		10.0	9.08		ug/L		91	70 - 138	2	25
Trichloroethene	ND		10.0	10.5		ug/L		105	70 - 130	3	20
1,2,4-Trimethylbenzene	ND		10.0	9.11		ug/L		91	70 - 130	0	25
Trichlorofluoromethane	ND		10.0	13.5		ug/L		135	60 - 150	8	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.7		ug/L		107	60 - 140	1	20
1,3,5-Trimethylbenzene	ND		10.0	9.25		ug/L		93	70 - 130	1	20
Vinyl acetate	ND		10.0	7.87		ug/L		79	23 - 150	0	30
Vinyl chloride	ND		10.0	10.3		ug/L		103	50 - 137	4	30
m-Xylene & p-Xylene	ND		10.0	9.33		ug/L		93	70 - 133	2	25
Ethylene Dibromide	ND		10.0	10.1		ug/L		101	70 - 131	6	25
o-Xylene	ND		10.0	9.72		ug/L		97	70 - 133	3	20
2-Butanone (MEK)	ND		10.0	7.11		ug/L		71	48 - 140	18	40
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.32		ug/L		83	52 - 150	2	35
2,2-Dichloropropane	ND		10.0	10.3		ug/L		103	69 - 138	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-527462/4
Matrix: Solid
Analysis Batch: 527462

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/07/19 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*02/07/19 19:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*		*02/07/19 19:41*	*1*
Toluene-d8 (Surr)	*95*		*79 - 123*		*02/07/19 19:41*	*1*

Lab Sample ID: LCS 440-527462/7
Matrix: Solid
Analysis Batch: 527462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	749		ug/Kg		75	60 - 135

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-527462/7
Matrix: Solid
Analysis Batch: 527462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-527462/8
Matrix: Solid
Analysis Batch: 527462

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12			1000	729		ug/Kg		73	60 - 135	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*60 - 120*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: MB 440-527702/4
Matrix: Solid
Analysis Batch: 527702

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/08/19 19:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*02/08/19 19:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*		*02/08/19 19:26*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*		*02/08/19 19:26*	*1*

Lab Sample ID: LCS 440-527702/6
Matrix: Solid
Analysis Batch: 527702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			1000	788		ug/Kg		79	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*60 - 120*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*
Toluene-d8 (Surr)	*96*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-231899-A-9 MS
Matrix: Solid
Analysis Batch: 527702

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1360	1440		ug/Kg		105	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*60 - 120*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*
Toluene-d8 (Surr)	*93*		*79 - 123*

Lab Sample ID: 440-231899-A-9 MSD
Matrix: Solid
Analysis Batch: 527702

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1370	1500		ug/Kg		110	55 - 140	5	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*60 - 120*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*
Toluene-d8 (Surr)	*95*		*79 - 123*

Lab Sample ID: MB 440-528654/4
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/14/19 08:25*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/14/19 08:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 08:25*	*1*

Lab Sample ID: LCS 440-528654/6
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12			500	436		ug/L		87	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	260		690	941		ug/L		98	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	260		690	929		ug/L		97	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

GC/MS VOA

Analysis Batch: 527461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91159-1	DG-AT5S-0.5-1	Total/NA	Solid	8260B	527485
720-91159-2	DG-AT5S-3.5-4	Total/NA	Solid	8260B	527485
720-91159-3	DG-AG3S-3.5-4	Total/NA	Solid	8260B	527485
720-91159-5	DG-S7S-3.5-4	Total/NA	Solid	8260B	527485
720-91159-6	DG-S9S-4.5-5	Total/NA	Solid	8260B	527485
720-91159-7	DG-S9S-7-7.5	Total/NA	Solid	8260B	527485
720-91159-8	DG-O4S-7.5-8	Total/NA	Solid	8260B	527485
MB 440-527461/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-527461/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-527461/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 527462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91159-1	DG-AT5S-0.5-1	Total/NA	Solid	8260B/CA_LUFT MS	527485
720-91159-2	DG-AT5S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527485
720-91159-3	DG-AG3S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527485
720-91159-5	DG-S7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527485
720-91159-6	DG-S9S-4.5-5	Total/NA	Solid	8260B/CA_LUFT MS	527485
720-91159-7	DG-S9S-7-7.5	Total/NA	Solid	8260B/CA_LUFT MS	527485
720-91159-8	DG-O4S-7.5-8	Total/NA	Solid	8260B/CA_LUFT MS	527485
MB 440-527462/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-527462/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-527462/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 527485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91159-1	DG-AT5S-0.5-1	Total/NA	Solid	5035	
720-91159-2	DG-AT5S-3.5-4	Total/NA	Solid	5035	
720-91159-3	DG-AG3S-3.5-4	Total/NA	Solid	5035	
720-91159-5	DG-S7S-3.5-4	Total/NA	Solid	5035	
720-91159-6	DG-S9S-4.5-5	Total/NA	Solid	5035	
720-91159-7	DG-S9S-7-7.5	Total/NA	Solid	5035	
720-91159-8	DG-O4S-7.5-8	Total/NA	Solid	5035	

Analysis Batch: 527701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91159-4	DG-U7S-3.5-4	Total/NA	Solid	8260B	527723
MB 440-527701/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-527701/5	Lab Control Sample	Total/NA	Solid	8260B	
440-231899-A-9 MS	Matrix Spike	Total/NA	Solid	8260B	
440-231899-A-9 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

GC/MS VOA (Continued)

Analysis Batch: 527702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91159-4	DG-U7S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	527723
MB 440-527702/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-527702/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-231899-A-9 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-231899-A-9 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 527723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91159-4	DG-U7S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 528653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91159-14	FB-02.04.19	Total/NA	Water	8260B	
720-91159-15	TB-02.04.19	Total/NA	Water	8260B	
MB 440-528653/4	Method Blank	Total/NA	Water	8260B	
LCS 440-528653/5	Lab Control Sample	Total/NA	Water	8260B	
440-232894-C-12 MS	Matrix Spike	Total/NA	Water	8260B	
440-232894-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91159-14	FB-02.04.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91159-15	TB-02.04.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528654/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528654/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-232894-C-12 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-232894-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Client Sample ID: DG-AT5S-0.5-1

Lab Sample ID: 720-91159-1
Date Collected: 02/04/19 08:30
Matrix: Solid
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B		1	527461	02/07/19 22:10	GK	TAL IRV
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527462	02/07/19 22:10	GK	TAL IRV

Client Sample ID: DG-AT5S-3.5-4

Lab Sample ID: 720-91159-2
Date Collected: 02/04/19 08:30
Matrix: Solid
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B		1	527461	02/07/19 22:35	GK	TAL IRV
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527462	02/07/19 22:35	GK	TAL IRV

Client Sample ID: DG-AG3S-3.5-4

Lab Sample ID: 720-91159-3
Date Collected: 02/04/19 09:00
Matrix: Solid
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B		1	527461	02/07/19 22:59	GK	TAL IRV
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527462	02/07/19 22:59	GK	TAL IRV

Client Sample ID: DG-U7S-3.5-4

Lab Sample ID: 720-91159-4
Date Collected: 02/04/19 09:50
Matrix: Solid
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527723	02/08/19 21:14	GMA	TAL IRV
Total/NA	Analysis	8260B		1	527701	02/09/19 02:26	AYL	TAL IRV
Total/NA	Prep	5035			527723	02/08/19 21:14	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527702	02/09/19 02:26	AYL	TAL IRV

Client Sample ID: DG-S7S-3.5-4

Lab Sample ID: 720-91159-5
Date Collected: 02/04/19 10:00
Matrix: Solid
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B		1	527461	02/07/19 23:49	GK	TAL IRV
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Client Sample ID: DG-S7S-3.5-4

Lab Sample ID: 720-91159-5

Date Collected: 02/04/19 10:00
Matrix: Solid
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	527462	02/07/19 23:49	GK	TAL IRV

Client Sample ID: DG-S9S-4.5-5

Lab Sample ID: 720-91159-6

Date Collected: 02/04/19 10:20
Matrix: Solid
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B		1	527461	02/08/19 00:13	GK	TAL IRV
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527462	02/08/19 00:13	GK	TAL IRV

Client Sample ID: DG-S9S-7-7.5

Lab Sample ID: 720-91159-7

Date Collected: 02/04/19 11:00
Matrix: Solid
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B		1	527461	02/08/19 00:38	GK	TAL IRV
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527462	02/08/19 00:38	GK	TAL IRV

Client Sample ID: DG-O4S-7.5-8

Lab Sample ID: 720-91159-8

Date Collected: 02/04/19 11:10
Matrix: Solid
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B		1	527461	02/08/19 01:03	GK	TAL IRV
Total/NA	Prep	5035			527485	02/07/19 20:15	GMA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	527462	02/08/19 01:03	GK	TAL IRV

Client Sample ID: FB-02.04.19

Lab Sample ID: 720-91159-14

Date Collected: 02/04/19 00:00
Matrix: Water
Date Received: 02/04/19 18:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528653	02/14/19 16:03	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528654	02/14/19 16:03	WC	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Client Sample ID: TB-02.04.19

Date Collected: 02/04/19 00:00
Date Received: 02/04/19 18:10

Lab Sample ID: 720-91159-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528653	02/14/19 16:29	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528654	02/14/19 16:29	WC	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91159-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91159-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91159-1	DG-AT5S-0.5-1	Solid	02/04/19 08:30	02/04/19 18:10
720-91159-2	DG-AT5S-3.5-4	Solid	02/04/19 08:30	02/04/19 18:10
720-91159-3	DG-AG3S-3.5-4	Solid	02/04/19 09:00	02/04/19 18:10
720-91159-4	DG-U7S-3.5-4	Solid	02/04/19 09:50	02/04/19 18:10
720-91159-5	DG-S7S-3.5-4	Solid	02/04/19 10:00	02/04/19 18:10
720-91159-6	DG-S9S-4.5-5	Solid	02/04/19 10:20	02/04/19 18:10
720-91159-7	DG-S9S-7-7.5	Solid	02/04/19 11:00	02/04/19 18:10
720-91159-8	DG-O4S-7.5-8	Solid	02/04/19 11:10	02/04/19 18:10
720-91159-14	FB-02.04.19	Water	02/04/19 00:00	02/04/19 18:10
720-91159-15	TB-02.04.19	Water	02/04/19 00:00	02/04/19 18:10

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-91159

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#655260

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 4 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaal/mann
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91159-01 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
			G	S	7	N		X	X	X	X	X	X	X	(NAF)
1 DG-AT5S-0.5-1	4 Feb. 2019	0830	G	S	4	N		X							
2 DG-AT5S-3.5-4	↓	0830	↓	↓	↓	↓		↓							
3 DG-AG3S-3.5-4		0900													
4 DG-U7S-3.5-4		0950													
5 DG-S7S-3.5-4		1000													
6 DG-S9S-4.5-5		1020													
7 DG-S9S-7-7.5		1020													
8 DG-04S-~~9.5-10~~ (NAF) -7.5-8		1100													
9 DG-R2S-3.5-4		1110													
10 DG-T2S-0.5-1		1145													
11 DUP-6	↓	—	↓	↓	↓	↓		↓							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.1°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company Geosyntec	Date/Time 1600 4 Feb. 2019	Received by	Company	Date/Time 2-4-19 1600
Relinquished by	Company	Date/Time 1810 2-4-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 2/4/19 1810

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-91159

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

FA58240

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 4 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Kahnlas
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
			G	S	7	N		X	X	X	X	X	X	X	(NAF)
12 DG-U2-3.5-4	4 Feb 2019	1130	G	S	4	N		X							
13 DG-V2-3.5-4	↓	1140	↓	↓	↓	↓		↓							
~~DG-R15-3.5-4~~ (NAF)															
14 FB-02.04.19	4 Feb. 2019	—			2			X							
15 TB-02.04.19	4 Feb 2019	—			2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.1°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd. _____ Corr'd. _____ Therm ID No. _____		
Relinquished by	Company Geosyntec	Date/Time 4 Feb. 2019	Received by	Company TA PLS	Date/Time 2-4-19 16:10
Relinquished by	Company TA PLS	Date/Time 2-4-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 2/4/19 1810

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

GEOSYNTEC 720-91159
MON. TERRA CORES

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
478645743561

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Feb 04, 2019 4:31:13 PM

720-91159-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478624574356	COC No: 720-41052.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91159-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/14/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastepoil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AT5S-0.5-1 (720-91159-1)	2/4/19	08:30 Pacific		Solid	X	X			
DG-AT5S-3.5-4 (720-91159-2)	2/4/19	08:30 Pacific		Solid	X	X			
DG-AG3S-3.5-4 (720-91159-3)	2/4/19	09:00 Pacific		Solid	X	X			
DG-U7S-3.5-4 (720-91159-4)	2/4/19	09:50 Pacific		Solid	X	X			
DG-S7S-3.5-4 (720-91159-5)	2/4/19	10:00 Pacific		Solid	X	X			
DG-S9S-4.5-5 (720-91159-6)	2/4/19	10:20 Pacific		Solid	X	X			
DG-S9S-7-7.5 (720-91159-7)	2/4/19	11:00 Pacific		Solid	X	X			
DG-O4S-7.5-8 (720-91159-8)	2/4/19	11:10 Pacific		Solid	X	X			
DG-R2S-3.5-4 (720-91159-9)	2/4/19	11:45 Pacific		Solid	X	X			

720-91159 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O by R. Rich

Relinquished by:	Date/Time: 2/4/19 16:31	Company TA-PLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/5/19 1000	Company TA 112V

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	1258 2.1/2.1

Encores or Terracores Frozen
Date: 02/05/19 Time: 1500 Initials: OO

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-41052.2
Client Contact: Shipping/Receiving	Phone:	E-Mail urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91159-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/14/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	8260B_LUFTMS(SW5035A_F_FW_T 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS(SW5035A_F_FW_T 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LUFTMS(SW5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS(SW5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-T2S-0.5-1 (720-91159-10)	2/4/19	Pacific		Solid		X	X			
DUP-6 (720-91159-11)	2/4/19	11:30 Pacific		Solid		X	X			
DG-U2S-3.5-4 (720-91159-12)	2/4/19	11:40 Pacific		Solid		X	X			
DG-V2S-3.5-4 (720-91159-13)	2/4/19	Pacific		Solid		X	X			
FB-02.04.19 (720-91159-14)	2/4/19	Pacific		Water				X	X	check for 2 phases
TB-02.04.19 (720-91159-15)	2/4/19	Pacific		Water				X	X	check for 2 phases

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O
Relinquished by:	Date/Time: 2/4/19 16:31	Company TA-PLS	Received by:
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by: Date/Time: 2/5/19 1000 Company TA LIV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91159

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#188260

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 4 February 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schmidtmann
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahnke@geosyntec.com, tsmith@geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
			G	S	7	N		X	X	X	X	X	X	X	(NAF)
1 DG-AT5s-0.5-1	4 Feb. 2019	0830	G	S	4	N		X							
2 DG-AT5s-3.5-4		0830													
3 DG-AG3s-3.5-4		0900													
4 DG-47s-3.5-4		0950													
5 DG-57s-3.5-4		1000													
6 DG-59s-4.5-5		1020													
7 DG-59s-7-7.5		1020													
8 DG-04s ~~4.5-10~~ (NAF) -7.5-8		1100													
9 DG-R2s-3.5-4		1110													
10 DG-T2s-0.5-1		1145													
11 Dup-6	↓	—	↓	↓	↓	↓		↓							

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.1°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by:	Company: Geosyntec	Date/Time: 16:10 4 Feb 2019	Received by:	Company: TA PLS	Date/Time: 2-4-19 16:10
Relinquished by:	Company: TA PLS	Date/Time: 18:10 2-4-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 2/4/19 1810

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91159

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

#168210

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 4 February 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Strachan
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No..
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
			G	S	7	N		X	X	X	X	X	X	X	(NAF)
12 DG-U2-3.5-4	4 Feb 2019	1130	G	S	4	✓		X							
13 DG-V2-3.5-4	↓	1140	↓	↓	↓	↓		↓							
~~DG-R15-3.5-4~~ (NAF)															
14 FB-02.04.19	4 Feb. 2019	—			2			X							
15 TB-02.04.19	4 Feb 2019	—			2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.1°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Geosyntec	Date/Time: 4 Feb. 2019	Received by:	Company: TA PLS	Date/Time: 2-4-19 16:15
Relinquished by:	Company: TA PLS	Date/Time: 1831 2-4-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 2/4/19 1810

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91159-1

Login Number: 91159
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91159-1

Login Number: 91159
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 02/05/19 02:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91159-1

Login Number: 91159
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 02/05/19 02:56 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Patel, Urvashi

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Tuesday, February 05, 2019 12:31 PM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Anthony Smith; Patel, Urvashi
Subject: RE: PLEASE READ- TestAmerica sample confirmation files from 720-91159-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Hi Christian,

Please cancel samples 9, 10, 11, 12 and 13.

Thank you,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

Geosyntec consultants
engineers | scientists | innovators

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From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Tuesday, February 5, 2019 10:31 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: PLEASE READ- TestAmerica sample confirmation files from 720-91159-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-91159-1; Brisbane OU-2 Data Gap Investigation

Samples 12 and 13 were missing the letter "S" in the sample ID that is indicative of the matrix. This was added per container labels.

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [500046]
Attachments: 3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91190-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/25/2019 3:56:32 PM
Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Job ID: 720-91190-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91190-1

Comments
No additional comments.

Receipt
The samples were received on 2/5/2019 6:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.8º C and 1.1º C.

Receipt exceptions
Per client instructions via email, samples TB-02.05.19 and FB-02.05.19 were canceled. Samples IDW-SOIL and IDW-OIL-AREA SOIL were added to this job and removed from job 720-91191-1.

GC/MS VOA
Methods 8260B and 8260B/CA_LUFTMS: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: IDW-PURGE WATER (720-91190-2). Elevated reporting limits (RLs) are provided.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528653 recovered above the upper control limit for 1,1-Dichloroethene and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-528653 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: IDW-PURGE WATER (720-91190-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation may not provide useful information. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following sample required a dilution due to the nature of the sample matrix: IDW-SOIL (720-91190-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation may not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes: IDW-SOIL (720-91190-5) and IDW-OIL AREA SOIL (720-91190-6). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259912 and analytical batch 720-260142 contained Silver and Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259912 and analytical batch 720-260142 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 6010B: The post digestion spike % recovery for Arsenic-132%, Barium-148%, Beryllium- 144%, Cobalt-132%, Chromium- 138%,

Job ID: 720-91190-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Copper- 146%, Molybdenum- 136%, Nickel- 128%, Lead- 127%, Selenium- 129%, Thallium- 127%, Vanadium- 135%, and Zinc-132% associated with batch 720-260142 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260142 was outside control limits for Barium-21%, Cobalt-21%, Chromium-22%, Nickel-21%, Vanadium-22%: (720-91198-A-1-C SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume for method 8015B: IDW-PURGE WATER (720-91190-2). The reporting limits (RLs) are elevated proportionately.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-527912 for method 8015B. LCS was performed in duplicate to provide precision of data.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch for method 8270CSIM 440-527822. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Client Sample ID: IDW-DECONTAMINATION WATER — Lab Sample ID: 720-91190-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.2		0.50	0.25	ug/L	1		8260B	Total/NA
Toluene	0.37	J	0.50	0.25	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	210	J	510	100	ug/L	1		8015B	Total/NA
Antimony	4.3	J	10	4.1	ug/L	1		6010B	Dissolved
Barium	35	J	50	1.6	ug/L	1		6010B	Dissolved
Lead	4.9	J	5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	45		10	2.9	ug/L	1		6010B	Dissolved
Nickel	6.2	J	10	1.0	ug/L	1		6010B	Dissolved
Zinc	19	J	20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: IDW-PURGE WATER — Lab Sample ID: 720-91190-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	3.1	J	5.0	2.0	ug/L	5		8260B	Total/NA
Phenanthrene	14	J	20	10	ug/L	100		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	9700		1000	200	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	5500		1000	200	ug/L	1		8015B	Total/NA
Barium	140		50	1.6	ug/L	1		6010B	Dissolved
Cadmium	0.86	J	2.0	0.21	ug/L	1		6010B	Dissolved
Chromium	1.8	J	10	0.70	ug/L	1		6010B	Dissolved
Cobalt	8.9		2.0	0.68	ug/L	1		6010B	Dissolved
Copper	25		20	3.7	ug/L	1		6010B	Dissolved
Lead	470		5.0	2.2	ug/L	1		6010B	Dissolved
Molybdenum	22		10	2.9	ug/L	1		6010B	Dissolved
Nickel	15		10	1.0	ug/L	1		6010B	Dissolved
Vanadium	1.4	J	10	0.87	ug/L	1		6010B	Dissolved
Zinc	560		20	7.4	ug/L	1		6010B	Dissolved

Client Sample ID: IDW-SOIL — Lab Sample ID: 720-91190-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.5		0.99	0.49	ug/Kg	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	330		19	7.3	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1500		490	97	mg/Kg	10		8015B	Total/NA
Antimony	1.1	J	1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	14		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	470		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.90		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.35	J	0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	48	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	300		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	670		1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.64	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	40		1.7	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.43	J B	0.86	0.17	mg/Kg	4		6010B	Total/NA
Vanadium	73		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	260		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.35		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Client Sample ID: IDW-OIL AREA SOIL

Lab Sample ID: 720-91190-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C4-C12	1000		99	69	ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	610		4.0	1.5	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120		99	20	mg/Kg	2		8015B	Total/NA
Antimony	16		2.0	0.33	mg/Kg	4		6010B	Total/NA
Arsenic	49		3.9	0.33	mg/Kg	4		6010B	Total/NA
Barium	550		2.0	0.28	mg/Kg	4		6010B	Total/NA
Beryllium	0.27	J	0.39	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	4.3		0.49	0.049	mg/Kg	4		6010B	Total/NA
Chromium	59	B	2.0	0.21	mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.78	0.078	mg/Kg	4		6010B	Total/NA
Copper	740		5.9	2.8	mg/Kg	4		6010B	Total/NA
Lead	1900		2.0	0.41	mg/Kg	4		6010B	Total/NA
Molybdenum	1.7	J	2.0	0.25	mg/Kg	4		6010B	Total/NA
Nickel	58		2.0	0.20	mg/Kg	4		6010B	Total/NA
Silver	5.9	B	0.98	0.20	mg/Kg	4		6010B	Total/NA
Vanadium	31		2.0	0.27	mg/Kg	4		6010B	Total/NA
Zinc	2200		5.9	2.5	mg/Kg	4		6010B	Total/NA
Mercury	0.42		0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Client Sample ID: IDW-DECONTAMINATION WATER
Date Collected: 02/05/19 13:50
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91190-1
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/14/19 16:54*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/14/19 16:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/14/19 16:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Acetone	ND		20	10	ug/L			02/14/19 16:54	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 16:54	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 16:54	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 16:54	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 16:54	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 16:54	1
Chloroform	**1.2**		0.50	0.25	ug/L			02/14/19 16:54	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 16:54	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 16:54	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 16:54	1

Client Sample ID: IDW-DECONTAMINATION WATER

Lab Sample ID: 720-91190-1

Date Collected: 02/05/19 13:50
Matrix: Water
Date Received: 02/05/19 18:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 16:54	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 16:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 16:54	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 16:54	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Toluene	**0.37**	**J**	0.50	0.25	ug/L			02/14/19 16:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 16:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 16:54	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 16:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 16:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 16:54	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 16:54	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 16:54	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*02/14/19 16:54*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*02/14/19 16:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Acenaphthene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Acenaphthylene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Fluorene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Phenanthrene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Anthracene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Benzo[a]anthracene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Chrysene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Benzo[a]pyrene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Benzo[k]fluoranthene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Benzo[g,h,i]perylene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Fluoranthene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Pyrene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1
Dibenz(a,h)anthracene	ND		0.21	0.11	ug/L		02/10/19 14:21	02/12/19 12:24	1

Client Sample ID: IDW-DECONTAMINATION WATER

Lab Sample ID: 720-91190-1

Date Collected: 02/05/19 13:50
Matrix: Water
Date Received: 02/05/19 18:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*38 - 120*	*02/10/19 14:21*	*02/12/19 12:24*	*1*
Nitrobenzene-d5	*63*		*10 - 120*	*02/10/19 14:21*	*02/12/19 12:24*	*1*
Terphenyl-d14	*65*		*21 - 120*	*02/10/19 14:21*	*02/12/19 12:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**210**	**J**	510	100	ug/L		02/11/19 10:33	02/11/19 18:44	1
Motor Oil Range Organics [C24-C36]	ND		510	100	ug/L		02/11/19 10:33	02/11/19 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*46*		*45 - 120*	*02/11/19 10:33*	*02/11/19 18:44*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.3**	**J**	10	4.1	ug/L		02/08/19 14:40	02/11/19 15:52	1
Arsenic	ND		10	2.9	ug/L		02/08/19 14:40	02/11/19 15:52	1
Barium	**35**	**J**	50	1.6	ug/L		02/08/19 14:40	02/11/19 15:52	1
Beryllium	ND		2.0	0.59	ug/L		02/08/19 14:40	02/11/19 15:52	1
Cadmium	ND		2.0	0.21	ug/L		02/08/19 14:40	02/11/19 15:52	1
Chromium	ND		10	0.70	ug/L		02/08/19 14:40	02/11/19 15:52	1
Cobalt	ND		2.0	0.68	ug/L		02/08/19 14:40	02/11/19 15:52	1
Copper	ND		20	3.7	ug/L		02/08/19 14:40	02/11/19 15:52	1
Lead	**4.9**	**J**	5.0	2.2	ug/L		02/08/19 14:40	02/11/19 15:52	1
Molybdenum	**45**		10	2.9	ug/L		02/08/19 14:40	02/11/19 15:52	1
Nickel	**6.2**	**J**	10	1.0	ug/L		02/08/19 14:40	02/11/19 15:52	1
Selenium	ND		20	4.6	ug/L		02/08/19 14:40	02/11/19 15:52	1
Silver	ND		5.0	2.0	ug/L		02/08/19 14:40	02/11/19 15:52	1
Thallium	ND		10	3.5	ug/L		02/08/19 14:40	02/11/19 15:52	1
Vanadium	ND		10	0.87	ug/L		02/08/19 14:40	02/11/19 15:52	1
Zinc	**19**	**J**	20	7.4	ug/L		02/08/19 14:40	02/11/19 15:52	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/08/19 18:20	02/09/19 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			02/05/19 19:13	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Client Sample ID: IDW-PURGE WATER
Date Collected: 02/05/19 14:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91190-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		250	180	ug/L			02/14/19 17:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*02/14/19 17:20*	*5*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*02/14/19 17:20*	*5*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/14/19 17:20*	*5*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Acetone	ND		100	50	ug/L			02/14/19 17:20	5
Benzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Dichlorobromomethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Bromobenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Chlorobromomethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Bromoform	ND		5.0	2.0	ug/L			02/14/19 17:20	5
Bromomethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
2-Butanone (MEK)	ND		25	13	ug/L			02/14/19 17:20	5
n-Butylbenzene	ND		5.0	2.0	ug/L			02/14/19 17:20	5
sec-Butylbenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
tert-Butylbenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Carbon disulfide	ND		5.0	2.5	ug/L			02/14/19 17:20	5
Carbon tetrachloride	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Chlorobenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Chloroethane	ND		5.0	2.0	ug/L			02/14/19 17:20	5
Chloroform	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Chloromethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
2-Chlorotoluene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
4-Chlorotoluene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Chlorodibromomethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,2-Dichlorobenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,3-Dichlorobenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,4-Dichlorobenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,3-Dichloropropane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,1-Dichloropropene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/L			02/14/19 17:20	5
Ethylene Dibromide	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Dibromomethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Dichlorodifluoromethane	ND		5.0	2.0	ug/L			02/14/19 17:20	5
1,1-Dichloroethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,2-Dichloroethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,1-Dichloroethene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
cis-1,2-Dichloroethene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
trans-1,2-Dichloroethene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,2-Dichloropropane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
cis-1,3-Dichloropropene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
trans-1,3-Dichloropropene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Ethylbenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Hexachlorobutadiene	ND		2.5	1.3	ug/L			02/14/19 17:20	5

Client Sample ID: IDW-PURGE WATER

Date Collected: 02/05/19 14:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91190-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		25	13	ug/L			02/14/19 17:20	5
Isopropylbenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
4-Isopropyltoluene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Methylene Chloride	ND		10	4.4	ug/L			02/14/19 17:20	5
4-Methyl-2-pentanone (MIBK)	ND		25	13	ug/L			02/14/19 17:20	5
Naphthalene	**3.1**	**J**	5.0	2.0	ug/L			02/14/19 17:20	5
N-Propylbenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Styrene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,1,1,2-Tetrachloroethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,1,2,2-Tetrachloroethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Tetrachloroethene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Toluene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,2,3-Trichlorobenzene	ND		5.0	2.0	ug/L			02/14/19 17:20	5
1,2,4-Trichlorobenzene	ND		5.0	2.0	ug/L			02/14/19 17:20	5
1,1,1-Trichloroethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,1,2-Trichloroethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Trichloroethene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Trichlorofluoromethane	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,2,3-Trichloropropane	ND		5.0	2.0	ug/L			02/14/19 17:20	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			02/14/19 17:20	5
1,2,4-Trimethylbenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
1,3,5-Trimethylbenzene	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Vinyl acetate	ND		20	10	ug/L			02/14/19 17:20	5
Vinyl chloride	ND		2.5	1.3	ug/L			02/14/19 17:20	5
Xylenes, Total	ND		5.0	2.5	ug/L			02/14/19 17:20	5
2,2-Dichloropropane	ND		5.0	2.0	ug/L			02/14/19 17:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*02/14/19 17:20*	*5*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/14/19 17:20*	*5*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Acenaphthene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Acenaphthylene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Fluorene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Phenanthrene	**14**	**J**	20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Anthracene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Benzo[a]anthracene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Chrysene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Benzo[a]pyrene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Benzo[b]fluoranthene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Benzo[k]fluoranthene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Benzo[g,h,i]perylene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Indeno[1,2,3-cd]pyrene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Fluoranthene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Pyrene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100
Dibenz(a,h)anthracene	ND		20	10	ug/L		02/10/19 14:21	02/12/19 01:54	100

Client Sample ID: IDW-PURGE WATER

Lab Sample ID: 720-91190-2

Date Collected: 02/05/19 14:00

Matrix: Water

Date Received: 02/05/19 18:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*X*	*38 - 120*	*02/10/19 14:21*	*02/12/19 01:54*	*100*
Nitrobenzene-d5	*0*	*X*	*10 - 120*	*02/10/19 14:21*	*02/12/19 01:54*	*100*
Terphenyl-d14	*0*	*X*	*21 - 120*	*02/10/19 14:21*	*02/12/19 01:54*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9700**		1000	200	ug/L		02/11/19 10:33	02/11/19 19:04	1
Motor Oil Range Organics [C24-C36]	**5500**		1000	200	ug/L		02/11/19 10:33	02/11/19 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*73*		*45 - 120*	*02/11/19 10:33*	*02/11/19 19:04*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/08/19 14:40	02/11/19 15:57	1
Arsenic	ND		10	2.9	ug/L		02/08/19 14:40	02/11/19 15:57	1
Barium	**140**		50	1.6	ug/L		02/08/19 14:40	02/11/19 15:57	1
Beryllium	ND		2.0	0.59	ug/L		02/08/19 14:40	02/11/19 15:57	1
Cadmium	**0.86**	**J**	2.0	0.21	ug/L		02/08/19 14:40	02/11/19 15:57	1
Chromium	**1.8**	**J**	10	0.70	ug/L		02/08/19 14:40	02/11/19 15:57	1
Cobalt	**8.9**		2.0	0.68	ug/L		02/08/19 14:40	02/11/19 15:57	1
Copper	**25**		20	3.7	ug/L		02/08/19 14:40	02/11/19 15:57	1
Lead	**470**		5.0	2.2	ug/L		02/08/19 14:40	02/11/19 15:57	1
Molybdenum	**22**		10	2.9	ug/L		02/08/19 14:40	02/11/19 15:57	1
Nickel	**15**		10	1.0	ug/L		02/08/19 14:40	02/11/19 15:57	1
Selenium	ND		20	4.6	ug/L		02/08/19 14:40	02/11/19 15:57	1
Silver	ND		5.0	2.0	ug/L		02/08/19 14:40	02/11/19 15:57	1
Thallium	ND		10	3.5	ug/L		02/08/19 14:40	02/11/19 15:57	1
Vanadium	**1.4**	**J**	10	0.87	ug/L		02/08/19 14:40	02/11/19 15:57	1
Zinc	**560**		20	7.4	ug/L		02/08/19 14:40	02/11/19 15:57	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/08/19 18:20	02/09/19 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			02/05/19 19:13	1

Client Sample ID: IDW-SOIL

Date Collected: 02/05/19 13:40
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91190-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		99	69	ug/Kg			02/16/19 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*02/16/19 15:08*	*1*
4-Bromofluorobenzene (Surr)	*118*		*79 - 120*		*02/16/19 15:08*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*02/16/19 15:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			02/16/19 15:08	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
1,1,1-Trichloroethane	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
1,1,2-Trichloroethane	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
1,1-Dichloroethane	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
1,1-Dichloroethene	ND		2.0	0.49	ug/Kg			02/16/19 15:08	1
1,1-Dichloropropene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
1,2,3-Trichlorobenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
1,2,4-Trichlorobenzene	ND		4.9	0.99	ug/Kg			02/16/19 15:08	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.0	ug/Kg			02/16/19 15:08	1
1,2-Dichlorobenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
1,2-Dichloroethane	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
1,2-Dichloropropane	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
1,3-Dichlorobenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
1,3-Dichloropropane	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
1,4-Dichlorobenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
2-Chlorotoluene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
2-Hexanone	ND		9.9	4.9	ug/Kg			02/16/19 15:08	1
4-Chlorotoluene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
4-Isopropyltoluene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Benzene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Bromobenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Bromoform	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Bromomethane	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Carbon disulfide	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Carbon tetrachloride	ND		2.0	0.49	ug/Kg			02/16/19 15:08	1
Chlorobenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Chlorobromomethane	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Chloroethane	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Chloroform	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Chloromethane	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
cis-1,2-Dichloroethene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
cis-1,3-Dichloropropene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Chlorodibromomethane	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Dibromomethane	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Dichlorobromomethane	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1

Client Sample ID: IDW-SOIL
Date Collected: 02/05/19 13:40
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91190-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Ethylbenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Hexachlorobutadiene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Isopropylbenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Methylene Chloride	ND		9.9	4.9	ug/Kg			02/16/19 15:08	1
Methyl tert-butyl ether	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Naphthalene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
n-Butylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
N-Propylbenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
sec-Butylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Styrene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
tert-Butylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Tetrachloroethene	**2.5**		0.99	0.49	ug/Kg			02/16/19 15:08	1
Toluene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
trans-1,2-Dichloroethene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
trans-1,3-Dichloropropene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Trichloroethene	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
Trichlorofluoromethane	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.9	4.9	ug/Kg			02/16/19 15:08	1
Vinyl acetate	ND		7.9	3.9	ug/Kg			02/16/19 15:08	1
Vinyl chloride	ND		2.0	0.99	ug/Kg			02/16/19 15:08	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/16/19 15:08	1
Ethylene Dibromide	ND		0.99	0.49	ug/Kg			02/16/19 15:08	1
2-Butanone (MEK)	ND		9.9	4.9	ug/Kg			02/16/19 15:08	1
4-Methyl-2-pentanone (MIBK)	ND		4.9	2.5	ug/Kg			02/16/19 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*79 - 123*		*02/16/19 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*02/16/19 15:08*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**330**		19	7.3	mg/Kg		02/07/19 09:10	02/13/19 01:17	10
Motor Oil Range Organics [C24-C36]	**1500**		490	97	mg/Kg		02/07/19 09:10	02/13/19 01:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*02/07/19 09:10*	*02/13/19 01:17*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.1**	**J**	1.7	0.29	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Arsenic	**14**		3.4	0.29	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Barium	**470**		1.7	0.24	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Beryllium	**0.90**		0.34	0.11	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Cadmium	**0.35**	**J**	0.43	0.043	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Chromium	**48**	**B**	1.7	0.18	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Cobalt	**11**		0.69	0.069	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Copper	**300**		5.2	2.5	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Lead	**670**		1.7	0.36	mg/Kg		02/08/19 16:25	02/11/19 12:00	4

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Client Sample ID: IDW-SOIL
Date Collected: 02/05/19 13:40
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91190-5
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.64	J	1.7	0.22	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Nickel	40		1.7	0.18	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Selenium	ND		3.4	0.52	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Silver	0.43	J B	0.86	0.17	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Thallium	ND		1.7	0.50	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Vanadium	73		1.7	0.23	mg/Kg		02/08/19 16:25	02/11/19 12:00	4
Zinc	260		5.2	2.2	mg/Kg		02/08/19 16:25	02/11/19 12:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.014	0.0021	mg/Kg		02/08/19 09:15	02/08/19 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.9		0.1	0.05	%			02/07/19 15:13	1

Client Sample ID: IDW-OIL AREA SOIL

Date Collected: 02/05/19 13:40
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91190-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	1000		99	69	ug/Kg			02/16/19 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*02/16/19 15:36*	*1*
4-Bromofluorobenzene (Surr)	*113*		*79 - 120*		*02/16/19 15:36*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*		*02/16/19 15:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			02/16/19 15:36	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
1,1,1-Trichloroethane	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
1,1,2-Trichloroethane	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
1,1-Dichloroethane	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
1,1-Dichloroethene	ND		2.0	0.49	ug/Kg			02/16/19 15:36	1
1,1-Dichloropropene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
1,2,3-Trichlorobenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
1,2,4-Trichlorobenzene	ND		4.9	0.99	ug/Kg			02/16/19 15:36	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.0	ug/Kg			02/16/19 15:36	1
1,2-Dichlorobenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
1,2-Dichloroethane	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
1,2-Dichloropropane	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
1,3-Dichlorobenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
1,3-Dichloropropane	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
1,4-Dichlorobenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
2-Chlorotoluene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
2-Hexanone	ND		9.9	4.9	ug/Kg			02/16/19 15:36	1
4-Chlorotoluene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
4-Isopropyltoluene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Benzene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Bromobenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Bromoform	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Bromomethane	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Carbon disulfide	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Carbon tetrachloride	ND		2.0	0.49	ug/Kg			02/16/19 15:36	1
Chlorobenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Chlorobromomethane	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Chloroethane	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Chloroform	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Chloromethane	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
cis-1,2-Dichloroethene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
cis-1,3-Dichloropropene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Chlorodibromomethane	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Dibromomethane	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Dichlorobromomethane	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1

Client Sample ID: IDW-OIL AREA SOIL
Date Collected: 02/05/19 13:40
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91190-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Ethylbenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Hexachlorobutadiene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Isopropylbenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Methylene Chloride	ND		9.9	4.9	ug/Kg			02/16/19 15:36	1
Methyl tert-butyl ether	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Naphthalene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
n-Butylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
N-Propylbenzene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
sec-Butylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Styrene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
tert-Butylbenzene	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Tetrachloroethene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Toluene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
trans-1,2-Dichloroethene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
trans-1,3-Dichloropropene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Trichloroethene	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
Trichlorofluoromethane	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.9	4.9	ug/Kg			02/16/19 15:36	1
Vinyl acetate	ND		7.9	4.0	ug/Kg			02/16/19 15:36	1
Vinyl chloride	ND		2.0	0.99	ug/Kg			02/16/19 15:36	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/16/19 15:36	1
Ethylene Dibromide	ND		0.99	0.49	ug/Kg			02/16/19 15:36	1
2-Butanone (MEK)	ND		9.9	4.9	ug/Kg			02/16/19 15:36	1
4-Methyl-2-pentanone (MIBK)	ND		4.9	2.5	ug/Kg			02/16/19 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*79 - 123*		*02/16/19 15:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*02/16/19 15:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**610**		4.0	1.5	mg/Kg		02/07/19 09:10	02/15/19 03:42	2
Motor Oil Range Organics [C24-C36]	**120**		99	20	mg/Kg		02/07/19 09:10	02/15/19 03:42	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*84*		*40 - 130*	*02/07/19 09:10*	*02/15/19 03:42*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**16**		2.0	0.33	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Arsenic	**49**		3.9	0.33	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Barium	**550**		2.0	0.28	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Beryllium	**0.27**	**J**	0.39	0.13	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Cadmium	**4.3**		0.49	0.049	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Chromium	**59**	**B**	2.0	0.21	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Cobalt	**9.9**		0.78	0.078	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Copper	**740**		5.9	2.8	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Lead	**1900**		2.0	0.41	mg/Kg		02/08/19 16:25	02/11/19 12:04	4

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Client Sample ID: IDW-OIL AREA SOIL

Lab Sample ID: 720-91190-6

Date Collected: 02/05/19 13:40

Matrix: Solid

Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	1.7	J	2.0	0.25	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Nickel	58		2.0	0.20	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Selenium	ND		3.9	0.59	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Silver	5.9	B	0.98	0.20	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Thallium	ND		2.0	0.57	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Vanadium	31		2.0	0.27	mg/Kg		02/08/19 16:25	02/11/19 12:04	4
Zinc	2200		5.9	2.5	mg/Kg		02/08/19 16:25	02/11/19 12:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.014	0.0021	mg/Kg		02/08/19 09:15	02/08/19 16:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.4		0.1	0.05	%			02/07/19 15:13	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(79-123)
440-231856-A-1 MS	Matrix Spike	107	104
440-231856-A-1 MSD	Matrix Spike Duplicate	104	105
720-91190-5	IDW-SOIL	110	107
720-91190-6	IDW-OIL AREA SOIL	106	111
LCS 440-529141/6	Lab Control Sample	101	103
MB 440-529141/5	Method Blank	102	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-232894-C-12 MS	Matrix Spike	114	96
440-232894-C-12 MSD	Matrix Spike Duplicate	115	96
720-91190-1	IDW-DECONTAMINATION WATER	114	98
720-91190-2	IDW-PURGE WATER	116	99
LCS 440-528653/5	Lab Control Sample	118	96
MB 440-528653/4	Method Blank	115	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
440-231856-A-1 MS	Matrix Spike	97	110	104
440-231856-A-1 MSD	Matrix Spike Duplicate	97	110	105
720-91190-5	IDW-SOIL	98	118	107
720-91190-6	IDW-OIL AREA SOIL	99	113	111
LCS 440-529142/7	Lab Control Sample	95	112	108
MB 440-529142/5	Method Blank	94	105	107

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-232894-C-12 MS	Matrix Spike	111	91	96
440-232894-C-12 MSD	Matrix Spike Duplicate	112	86	96
720-91190-1	IDW-DECONTAMINATION WATER	110	89	98
720-91190-2	IDW-PURGE WATER	111	88	99
LCS 440-528654/6	Lab Control Sample	113	90	97
MB 440-528654/4	Method Blank	110	89	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(38-120)	(10-120)	(21-120)
720-91190-1	IDW-DECONTAMINATION WAT	64	63	65
720-91190-2	IDW-PURGE WATER	0 X	0 X	0 X
LCS 440-527822/2-A	Lab Control Sample	69	61	74
LCSD 440-527822/3-A	Lab Control Sample Dup	80	70	88
MB 440-527822/1-A	Method Blank	87	77	94

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPH1
Lab Sample ID	Client Sample ID	(40-130)
720-91190-5	IDW-SOIL	0 X D
720-91190-6	IDW-OIL AREA SOIL	84
720-91198-A-1-E MS	Matrix Spike	95
720-91198-A-1-F MSD	Matrix Spike Duplicate	97
LCS 720-259954/2-A	Lab Control Sample	123
MB 720-259954/1-A	Method Blank	113

Surrogate Legend

TPH = p-Terphenyl

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
720-91190-1	IDW-DECONTAMINATION WAT	46
720-91190-2	IDW-PURGE WATER	73
LCS 440-527912/2-A	Lab Control Sample	74
LCSD 440-527912/3-A	Lab Control Sample Dup	69
MB 440-527912/1-A	Method Blank	68

Surrogate Legend

OTCN = n-Octacosane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-528653/4
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			02/14/19 08:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 08:25	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 08:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 08:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 08:25	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528653/4
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 08:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 08:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 08:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 08:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 08:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 08:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*02/14/19 08:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 08:25*	*1*

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10.0	ND		ug/L		57	10 - 150
2-Chlorotoluene	10.0	9.06		ug/L		91	70 - 130
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
4-Chlorotoluene	10.0	9.11		ug/L		91	70 - 130
1,4-Dichlorobenzene	10.0	9.99		ug/L		100	70 - 130
1,3-Dichloropropane	10.0	9.65		ug/L		97	70 - 130
Benzene	10.0	9.53		ug/L		95	68 - 130
1,1-Dichloropropene	10.0	9.95		ug/L		99	70 - 130
Bromobenzene	10.0	10.1		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	9.32		ug/L		93	52 - 140
Bromoform	10.0	11.5		ug/L		115	60 - 148
Bromomethane	10.0	10.9		ug/L		109	64 - 139
Carbon disulfide	10.0	8.65		ug/L		86	52 - 136
Carbon tetrachloride	10.0	11.3		ug/L		113	60 - 150
1,1-Dichloroethane	10.0	9.55		ug/L		95	64 - 130
Chlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,2-Dichloroethane	10.0	11.5		ug/L		115	57 - 138
Chlorobromomethane	10.0	11.6		ug/L		116	70 - 130
1,1-Dichloroethene	10.0	10.8		ug/L		108	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	10.0	8.76		ug/L		88	64 - 135
Chloroform	10.0	10.9		ug/L		109	70 - 130
Chloromethane	10.0	7.95		ug/L		79	47 - 140
1,2-Dichloropropane	10.0	9.45		ug/L		94	67 - 130
cis-1,2-Dichloroethene	10.0	9.92		ug/L		99	70 - 133
cis-1,3-Dichloropropene	10.0	9.52		ug/L		95	70 - 133
Chlorodibromomethane	10.0	11.1		ug/L		111	69 - 145
Dibromomethane	10.0	11.2		ug/L		112	70 - 130
Dichlorobromomethane	10.0	10.9		ug/L		109	70 - 132
2-Hexanone	10.0	8.50		ug/L		85	10 - 150
Dichlorodifluoromethane	10.0	10.6		ug/L		106	29 - 150
Ethylbenzene	10.0	9.40		ug/L		94	70 - 130
4-Isopropyltoluene	10.0	10.1		ug/L		101	70 - 132
Hexachlorobutadiene	10.0	11.5		ug/L		115	10 - 150
Isopropylbenzene	10.0	9.78		ug/L		98	70 - 136
Methylene Chloride	10.0	9.47		ug/L		95	52 - 130
Methyl tert-butyl ether	10.0	9.86		ug/L		99	63 - 131
Naphthalene	10.0	9.26		ug/L		93	60 - 140
1,1,1,2-Tetrachloroethane	10.0	10.7		ug/L		107	60 - 141
n-Butylbenzene	10.0	9.17		ug/L		92	65 - 150
1,1,2,2-Tetrachloroethane	10.0	8.81		ug/L		88	63 - 130
N-Propylbenzene	10.0	8.63		ug/L		86	67 - 139
sec-Butylbenzene	10.0	9.22		ug/L		92	70 - 138
1,2,3-Trichlorobenzene	10.0	10.5		ug/L		105	60 - 140
Styrene	10.0	9.26		ug/L		93	70 - 134
1,2,4-Trichlorobenzene	10.0	10.8		ug/L		108	60 - 140
tert-Butylbenzene	10.0	9.60		ug/L		96	70 - 130
1,1,1-Trichloroethane	10.0	11.6		ug/L		116	70 - 130
Tetrachloroethene	10.0	10.9		ug/L		109	70 - 130
1,1,2-Trichloroethane	10.0	9.53		ug/L		95	70 - 130
Toluene	10.0	9.06		ug/L		91	70 - 130
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 130
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	63 - 130
trans-1,3-Dichloropropene	10.0	9.80		ug/L		98	70 - 132
Trichloroethene	10.0	10.8		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	10.0	9.34		ug/L		93	70 - 135
Trichlorofluoromethane	10.0	13.4		ug/L		134	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.5		ug/L		115	60 - 140
1,3,5-Trimethylbenzene	10.0	9.34		ug/L		93	70 - 136
Vinyl acetate	10.0	8.49		ug/L		85	48 - 140
Vinyl chloride	10.0	8.94		ug/L		89	59 - 133
m-Xylene & p-Xylene	10.0	9.79		ug/L		98	70 - 130
Ethylene Dibromide	10.0	10.8		ug/L		108	70 - 130
o-Xylene	10.0	9.99		ug/L		100	70 - 130
2-Butanone (MEK)	10.0	8.12		ug/L		81	44 - 150
4-Methyl-2-pentanone (MIBK)	10.0	7.70		ug/L		77	59 - 149
2,2-Dichloropropane	10.0	10.8		ug/L		108	68 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150
2-Chlorotoluene	ND		10.0	8.79		ug/L		88	70 - 130
1,2-Dichlorobenzene	ND		10.0	9.81		ug/L		98	70 - 130
1,3-Dichlorobenzene	ND		10.0	9.99		ug/L		100	70 - 130
4-Chlorotoluene	ND		10.0	9.15		ug/L		92	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.93		ug/L		99	70 - 130
1,3-Dichloropropane	ND		10.0	8.98		ug/L		90	70 - 130
Benzene	ND		10.0	9.11		ug/L		91	66 - 130
1,1-Dichloropropene	ND		10.0	9.69		ug/L		97	64 - 130
Bromobenzene	ND		10.0	9.66		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.72		ug/L		87	48 - 140
Bromoform	ND		10.0	10.9		ug/L		109	59 - 150
Bromomethane	ND		10.0	10.9		ug/L		109	62 - 131
Carbon disulfide	ND		10.0	8.35		ug/L		84	49 - 140
Carbon tetrachloride	ND		10.0	11.3		ug/L		113	60 - 150
1,1-Dichloroethane	ND		10.0	9.02		ug/L		90	65 - 130
Chlorobenzene	ND		10.0	9.91		ug/L		99	70 - 130
1,2-Dichloroethane	ND		10.0	11.1		ug/L		111	56 - 146
Chlorobromomethane	ND		10.0	10.4		ug/L		104	70 - 130
1,1-Dichloroethene	ND		10.0	10.1		ug/L		101	70 - 130
Chloroethane	ND		10.0	8.67		ug/L		87	68 - 130
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130
Chloromethane	ND		10.0	7.50		ug/L		75	39 - 144
1,2-Dichloropropane	ND		10.0	9.22		ug/L		92	69 - 130
cis-1,2-Dichloroethene	ND		10.0	9.49		ug/L		95	70 - 130
cis-1,3-Dichloropropene	ND		10.0	8.98		ug/L		90	70 - 133
Chlorodibromomethane	ND		10.0	10.9		ug/L		109	70 - 148
Dibromomethane	ND		10.0	10.5		ug/L		105	70 - 130
Dichlorobromomethane	ND		10.0	10.5		ug/L		105	70 - 138
2-Hexanone	ND		10.0	8.35		ug/L		83	10 - 150
Dichlorodifluoromethane	ND		10.0	10.8		ug/L		108	25 - 142
Ethylbenzene	ND		10.0	9.02		ug/L		90	70 - 130
4-Isopropyltoluene	ND		10.0	9.93		ug/L		99	70 - 130
Hexachlorobutadiene	ND		10.0	11.4		ug/L		114	10 - 150
Isopropylbenzene	ND		10.0	9.42		ug/L		94	70 - 132
Methylene Chloride	ND		10.0	9.06		ug/L		91	52 - 130
Methyl tert-butyl ether	4.6		10.0	13.9		ug/L		93	70 - 130
Naphthalene	ND		10.0	8.74		ug/L		87	60 - 140
1,1,1,2-Tetrachloroethane	ND		10.0	10.3		ug/L		103	60 - 149
n-Butylbenzene	ND		10.0	8.79		ug/L		88	61 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	ND		10.0	8.34		ug/L		83	63 - 130
N-Propylbenzene	ND		10.0	8.26		ug/L		83	66 - 135
sec-Butylbenzene	ND		10.0	8.91		ug/L		89	67 - 134
1,2,3-Trichlorobenzene	ND		10.0	10.1		ug/L		101	60 - 140
Styrene	ND		10.0	8.96		ug/L		90	29 - 150
1,2,4-Trichlorobenzene	ND		10.0	10.5		ug/L		105	60 - 140
tert-Butylbenzene	ND		10.0	9.83		ug/L		98	70 - 130
1,1,1-Trichloroethane	ND		10.0	10.8		ug/L		108	70 - 130
Tetrachloroethene	ND		10.0	10.5		ug/L		105	70 - 137
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130
Toluene	ND		10.0	8.65		ug/L		87	70 - 130
trans-1,2-Dichloroethene	ND		10.0	9.49		ug/L		95	70 - 130
1,2,3-Trichloropropane	ND		10.0	10.7		ug/L		107	60 - 130
trans-1,3-Dichloropropene	ND		10.0	9.29		ug/L		93	70 - 138
Trichloroethene	ND		10.0	10.8		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	ND		10.0	9.13		ug/L		91	70 - 130
Trichlorofluoromethane	ND		10.0	12.5		ug/L		125	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.8		ug/L		108	60 - 140
1,3,5-Trimethylbenzene	ND		10.0	9.13		ug/L		91	70 - 130
Vinyl acetate	ND		10.0	7.86		ug/L		79	23 - 150
Vinyl chloride	ND		10.0	9.89		ug/L		99	50 - 137
m-Xylene & p-Xylene	ND		10.0	9.53		ug/L		95	70 - 133
Ethylene Dibromide	ND		10.0	9.58		ug/L		96	70 - 131
o-Xylene	ND		10.0	9.44		ug/L		94	70 - 133
2-Butanone (MEK)	ND		10.0	8.50		ug/L		85	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.48		ug/L		85	52 - 150
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150	NC	35
2-Chlorotoluene	ND		10.0	8.72		ug/L		87	70 - 130	1	20
1,2-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	3	20
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	1	20
4-Chlorotoluene	ND		10.0	9.25		ug/L		92	70 - 130	1	20
1,4-Dichlorobenzene	ND		10.0	9.84		ug/L		98	70 - 130	1	20
1,3-Dichloropropane	ND		10.0	9.08		ug/L		91	70 - 130	1	25
Benzene	ND		10.0	9.11		ug/L		91	66 - 130	0	20
1,1-Dichloropropene	ND		10.0	9.84		ug/L		98	64 - 130	1	20
Bromobenzene	ND		10.0	9.86		ug/L		99	70 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		10.0	9.89		ug/L		99	48 - 140	13	30
Bromoform	ND		10.0	10.4		ug/L		104	59 - 150	5	25
Bromomethane	ND		10.0	11.5		ug/L		115	62 - 131	5	25
Carbon disulfide	ND		10.0	8.13		ug/L		81	49 - 140	3	20
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	60 - 150	1	25
1,1-Dichloroethane	ND		10.0	9.19		ug/L		92	65 - 130	2	20
Chlorobenzene	ND		10.0	9.88		ug/L		99	70 - 130	0	20
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	56 - 146	1	20
Chlorobromomethane	ND		10.0	10.7		ug/L		107	70 - 130	3	25
1,1-Dichloroethene	ND		10.0	10.0		ug/L		100	70 - 130	1	20
Chloroethane	ND		10.0	8.47		ug/L		85	68 - 130	2	25
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130	1	20
Chloromethane	ND		10.0	7.45		ug/L		75	39 - 144	1	25
1,2-Dichloropropane	ND		10.0	8.75		ug/L		87	69 - 130	5	20
cis-1,2-Dichloroethene	ND		10.0	9.82		ug/L		98	70 - 130	3	20
cis-1,3-Dichloropropene	ND		10.0	9.26		ug/L		93	70 - 133	3	20
Chlorodibromomethane	ND		10.0	10.8		ug/L		108	70 - 148	1	25
Dibromomethane	ND		10.0	10.7		ug/L		107	70 - 130	2	25
Dichlorobromomethane	ND		10.0	10.3		ug/L		103	70 - 138	2	20
2-Hexanone	ND		10.0	7.83		ug/L		78	10 - 150	6	35
Dichlorodifluoromethane	ND		10.0	10.9		ug/L		109	25 - 142	1	30
Ethylbenzene	ND		10.0	8.94		ug/L		89	70 - 130	1	20
4-Isopropyltoluene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
Hexachlorobutadiene	ND		10.0	11.8		ug/L		118	10 - 150	3	20
Isopropylbenzene	ND		10.0	9.36		ug/L		94	70 - 132	1	20
Methylene Chloride	ND		10.0	8.99		ug/L		90	52 - 130	1	20
Methyl tert-butyl ether	4.6		10.0	13.7		ug/L		91	70 - 130	2	25
Naphthalene	ND		10.0	9.19		ug/L		92	60 - 140	5	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.6		ug/L		106	60 - 149	3	20
n-Butylbenzene	ND		10.0	8.93		ug/L		89	61 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		10.0	8.43		ug/L		84	63 - 130	1	30
N-Propylbenzene	ND		10.0	7.99		ug/L		80	66 - 135	3	20
sec-Butylbenzene	ND		10.0	8.85		ug/L		89	67 - 134	1	20
1,2,3-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140	2	20
Styrene	ND		10.0	8.89		ug/L		89	29 - 150	1	35
1,2,4-Trichlorobenzene	ND		10.0	11.0		ug/L		110	60 - 140	4	20
tert-Butylbenzene	ND		10.0	9.84		ug/L		98	70 - 130	0	20
1,1,1-Trichloroethane	ND		10.0	11.2		ug/L		112	70 - 130	3	20
Tetrachloroethene	ND		10.0	10.8		ug/L		108	70 - 137	3	20
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	1	25
Toluene	ND		10.0	8.67		ug/L		87	70 - 130	0	20
trans-1,2-Dichloroethene	ND		10.0	9.68		ug/L		97	70 - 130	2	20
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	60 - 130	2	30
trans-1,3-Dichloropropene	ND		10.0	9.08		ug/L		91	70 - 138	2	25
Trichloroethene	ND		10.0	10.5		ug/L		105	70 - 130	3	20
1,2,4-Trimethylbenzene	ND		10.0	9.11		ug/L		91	70 - 130	0	25
Trichlorofluoromethane	ND		10.0	13.5		ug/L		135	60 - 150	8	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.7		ug/L		107	60 - 140	1	20
1,3,5-Trimethylbenzene	ND		10.0	9.25		ug/L		93	70 - 130	1	20
Vinyl acetate	ND		10.0	7.87		ug/L		79	23 - 150	0	30
Vinyl chloride	ND		10.0	10.3		ug/L		103	50 - 137	4	30
m-Xylene & p-Xylene	ND		10.0	9.33		ug/L		93	70 - 133	2	25
Ethylene Dibromide	ND		10.0	10.1		ug/L		101	70 - 131	6	25
o-Xylene	ND		10.0	9.72		ug/L		97	70 - 133	3	20
2-Butanone (MEK)	ND		10.0	7.11		ug/L		71	48 - 140	18	40
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.32		ug/L		83	52 - 150	2	35
2,2-Dichloropropane	ND		10.0	10.3		ug/L		103	69 - 138	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: MB 440-529141/5
Matrix: Solid
Analysis Batch: 529141

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Benzene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/16/19 09:27	1
Bromoform	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/16/19 09:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/16/19 09:27	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Chloroform	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-529141/5
Matrix: Solid
Analysis Batch: 529141

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
2-Hexanone	ND		10	5.0	ug/Kg			02/16/19 09:27	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/16/19 09:27	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Styrene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/16/19 09:27	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Toluene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/16/19 09:27	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/16/19 09:27	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/16/19 09:27	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/16/19 09:27	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/16/19 09:27	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/16/19 09:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/16/19 09:27	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/16/19 09:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*02/16/19 09:27*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*02/16/19 09:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-529141/6
Matrix: Solid
Analysis Batch: 529141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	50.0	54.9		ug/Kg		110	70 - 125
1,2-Dichlorobenzene	50.0	52.2		ug/Kg		104	75 - 120
1,3-Dichlorobenzene	50.0	50.3		ug/Kg		101	75 - 125
4-Chlorotoluene	50.0	55.0		ug/Kg		110	75 - 125
1,4-Dichlorobenzene	50.0	51.1		ug/Kg		102	75 - 120
1,3-Dichloropropane	50.0	53.9		ug/Kg		108	70 - 125
Benzene	50.0	52.7		ug/Kg		105	65 - 120
1,1-Dichloropropene	50.0	55.2		ug/Kg		110	70 - 130
Bromobenzene	50.0	52.3		ug/Kg		105	75 - 120
1,2-Dibromo-3-Chloropropane	50.0	51.5		ug/Kg		103	50 - 135
Bromoform	50.0	47.6		ug/Kg		95	55 - 135
Bromomethane	50.0	38.2		ug/Kg		76	60 - 145
Carbon disulfide	50.0	45.6		ug/Kg		91	50 - 130
Carbon tetrachloride	50.0	47.9		ug/Kg		96	65 - 140
1,1-Dichloroethane	50.0	50.0		ug/Kg		100	70 - 130
Chlorobenzene	50.0	45.9		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	48.7		ug/Kg		97	60 - 140
Chlorobromomethane	50.0	47.6		ug/Kg		95	70 - 135
1,1-Dichloroethene	50.0	45.2		ug/Kg		90	70 - 125
Chloroethane	50.0	43.7		ug/Kg		87	60 - 140
Chloroform	50.0	49.0		ug/Kg		98	70 - 130
Chloromethane	50.0	32.4		ug/Kg		65	45 - 145
1,2-Dichloropropane	50.0	53.0		ug/Kg		106	70 - 130
cis-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	50.0	60.5		ug/Kg		121	75 - 125
Chlorodibromomethane	50.0	51.4		ug/Kg		103	65 - 140
Dibromomethane	50.0	50.8		ug/Kg		102	70 - 130
Dichlorobromomethane	50.0	53.2		ug/Kg		106	70 - 135
2-Hexanone	50.0	41.8		ug/Kg		84	40 - 150
Dichlorodifluoromethane	50.0	33.1		ug/Kg		66	35 - 160
Ethylbenzene	50.0	50.0		ug/Kg		100	70 - 125
4-Isopropyltoluene	50.0	56.2		ug/Kg		112	75 - 125
Hexachlorobutadiene	50.0	53.2		ug/Kg		106	60 - 135
Isopropylbenzene	50.0	52.3		ug/Kg		105	75 - 130
Methylene Chloride	50.0	47.8		ug/Kg		96	55 - 135
Methyl tert-butyl ether	50.0	51.9		ug/Kg		104	60 - 140
Naphthalene	50.0	49.4		ug/Kg		99	55 - 135
1,1,1,2-Tetrachloroethane	50.0	48.6		ug/Kg		97	70 - 130
n-Butylbenzene	50.0	57.8		ug/Kg		116	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/Kg		102	55 - 140
N-Propylbenzene	50.0	54.3		ug/Kg		109	70 - 130
sec-Butylbenzene	50.0	54.6		ug/Kg		109	70 - 125
1,2,3-Trichlorobenzene	50.0	57.3		ug/Kg		115	60 - 130
Styrene	50.0	51.5		ug/Kg		103	75 - 130
1,2,4-Trichlorobenzene	50.0	55.2		ug/Kg		110	70 - 135
tert-Butylbenzene	50.0	55.3		ug/Kg		111	70 - 125
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	65 - 135
Tetrachloroethene	50.0	46.4		ug/Kg		93	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-529141/6
Matrix: Solid
Analysis Batch: 529141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	52.3		ug/Kg		105	65 - 135
Toluene	50.0	51.2		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	50.0	51.0		ug/Kg		102	70 - 125
1,2,3-Trichloropropane	50.0	50.1		ug/Kg		100	60 - 135
trans-1,3-Dichloropropene	50.0	58.6		ug/Kg		117	70 - 135
Trichloroethene	50.0	45.6		ug/Kg		91	70 - 125
1,2,4-Trimethylbenzene	50.0	55.5		ug/Kg		111	70 - 125
Trichlorofluoromethane	50.0	41.6		ug/Kg		83	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.6		ug/Kg		89	60 - 140
1,3,5-Trimethylbenzene	50.0	56.0		ug/Kg		112	70 - 125
Vinyl acetate	50.0	49.0		ug/Kg		98	45 - 145
Vinyl chloride	50.0	35.6		ug/Kg		71	55 - 135
m-Xylene & p-Xylene	50.0	53.1		ug/Kg		106	70 - 125
Ethylene Dibromide	50.0	50.7		ug/Kg		101	70 - 130
o-Xylene	50.0	54.0		ug/Kg		108	70 - 125
2-Butanone (MEK)	50.0	47.5		ug/Kg		95	40 - 145
4-Methyl-2-pentanone (MIBK)	50.0	41.9		ug/Kg		84	40 - 145
2,2-Dichloropropane	50.0	56.7		ug/Kg		113	60 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: 440-231856-A-1 MS
Matrix: Solid
Analysis Batch: 529141

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		49.8	45.8		ug/Kg		92	60 - 135
1,2-Dichlorobenzene	ND		49.8	43.7		ug/Kg		88	70 - 130
1,3-Dichlorobenzene	ND		49.8	42.9		ug/Kg		86	70 - 130
4-Chlorotoluene	ND		49.8	47.3		ug/Kg		95	65 - 135
1,4-Dichlorobenzene	ND		49.8	43.6		ug/Kg		88	70 - 130
1,3-Dichloropropane	ND		49.8	55.4		ug/Kg		111	65 - 140
Benzene	ND		49.8	50.7		ug/Kg		102	65 - 130
1,1-Dichloropropene	ND		49.8	50.1		ug/Kg		101	65 - 135
Bromobenzene	ND		49.8	46.7		ug/Kg		94	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.8	51.7		ug/Kg		104	40 - 150
Bromoform	ND		49.8	46.7		ug/Kg		94	50 - 145
Bromomethane	ND		49.8	38.6		ug/Kg		77	60 - 155
Carbon disulfide	ND		49.8	42.3		ug/Kg		85	40 - 140
Carbon tetrachloride	ND		49.8	44.5		ug/Kg		89	60 - 145
1,1-Dichloroethane	ND		49.8	46.4		ug/Kg		93	65 - 135
Chlorobenzene	ND		49.8	42.3		ug/Kg		85	70 - 130
1,2-Dichloroethane	ND		49.8	47.9		ug/Kg		96	60 - 150
Chlorobromomethane	ND		49.8	45.3		ug/Kg		91	65 - 145
1,1-Dichloroethene	ND		49.8	42.0		ug/Kg		84	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231856-A-1 MS
Matrix: Solid
Analysis Batch: 529141

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	ND		49.8	41.8		ug/Kg		84	60 - 150
Chloroform	ND		49.8	47.9		ug/Kg		96	65 - 135
Chloromethane	ND		49.8	32.5		ug/Kg		65	40 - 145
1,2-Dichloropropane	ND		49.8	50.3		ug/Kg		101	65 - 130
cis-1,2-Dichloroethene	ND		49.8	48.9		ug/Kg		98	65 - 135
cis-1,3-Dichloropropene	ND		49.8	57.6		ug/Kg		116	70 - 135
Chlorodibromomethane	ND		49.8	50.7		ug/Kg		102	60 - 145
Dibromomethane	ND		49.8	49.6		ug/Kg		100	65 - 140
Dichlorobromomethane	ND		49.8	50.3		ug/Kg		101	65 - 145
2-Hexanone	ND		49.8	46.5		ug/Kg		93	35 - 160
Dichlorodifluoromethane	ND		49.8	34.0		ug/Kg		68	30 - 160
Ethylbenzene	ND		49.8	45.9		ug/Kg		92	70 - 135
4-Isopropyltoluene	ND		49.8	44.7		ug/Kg		90	60 - 140
Hexachlorobutadiene	ND		49.8	34.7		ug/Kg		70	50 - 145
Isopropylbenzene	ND		49.8	45.5		ug/Kg		91	70 - 145
Methylene Chloride	ND		49.8	45.8		ug/Kg		92	55 - 145
Methyl tert-butyl ether	ND		49.8	52.2		ug/Kg		105	55 - 155
Naphthalene	ND		49.8	42.8		ug/Kg		86	40 - 150
1,1,1,2-Tetrachloroethane	ND		49.8	44.5		ug/Kg		89	65 - 145
n-Butylbenzene	ND		49.8	43.8		ug/Kg		88	55 - 145
1,1,2,2-Tetrachloroethane	ND		49.8	53.0		ug/Kg		107	40 - 160
N-Propylbenzene	ND		49.8	45.1		ug/Kg		91	65 - 140
sec-Butylbenzene	ND		49.8	43.5		ug/Kg		87	60 - 135
1,2,3-Trichlorobenzene	ND		49.8	43.1		ug/Kg		87	45 - 145
Styrene	ND		49.8	47.3		ug/Kg		95	70 - 140
1,2,4-Trichlorobenzene	ND		49.8	42.6		ug/Kg		85	50 - 140
tert-Butylbenzene	ND		49.8	45.8		ug/Kg		92	60 - 140
1,1,1-Trichloroethane	ND		49.8	47.0		ug/Kg		94	65 - 145
Tetrachloroethene	ND		49.8	39.9		ug/Kg		80	65 - 135
1,1,2-Trichloroethane	ND		49.8	51.6		ug/Kg		104	65 - 140
Toluene	ND		49.8	48.1		ug/Kg		97	70 - 130
trans-1,2-Dichloroethene	ND		49.8	47.1		ug/Kg		95	70 - 135
1,2,3-Trichloropropane	ND		49.8	51.9		ug/Kg		104	50 - 150
trans-1,3-Dichloropropene	ND		49.8	58.5		ug/Kg		118	60 - 145
Trichloroethene	ND		49.8	43.3		ug/Kg		87	65 - 140
1,2,4-Trimethylbenzene	ND		49.8	47.7		ug/Kg		96	65 - 140
Trichlorofluoromethane	ND		49.8	40.2		ug/Kg		81	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.8	41.7		ug/Kg		84	60 - 140
1,3,5-Trimethylbenzene	ND		49.8	48.1		ug/Kg		97	65 - 135
Vinyl acetate	ND		49.8	42.3		ug/Kg		85	40 - 150
Vinyl chloride	ND		49.8	35.0		ug/Kg		70	55 - 140
m-Xylene & p-Xylene	ND		49.8	47.2		ug/Kg		95	70 - 130
Ethylene Dibromide	ND		49.8	51.6		ug/Kg		104	65 - 140
o-Xylene	ND		49.8	49.1		ug/Kg		99	65 - 130
2-Butanone (MEK)	ND		49.8	55.0		ug/Kg		111	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		49.8	47.2		ug/Kg		95	40 - 155
2,2-Dichloropropane	ND		49.8	55.5		ug/Kg		111	65 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231856-A-1 MS
Matrix: Solid
Analysis Batch: 529141

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*104*		*79 - 123*

Lab Sample ID: 440-231856-A-1 MSD
Matrix: Solid
Analysis Batch: 529141

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		49.2	53.6		ug/Kg		109	60 - 135	16	25
1,2-Dichlorobenzene	ND		49.2	52.8		ug/Kg		107	70 - 130	19	25
1,3-Dichlorobenzene	ND		49.2	48.8		ug/Kg		99	70 - 130	13	25
4-Chlorotoluene	ND		49.2	55.6		ug/Kg		113	65 - 135	16	25
1,4-Dichlorobenzene	ND		49.2	50.4		ug/Kg		102	70 - 130	14	25
1,3-Dichloropropane	ND		49.2	59.0		ug/Kg		120	65 - 140	6	25
Benzene	ND		49.2	52.0		ug/Kg		106	65 - 130	3	20
1,1-Dichloropropene	ND		49.2	54.6		ug/Kg		111	65 - 135	9	20
Bromobenzene	ND		49.2	53.2		ug/Kg		108	65 - 140	13	25
1,2-Dibromo-3-Chloropropane	ND		49.2	64.6		ug/Kg		131	40 - 150	22	30
Bromoform	ND		49.2	53.1		ug/Kg		108	50 - 145	13	30
Bromomethane	ND		49.2	39.9		ug/Kg		81	60 - 155	3	25
Carbon disulfide	ND		49.2	44.2		ug/Kg		90	40 - 140	4	20
Carbon tetrachloride	ND		49.2	46.8		ug/Kg		95	60 - 145	5	25
1,1-Dichloroethane	ND		49.2	49.2		ug/Kg		100	65 - 135	6	25
Chlorobenzene	ND		49.2	45.0		ug/Kg		91	70 - 130	6	25
1,2-Dichloroethane	ND		49.2	50.9		ug/Kg		103	60 - 150	6	25
Chlorobromomethane	ND		49.2	48.3		ug/Kg		98	65 - 145	6	25
1,1-Dichloroethene	ND		49.2	44.6		ug/Kg		91	65 - 135	6	25
Chloroethane	ND		49.2	42.9		ug/Kg		87	60 - 150	3	25
Chloroform	ND		49.2	50.1		ug/Kg		102	65 - 135	5	20
Chloromethane	ND		49.2	32.5		ug/Kg		66	40 - 145	0	25
1,2-Dichloropropane	ND		49.2	52.8		ug/Kg		107	65 - 130	5	20
cis-1,2-Dichloroethene	ND		49.2	50.6		ug/Kg		103	65 - 135	3	25
cis-1,3-Dichloropropene	ND		49.2	62.9		ug/Kg		128	70 - 135	9	25
Chlorodibromomethane	ND		49.2	55.1		ug/Kg		112	60 - 145	8	25
Dibromomethane	ND		49.2	54.9		ug/Kg		112	65 - 140	10	25
Dichlorobromomethane	ND		49.2	54.6		ug/Kg		111	65 - 145	8	20
2-Hexanone	ND		49.2	52.3		ug/Kg		106	35 - 160	12	40
Dichlorodifluoromethane	ND		49.2	35.0		ug/Kg		71	30 - 160	3	35
Ethylbenzene	ND		49.2	49.1		ug/Kg		100	70 - 135	7	25
4-Isopropyltoluene	ND		49.2	54.3		ug/Kg		110	60 - 140	20	25
Hexachlorobutadiene	ND		49.2	45.7		ug/Kg		93	50 - 145	27	35
Isopropylbenzene	ND		49.2	51.4		ug/Kg		104	70 - 145	12	25
Methylene Chloride	ND		49.2	47.9		ug/Kg		97	55 - 145	4	25
Methyl tert-butyl ether	ND		49.2	57.3		ug/Kg		117	55 - 155	9	35
Naphthalene	ND		49.2	53.2		ug/Kg		108	40 - 150	22	40
1,1,1,2-Tetrachloroethane	ND		49.2	48.5		ug/Kg		99	65 - 145	9	20
n-Butylbenzene	ND		49.2	55.3		ug/Kg		112	55 - 145	23	30
1,1,2,2-Tetrachloroethane	ND		49.2	60.8		ug/Kg		124	40 - 160	14	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231856-A-1 MSD
Matrix: Solid
Analysis Batch: 529141

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	ND		49.2	53.4		ug/Kg		109	65 - 140	17	25
sec-Butylbenzene	ND		49.2	53.9		ug/Kg		110	60 - 135	22	25
1,2,3-Trichlorobenzene	ND		49.2	55.9		ug/Kg		113	45 - 145	26	30
Styrene	ND		49.2	52.8		ug/Kg		107	70 - 140	11	25
1,2,4-Trichlorobenzene	ND		49.2	53.2		ug/Kg		108	50 - 140	22	30
tert-Butylbenzene	ND		49.2	54.2		ug/Kg		110	60 - 140	17	25
1,1,1-Trichloroethane	ND		49.2	49.6		ug/Kg		101	65 - 145	5	20
Tetrachloroethene	ND		49.2	44.1		ug/Kg		90	65 - 135	10	25
1,1,2-Trichloroethane	ND		49.2	57.6		ug/Kg		117	65 - 140	11	30
Toluene	ND		49.2	51.0		ug/Kg		104	70 - 130	6	20
trans-1,2-Dichloroethene	ND		49.2	49.9		ug/Kg		101	70 - 135	6	25
1,2,3-Trichloropropane	ND		49.2	56.5		ug/Kg		115	50 - 150	9	30
trans-1,3-Dichloropropene	ND		49.2	63.1		ug/Kg		128	60 - 145	7	25
Trichloroethene	ND		49.2	45.1		ug/Kg		92	65 - 140	4	25
1,2,4-Trimethylbenzene	ND		49.2	55.9		ug/Kg		114	65 - 140	16	25
Trichlorofluoromethane	ND		49.2	41.9		ug/Kg		85	55 - 155	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.2	43.3		ug/Kg		88	60 - 140	4	40
1,3,5-Trimethylbenzene	ND		49.2	55.8		ug/Kg		113	65 - 135	15	25
Vinyl acetate	ND		49.2	46.4		ug/Kg		94	40 - 150	9	30
Vinyl chloride	ND		49.2	36.4		ug/Kg		74	55 - 140	4	30
m-Xylene & p-Xylene	ND		49.2	52.5		ug/Kg		107	70 - 130	10	25
Ethylene Dibromide	ND		49.2	55.7		ug/Kg		113	65 - 140	8	25
o-Xylene	ND		49.2	53.8		ug/Kg		109	65 - 130	9	25
2-Butanone (MEK)	ND		49.2	62.5		ug/Kg		127	25 - 170	13	40
4-Methyl-2-pentanone (MIBK)	ND		49.2	51.7		ug/Kg		105	40 - 155	9	40
2,2-Dichloropropane	ND		49.2	56.2		ug/Kg		114	65 - 150	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*105*		*79 - 123*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-528654/4
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/14/19 08:25*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/14/19 08:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 08:25*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-528654/6
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	436		ug/L		87	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	260		690	941		ug/L		98	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	260		690	929		ug/L		97	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: MB 440-529142/5
Matrix: Solid
Analysis Batch: 529142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/16/19 09:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*60 - 120*		*02/16/19 09:27*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*		*02/16/19 09:27*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*02/16/19 09:27*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-529142/7
Matrix: Solid
Analysis Batch: 529142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			1000	998		ug/Kg		100	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*60 - 120*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*
Toluene-d8 (Surr)	*108*		*79 - 123*

Lab Sample ID: 440-231856-A-1 MS
Matrix: Solid
Analysis Batch: 529142

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	ND		3440	2910		ug/Kg		85	55 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*60 - 120*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*
Toluene-d8 (Surr)	*104*		*79 - 123*

Lab Sample ID: 440-231856-A-1 MSD
Matrix: Solid
Analysis Batch: 529142

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		3400	3420		ug/Kg		101	55 - 140	16	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*60 - 120*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-527822/1-A
Matrix: Water
Analysis Batch: 528040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Acenaphthene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Acenaphthylene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Fluorene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Phenanthrene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Anthracene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Benzo[a]anthracene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-527822/1-A
Matrix: Water
Analysis Batch: 528040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Benzo[a]pyrene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Benzo[k]fluoranthene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Fluoranthene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Pyrene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1
Dibenz(a,h)anthracene	ND		0.20	0.10	ug/L		02/10/19 14:21	02/11/19 20:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*38 - 120*	*02/10/19 14:21*	*02/11/19 20:35*	*1*
Nitrobenzene-d5	*77*		*10 - 120*	*02/10/19 14:21*	*02/11/19 20:35*	*1*
Terphenyl-d14	*94*		*21 - 120*	*02/10/19 14:21*	*02/11/19 20:35*	*1*

Lab Sample ID: LCS 440-527822/2-A
Matrix: Water
Analysis Batch: 528040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.00	0.593		ug/L		59	50 - 120
Acenaphthene	1.00	0.667		ug/L		67	55 - 120
Acenaphthylene	1.00	0.656		ug/L		66	53 - 120
Fluorene	1.00	0.726		ug/L		73	56 - 120
Phenanthrene	1.00	0.676		ug/L		68	56 - 120
Anthracene	1.00	0.637		ug/L		64	54 - 120
Benzo[a]anthracene	1.00	0.677		ug/L		68	53 - 120
Chrysene	1.00	0.694		ug/L		69	56 - 120
Benzo[a]pyrene	1.00	0.632		ug/L		63	44 - 120
Benzo[b]fluoranthene	1.00	0.665		ug/L		66	48 - 120
Benzo[k]fluoranthene	1.00	0.687		ug/L		69	47 - 121
Benzo[g,h,i]perylene	1.00	0.674		ug/L		67	41 - 123
Indeno[1,2,3-cd]pyrene	1.00	0.674		ug/L		67	38 - 120
Fluoranthene	1.00	0.702		ug/L		70	59 - 120
Pyrene	1.00	0.687		ug/L		69	59 - 120
Dibenz(a,h)anthracene	1.00	0.673		ug/L		67	38 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*38 - 120*
Nitrobenzene-d5	*61*		*10 - 120*
Terphenyl-d14	*74*		*21 - 120*

Lab Sample ID: LCSD 440-527822/3-A
Matrix: Water
Analysis Batch: 528040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527822

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1.00	0.683		ug/L		68	50 - 120	14	35

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 440-527822/3-A
Matrix: Water
Analysis Batch: 528040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527822

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			1.00	0.780		ug/L		78	55 - 120	16	35
Acenaphthylene			1.00	0.767		ug/L		77	53 - 120	16	35
Fluorene			1.00	0.847		ug/L		85	56 - 120	15	35
Phenanthrene			1.00	0.800		ug/L		80	56 - 120	17	35
Anthracene			1.00	0.759		ug/L		76	54 - 120	17	35
Benzo[a]anthracene			1.00	0.795		ug/L		80	53 - 120	16	35
Chrysene			1.00	0.827		ug/L		83	56 - 120	17	35
Benzo[a]pyrene			1.00	0.763		ug/L		76	44 - 120	19	35
Benzo[b]fluoranthene			1.00	0.815		ug/L		81	48 - 120	20	35
Benzo[k]fluoranthene			1.00	0.807		ug/L		81	47 - 121	16	35
Benzo[g,h,i]perylene			1.00	0.808		ug/L		81	41 - 123	18	35
Indeno[1,2,3-cd]pyrene			1.00	0.805		ug/L		81	38 - 120	18	35
Fluoranthene			1.00	0.832		ug/L		83	59 - 120	17	35
Pyrene			1.00	0.816		ug/L		82	59 - 120	17	35
Dibenz(a,h)anthracene			1.00	0.807		ug/L		81	38 - 122	18	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*80*		*38 - 120*
Nitrobenzene-d5	*70*		*10 - 120*
Terphenyl-d14	*88*		*21 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-259954/1-A
Matrix: Solid
Analysis Batch: 260015

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		2.0	0.75	mg/Kg		02/07/19 09:10	02/08/19 16:55	1
Motor Oil Range Organics [C24-C36]	ND		50	10	mg/Kg		02/07/19 09:10	02/08/19 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*113*		*40 - 130*	*02/07/19 09:10*	*02/08/19 16:55*	*1*

Lab Sample ID: LCS 720-259954/2-A
Matrix: Solid
Analysis Batch: 260015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259954

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			167	172		mg/Kg		103	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*123*		*40 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-91198-A-1-E MS
Matrix: Solid
Analysis Batch: 260015

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	8.8		156	161		mg/Kg		98	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*95*		*40 - 130*

Lab Sample ID: 720-91198-A-1-F MSD
Matrix: Solid
Analysis Batch: 260015

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	8.8		158	154		mg/Kg		92	50 - 150	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*97*		*40 - 130*

Lab Sample ID: MB 440-527912/1-A
Matrix: Water
Analysis Batch: 527883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500	100	ug/L		02/11/19 10:33	02/11/19 15:41	1
Motor Oil Range Organics [C24-C36]	ND		500	100	ug/L		02/11/19 10:33	02/11/19 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*68*		*45 - 120*	*02/11/19 10:33*	*02/11/19 15:41*	*1*

Lab Sample ID: LCS 440-527912/2-A
Matrix: Water
Analysis Batch: 527883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	1000	710		ug/L		71	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*74*		*45 - 120*

Lab Sample ID: LCSD 440-527912/3-A
Matrix: Water
Analysis Batch: 527883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1000	594		ug/L		59	40 - 115	18	25

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 440-527912/3-A
Matrix: Water
Analysis Batch: 527883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527912

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*69*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259912/1-A
Matrix: Solid
Analysis Batch: 260142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Arsenic	ND		1.0	0.085	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Barium	ND		0.50	0.071	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Beryllium	ND		0.10	0.033	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Cadmium	ND		0.13	0.012	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Chromium	0.0590	J	0.50	0.053	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Cobalt	ND		0.20	0.020	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Copper	ND		1.5	0.71	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Lead	ND		0.50	0.11	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Nickel	ND		0.50	0.051	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Selenium	ND		1.0	0.15	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Silver	0.156	J	0.25	0.051	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Thallium	ND		0.50	0.15	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Vanadium	ND		0.50	0.068	mg/Kg		02/08/19 16:25	02/11/19 09:40	1
Zinc	ND		1.5	0.64	mg/Kg		02/08/19 16:25	02/11/19 09:40	1

Lab Sample ID: LCS 720-259912/2-A
Matrix: Solid
Analysis Batch: 260142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	53.6		mg/Kg		107	80 - 120
Arsenic	50.0	54.1		mg/Kg		108	80 - 120
Barium	50.0	54.2		mg/Kg		108	80 - 120
Beryllium	50.0	56.4		mg/Kg		113	80 - 120
Cadmium	50.0	53.3		mg/Kg		107	80 - 120
Chromium	50.0	55.2		mg/Kg		110	80 - 120
Cobalt	50.0	55.9		mg/Kg		112	80 - 120
Copper	50.0	56.7		mg/Kg		113	80 - 120
Lead	50.0	54.2		mg/Kg		108	80 - 120
Molybdenum	50.0	55.8		mg/Kg		112	80 - 120
Nickel	50.0	54.4		mg/Kg		109	80 - 120
Selenium	50.0	52.4		mg/Kg		105	80 - 120
Silver	25.0	27.9		mg/Kg		112	80 - 120
Thallium	50.0	54.7		mg/Kg		109	80 - 120
Vanadium	50.0	53.3		mg/Kg		107	80 - 120
Zinc	50.0	53.1		mg/Kg		106	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91198-A-1-A MS
Matrix: Solid
Analysis Batch: 260142

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.62	J F1	49.0	19.8	F1	mg/Kg		39	75 - 125
Arsenic	5.2	F1	49.0	70.4	F1	mg/Kg		133	75 - 125
Barium	90	F1	49.0	182	F1	mg/Kg		189	75 - 125
Beryllium	0.50	F1	49.0	73.4	F1	mg/Kg		149	75 - 125
Cadmium	0.12	J F1	49.0	66.1	F1	mg/Kg		135	75 - 125
Chromium	28	F1 B	49.0	106	F1	mg/Kg		158	75 - 125
Cobalt	8.3	F1	49.0	77.3	F1	mg/Kg		141	75 - 125
Copper	13	F1	49.0	91.0	F1	mg/Kg		158	75 - 125
Lead	16	F1	49.0	83.9	F1	mg/Kg		139	75 - 125
Molybdenum	ND	F1	49.0	62.9	F1	mg/Kg		128	75 - 125
Nickel	23	F1	49.0	92.5	F1	mg/Kg		142	75 - 125
Selenium	ND	F1	49.0	63.5	F1	mg/Kg		129	75 - 125
Silver	0.53	J F1 B	24.5	33.9	F1	mg/Kg		136	75 - 125
Thallium	ND	F1	49.0	64.3	F1	mg/Kg		131	75 - 125
Vanadium	37	F1	49.0	114	F1	mg/Kg		157	75 - 125
Zinc	46	F1	49.0	121	F1	mg/Kg		153	75 - 125

Lab Sample ID: 720-91198-A-1-B MSD
Matrix: Solid
Analysis Batch: 260142

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.62	J F1	49.5	19.1	F1	mg/Kg		37	75 - 125	4	20
Arsenic	5.2	F1	49.5	72.2	F1	mg/Kg		136	75 - 125	3	20
Barium	90	F1	49.5	198	F1	mg/Kg		219	75 - 125	8	20
Beryllium	0.50	F1	49.5	78.2	F1	mg/Kg		157	75 - 125	6	20
Cadmium	0.12	J F1	49.5	66.8	F1	mg/Kg		135	75 - 125	1	20
Chromium	28	F1 B	49.5	112	F1	mg/Kg		169	75 - 125	6	20
Cobalt	8.3	F1	49.5	81.7	F1	mg/Kg		148	75 - 125	6	20
Copper	13	F1	49.5	95.4	F1	mg/Kg		166	75 - 125	5	20
Lead	16	F1	49.5	86.5	F1	mg/Kg		143	75 - 125	3	20
Molybdenum	ND	F1	49.5	63.3	F1	mg/Kg		128	75 - 125	1	20
Nickel	23	F1	49.5	96.4	F1	mg/Kg		148	75 - 125	4	20
Selenium	ND	F1	49.5	64.2	F1	mg/Kg		130	75 - 125	1	20
Silver	0.53	J F1 B	24.8	34.1	F1	mg/Kg		135	75 - 125	1	20
Thallium	ND	F1	49.5	64.4	F1	mg/Kg		130	75 - 125	0	20
Vanadium	37	F1	49.5	123	F1	mg/Kg		173	75 - 125	8	20
Zinc	46	F1	49.5	126	F1	mg/Kg		162	75 - 125	4	20

Lab Sample ID: MB 720-260056/1-A
Matrix: Water
Analysis Batch: 260165

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260056

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	4.1	ug/L		02/08/19 14:40	02/11/19 14:54	1
Arsenic	ND		10	2.9	ug/L		02/08/19 14:40	02/11/19 14:54	1
Barium	ND		50	1.6	ug/L		02/08/19 14:40	02/11/19 14:54	1
Beryllium	ND		2.0	0.59	ug/L		02/08/19 14:40	02/11/19 14:54	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-260056/1-A
Matrix: Water
Analysis Batch: 260165

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260056

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		2.0	0.21	ug/L		02/08/19 14:40	02/11/19 14:54	1
Chromium	ND		10	0.70	ug/L		02/08/19 14:40	02/11/19 14:54	1
Cobalt	ND		2.0	0.68	ug/L		02/08/19 14:40	02/11/19 14:54	1
Copper	ND		20	3.7	ug/L		02/08/19 14:40	02/11/19 14:54	1
Lead	ND		5.0	2.2	ug/L		02/08/19 14:40	02/11/19 14:54	1
Molybdenum	ND		10	2.9	ug/L		02/08/19 14:40	02/11/19 14:54	1
Nickel	ND		10	1.0	ug/L		02/08/19 14:40	02/11/19 14:54	1
Selenium	ND		20	4.6	ug/L		02/08/19 14:40	02/11/19 14:54	1
Silver	ND		5.0	2.0	ug/L		02/08/19 14:40	02/11/19 14:54	1
Thallium	ND		10	3.5	ug/L		02/08/19 14:40	02/11/19 14:54	1
Vanadium	ND		10	0.87	ug/L		02/08/19 14:40	02/11/19 14:54	1
Zinc	ND		20	7.4	ug/L		02/08/19 14:40	02/11/19 14:54	1

Lab Sample ID: LCS 720-260056/2-A
Matrix: Water
Analysis Batch: 260165

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1000	921		ug/L		92	80 - 120
Arsenic	1000	962		ug/L		96	80 - 120
Barium	1000	961		ug/L		96	80 - 120
Beryllium	1000	937		ug/L		94	80 - 120
Cadmium	1000	984		ug/L		98	80 - 120
Chromium	1000	978		ug/L		98	80 - 120
Cobalt	1000	973		ug/L		97	80 - 120
Copper	1000	1010		ug/L		101	80 - 120
Lead	1000	992		ug/L		99	80 - 120
Molybdenum	1000	993		ug/L		99	80 - 120
Nickel	1000	989		ug/L		99	80 - 120
Selenium	1000	991		ug/L		99	80 - 120
Silver	500	513		ug/L		103	80 - 120
Thallium	1000	975		ug/L		97	80 - 120
Vanadium	1000	969		ug/L		97	80 - 120
Zinc	1000	1000		ug/L		100	80 - 120

Lab Sample ID: 720-91190-1 MS
Matrix: Water
Analysis Batch: 260165

Client Sample ID: IDW-DECONTAMINATION WATER
Prep Type: Dissolved
Prep Batch: 260056

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.3	J	1000	943		ug/L		94	75 - 125
Arsenic	ND		1000	994		ug/L		99	75 - 125
Barium	35	J	1000	998		ug/L		96	75 - 125
Beryllium	ND		1000	981		ug/L		98	75 - 125
Cadmium	ND		1000	960		ug/L		96	75 - 125
Chromium	ND		1000	961		ug/L		96	75 - 125
Cobalt	ND		1000	942		ug/L		94	75 - 125
Copper	ND		1000	981		ug/L		98	75 - 125
Lead	4.9	J	1000	943		ug/L		94	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91190-1 MS
Matrix: Water
Analysis Batch: 260165

Client Sample ID: IDW-DECONTAMINATION WATER
Prep Type: Dissolved
Prep Batch: 260056

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	45		1000	1040		ug/L		99	75 - 125
Nickel	6.2	J	1000	939		ug/L		93	75 - 125
Selenium	ND		1000	984		ug/L		98	75 - 125
Silver	ND		500	505		ug/L		101	75 - 125
Thallium	ND		1000	944		ug/L		94	75 - 125
Vanadium	ND		1000	970		ug/L		97	75 - 125
Zinc	19	J	1000	985		ug/L		97	75 - 125

Lab Sample ID: 720-91190-1 MSD
Matrix: Water
Analysis Batch: 260165

Client Sample ID: IDW-DECONTAMINATION WATER
Prep Type: Dissolved
Prep Batch: 260056

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.3	J	1000	924		ug/L		92	75 - 125	2	20
Arsenic	ND		1000	981		ug/L		98	75 - 125	1	20
Barium	35	J	1000	988		ug/L		95	75 - 125	1	20
Beryllium	ND		1000	942		ug/L		94	75 - 125	4	20
Cadmium	ND		1000	957		ug/L		96	75 - 125	0	20
Chromium	ND		1000	942		ug/L		94	75 - 125	2	20
Cobalt	ND		1000	937		ug/L		94	75 - 125	0	20
Copper	ND		1000	974		ug/L		97	75 - 125	1	20
Lead	4.9	J	1000	942		ug/L		94	75 - 125	0	20
Molybdenum	45		1000	1020		ug/L		98	75 - 125	1	20
Nickel	6.2	J	1000	954		ug/L		95	75 - 125	2	20
Selenium	ND		1000	999		ug/L		100	75 - 125	2	20
Silver	ND		500	498		ug/L		100	75 - 125	1	20
Thallium	ND		1000	924		ug/L		92	75 - 125	2	20
Vanadium	ND		1000	952		ug/L		95	75 - 125	2	20
Zinc	19	J	1000	991		ug/L		97	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-260076/1-A
Matrix: Water
Analysis Batch: 260133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/08/19 18:20	02/09/19 12:03	1

Lab Sample ID: LCS 720-260076/2-A
Matrix: Water
Analysis Batch: 260133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	10.0	9.44		ug/L		94	85 - 115

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 720-259952/1-C
Matrix: Water
Analysis Batch: 260133

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 260076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.10	ug/L		02/08/19 18:20	02/09/19 12:07	1

Lab Sample ID: 720-91196-B-1-C MS
Matrix: Water
Analysis Batch: 260133

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 260076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		10.0	9.74		ug/L		97	75 - 125

Lab Sample ID: 720-91196-B-1-D MSD
Matrix: Water
Analysis Batch: 260133

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 260076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		10.0	9.57		ug/L		96	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259842/1-A
Matrix: Solid
Analysis Batch: 260057

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/08/19 09:15	02/08/19 12:50	1

Lab Sample ID: LCS 720-259842/2-A
Matrix: Solid
Analysis Batch: 260057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.789		mg/Kg		95	80 - 120

Lab Sample ID: 720-91171-A-1-D MS
Matrix: Solid
Analysis Batch: 260057

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.035		0.725	0.840		mg/Kg		111	75 - 125

Lab Sample ID: 720-91171-A-1-E MSD
Matrix: Solid
Analysis Batch: 260057

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.035		0.725	0.802		mg/Kg		106	75 - 125	5	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 720-259851/9
Matrix: Water
Analysis Batch: 259851

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		10	3.7	ug/L			02/05/19 17:25	1

Lab Sample ID: LCS 720-259851/10
Matrix: Water
Analysis Batch: 259851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			250	253		ug/L		101	90 - 110		

Lab Sample ID: LCSD 720-259851/11
Matrix: Water
Analysis Batch: 259851

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)			250	252		ug/L		101	90 - 110	0	20

Lab Sample ID: 720-91128-H-4 MS
Matrix: Water
Analysis Batch: 259851

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		250	254		ug/L		102	85 - 115		

Lab Sample ID: 720-91128-H-4 MSD
Matrix: Water
Analysis Batch: 259851

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		250	253		ug/L		101	85 - 115	0	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91191-A-1 DU
Matrix: Solid
Analysis Batch: 259984

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.3			14.9		%				12	20

GC/MS VOA

Analysis Batch: 528653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Total/NA	Water	8260B	
720-91190-2	IDW-PURGE WATER	Total/NA	Water	8260B	
MB 440-528653/4	Method Blank	Total/NA	Water	8260B	
LCS 440-528653/5	Lab Control Sample	Total/NA	Water	8260B	
440-232894-C-12 MS	Matrix Spike	Total/NA	Water	8260B	
440-232894-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Total/NA	Water	8260B/CA_LUFT MS	
720-91190-2	IDW-PURGE WATER	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528654/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528654/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-232894-C-12 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-232894-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 529141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-5	IDW-SOIL	Total/NA	Solid	8260B	
720-91190-6	IDW-OIL AREA SOIL	Total/NA	Solid	8260B	
MB 440-529141/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-529141/6	Lab Control Sample	Total/NA	Solid	8260B	
440-231856-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-231856-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 529142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-5	IDW-SOIL	Total/NA	Solid	8260B/CA_LUFT MS	
720-91190-6	IDW-OIL AREA SOIL	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-529142/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-529142/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-231856-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-231856-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 527822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Total/NA	Water	3520C	
720-91190-2	IDW-PURGE WATER	Total/NA	Water	3520C	
MB 440-527822/1-A	Method Blank	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 527822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-527822/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-527822/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 528040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-2	IDW-PURGE WATER	Total/NA	Water	8270C SIM	527822
MB 440-527822/1-A	Method Blank	Total/NA	Water	8270C SIM	527822
LCS 440-527822/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	527822
LCSD 440-527822/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	527822

Analysis Batch: 528168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Total/NA	Water	8270C SIM	527822

GC Semi VOA

Prep Batch: 259954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-5	IDW-SOIL	Total/NA	Solid	3546	
720-91190-6	IDW-OIL AREA SOIL	Total/NA	Solid	3546	
MB 720-259954/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259954/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91198-A-1-E MS	Matrix Spike	Total/NA	Solid	3546	
720-91198-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 260015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259954/1-A	Method Blank	Total/NA	Solid	8015B	259954
LCS 720-259954/2-A	Lab Control Sample	Total/NA	Solid	8015B	259954
720-91198-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B	259954
720-91198-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	259954

Analysis Batch: 260187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-5	IDW-SOIL	Total/NA	Solid	8015B	259954

Analysis Batch: 260333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-6	IDW-OIL AREA SOIL	Total/NA	Solid	8015B	259954

Analysis Batch: 527883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Total/NA	Water	8015B	527912
720-91190-2	IDW-PURGE WATER	Total/NA	Water	8015B	527912
MB 440-527912/1-A	Method Blank	Total/NA	Water	8015B	527912
LCS 440-527912/2-A	Lab Control Sample	Total/NA	Water	8015B	527912
LCSD 440-527912/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	527912

GC Semi VOA (Continued)

Prep Batch: 527912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Total/NA	Water	3510C	
720-91190-2	IDW-PURGE WATER	Total/NA	Water	3510C	
MB 440-527912/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-527912/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-527912/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Metals

Prep Batch: 259842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-5	IDW-SOIL	Total/NA	Solid	7471A	
720-91190-6	IDW-OIL AREA SOIL	Total/NA	Solid	7471A	
MB 720-259842/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259842/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91171-A-1-D MS	Matrix Spike	Total/NA	Solid	7471A	
720-91171-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 259912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-5	IDW-SOIL	Total/NA	Solid	3050B	
720-91190-6	IDW-OIL AREA SOIL	Total/NA	Solid	3050B	
MB 720-259912/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259912/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91198-A-1-A MS	Matrix Spike	Total/NA	Solid	3050B	
720-91198-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Filtration Batch: 259952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259952/1-C	Method Blank	Dissolved	Water	FILTRATION	
720-91196-B-1-C MS	Matrix Spike	Dissolved	Water	FILTRATION	
720-91196-B-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	FILTRATION	

Prep Batch: 260056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Dissolved	Water	3005A	
720-91190-2	IDW-PURGE WATER	Dissolved	Water	3005A	
MB 720-260056/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 720-260056/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-91190-1 MS	IDW-DECONTAMINATION WATER	Dissolved	Water	3005A	
720-91190-1 MSD	IDW-DECONTAMINATION WATER	Dissolved	Water	3005A	

Analysis Batch: 260057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259842/1-A	Method Blank	Total/NA	Solid	7471A	259842
LCS 720-259842/2-A	Lab Control Sample	Total/NA	Solid	7471A	259842
720-91171-A-1-D MS	Matrix Spike	Total/NA	Solid	7471A	259842
720-91171-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	259842

Metals (Continued)

Prep Batch: 260076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Dissolved	Water	7470A	
720-91190-2	IDW-PURGE WATER	Dissolved	Water	7470A	
MB 720-259952/1-C	Method Blank	Dissolved	Water	7470A	259952
MB 720-260076/1-A	Method Blank	Total/NA	Water	7470A	
LCS 720-260076/2-A	Lab Control Sample	Total/NA	Water	7470A	
720-91196-B-1-C MS	Matrix Spike	Dissolved	Water	7470A	259952
720-91196-B-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	259952

Analysis Batch: 260133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Dissolved	Water	7470A	260076
720-91190-2	IDW-PURGE WATER	Dissolved	Water	7470A	260076
MB 720-259952/1-C	Method Blank	Dissolved	Water	7470A	260076
MB 720-260076/1-A	Method Blank	Total/NA	Water	7470A	260076
LCS 720-260076/2-A	Lab Control Sample	Total/NA	Water	7470A	260076
720-91196-B-1-C MS	Matrix Spike	Dissolved	Water	7470A	260076
720-91196-B-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	260076

Analysis Batch: 260137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-5	IDW-SOIL	Total/NA	Solid	7471A	259842
720-91190-6	IDW-OIL AREA SOIL	Total/NA	Solid	7471A	259842

Analysis Batch: 260142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-5	IDW-SOIL	Total/NA	Solid	6010B	259912
720-91190-6	IDW-OIL AREA SOIL	Total/NA	Solid	6010B	259912
MB 720-259912/1-A	Method Blank	Total/NA	Solid	6010B	259912
LCS 720-259912/2-A	Lab Control Sample	Total/NA	Solid	6010B	259912
720-91198-A-1-A MS	Matrix Spike	Total/NA	Solid	6010B	259912
720-91198-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259912

Analysis Batch: 260165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Dissolved	Water	6010B	260056
720-91190-2	IDW-PURGE WATER	Dissolved	Water	6010B	260056
MB 720-260056/1-A	Method Blank	Total Recoverable	Water	6010B	260056
LCS 720-260056/2-A	Lab Control Sample	Total Recoverable	Water	6010B	260056
720-91190-1 MS	IDW-DECONTAMINATION WATER	Dissolved	Water	6010B	260056
720-91190-1 MSD	IDW-DECONTAMINATION WATER	Dissolved	Water	6010B	260056

General Chemistry

Analysis Batch: 259851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-1	IDW-DECONTAMINATION WATER	Total/NA	Water	7196A	
720-91190-2	IDW-PURGE WATER	Total/NA	Water	7196A	
MB 720-259851/9	Method Blank	Total/NA	Water	7196A	
LCS 720-259851/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 720-259851/11	Lab Control Sample Dup	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 259851 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91128-H-4 MS	Matrix Spike	Total/NA	Water	7196A	
720-91128-H-4 MSD	Matrix Spike Duplicate	Total/NA	Water	7196A	

Analysis Batch: 259984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91190-5	IDW-SOIL	Total/NA	Solid	Moisture	
720-91190-6	IDW-OIL AREA SOIL	Total/NA	Solid	Moisture	
720-91191-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Client Sample ID: IDW-DECONTAMINATION WATER

Lab Sample ID: 720-91190-1

Date Collected: 02/05/19 13:50

Matrix: Water

Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528653	02/14/19 16:54	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528654	02/14/19 16:54	WC	TAL IRV
Total/NA	Prep	3520C			527822	02/10/19 14:21	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		1	528168	02/12/19 12:24	HN	TAL IRV
Total/NA	Prep	3510C			527912	02/11/19 10:33	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527883	02/11/19 18:44	LMB	TAL IRV
Dissolved	Prep	3005A			260056	02/08/19 14:40	GLL	TAL PLS
Dissolved	Analysis	6010B		1	260165	02/11/19 15:52	OBI	TAL PLS
Dissolved	Prep	7470A			260076	02/08/19 18:20	GLL	TAL PLS
Dissolved	Analysis	7470A		1	260133	02/09/19 12:21	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259851	02/05/19 19:13	ECB	TAL PLS

Client Sample ID: IDW-PURGE WATER

Lab Sample ID: 720-91190-2

Date Collected: 02/05/19 14:00

Matrix: Water

Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	528653	02/14/19 17:20	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	528654	02/14/19 17:20	WC	TAL IRV
Total/NA	Prep	3520C			527822	02/10/19 14:21	AJP	TAL IRV
Total/NA	Analysis	8270C SIM		100	528040	02/12/19 01:54	HN	TAL IRV
Total/NA	Prep	3510C			527912	02/11/19 10:33	HCK	TAL IRV
Total/NA	Analysis	8015B		1	527883	02/11/19 19:04	LMB	TAL IRV
Dissolved	Prep	3005A			260056	02/08/19 14:40	GLL	TAL PLS
Dissolved	Analysis	6010B		1	260165	02/11/19 15:57	OBI	TAL PLS
Dissolved	Prep	7470A			260076	02/08/19 18:20	GLL	TAL PLS
Dissolved	Analysis	7470A		1	260133	02/09/19 12:24	MAG	TAL PLS
Total/NA	Analysis	7196A		1	259851	02/05/19 19:13	ECB	TAL PLS

Client Sample ID: IDW-SOIL

Lab Sample ID: 720-91190-5

Date Collected: 02/05/19 13:40

Matrix: Solid

Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	529141	02/16/19 15:08	GK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	529142	02/16/19 15:08	GK	TAL IRV
Total/NA	Prep	3546			259954	02/07/19 09:10	KLM	TAL PLS
Total/NA	Analysis	8015B		10	260187	02/13/19 01:17	JXL	TAL PLS
Total/NA	Prep	3050B			259912	02/08/19 16:25	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260142	02/11/19 12:00	OBI	TAL PLS
Total/NA	Prep	7471A			259842	02/08/19 09:15	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260137	02/08/19 16:44	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Client Sample ID: IDW-SOIL

Lab Sample ID: 720-91190-5

Date Collected: 02/05/19 13:40
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259984	02/07/19 15:13	TNL	TAL PLS

Client Sample ID: IDW-OIL AREA SOIL

Lab Sample ID: 720-91190-6

Date Collected: 02/05/19 13:40
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	529141	02/16/19 15:36	GK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	529142	02/16/19 15:36	GK	TAL IRV
Total/NA	Prep	3546			259954	02/07/19 09:10	KLM	TAL PLS
Total/NA	Analysis	8015B		2	260333	02/15/19 03:42	JXL	TAL PLS
Total/NA	Prep	3050B			259912	02/08/19 16:25	SUN	TAL PLS
Total/NA	Analysis	6010B		4	260142	02/11/19 12:04	OBI	TAL PLS
Total/NA	Prep	7471A			259842	02/08/19 09:15	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260137	02/08/19 16:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259984	02/07/19 15:13	TNL	TAL PLS

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91190-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C	Water	Motor Oil Range Organics [C24-C36]
8260B		Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Solid	Xylenes, Total
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8270C SIM	3520C	Water	Acenaphthene
8270C SIM	3520C	Water	Acenaphthylene
8270C SIM	3520C	Water	Anthracene
8270C SIM	3520C	Water	Benzo[a]anthracene
8270C SIM	3520C	Water	Benzo[a]pyrene
8270C SIM	3520C	Water	Benzo[b]fluoranthene
8270C SIM	3520C	Water	Benzo[g,h,i]perylene
8270C SIM	3520C	Water	Benzo[k]fluoranthene
8270C SIM	3520C	Water	Chrysene
8270C SIM	3520C	Water	Dibenz(a,h)anthracene
8270C SIM	3520C	Water	Fluoranthene
8270C SIM	3520C	Water	Fluorene
8270C SIM	3520C	Water	Indeno[1,2,3-cd]pyrene
8270C SIM	3520C	Water	Naphthalene
8270C SIM	3520C	Water	Phenanthrene
8270C SIM	3520C	Water	Pyrene

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
7196A	Chromium, Hexavalent	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91190-1	IDW-DECONTAMINATION WATER	Water	02/05/19 13:50	02/05/19 18:50
720-91190-2	IDW-PURGE WATER	Water	02/05/19 14:00	02/05/19 18:50
720-91190-5	IDW-SOIL	Solid	02/05/19 13:40	02/05/19 18:50
720-91190-6	IDW-OIL AREA SOIL	Solid	02/05/19 13:40	02/05/19 18:50

TestAmerica Pleasanton
1220 Quarry Lane
720-91190
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

Chain of Custody Record

TestAmerica

188300

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaffner
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91190 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
IDW - Decontamination Water	5 Feb. 2019	1350	C (EAD)	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
IDW - Purge Water	↓	1400	C	GW	9	Y		X	X	X	X	X	
TB - 02.05.19	↓	—			2			X					
FB - 02.05.19	↓	—			2			X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.1°C, 0.8°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C): Obs'd ____ Corr'd ____	Therm ID No ____
Relinquished by: [signature]	Company: Geosyntec	Date/Time: 1630 5 Feb. 2019	Received by: [signature] Company: TA PLS Date/Time: 2-5-19 16:12
Relinquished by: [signature]	Company: TA PLS	Date/Time: 2-5-19	Received by: Company: Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature] Company: TA PLS Date/Time: 2/5/19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91191

Chain of Custody Record

188301

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schuetmann
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91191 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
~~DG-W3s-0.5-1~~	~~5 Feb 2019~~	~~1100~~	~~G~~	~~S~~	~~1~~	N		X	X	X	X	X	X	X	W1F
1. DG-W3s-3.5-4	5 Feb 2019	1100	G	S	2	N						X	X	X	
2. DG-Y3s-0.5-1	"	1105	"	"	"	"						"	"	"	
3. DG-Y3s-3.5-4		1105													
4. DG-AA3s-0.5-1		1115													
5. DG-AA3s-3.5-4		1115													
6. DG-AA3s-7-7.5		1115													
7. DG-W3s-0.5-1		1100	↓	↓	↓	↓						↓	↓	↓	
8. DG-R15s-3.5-4		0740	G	S	4	N		X							
9. TB-02.05.19		—			2			X							
10. FB-02.05.19	↓	↓			2			X							
11. IDW-Soil	5 Feb. 2019	1340	C	S	1	N		X		X	X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.1°C, 0.3°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd	Corr'd	Therm ID No.
Relinquished by	Company Geosyntec	Date/Time 1630 5 Feb. 2019	Received by	Company TA-PLS	Date/Time 2-5-19 16:35
Relinquished by	Company TA-PLS	Date/Time 2-5-19 1835	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 2/5/19 16:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91191

Chain of Custody Record

1883O1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
			G	S	7	N		X	X	X	X	X	X	X	N4P
12 IDW - Oil Area Soil	5 Feb. 2019	1340	C	S	1	N		X		X	X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd: _____ Therm ID No _____			
Relinquished by	Company Geosyntec	Date/Time 1630 5 Feb 2019	Received by	Company TA PLS	Date/Time 2-5-19 16:30
Relinquished by	Company TA PLS	Date/Time 18:42 2-5-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 2/5/19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2/25/2019

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3790	COC No: 720-41084.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91190-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/15/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs (5030)	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
IDW-SOIL (720-91190-5)	2/5/19	13:40 Pacific		Solid			X	X		
IDW-OIL AREA SOIL (720-91190-6)	2/5/19	13:40 Pacific		Solid			X	X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Olga Cinelas	Date/Time: 2/7/19 1045	Company TAL IRV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 19/23 IR89

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41064 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91190-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/15/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
IDW-DECONTAMINATION WATER (720-91190-1)	2/5/19	13:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
IDW-PURGE WATER (720-91190-2)	2/5/19	14.00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-02.05.19 (720-91190-3)	2/5/19	Pacific		Water			X	X			2	check for 2 phases
FB-02.05.19 (720-91190-4)	2/5/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		2/6/19 1407	TAPS		2/7/19 1045	TAMV
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 4786 4574 3790 | Cooler Temperature(s) °C and Other Remarks: 1.8/2.2 IR89

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91190-1

Login Number: 91190
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91190-1

Login Number: 91190
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 02/07/19 02:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91190-1

Login Number: 91190
List Number: 3
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 02/07/19 02:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, February 07, 2019 11:23 AM
To: Bondoc, Christian M.; Anthony Smith; Bill Chen; Krzysztof Jesionek; Patel, Urvashi
Subject: RE: TestAmerica sample confirmation files from 720-91191-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Yes I agree with the process of elimination.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

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From: Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Sent: Thursday, February 7, 2019 10:25 AM
To: Anthony Smith <TSmith@Geosyntec.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Subject: RE: TestAmerica sample confirmation files from 720-91191-1 Brisbane OU-2 Data Gap Investigation

Hello Tony,

Analysis has been cancelled for the TB and FB on 91190 and the 2 IDW samples from 91191 are being migrated to 91190.

Additionally, for job 720-91191 please note that the following sample was received with both 8 oz & 2 oz jars in the same plastic bag, however both jars did not have sample labels or sample ID's on the jars: DG-AA3S-7-7.5. This was labeled by process of elimination.

Please confirm if this is correct.

Thank You,

Christian Bondoc

Phone: 949-261-1022
Direct: 949-260-3271

E-mail: Christian.bondoc@testamericainc.com

From: Anthony Smith [mailto:TSmith@Geosyntec.com]
Sent: Thursday, February 07, 2019 9:46 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Miranda Kahrilas; Patel, Urvashi
Subject: RE: TestAmerica sample confirmation files from 720-91191-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Christian,
Please move samples 11 and 12 (IDW Soil and IDW Oily Soil) from job 91191 to 91190, and cancel TB-02.05.19 and FB-02.05.19 on 91190.
Thanks.

Tony Smith, Ph.D., P.E. (CA)
Senior Engineer

Geosyntec Consultants
1111 Broadway, 6th Floor
Oakland, CA 94607
Direct: (510) 285-2770
tsmith@geosyntec.com

From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Thursday, February 7, 2019 9:11 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: TestAmerica sample confirmation files from 720-91191-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-91191-1; Brisbane OU-2 Data Gap Investigation

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [500688]
Attachments: 3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-91191-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
2/21/2019 4:48:44 PM
Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91191-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-91191-1

Comments
No additional comments.

Receipt
The samples were received on 2/5/2019 6:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.8º C and 1.1º C.

Receipt Exceptions
Per client instructions via email, samples IDW-SOIL and IDW-OIL-AREA SOIL were removed from this job and reported under job 720-91190-1

The following sample was received with both 8 oz & 2oz jars in the same plastic bag, both jars did not have samples labels or sample ID's on the jars: DG-AA3S-7-7.5. The sample was identified by process of elimination and labeled accordingly.

GC/MS VOA
Method 8260B/CA_LUFTMS: Internal standard (ISTD) response for TBA-d9 for the following sample was outside acceptance criteria: (LCS 440-528164/8). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528100 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene and/or 2-Butanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528653 recovered above the upper control limit for 1,1-Dichloroethene and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-528653 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 720-259962 and analytical batch 720-260120 was outside control limits. Sample matrix interference is suspected.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD, 4,4'-DDT, Dieldrin & alpha-Chlordane for the following sample: DG-AA3S-0.5-1 (720-91191-4). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDE, 4,4'-DDD & Dieldrin for the following sample: DG-Y3S-0.5-1 (720-91191-2). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: Surrogate recovery for the following sample was outside control limits: DG-Y3S-0.5-1 (720-91191-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The following sample was diluted due to color: DG-Y3S-0.5-1 (720-91191-2). Elevated reporting limits (RL) are provided.

Method 8082: The continuing calibration verification (CCV) associated with batch 440-527893 recovered above the upper control limit for Aroclor 1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-W3S-3.5-4 (720-91191-1), DG-Y3S-3.5-4 (720-91191-3), DG-AA3S-7-7.5 (720-91191-6), DG-W3S-0.5-1 (720-91191-7) and (CCVIS 440-527893/9).

Job ID: 720-91191-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method 8082: The following sample required a copper clean-up to reduce matrix interferences caused by sulfur: DG-Y3S-0.5-1 (720-91191-2), DG-AA3S-0.5-1 (720-91191-4) and DG-AA3S-3.5-4 (720-91191-5).

Method 8082: Surrogate recovery for the following samples was outside control limits: DG-Y3S-0.5-1 (720-91191-2) and DG-AA3S-0.5-1 (720-91191-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91191-1

Client Sample ID: DG-W3S-3.5-4 — Lab Sample ID: 720-91191-1

No Detections.

Client Sample ID: DG-Y3S-0.5-1 — Lab Sample ID: 720-91191-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	7.1	p	3.9	1.2	ug/Kg	2		8081A	Total/NA
4,4'-DDE	4.5	p	3.9	0.82	ug/Kg	2		8081A	Total/NA
4,4'-DDT	35	p	3.9	0.80	ug/Kg	2		8081A	Total/NA
Dieldrin	25	p	3.9	1.2	ug/Kg	2		8081A	Total/NA
Aroclor 1260	210		50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: DG-Y3S-3.5-4 — Lab Sample ID: 720-91191-3

No Detections.

Client Sample ID: DG-AA3S-0.5-1 — Lab Sample ID: 720-91191-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	1.7	J p	1.9	0.58	ug/Kg	1		8081A	Total/NA
4,4'-DDE	1.9		1.9	0.40	ug/Kg	1		8081A	Total/NA
4,4'-DDT	3.8	p	1.9	0.39	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	0.57	J p	1.9	0.38	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	9.7	J	38	3.0	ug/Kg	1		8081A	Total/NA
Dieldrin	2.0	p	1.9	0.56	ug/Kg	1		8081A	Total/NA
gamma-Chlordane	0.82	J	1.9	0.44	ug/Kg	1		8081A	Total/NA
Aroclor 1260	270		50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: DG-AA3S-3.5-4 — Lab Sample ID: 720-91191-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1260	19	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: DG-AA3S-7-7.5 — Lab Sample ID: 720-91191-6

No Detections.

Client Sample ID: DG-W3S-0.5-1 — Lab Sample ID: 720-91191-7

No Detections.

Client Sample ID: DG-R15S-3.5-4 — Lab Sample ID: 720-91191-8

No Detections.

Client Sample ID: TB-02.05.19 — Lab Sample ID: 720-91191-9

No Detections.

Client Sample ID: FB-02.05.19 — Lab Sample ID: 720-91191-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	51		20	10	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-W3S-3.5-4
Date Collected: 02/05/19 11:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-1
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Aldrin	ND		2.0	0.50	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
alpha-BHC	ND		2.0	0.55	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Chlordane (technical)	ND		40	3.2	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
delta-BHC	ND		2.0	0.44	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Dieldrin	ND		2.0	0.59	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Endosulfan II	ND		2.0	0.49	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Endrin	ND		2.0	0.46	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Heptachlor	ND		2.0	0.46	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Methoxychlor	ND		2.0	0.68	ug/Kg		02/07/19 11:00	02/16/19 18:09	1
Toxaphene	ND		40	6.8	ug/Kg		02/07/19 11:00	02/16/19 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*21 - 136*	*02/07/19 11:00*	*02/16/19 18:09*	*1*
Tetrachloro-m-xylene	*75*		*21 - 145*	*02/07/19 11:00*	*02/16/19 18:09*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 13:33	1
Aroclor 1221	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 13:33	1
Aroclor 1232	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 13:33	1
Aroclor 1242	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 13:33	1
Aroclor 1248	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 13:33	1
Aroclor 1254	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 13:33	1
Aroclor 1260	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*	*02/08/19 12:55*	*02/11/19 13:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.05	%			02/07/19 15:13	1

Client Sample ID: DG-Y3S-0.5-1

Date Collected: 02/05/19 11:05
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-2

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**7.1**	**p**	3.9	1.2	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
4,4'-DDE	**4.5**	**p**	3.9	0.82	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
4,4'-DDT	**35**	**p**	3.9	0.80	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Aldrin	ND		3.9	0.98	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
alpha-BHC	ND		3.9	1.1	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
alpha-Chlordane	ND		3.9	0.78	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
beta-BHC	ND		3.9	0.71	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Chlordane (technical)	ND		78	6.3	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
delta-BHC	ND		3.9	0.86	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Dieldrin	**25**	**p**	3.9	1.2	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Endosulfan I	ND		3.9	0.63	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Endosulfan II	ND		3.9	0.96	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Endosulfan sulfate	ND		3.9	0.75	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Endrin	ND		3.9	0.90	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Endrin aldehyde	ND		3.9	1.2	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Endrin ketone	ND		3.9	0.65	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
gamma-BHC (Lindane)	ND		3.9	1.2	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
gamma-Chlordane	ND		3.9	0.90	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Heptachlor	ND		3.9	0.90	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Heptachlor epoxide	ND		3.9	0.69	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Methoxychlor	ND		3.9	1.3	ug/Kg		02/07/19 11:00	02/16/19 18:26	2
Toxaphene	ND		78	13	ug/Kg		02/07/19 11:00	02/16/19 18:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*289*	*X*	*21 - 136*	*02/07/19 11:00*	*02/16/19 18:26*	*2*
Tetrachloro-m-xylene	*103*		*21 - 145*	*02/07/19 11:00*	*02/16/19 18:26*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:58	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:58	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:58	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:58	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:58	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:58	1
Aroclor 1260	**210**		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*251*	*X*	*45 - 120*	*02/08/19 12:55*	*02/15/19 13:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10**		0.1	0.05	%			02/07/19 15:13	1

Client Sample ID: DG-Y3S-3.5-4

Date Collected: 02/05/19 11:05
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-3

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Aldrin	ND		1.9	0.47	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
alpha-BHC	ND		1.9	0.52	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
beta-BHC	ND		1.9	0.34	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Chlordane (technical)	ND		38	3.0	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
delta-BHC	ND		1.9	0.42	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Dieldrin	ND		1.9	0.56	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Endosulfan I	ND		1.9	0.30	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Endosulfan II	ND		1.9	0.46	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Endrin	ND		1.9	0.44	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Endrin ketone	ND		1.9	0.31	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Heptachlor	ND		1.9	0.44	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Methoxychlor	ND		1.9	0.65	ug/Kg		02/07/19 11:00	02/15/19 11:37	1
Toxaphene	ND		38	6.5	ug/Kg		02/07/19 11:00	02/15/19 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*21 - 136*	*02/07/19 11:00*	*02/15/19 11:37*	*1*
Tetrachloro-m-xylene	*72*		*21 - 145*	*02/07/19 11:00*	*02/15/19 11:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:00	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:00	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:00	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:00	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:00	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:00	1
Aroclor 1260	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*	*02/08/19 12:55*	*02/11/19 14:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.3**		0.1	0.05	%			02/07/19 15:13	1

Client Sample ID: DG-AA3S-0.5-1

Date Collected: 02/05/19 11:15
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-4

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**1.7**	**J p**	1.9	0.58	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
4,4'-DDE	**1.9**		1.9	0.40	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
4,4'-DDT	**3.8**	**p**	1.9	0.39	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Aldrin	ND		1.9	0.47	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
alpha-BHC	ND		1.9	0.52	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
alpha-Chlordane	**0.57**	**J p**	1.9	0.38	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
beta-BHC	ND		1.9	0.34	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Chlordane (technical)	**9.7**	**J**	38	3.0	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
delta-BHC	ND		1.9	0.42	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Dieldrin	**2.0**	**p**	1.9	0.56	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Endosulfan I	ND		1.9	0.30	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Endosulfan II	ND		1.9	0.46	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Endrin	ND		1.9	0.44	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Endrin ketone	ND		1.9	0.31	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
gamma-Chlordane	**0.82**	**J**	1.9	0.44	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Heptachlor	ND		1.9	0.44	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Methoxychlor	ND		1.9	0.65	ug/Kg		02/07/19 11:00	02/15/19 11:54	1
Toxaphene	ND		38	6.5	ug/Kg		02/07/19 11:00	02/15/19 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*21 - 136*	*02/07/19 11:00*	*02/15/19 11:54*	*1*
Tetrachloro-m-xylene	*92*		*21 - 145*	*02/07/19 11:00*	*02/15/19 11:54*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:18	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:18	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:18	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:18	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:18	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:18	1
Aroclor 1260	**270**		50	17	ug/Kg		02/08/19 12:55	02/15/19 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*127*	*X*	*45 - 120*	*02/08/19 12:55*	*02/15/19 13:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.1**		0.1	0.05	%			02/07/19 15:13	1

Client Sample ID: DG-AA3S-3.5-4

Date Collected: 02/05/19 11:15
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-5

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Aldrin	ND		2.0	0.49	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Chlordane (technical)	ND		39	3.2	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Endrin	ND		2.0	0.45	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/07/19 11:00	02/15/19 12:10	1
Toxaphene	ND		39	6.7	ug/Kg		02/07/19 11:00	02/15/19 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*21 - 136*	*02/07/19 11:00*	*02/15/19 12:10*	*1*
Tetrachloro-m-xylene	*82*		*21 - 145*	*02/07/19 11:00*	*02/15/19 12:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 13:31	1
Aroclor 1221	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 13:31	1
Aroclor 1232	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 13:31	1
Aroclor 1242	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 13:31	1
Aroclor 1248	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 13:31	1
Aroclor 1254	ND		49	17	ug/Kg		02/08/19 12:55	02/15/19 13:31	1
Aroclor 1260	**19**	**J**	49	17	ug/Kg		02/08/19 12:55	02/15/19 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*45 - 120*	*02/08/19 12:55*	*02/15/19 13:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.05	%			02/07/19 15:13	1

Client Sample ID: DG-AA3S-7-7.5

Date Collected: 02/05/19 11:15
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-6

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.58	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
4,4'-DDE	ND		1.9	0.40	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
4,4'-DDT	ND		1.9	0.39	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Aldrin	ND		1.9	0.47	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
alpha-BHC	ND		1.9	0.52	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
alpha-Chlordane	ND		1.9	0.38	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
beta-BHC	ND		1.9	0.34	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Chlordane (technical)	ND		38	3.0	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
delta-BHC	ND		1.9	0.42	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Dieldrin	ND		1.9	0.56	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Endosulfan I	ND		1.9	0.30	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Endosulfan II	ND		1.9	0.46	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Endrin	ND		1.9	0.44	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Endrin aldehyde	ND		1.9	0.60	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Endrin ketone	ND		1.9	0.31	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
gamma-BHC (Lindane)	ND		1.9	0.60	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
gamma-Chlordane	ND		1.9	0.44	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Heptachlor	ND		1.9	0.44	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Heptachlor epoxide	ND		1.9	0.33	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Methoxychlor	ND		1.9	0.65	ug/Kg		02/07/19 11:00	02/15/19 12:27	1
Toxaphene	ND		38	6.5	ug/Kg		02/07/19 11:00	02/15/19 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*21 - 136*	*02/07/19 11:00*	*02/15/19 12:27*	*1*
Tetrachloro-m-xylene	*73*		*21 - 145*	*02/07/19 11:00*	*02/15/19 12:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:40	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:40	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:40	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:40	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:40	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:40	1
Aroclor 1260	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*02/08/19 12:55*	*02/11/19 14:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		0.1	0.05	%			02/07/19 15:13	1

Client Sample ID: DG-W3S-0.5-1

Date Collected: 02/05/19 11:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-7

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.60	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
4,4'-DDE	ND		2.0	0.41	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
4,4'-DDT	ND		2.0	0.40	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Aldrin	ND		2.0	0.49	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
alpha-BHC	ND		2.0	0.54	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
alpha-Chlordane	ND		2.0	0.39	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
beta-BHC	ND		2.0	0.35	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Chlordane (technical)	ND		39	3.2	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
delta-BHC	ND		2.0	0.43	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Dieldrin	ND		2.0	0.58	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Endosulfan II	ND		2.0	0.48	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Endrin	ND		2.0	0.45	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Endrin aldehyde	ND		2.0	0.62	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
gamma-BHC (Lindane)	ND		2.0	0.62	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
gamma-Chlordane	ND		2.0	0.45	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Heptachlor	ND		2.0	0.45	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Heptachlor epoxide	ND		2.0	0.34	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Methoxychlor	ND		2.0	0.67	ug/Kg		02/07/19 11:00	02/15/19 12:44	1
Toxaphene	ND		39	6.7	ug/Kg		02/07/19 11:00	02/15/19 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*21 - 136*	*02/07/19 11:00*	*02/15/19 12:44*	*1*
Tetrachloro-m-xylene	*96*		*21 - 145*	*02/07/19 11:00*	*02/15/19 12:44*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 14:53	1
Aroclor 1221	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 14:53	1
Aroclor 1232	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 14:53	1
Aroclor 1242	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 14:53	1
Aroclor 1248	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 14:53	1
Aroclor 1254	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 14:53	1
Aroclor 1260	ND		49	17	ug/Kg		02/08/19 12:55	02/11/19 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*45 - 120*	*02/08/19 12:55*	*02/11/19 14:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.05	%			02/07/19 15:13	1

Client Sample ID: DG-R15S-3.5-4

Date Collected: 02/05/19 07:40
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-8

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		69	48	ug/Kg		02/05/19 20:00	02/12/19 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*60 - 120*	*02/05/19 20:00*	*02/12/19 15:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*02/05/19 20:00*	*02/12/19 15:53*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*	*02/05/19 20:00*	*02/12/19 15:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		6.9	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,1,1-Trichloroethane	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,1,2-Trichloroethane	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,1-Dichloroethane	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,1-Dichloroethene	ND		1.4	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,1-Dichloropropene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,2,3-Trichlorobenzene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,2,4-Trichlorobenzene	ND		3.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,2,4-Trimethylbenzene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,2-Dibromo-3-Chloropropane	ND		3.4	1.4	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,2-Dichlorobenzene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,2-Dichloroethane	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,2-Dichloropropane	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,3,5-Trimethylbenzene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,3-Dichlorobenzene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,3-Dichloropropane	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,4-Dichlorobenzene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
2,2-Dichloropropane	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
2-Chlorotoluene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
2-Hexanone	ND		6.9	3.4	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
4-Chlorotoluene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
4-Isopropyltoluene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Benzene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Bromobenzene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Bromoform	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Bromomethane	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Carbon disulfide	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Carbon tetrachloride	ND		1.4	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Chlorobenzene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Chlorobromomethane	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Chloroethane	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Chloroform	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Chloromethane	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
cis-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
cis-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Chlorodibromomethane	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Dibromomethane	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Dichlorobromomethane	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1

Client Sample ID: DG-R15S-3.5-4
Date Collected: 02/05/19 07:40
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Ethylbenzene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Hexachlorobutadiene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Isopropylbenzene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Methylene Chloride	ND		6.9	3.4	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Methyl tert-butyl ether	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Naphthalene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
n-Butylbenzene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
N-Propylbenzene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
sec-Butylbenzene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Styrene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
tert-Butylbenzene	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Tetrachloroethene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Toluene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
trans-1,2-Dichloroethene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
trans-1,3-Dichloropropene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Trichloroethene	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Trichlorofluoromethane	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.9	3.4	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Vinyl acetate	ND		5.5	2.8	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Vinyl chloride	ND		1.4	0.69	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Xylenes, Total	ND		1.4	0.90	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
Ethylene Dibromide	ND		0.69	0.34	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
2-Butanone (MEK)	ND		6.9	3.4	ug/Kg		02/05/19 20:00	02/12/19 15:53	1
4-Methyl-2-pentanone (MIBK)	ND		3.4	1.7	ug/Kg		02/05/19 20:00	02/12/19 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*79 - 123*	*02/05/19 20:00*	*02/12/19 15:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*02/05/19 20:00*	*02/12/19 15:53*	*1*

Client Sample ID: TB-02.05.19
Date Collected: 02/05/19 00:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-9
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*02/14/19 17:45*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*02/14/19 17:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 17:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Acetone	ND		20	10	ug/L			02/14/19 17:45	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 17:45	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 17:45	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 17:45	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 17:45	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 17:45	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 17:45	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 17:45	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 17:45	1

Client Sample ID: TB-02.05.19
Date Collected: 02/05/19 00:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 17:45	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 17:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 17:45	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 17:45	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 17:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 17:45	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 17:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 17:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 17:45	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 17:45	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 17:45	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*02/14/19 17:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 17:45*	*1*

Client Sample ID: FB-02.05.19
Date Collected: 02/05/19 00:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-10
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*02/14/19 18:11*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/14/19 18:11*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 18:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Acetone	**51**		20	10	ug/L			02/14/19 18:11	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 18:11	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 18:11	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 18:11	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 18:11	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 18:11	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 18:11	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 18:11	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 18:11	1

Client Sample ID: FB-02.05.19
Date Collected: 02/05/19 00:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 18:11	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 18:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 18:11	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 18:11	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 18:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 18:11	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 18:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 18:11	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 18:11	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 18:11	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*02/14/19 18:11*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 18:11*	*1*

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91191-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(79-123)
440-231902-A-1 MS	Matrix Spike	91	93
440-231902-A-1 MSD	Matrix Spike Duplicate	91	94
720-91191-8	DG-R15S-3.5-4	94	96
LCS 440-528100/5	Lab Control Sample	91	94
MB 440-528100/7	Method Blank	94	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCA	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-128)
440-232894-C-12 MS	Matrix Spike	114	96
440-232894-C-12 MSD	Matrix Spike Duplicate	115	96
720-91191-9	TB-02.05.19	115	97
720-91191-10	FB-02.05.19	120	97
LCS 440-528653/5	Lab Control Sample	118	96
MB 440-528653/4	Method Blank	115	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(60-120)	(79-120)	(79-123)
440-231902-A-1 MS	Matrix Spike	98	95	93
440-231902-A-1 MSD	Matrix Spike Duplicate	98	96	94
720-91191-8	DG-R15S-3.5-4	98	99	96
LCS 440-528164/8	Lab Control Sample	99	98	94
MB 440-528164/7	Method Blank	97	99	96

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91191-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(76-132)	(80-120)	(80-128)
440-232894-C-12 MS	Matrix Spike	111	91	96
440-232894-C-12 MSD	Matrix Spike Duplicate	112	86	96
720-91191-9	TB-02.05.19	113	87	97
720-91191-10	FB-02.05.19	114	89	97
LCS 440-528654/6	Lab Control Sample	113	90	97
MB 440-528654/4	Method Blank	110	89	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-91191-1	DG-W3S-3.5-4	104	75
720-91191-3	DG-Y3S-3.5-4	102	72
720-91191-4	DG-AA3S-0.5-1	108	92
720-91191-5	DG-AA3S-3.5-4	98	82
720-91191-6	DG-AA3S-7-7.5	90	73
720-91191-7	DG-W3S-0.5-1	98	96
720-91216-A-4-B MS	Matrix Spike	88	98
MB 720-259962/1-A	Method Blank	106	75

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(21-136)	(21-145)
720-91191-2	DG-Y3S-0.5-1	289 X	103
720-91216-A-4-C MSD	Matrix Spike Duplicate	89	96
LCS 720-259962/2-A	Lab Control Sample	115	88

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91191-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCB2 (45-120)								
720-91191-1	DG-W3S-3.5-4	75								
720-91191-1 MS	DG-W3S-3.5-4	75								
720-91191-1 MSD	DG-W3S-3.5-4	71								
720-91191-2	DG-Y3S-0.5-1	251 X								
720-91191-3	DG-Y3S-3.5-4	83								
720-91191-4	DG-AA3S-0.5-1	127 X								
720-91191-5	DG-AA3S-3.5-4	100								
720-91191-6	DG-AA3S-7-7.5	74								
720-91191-7	DG-W3S-0.5-1	84								
LCS 440-527643/2-A	Lab Control Sample	78								
MB 440-527643/1-A	Method Blank	103								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-528100/7
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
1,3-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
4-Chlorotoluene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,4-Dichlorobenzene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
1,3-Dichloropropane	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Benzene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
1,1-Dichloropropene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Bromobenzene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/12/19 10:08	1
Bromoform	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Bromomethane	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Carbon disulfide	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Carbon tetrachloride	ND		2.0	0.50	ug/Kg			02/12/19 10:08	1
1,1-Dichloroethane	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Chlorobenzene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
1,2-Dichloroethane	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Chlorobromomethane	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,1-Dichloroethene	ND		2.0	0.50	ug/Kg			02/12/19 10:08	1
Chloroethane	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Chloroform	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Chloromethane	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,2-Dichloropropane	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
cis-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
cis-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Chlorodibromomethane	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Dibromomethane	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Dichlorobromomethane	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
2-Hexanone	ND		10	5.0	ug/Kg			02/12/19 10:08	1
Dichlorodifluoromethane	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Ethylbenzene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
4-Isopropyltoluene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Hexachlorobutadiene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Isopropylbenzene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Methylene Chloride	ND		10	5.0	ug/Kg			02/12/19 10:08	1
Methyl tert-butyl ether	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Naphthalene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
n-Butylbenzene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
N-Propylbenzene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
sec-Butylbenzene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Styrene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/12/19 10:08	1
tert-Butylbenzene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,1,1-Trichloroethane	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Tetrachloroethene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528100/7
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Toluene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/12/19 10:08	1
trans-1,3-Dichloropropene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
Trichloroethene	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Trichlorofluoromethane	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	5.0	ug/Kg			02/12/19 10:08	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Vinyl acetate	ND		8.0	4.0	ug/Kg			02/12/19 10:08	1
Vinyl chloride	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1
Ethylene Dibromide	ND		1.0	0.50	ug/Kg			02/12/19 10:08	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/12/19 10:08	1
Xylenes, Total	ND		2.0	1.3	ug/Kg			02/12/19 10:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/Kg			02/12/19 10:08	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/12/19 10:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*02/12/19 10:08*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*02/12/19 10:08*	*1*

Lab Sample ID: LCS 440-528100/5
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	20.0	18.7		ug/Kg		93	70 - 125
1,2-Dichlorobenzene	20.0	19.7		ug/Kg		99	75 - 120
1,3-Dichlorobenzene	20.0	19.8		ug/Kg		99	75 - 125
4-Chlorotoluene	20.0	18.7		ug/Kg		93	75 - 125
1,4-Dichlorobenzene	20.0	19.4		ug/Kg		97	75 - 120
1,3-Dichloropropane	20.0	19.8		ug/Kg		99	70 - 125
Benzene	20.0	19.3		ug/Kg		97	65 - 120
1,1-Dichloropropene	20.0	17.8		ug/Kg		89	70 - 130
Bromobenzene	20.0	20.5		ug/Kg		103	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.2		ug/Kg		96	50 - 135
Bromoform	20.0	21.6		ug/Kg		108	55 - 135
Bromomethane	20.0	18.2		ug/Kg		91	60 - 145
Carbon disulfide	20.0	17.2		ug/Kg		86	50 - 130
Carbon tetrachloride	20.0	16.7		ug/Kg		84	65 - 140
1,1-Dichloroethane	20.0	18.8		ug/Kg		94	70 - 130
Chlorobenzene	20.0	19.2		ug/Kg		96	75 - 120
1,2-Dichloroethane	20.0	17.3		ug/Kg		86	60 - 140
Chlorobromomethane	20.0	22.0		ug/Kg		110	70 - 135
1,1-Dichloroethene	20.0	17.7		ug/Kg		88	70 - 125
Chloroethane	20.0	16.6		ug/Kg		83	60 - 140
Chloroform	20.0	18.7		ug/Kg		93	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528100/5
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	12.8		ug/Kg		64	45 - 145
1,2-Dichloropropane	20.0	20.9		ug/Kg		105	70 - 130
cis-1,2-Dichloroethene	20.0	19.7		ug/Kg		98	70 - 125
cis-1,3-Dichloropropene	20.0	20.0		ug/Kg		100	75 - 125
Chlorodibromomethane	20.0	20.1		ug/Kg		101	65 - 140
Dibromomethane	20.0	20.5		ug/Kg		102	70 - 130
Dichlorobromomethane	20.0	19.1		ug/Kg		95	70 - 135
2-Hexanone	20.0	18.6		ug/Kg		93	40 - 150
Dichlorodifluoromethane	20.0	11.9		ug/Kg		60	35 - 160
Ethylbenzene	20.0	18.2		ug/Kg		91	70 - 125
4-Isopropyltoluene	20.0	19.8		ug/Kg		99	75 - 125
Hexachlorobutadiene	20.0	18.8		ug/Kg		94	60 - 135
Isopropylbenzene	20.0	19.0		ug/Kg		95	75 - 130
Methylene Chloride	20.0	16.1		ug/Kg		81	55 - 135
Methyl tert-butyl ether	20.0	20.1		ug/Kg		101	60 - 140
Naphthalene	20.0	20.2		ug/Kg		101	55 - 135
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/Kg		99	70 - 130
n-Butylbenzene	20.0	18.1		ug/Kg		91	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.0		ug/Kg		110	55 - 140
N-Propylbenzene	20.0	18.9		ug/Kg		94	70 - 130
sec-Butylbenzene	20.0	19.4		ug/Kg		97	70 - 125
1,2,3-Trichlorobenzene	20.0	19.8		ug/Kg		99	60 - 130
Styrene	20.0	18.5		ug/Kg		92	75 - 130
1,2,4-Trichlorobenzene	20.0	20.0		ug/Kg		100	70 - 135
tert-Butylbenzene	20.0	18.4		ug/Kg		92	70 - 125
1,1,1-Trichloroethane	20.0	16.5		ug/Kg		83	65 - 135
Tetrachloroethene	20.0	17.9		ug/Kg		90	70 - 125
1,1,2-Trichloroethane	20.0	20.3		ug/Kg		102	65 - 135
Toluene	20.0	18.5		ug/Kg		93	70 - 125
trans-1,2-Dichloroethene	20.0	18.8		ug/Kg		94	70 - 125
1,2,3-Trichloropropane	20.0	21.8		ug/Kg		109	60 - 135
trans-1,3-Dichloropropene	20.0	19.2		ug/Kg		96	70 - 135
Trichloroethene	20.0	19.7		ug/Kg		98	70 - 125
1,2,4-Trimethylbenzene	20.0	19.1		ug/Kg		96	70 - 125
Trichlorofluoromethane	20.0	16.7		ug/Kg		84	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.7		ug/Kg		88	60 - 140
1,3,5-Trimethylbenzene	20.0	18.9		ug/Kg		95	70 - 125
Vinyl acetate	20.0	19.1		ug/Kg		96	45 - 145
Vinyl chloride	20.0	12.8		ug/Kg		64	55 - 135
m-Xylene & p-Xylene	20.0	19.1		ug/Kg		96	70 - 125
Ethylene Dibromide	20.0	21.0		ug/Kg		105	70 - 130
o-Xylene	20.0	18.8		ug/Kg		94	70 - 125
2-Butanone (MEK)	20.0	21.4		ug/Kg		107	40 - 145
4-Methyl-2-pentanone (MIBK)	20.0	19.0		ug/Kg		95	40 - 145
2,2-Dichloropropane	20.0	16.7		ug/Kg		83	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528100/5
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: 440-231902-A-1 MS
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		20.0	20.2		ug/Kg		101	60 - 135
1,2-Dichlorobenzene	ND		20.0	20.2		ug/Kg		101	70 - 130
1,3-Dichlorobenzene	ND		20.0	20.5		ug/Kg		102	70 - 130
4-Chlorotoluene	ND		20.0	20.1		ug/Kg		100	65 - 135
1,4-Dichlorobenzene	ND		20.0	20.2		ug/Kg		101	70 - 130
1,3-Dichloropropane	ND		20.0	19.5		ug/Kg		98	65 - 140
Benzene	ND		20.0	21.0		ug/Kg		105	65 - 130
1,1-Dichloropropene	ND		20.0	20.9		ug/Kg		105	65 - 135
Bromobenzene	ND		20.0	20.5		ug/Kg		102	65 - 140
1,2-Dibromo-3-Chloropropane	ND		20.0	19.3		ug/Kg		96	40 - 150
Bromoform	ND		20.0	21.0		ug/Kg		105	50 - 145
Bromomethane	ND		20.0	19.0		ug/Kg		95	60 - 155
Carbon disulfide	ND		20.0	19.8		ug/Kg		99	40 - 140
Carbon tetrachloride	ND		20.0	20.4		ug/Kg		102	60 - 145
1,1-Dichloroethane	ND		20.0	20.1		ug/Kg		101	65 - 135
Chlorobenzene	ND		20.0	20.3		ug/Kg		102	70 - 130
1,2-Dichloroethane	ND		20.0	17.4		ug/Kg		87	60 - 150
Chlorobromomethane	ND		20.0	22.5		ug/Kg		113	65 - 145
1,1-Dichloroethene	ND		20.0	21.6		ug/Kg		108	65 - 135
Chloroethane	ND		20.0	19.2		ug/Kg		96	60 - 150
Chloroform	ND		20.0	19.9		ug/Kg		100	65 - 135
Chloromethane	ND		20.0	13.9		ug/Kg		69	40 - 145
1,2-Dichloropropane	ND		20.0	21.8		ug/Kg		109	65 - 130
cis-1,2-Dichloroethene	ND		20.0	20.6		ug/Kg		103	65 - 135
cis-1,3-Dichloropropene	ND		20.0	19.7		ug/Kg		99	70 - 135
Chlorodibromomethane	ND		20.0	20.8		ug/Kg		104	60 - 145
Dibromomethane	ND		20.0	20.6		ug/Kg		103	65 - 140
Dichlorobromomethane	ND		20.0	19.7		ug/Kg		99	65 - 145
2-Hexanone	ND		20.0	18.6		ug/Kg		93	35 - 160
Dichlorodifluoromethane	ND		20.0	15.1		ug/Kg		76	30 - 160
Ethylbenzene	ND		20.0	20.4		ug/Kg		102	70 - 135
4-Isopropyltoluene	ND		20.0	21.4		ug/Kg		107	60 - 140
Hexachlorobutadiene	ND		20.0	17.5		ug/Kg		87	50 - 145
Isopropylbenzene	ND		20.0	21.3		ug/Kg		107	70 - 145
Methylene Chloride	ND		20.0	16.5		ug/Kg		83	55 - 145
Methyl tert-butyl ether	ND		20.0	19.7		ug/Kg		98	55 - 155
Naphthalene	2.6		20.0	22.9		ug/Kg		101	40 - 150
1,1,1,2-Tetrachloroethane	ND		20.0	20.7		ug/Kg		103	65 - 145
n-Butylbenzene	ND		20.0	19.5		ug/Kg		98	55 - 145
1,1,2,2-Tetrachloroethane	ND		20.0	21.1		ug/Kg		105	40 - 160

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231902-A-1 MS
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	ND		20.0	21.3		ug/Kg		106	65 - 140
sec-Butylbenzene	ND		20.0	21.6		ug/Kg		108	60 - 135
1,2,3-Trichlorobenzene	ND		20.0	19.8		ug/Kg		99	45 - 145
Styrene	ND		20.0	19.3		ug/Kg		96	70 - 140
1,2,4-Trichlorobenzene	ND		20.0	19.9		ug/Kg		99	50 - 140
tert-Butylbenzene	ND		20.0	20.8		ug/Kg		104	60 - 140
1,1,1-Trichloroethane	ND		20.0	19.4		ug/Kg		97	65 - 145
Tetrachloroethene	ND		20.0	20.8		ug/Kg		104	65 - 135
1,1,2-Trichloroethane	ND		20.0	20.6		ug/Kg		103	65 - 140
Toluene	ND		20.0	20.2		ug/Kg		101	70 - 130
trans-1,2-Dichloroethene	ND		20.0	21.6		ug/Kg		108	70 - 135
1,2,3-Trichloropropane	ND		20.0	20.3		ug/Kg		102	50 - 150
trans-1,3-Dichloropropene	ND		20.0	19.2		ug/Kg		96	60 - 145
Trichloroethene	ND		20.0	22.6		ug/Kg		113	65 - 140
1,2,4-Trimethylbenzene	ND		20.0	20.3		ug/Kg		102	65 - 140
Trichlorofluoromethane	ND		20.0	20.6		ug/Kg		103	55 - 155
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	21.9		ug/Kg		109	60 - 140
1,3,5-Trimethylbenzene	ND		20.0	21.0		ug/Kg		105	65 - 135
Vinyl acetate	ND		20.0	18.9		ug/Kg		95	40 - 150
Vinyl chloride	ND		20.0	15.5		ug/Kg		77	55 - 140
m-Xylene & p-Xylene	ND		20.0	20.9		ug/Kg		104	70 - 130
Ethylene Dibromide	ND		20.0	20.8		ug/Kg		104	65 - 140
o-Xylene	ND		20.0	20.2		ug/Kg		101	65 - 130
2-Butanone (MEK)	ND		20.0	20.5		ug/Kg		102	25 - 170
4-Methyl-2-pentanone (MIBK)	ND		20.0	18.2		ug/Kg		91	40 - 155
2,2-Dichloropropane	ND		20.0	20.2		ug/Kg		101	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*93*		*79 - 123*

Lab Sample ID: 440-231902-A-1 MSD
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND		20.0	18.8		ug/Kg		94	60 - 135	7	25
1,2-Dichlorobenzene	ND		20.0	19.2		ug/Kg		96	70 - 130	5	25
1,3-Dichlorobenzene	ND		20.0	19.4		ug/Kg		97	70 - 130	5	25
4-Chlorotoluene	ND		20.0	18.7		ug/Kg		94	65 - 135	7	25
1,4-Dichlorobenzene	ND		20.0	19.0		ug/Kg		95	70 - 130	6	25
1,3-Dichloropropane	ND		20.0	18.5		ug/Kg		93	65 - 140	6	25
Benzene	ND		20.0	20.0		ug/Kg		100	65 - 130	5	20
1,1-Dichloropropene	ND		20.0	19.9		ug/Kg		100	65 - 135	5	20
Bromobenzene	ND		20.0	19.2		ug/Kg		96	65 - 140	6	25
1,2-Dibromo-3-Chloropropane	ND		20.0	17.5		ug/Kg		88	40 - 150	10	30
Bromoform	ND		20.0	19.9		ug/Kg		99	50 - 145	6	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231902-A-1 MSD
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		20.0	18.0		ug/Kg		90	60 - 155	5	25
Carbon disulfide	ND		20.0	18.3		ug/Kg		92	40 - 140	8	20
Carbon tetrachloride	ND		20.0	19.4		ug/Kg		97	60 - 145	5	25
1,1-Dichloroethane	ND		20.0	19.0		ug/Kg		95	65 - 135	6	25
Chlorobenzene	ND		20.0	19.1		ug/Kg		96	70 - 130	6	25
1,2-Dichloroethane	ND		20.0	16.5		ug/Kg		82	60 - 150	5	25
Chlorobromomethane	ND		20.0	20.9		ug/Kg		105	65 - 145	7	25
1,1-Dichloroethene	ND		20.0	20.2		ug/Kg		101	65 - 135	7	25
Chloroethane	ND		20.0	17.7		ug/Kg		89	60 - 150	8	25
Chloroform	ND		20.0	18.6		ug/Kg		93	65 - 135	7	20
Chloromethane	ND		20.0	13.2		ug/Kg		66	40 - 145	5	25
1,2-Dichloropropane	ND		20.0	20.8		ug/Kg		104	65 - 130	5	20
cis-1,2-Dichloroethene	ND		20.0	19.6		ug/Kg		98	65 - 135	5	25
cis-1,3-Dichloropropene	ND		20.0	19.0		ug/Kg		95	70 - 135	4	25
Chlorodibromomethane	ND		20.0	19.6		ug/Kg		98	60 - 145	6	25
Dibromomethane	ND		20.0	19.2		ug/Kg		96	65 - 140	7	25
Dichlorobromomethane	ND		20.0	18.6		ug/Kg		93	65 - 145	6	20
2-Hexanone	ND		20.0	17.7		ug/Kg		89	35 - 160	5	40
Dichlorodifluoromethane	ND		20.0	14.4		ug/Kg		72	30 - 160	5	35
Ethylbenzene	ND		20.0	18.9		ug/Kg		95	70 - 135	8	25
4-Isopropyltoluene	ND		20.0	20.1		ug/Kg		101	60 - 140	7	25
Hexachlorobutadiene	ND		20.0	16.7		ug/Kg		84	50 - 145	4	35
Isopropylbenzene	ND		20.0	20.1		ug/Kg		101	70 - 145	6	25
Methylene Chloride	ND		20.0	16.2		ug/Kg		81	55 - 145	2	25
Methyl tert-butyl ether	ND		20.0	18.4		ug/Kg		92	55 - 155	7	35
Naphthalene	2.6		20.0	22.2		ug/Kg		98	40 - 150	3	40
1,1,1,2-Tetrachloroethane	ND		20.0	19.6		ug/Kg		98	65 - 145	5	20
n-Butylbenzene	ND		20.0	18.7		ug/Kg		94	55 - 145	4	30
1,1,2,2-Tetrachloroethane	ND		20.0	20.6		ug/Kg		103	40 - 160	2	30
N-Propylbenzene	ND		20.0	19.9		ug/Kg		100	65 - 140	7	25
sec-Butylbenzene	ND		20.0	20.7		ug/Kg		103	60 - 135	5	25
1,2,3-Trichlorobenzene	ND		20.0	19.4		ug/Kg		97	45 - 145	2	30
Styrene	ND		20.0	18.0		ug/Kg		90	70 - 140	7	25
1,2,4-Trichlorobenzene	ND		20.0	19.6		ug/Kg		98	50 - 140	1	30
tert-Butylbenzene	ND		20.0	19.5		ug/Kg		97	60 - 140	6	25
1,1,1-Trichloroethane	ND		20.0	18.5		ug/Kg		93	65 - 145	5	20
Tetrachloroethene	ND		20.0	19.7		ug/Kg		99	65 - 135	5	25
1,1,2-Trichloroethane	ND		20.0	19.5		ug/Kg		98	65 - 140	5	30
Toluene	ND		20.0	19.1		ug/Kg		96	70 - 130	5	20
trans-1,2-Dichloroethene	ND		20.0	19.8		ug/Kg		99	70 - 135	9	25
1,2,3-Trichloropropane	ND		20.0	19.1		ug/Kg		96	50 - 150	6	30
trans-1,3-Dichloropropene	ND		20.0	18.1		ug/Kg		91	60 - 145	6	25
Trichloroethene	ND		20.0	21.3		ug/Kg		107	65 - 140	6	25
1,2,4-Trimethylbenzene	ND		20.0	19.4		ug/Kg		97	65 - 140	5	25
Trichlorofluoromethane	ND		20.0	19.7		ug/Kg		98	55 - 155	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	20.6		ug/Kg		103	60 - 140	6	40
1,3,5-Trimethylbenzene	ND		20.0	19.3		ug/Kg		97	65 - 135	9	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-231902-A-1 MSD
Matrix: Solid
Analysis Batch: 528100

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	ND		20.0	18.1		ug/Kg		91	40 - 150	5	30
Vinyl chloride	ND		20.0	14.5		ug/Kg		73	55 - 140	6	30
m-Xylene & p-Xylene	ND		20.0	19.1		ug/Kg		96	70 - 130	9	25
Ethylene Dibromide	ND		20.0	19.4		ug/Kg		97	65 - 140	7	25
o-Xylene	ND		20.0	19.1		ug/Kg		96	65 - 130	5	25
2-Butanone (MEK)	ND		20.0	18.7		ug/Kg		94	25 - 170	9	40
4-Methyl-2-pentanone (MIBK)	ND		20.0	16.5		ug/Kg		82	40 - 155	10	40
2,2-Dichloropropane	ND		20.0	18.3		ug/Kg		92	65 - 150	10	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: MB 440-528653/4
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	10	ug/L			02/14/19 08:25	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Benzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Bromobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/14/19 08:25	1
Bromoform	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Bromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/14/19 08:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chloroethane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Chloroform	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chloromethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Chlorodibromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Dibromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Dichlorobromomethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
2-Hexanone	ND		5.0	2.5	ug/L			02/14/19 08:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-528653/4
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Isopropylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/14/19 08:25	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Naphthalene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
n-Butylbenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
N-Propylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
Styrene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/14/19 08:25	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Toluene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			02/14/19 08:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Trichloroethene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/14/19 08:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.50	ug/L			02/14/19 08:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/14/19 08:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/14/19 08:25	1
Ethylene Dibromide	ND		0.50	0.25	ug/L			02/14/19 08:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/14/19 08:25	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/14/19 08:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/14/19 08:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/14/19 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*02/14/19 08:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 08:25*	*1*

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10.0	ND		ug/L		57	10 - 150
2-Chlorotoluene	10.0	9.06		ug/L		91	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
4-Chlorotoluene	10.0	9.11		ug/L		91	70 - 130
1,4-Dichlorobenzene	10.0	9.99		ug/L		100	70 - 130
1,3-Dichloropropane	10.0	9.65		ug/L		97	70 - 130
Benzene	10.0	9.53		ug/L		95	68 - 130
1,1-Dichloropropene	10.0	9.95		ug/L		99	70 - 130
Bromobenzene	10.0	10.1		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	9.32		ug/L		93	52 - 140
Bromoform	10.0	11.5		ug/L		115	60 - 148
Bromomethane	10.0	10.9		ug/L		109	64 - 139
Carbon disulfide	10.0	8.65		ug/L		86	52 - 136
Carbon tetrachloride	10.0	11.3		ug/L		113	60 - 150
1,1-Dichloroethane	10.0	9.55		ug/L		95	64 - 130
Chlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,2-Dichloroethane	10.0	11.5		ug/L		115	57 - 138
Chlorobromomethane	10.0	11.6		ug/L		116	70 - 130
1,1-Dichloroethene	10.0	10.8		ug/L		108	70 - 130
Chloroethane	10.0	8.76		ug/L		88	64 - 135
Chloroform	10.0	10.9		ug/L		109	70 - 130
Chloromethane	10.0	7.95		ug/L		79	47 - 140
1,2-Dichloropropane	10.0	9.45		ug/L		94	67 - 130
cis-1,2-Dichloroethene	10.0	9.92		ug/L		99	70 - 133
cis-1,3-Dichloropropene	10.0	9.52		ug/L		95	70 - 133
Chlorodibromomethane	10.0	11.1		ug/L		111	69 - 145
Dibromomethane	10.0	11.2		ug/L		112	70 - 130
Dichlorobromomethane	10.0	10.9		ug/L		109	70 - 132
2-Hexanone	10.0	8.50		ug/L		85	10 - 150
Dichlorodifluoromethane	10.0	10.6		ug/L		106	29 - 150
Ethylbenzene	10.0	9.40		ug/L		94	70 - 130
4-Isopropyltoluene	10.0	10.1		ug/L		101	70 - 132
Hexachlorobutadiene	10.0	11.5		ug/L		115	10 - 150
Isopropylbenzene	10.0	9.78		ug/L		98	70 - 136
Methylene Chloride	10.0	9.47		ug/L		95	52 - 130
Methyl tert-butyl ether	10.0	9.86		ug/L		99	63 - 131
Naphthalene	10.0	9.26		ug/L		93	60 - 140
1,1,1,2-Tetrachloroethane	10.0	10.7		ug/L		107	60 - 141
n-Butylbenzene	10.0	9.17		ug/L		92	65 - 150
1,1,2,2-Tetrachloroethane	10.0	8.81		ug/L		88	63 - 130
N-Propylbenzene	10.0	8.63		ug/L		86	67 - 139
sec-Butylbenzene	10.0	9.22		ug/L		92	70 - 138
1,2,3-Trichlorobenzene	10.0	10.5		ug/L		105	60 - 140
Styrene	10.0	9.26		ug/L		93	70 - 134
1,2,4-Trichlorobenzene	10.0	10.8		ug/L		108	60 - 140
tert-Butylbenzene	10.0	9.60		ug/L		96	70 - 130
1,1,1-Trichloroethane	10.0	11.6		ug/L		116	70 - 130
Tetrachloroethene	10.0	10.9		ug/L		109	70 - 130
1,1,2-Trichloroethane	10.0	9.53		ug/L		95	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-528653/5
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	10.0	9.06		ug/L		91	70 - 130
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 130
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	63 - 130
trans-1,3-Dichloropropene	10.0	9.80		ug/L		98	70 - 132
Trichloroethene	10.0	10.8		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	10.0	9.34		ug/L		93	70 - 135
Trichlorofluoromethane	10.0	13.4		ug/L		134	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.5		ug/L		115	60 - 140
1,3,5-Trimethylbenzene	10.0	9.34		ug/L		93	70 - 136
Vinyl acetate	10.0	8.49		ug/L		85	48 - 140
Vinyl chloride	10.0	8.94		ug/L		89	59 - 133
m-Xylene & p-Xylene	10.0	9.79		ug/L		98	70 - 130
Ethylene Dibromide	10.0	10.8		ug/L		108	70 - 130
o-Xylene	10.0	9.99		ug/L		100	70 - 130
2-Butanone (MEK)	10.0	8.12		ug/L		81	44 - 150
4-Methyl-2-pentanone (MIBK)	10.0	7.70		ug/L		77	59 - 149
2,2-Dichloropropane	10.0	10.8		ug/L		108	68 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150
2-Chlorotoluene	ND		10.0	8.79		ug/L		88	70 - 130
1,2-Dichlorobenzene	ND		10.0	9.81		ug/L		98	70 - 130
1,3-Dichlorobenzene	ND		10.0	9.99		ug/L		100	70 - 130
4-Chlorotoluene	ND		10.0	9.15		ug/L		92	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.93		ug/L		99	70 - 130
1,3-Dichloropropane	ND		10.0	8.98		ug/L		90	70 - 130
Benzene	ND		10.0	9.11		ug/L		91	66 - 130
1,1-Dichloropropene	ND		10.0	9.69		ug/L		97	64 - 130
Bromobenzene	ND		10.0	9.66		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.72		ug/L		87	48 - 140
Bromoform	ND		10.0	10.9		ug/L		109	59 - 150
Bromomethane	ND		10.0	10.9		ug/L		109	62 - 131
Carbon disulfide	ND		10.0	8.35		ug/L		84	49 - 140
Carbon tetrachloride	ND		10.0	11.3		ug/L		113	60 - 150
1,1-Dichloroethane	ND		10.0	9.02		ug/L		90	65 - 130
Chlorobenzene	ND		10.0	9.91		ug/L		99	70 - 130
1,2-Dichloroethane	ND		10.0	11.1		ug/L		111	56 - 146
Chlorobromomethane	ND		10.0	10.4		ug/L		104	70 - 130
1,1-Dichloroethene	ND		10.0	10.1		ug/L		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	ND		10.0	8.67		ug/L		87	68 - 130
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130
Chloromethane	ND		10.0	7.50		ug/L		75	39 - 144
1,2-Dichloropropane	ND		10.0	9.22		ug/L		92	69 - 130
cis-1,2-Dichloroethene	ND		10.0	9.49		ug/L		95	70 - 130
cis-1,3-Dichloropropene	ND		10.0	8.98		ug/L		90	70 - 133
Chlorodibromomethane	ND		10.0	10.9		ug/L		109	70 - 148
Dibromomethane	ND		10.0	10.5		ug/L		105	70 - 130
Dichlorobromomethane	ND		10.0	10.5		ug/L		105	70 - 138
2-Hexanone	ND		10.0	8.35		ug/L		83	10 - 150
Dichlorodifluoromethane	ND		10.0	10.8		ug/L		108	25 - 142
Ethylbenzene	ND		10.0	9.02		ug/L		90	70 - 130
4-Isopropyltoluene	ND		10.0	9.93		ug/L		99	70 - 130
Hexachlorobutadiene	ND		10.0	11.4		ug/L		114	10 - 150
Isopropylbenzene	ND		10.0	9.42		ug/L		94	70 - 132
Methylene Chloride	ND		10.0	9.06		ug/L		91	52 - 130
Methyl tert-butyl ether	4.6		10.0	13.9		ug/L		93	70 - 130
Naphthalene	ND		10.0	8.74		ug/L		87	60 - 140
1,1,1,2-Tetrachloroethane	ND		10.0	10.3		ug/L		103	60 - 149
n-Butylbenzene	ND		10.0	8.79		ug/L		88	61 - 149
1,1,2,2-Tetrachloroethane	ND		10.0	8.34		ug/L		83	63 - 130
N-Propylbenzene	ND		10.0	8.26		ug/L		83	66 - 135
sec-Butylbenzene	ND		10.0	8.91		ug/L		89	67 - 134
1,2,3-Trichlorobenzene	ND		10.0	10.1		ug/L		101	60 - 140
Styrene	ND		10.0	8.96		ug/L		90	29 - 150
1,2,4-Trichlorobenzene	ND		10.0	10.5		ug/L		105	60 - 140
tert-Butylbenzene	ND		10.0	9.83		ug/L		98	70 - 130
1,1,1-Trichloroethane	ND		10.0	10.8		ug/L		108	70 - 130
Tetrachloroethene	ND		10.0	10.5		ug/L		105	70 - 137
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130
Toluene	ND		10.0	8.65		ug/L		87	70 - 130
trans-1,2-Dichloroethene	ND		10.0	9.49		ug/L		95	70 - 130
1,2,3-Trichloropropane	ND		10.0	10.7		ug/L		107	60 - 130
trans-1,3-Dichloropropene	ND		10.0	9.29		ug/L		93	70 - 138
Trichloroethene	ND		10.0	10.8		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	ND		10.0	9.13		ug/L		91	70 - 130
Trichlorofluoromethane	ND		10.0	12.5		ug/L		125	60 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.8		ug/L		108	60 - 140
1,3,5-Trimethylbenzene	ND		10.0	9.13		ug/L		91	70 - 130
Vinyl acetate	ND		10.0	7.86		ug/L		79	23 - 150
Vinyl chloride	ND		10.0	9.89		ug/L		99	50 - 137
m-Xylene & p-Xylene	ND		10.0	9.53		ug/L		95	70 - 133
Ethylene Dibromide	ND		10.0	9.58		ug/L		96	70 - 131
o-Xylene	ND		10.0	9.44		ug/L		94	70 - 133
2-Butanone (MEK)	ND		10.0	8.50		ug/L		85	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.48		ug/L		85	52 - 150
2,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND	F1	10.0	ND	F1	ug/L		0	10 - 150	NC	35
2-Chlorotoluene	ND		10.0	8.72		ug/L		87	70 - 130	1	20
1,2-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	3	20
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	1	20
4-Chlorotoluene	ND		10.0	9.25		ug/L		92	70 - 130	1	20
1,4-Dichlorobenzene	ND		10.0	9.84		ug/L		98	70 - 130	1	20
1,3-Dichloropropane	ND		10.0	9.08		ug/L		91	70 - 130	1	25
Benzene	ND		10.0	9.11		ug/L		91	66 - 130	0	20
1,1-Dichloropropene	ND		10.0	9.84		ug/L		98	64 - 130	1	20
Bromobenzene	ND		10.0	9.86		ug/L		99	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		10.0	9.89		ug/L		99	48 - 140	13	30
Bromoform	ND		10.0	10.4		ug/L		104	59 - 150	5	25
Bromomethane	ND		10.0	11.5		ug/L		115	62 - 131	5	25
Carbon disulfide	ND		10.0	8.13		ug/L		81	49 - 140	3	20
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	60 - 150	1	25
1,1-Dichloroethane	ND		10.0	9.19		ug/L		92	65 - 130	2	20
Chlorobenzene	ND		10.0	9.88		ug/L		99	70 - 130	0	20
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	56 - 146	1	20
Chlorobromomethane	ND		10.0	10.7		ug/L		107	70 - 130	3	25
1,1-Dichloroethene	ND		10.0	10.0		ug/L		100	70 - 130	1	20
Chloroethane	ND		10.0	8.47		ug/L		85	68 - 130	2	25
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130	1	20
Chloromethane	ND		10.0	7.45		ug/L		75	39 - 144	1	25
1,2-Dichloropropane	ND		10.0	8.75		ug/L		87	69 - 130	5	20
cis-1,2-Dichloroethene	ND		10.0	9.82		ug/L		98	70 - 130	3	20
cis-1,3-Dichloropropene	ND		10.0	9.26		ug/L		93	70 - 133	3	20
Chlorodibromomethane	ND		10.0	10.8		ug/L		108	70 - 148	1	25
Dibromomethane	ND		10.0	10.7		ug/L		107	70 - 130	2	25
Dichlorobromomethane	ND		10.0	10.3		ug/L		103	70 - 138	2	20
2-Hexanone	ND		10.0	7.83		ug/L		78	10 - 150	6	35
Dichlorodifluoromethane	ND		10.0	10.9		ug/L		109	25 - 142	1	30
Ethylbenzene	ND		10.0	8.94		ug/L		89	70 - 130	1	20
4-Isopropyltoluene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
Hexachlorobutadiene	ND		10.0	11.8		ug/L		118	10 - 150	3	20
Isopropylbenzene	ND		10.0	9.36		ug/L		94	70 - 132	1	20
Methylene Chloride	ND		10.0	8.99		ug/L		90	52 - 130	1	20
Methyl tert-butyl ether	4.6		10.0	13.7		ug/L		91	70 - 130	2	25
Naphthalene	ND		10.0	9.19		ug/L		92	60 - 140	5	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.6		ug/L		106	60 - 149	3	20
n-Butylbenzene	ND		10.0	8.93		ug/L		89	61 - 149	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	ND		10.0	8.43		ug/L		84	63 - 130	1	30
N-Propylbenzene	ND		10.0	7.99		ug/L		80	66 - 135	3	20
sec-Butylbenzene	ND		10.0	8.85		ug/L		89	67 - 134	1	20
1,2,3-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140	2	20
Styrene	ND		10.0	8.89		ug/L		89	29 - 150	1	35
1,2,4-Trichlorobenzene	ND		10.0	11.0		ug/L		110	60 - 140	4	20
tert-Butylbenzene	ND		10.0	9.84		ug/L		98	70 - 130	0	20
1,1,1-Trichloroethane	ND		10.0	11.2		ug/L		112	70 - 130	3	20
Tetrachloroethene	ND		10.0	10.8		ug/L		108	70 - 137	3	20
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	1	25
Toluene	ND		10.0	8.67		ug/L		87	70 - 130	0	20
trans-1,2-Dichloroethene	ND		10.0	9.68		ug/L		97	70 - 130	2	20
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	60 - 130	2	30
trans-1,3-Dichloropropene	ND		10.0	9.08		ug/L		91	70 - 138	2	25
Trichloroethene	ND		10.0	10.5		ug/L		105	70 - 130	3	20
1,2,4-Trimethylbenzene	ND		10.0	9.11		ug/L		91	70 - 130	0	25
Trichlorofluoromethane	ND		10.0	13.5		ug/L		135	60 - 150	8	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.7		ug/L		107	60 - 140	1	20
1,3,5-Trimethylbenzene	ND		10.0	9.25		ug/L		93	70 - 130	1	20
Vinyl acetate	ND		10.0	7.87		ug/L		79	23 - 150	0	30
Vinyl chloride	ND		10.0	10.3		ug/L		103	50 - 137	4	30
m-Xylene & p-Xylene	ND		10.0	9.33		ug/L		93	70 - 133	2	25
Ethylene Dibromide	ND		10.0	10.1		ug/L		101	70 - 131	6	25
o-Xylene	ND		10.0	9.72		ug/L		97	70 - 133	3	20
2-Butanone (MEK)	ND		10.0	7.11		ug/L		71	48 - 140	18	40
4-Methyl-2-pentanone (MIBK)	ND		10.0	8.32		ug/L		83	52 - 150	2	35
2,2-Dichloropropane	ND		10.0	10.3		ug/L		103	69 - 138	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*96*		*80 - 128*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-528164/7
Matrix: Solid
Analysis Batch: 528164

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		100	70	ug/Kg			02/12/19 10:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*60 - 120*		*02/12/19 10:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*02/12/19 10:08*	*1*
Toluene-d8 (Surr)	*96*		*79 - 123*		*02/12/19 10:08*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-528164/8
Matrix: Solid
Analysis Batch: 528164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	1000	771		ug/Kg		77	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: 440-231902-A-1 MS
Matrix: Solid
Analysis Batch: 528164

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C4-C12	ND		1380	1450		ug/Kg		105	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*60 - 120*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*
Toluene-d8 (Surr)	*93*		*79 - 123*

Lab Sample ID: 440-231902-A-1 MSD
Matrix: Solid
Analysis Batch: 528164

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	ND		1380	1370		ug/Kg		99	55 - 140	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*60 - 120*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*
Toluene-d8 (Surr)	*94*		*79 - 123*

Lab Sample ID: MB 440-528654/4
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	ND		50	35	ug/L			02/14/19 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/14/19 08:25*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/14/19 08:25*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*02/14/19 08:25*	*1*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-528654/6
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12			500	436		ug/L		87	55 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MS
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C4-C12	260		690	941		ug/L		98	50 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-232894-C-12 MSD
Matrix: Water
Analysis Batch: 528654

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C4-C12	260		690	929		ug/L		97	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 128*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-259962/1-A
Matrix: Solid
Analysis Batch: 260120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.61	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
4,4'-DDE	ND		2.0	0.42	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
4,4'-DDT	ND		2.0	0.41	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Aldrin	ND		2.0	0.50	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
alpha-BHC	ND		2.0	0.55	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
alpha-Chlordane	ND		2.0	0.40	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
beta-BHC	ND		2.0	0.36	ug/Kg		02/07/19 11:00	02/11/19 14:51	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-259962/1-A
Matrix: Solid
Analysis Batch: 260120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		40	3.2	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
delta-BHC	ND		2.0	0.44	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Dieldrin	ND		2.0	0.59	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Endosulfan I	ND		2.0	0.32	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Endosulfan II	ND		2.0	0.49	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Endrin	ND		2.0	0.46	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Endrin aldehyde	ND		2.0	0.63	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Endrin ketone	ND		2.0	0.33	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
gamma-BHC (Lindane)	ND		2.0	0.63	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
gamma-Chlordane	ND		2.0	0.46	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Heptachlor	ND		2.0	0.46	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Heptachlor epoxide	ND		2.0	0.35	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Methoxychlor	ND		2.0	0.68	ug/Kg		02/07/19 11:00	02/11/19 14:51	1
Toxaphene	ND		40	6.8	ug/Kg		02/07/19 11:00	02/11/19 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*21 - 136*	*02/07/19 11:00*	*02/11/19 14:51*	*1*
Tetrachloro-m-xylene	*75*		*21 - 145*	*02/07/19 11:00*	*02/11/19 14:51*	*1*

Lab Sample ID: LCS 720-259962/2-A
Matrix: Solid
Analysis Batch: 260120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	16.8		ug/Kg		101	75 - 128
4,4'-DDE	16.7	15.8		ug/Kg		95	76 - 126
4,4'-DDT	16.7	17.3		ug/Kg		104	63 - 127
Aldrin	16.7	14.6		ug/Kg		88	65 - 120
alpha-BHC	16.7	14.6		ug/Kg		88	46 - 122
alpha-Chlordane	16.7	15.7		ug/Kg		94	70 - 120
beta-BHC	16.7	16.7		ug/Kg		100	78 - 136
delta-BHC	16.7	17.1		ug/Kg		103	43 - 125
Dieldrin	16.7	15.9		ug/Kg		95	72 - 120
Endosulfan I	16.7	16.1		ug/Kg		97	62 - 120
Endosulfan II	16.7	17.3		ug/Kg		104	65 - 120
Endosulfan sulfate	16.7	18.0		ug/Kg		108	72 - 121
Endrin	16.7	17.6		ug/Kg		105	68 - 120
Endrin aldehyde	16.7	18.2		ug/Kg		109	68 - 120
Endrin ketone	16.7	17.5		ug/Kg		105	75 - 136
gamma-BHC (Lindane)	16.7	15.3		ug/Kg		92	72 - 120
gamma-Chlordane	16.7	15.4		ug/Kg		93	68 - 120
Heptachlor	16.7	15.6		ug/Kg		94	69 - 120
Heptachlor epoxide	16.7	15.5		ug/Kg		93	68 - 120
Methoxychlor	16.7	19.2		ug/Kg		115	71 - 132

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-259962/2-A
Matrix: Solid
Analysis Batch: 260120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259962

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	115		21 - 136
Tetrachloro-m-xylene	88		21 - 145

Lab Sample ID: 720-91216-A-4-B MS
Matrix: Solid
Analysis Batch: 260120

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259962

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		15.7	16.3		ug/Kg		104	40 - 120
4,4'-DDE	ND		15.7	14.3		ug/Kg		91	40 - 120
4,4'-DDT	ND		15.7	15.9		ug/Kg		101	17 - 144
Aldrin	ND		15.7	15.1		ug/Kg		96	53 - 120
alpha-BHC	ND		15.7	14.8		ug/Kg		94	40 - 120
alpha-Chlordane	ND		15.7	14.2		ug/Kg		91	40 - 120
beta-BHC	ND		15.7	16.3		ug/Kg		104	40 - 120
delta-BHC	ND		15.7	15.4		ug/Kg		98	40 - 120
Dieldrin	ND		15.7	13.6		ug/Kg		87	46 - 130
Endosulfan I	ND		15.7	13.5		ug/Kg		86	40 - 120
Endosulfan II	ND		15.7	14.6		ug/Kg		93	40 - 120
Endosulfan sulfate	ND		15.7	14.4		ug/Kg		92	40 - 120
Endrin	ND		15.7	16.4		ug/Kg		104	32 - 143
Endrin aldehyde	ND		15.7	12.3		ug/Kg		78	40 - 120
Endrin ketone	ND		15.7	15.1		ug/Kg		96	40 - 120
gamma-BHC (Lindane)	ND		15.7	14.8		ug/Kg		94	58 - 120
gamma-Chlordane	ND		15.7	14.4		ug/Kg		92	40 - 120
Heptachlor	ND		15.7	14.6		ug/Kg		93	52 - 120
Heptachlor epoxide	ND		15.7	14.5		ug/Kg		92	40 - 120
Methoxychlor	ND		15.7	14.0		ug/Kg		89	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	88		21 - 136
Tetrachloro-m-xylene	98		21 - 145

Lab Sample ID: 720-91216-A-4-C MSD
Matrix: Solid
Analysis Batch: 260120

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259962

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		16.0	16.1		ug/Kg		101	40 - 120	1	20
4,4'-DDE	ND		16.0	14.5		ug/Kg		91	40 - 120	1	20
4,4'-DDT	ND		16.0	15.9		ug/Kg		100	17 - 144	0	20
Aldrin	ND		16.0	15.2		ug/Kg		95	53 - 120	0	20
alpha-BHC	ND		16.0	14.5		ug/Kg		91	40 - 120	2	20
alpha-Chlordane	ND		16.0	14.2		ug/Kg		89	40 - 120	0	20
beta-BHC	ND		16.0	16.2		ug/Kg		101	40 - 120	1	20
delta-BHC	ND		16.0	15.3		ug/Kg		96	40 - 120	1	20
Dieldrin	ND		16.0	13.8		ug/Kg		87	46 - 130	1	20
Endosulfan I	ND		16.0	13.0		ug/Kg		81	40 - 120	4	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-91216-A-4-C MSD
Matrix: Solid
Analysis Batch: 260120

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259962

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan II	ND		16.0	14.4		ug/Kg		90	40 - 120	2	30
Endosulfan sulfate	ND		16.0	15.3		ug/Kg		96	40 - 120	6	20
Endrin	ND		16.0	16.2		ug/Kg		101	32 - 143	1	20
Endrin aldehyde	ND		16.0	9.87	F2	ug/Kg		62	40 - 120	22	20
Endrin ketone	ND		16.0	14.6		ug/Kg		92	40 - 120	3	20
gamma-BHC (Lindane)	ND		16.0	15.0		ug/Kg		94	58 - 120	1	20
gamma-Chlordane	ND		16.0	14.7		ug/Kg		92	40 - 120	2	20
Heptachlor	ND		16.0	14.1		ug/Kg		88	52 - 120	4	20
Heptachlor epoxide	ND		16.0	14.8		ug/Kg		93	40 - 120	3	20
Methoxychlor	ND		16.0	15.2		ug/Kg		95	40 - 120	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*21 - 136*
Tetrachloro-m-xylene	*96*		*21 - 145*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-527643/1-A
Matrix: Solid
Analysis Batch: 527893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1221	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1232	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1242	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1248	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1254	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1
Aroclor 1260	ND		50	17	ug/Kg		02/08/19 12:55	02/11/19 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*103*		*45 - 120*	*02/08/19 12:55*	*02/11/19 12:26*	*1*

Lab Sample ID: LCS 440-527643/2-A
Matrix: Solid
Analysis Batch: 527893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527643

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	210		ug/Kg		79	65 - 115		
Aroclor 1260			267	238		ug/Kg		89	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-91191-1 MS
Matrix: Solid
Analysis Batch: 527893

Client Sample ID: DG-W3S-3.5-4
Prep Type: Total/NA
Prep Batch: 527643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	217		ug/Kg		81	50 - 120
Aroclor 1260	ND		266	243		ug/Kg		91	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*

Lab Sample ID: 720-91191-1 MSD
Matrix: Solid
Analysis Batch: 527893

Client Sample ID: DG-W3S-3.5-4
Prep Type: Total/NA
Prep Batch: 527643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	215		ug/Kg		81	50 - 120	1	30
Aroclor 1260	ND		266	233		ug/Kg		88	50 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91191-1 DU
Matrix: Solid
Analysis Batch: 259984

Client Sample ID: DG-W3S-3.5-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.3			14.9		%				12	20

GC/MS VOA

Analysis Batch: 528100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-8	DG-R15S-3.5-4	Total/NA	Solid	8260B	528207
MB 440-528100/7	Method Blank	Total/NA	Solid	8260B	
LCS 440-528100/5	Lab Control Sample	Total/NA	Solid	8260B	
440-231902-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-231902-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 528164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-8	DG-R15S-3.5-4	Total/NA	Solid	8260B/CA_LUFT MS	528207
MB 440-528164/7	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-528164/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
440-231902-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-231902-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 528207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-8	DG-R15S-3.5-4	Total/NA	Solid	5035	

Analysis Batch: 528653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-9	TB-02.05.19	Total/NA	Water	8260B	
720-91191-10	FB-02.05.19	Total/NA	Water	8260B	
MB 440-528653/4	Method Blank	Total/NA	Water	8260B	
LCS 440-528653/5	Lab Control Sample	Total/NA	Water	8260B	
440-232894-C-12 MS	Matrix Spike	Total/NA	Water	8260B	
440-232894-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 528654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-9	TB-02.05.19	Total/NA	Water	8260B/CA_LUFT MS	
720-91191-10	FB-02.05.19	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-528654/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-528654/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
440-232894-C-12 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-232894-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 259962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-1	DG-W3S-3.5-4	Total/NA	Solid	3546	
720-91191-2	DG-Y3S-0.5-1	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 259962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-3	DG-Y3S-3.5-4	Total/NA	Solid	3546	
720-91191-4	DG-AA3S-0.5-1	Total/NA	Solid	3546	
720-91191-5	DG-AA3S-3.5-4	Total/NA	Solid	3546	
720-91191-6	DG-AA3S-7-7.5	Total/NA	Solid	3546	
720-91191-7	DG-W3S-0.5-1	Total/NA	Solid	3546	
MB 720-259962/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-259962/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91216-A-4-B MS	Matrix Spike	Total/NA	Solid	3546	
720-91216-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 260120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259962/1-A	Method Blank	Total/NA	Solid	8081A	259962
LCS 720-259962/2-A	Lab Control Sample	Total/NA	Solid	8081A	259962
720-91216-A-4-B MS	Matrix Spike	Total/NA	Solid	8081A	259962
720-91216-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	259962

Analysis Batch: 260397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-3	DG-Y3S-3.5-4	Total/NA	Solid	8081A	259962
720-91191-4	DG-AA3S-0.5-1	Total/NA	Solid	8081A	259962
720-91191-5	DG-AA3S-3.5-4	Total/NA	Solid	8081A	259962
720-91191-6	DG-AA3S-7-7.5	Total/NA	Solid	8081A	259962
720-91191-7	DG-W3S-0.5-1	Total/NA	Solid	8081A	259962

Analysis Batch: 260473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-1	DG-W3S-3.5-4	Total/NA	Solid	8081A	259962
720-91191-2	DG-Y3S-0.5-1	Total/NA	Solid	8081A	259962

Prep Batch: 527643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-1	DG-W3S-3.5-4	Total/NA	Solid	3546	
720-91191-2	DG-Y3S-0.5-1	Total/NA	Solid	3546	
720-91191-3	DG-Y3S-3.5-4	Total/NA	Solid	3546	
720-91191-4	DG-AA3S-0.5-1	Total/NA	Solid	3546	
720-91191-5	DG-AA3S-3.5-4	Total/NA	Solid	3546	
720-91191-6	DG-AA3S-7-7.5	Total/NA	Solid	3546	
720-91191-7	DG-W3S-0.5-1	Total/NA	Solid	3546	
MB 440-527643/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-527643/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-91191-1 MS	DG-W3S-3.5-4	Total/NA	Solid	3546	
720-91191-1 MSD	DG-W3S-3.5-4	Total/NA	Solid	3546	

Analysis Batch: 527893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-1	DG-W3S-3.5-4	Total/NA	Solid	8082	527643
720-91191-3	DG-Y3S-3.5-4	Total/NA	Solid	8082	527643
720-91191-6	DG-AA3S-7-7.5	Total/NA	Solid	8082	527643
720-91191-7	DG-W3S-0.5-1	Total/NA	Solid	8082	527643
MB 440-527643/1-A	Method Blank	Total/NA	Solid	8082	527643

GC Semi VOA (Continued)

Analysis Batch: 527893 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-527643/2-A	Lab Control Sample	Total/NA	Solid	8082	527643
720-91191-1 MS	DG-W3S-3.5-4	Total/NA	Solid	8082	527643
720-91191-1 MSD	DG-W3S-3.5-4	Total/NA	Solid	8082	527643

Analysis Batch: 528976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-2	DG-Y3S-0.5-1	Total/NA	Solid	8082	527643
720-91191-4	DG-AA3S-0.5-1	Total/NA	Solid	8082	527643
720-91191-5	DG-AA3S-3.5-4	Total/NA	Solid	8082	527643

General Chemistry

Analysis Batch: 259984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91191-1	DG-W3S-3.5-4	Total/NA	Solid	Moisture	
720-91191-2	DG-Y3S-0.5-1	Total/NA	Solid	Moisture	
720-91191-3	DG-Y3S-3.5-4	Total/NA	Solid	Moisture	
720-91191-4	DG-AA3S-0.5-1	Total/NA	Solid	Moisture	
720-91191-5	DG-AA3S-3.5-4	Total/NA	Solid	Moisture	
720-91191-6	DG-AA3S-7-7.5	Total/NA	Solid	Moisture	
720-91191-7	DG-W3S-0.5-1	Total/NA	Solid	Moisture	
720-91191-1 DU	DG-W3S-3.5-4	Total/NA	Solid	Moisture	

Client Sample ID: DG-W3S-3.5-4

Lab Sample ID: 720-91191-1

Date Collected: 02/05/19 11:00

Matrix: Solid

Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			259962	02/07/19 11:00	KLM	TAL PLS
Total/NA	Analysis	8081A		1	260473	02/16/19 18:09	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	527893	02/11/19 13:33	JM	TAL IRV
Total/NA	Analysis	Moisture		1	259984	02/07/19 15:13	TNL	TAL PLS

Client Sample ID: DG-Y3S-0.5-1

Lab Sample ID: 720-91191-2

Date Collected: 02/05/19 11:05

Matrix: Solid

Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			259962	02/07/19 11:00	KLM	TAL PLS
Total/NA	Analysis	8081A		2	260473	02/16/19 18:26	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	528976	02/15/19 13:58	JM	TAL IRV
Total/NA	Analysis	Moisture		1	259984	02/07/19 15:13	TNL	TAL PLS

Client Sample ID: DG-Y3S-3.5-4

Lab Sample ID: 720-91191-3

Date Collected: 02/05/19 11:05

Matrix: Solid

Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			259962	02/07/19 11:00	KLM	TAL PLS
Total/NA	Analysis	8081A		1	260397	02/15/19 11:37	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	527893	02/11/19 14:00	JM	TAL IRV
Total/NA	Analysis	Moisture		1	259984	02/07/19 15:13	TNL	TAL PLS

Client Sample ID: DG-AA3S-0.5-1

Lab Sample ID: 720-91191-4

Date Collected: 02/05/19 11:15

Matrix: Solid

Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			259962	02/07/19 11:00	KLM	TAL PLS
Total/NA	Analysis	8081A		1	260397	02/15/19 11:54	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	528976	02/15/19 13:18	JM	TAL IRV
Total/NA	Analysis	Moisture		1	259984	02/07/19 15:13	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91191-1

Client Sample ID: DG-AA3S-3.5-4

Lab Sample ID: 720-91191-5

Date Collected: 02/05/19 11:15
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			259962	02/07/19 11:00	KLM	TAL PLS
Total/NA	Analysis	8081A		1	260397	02/15/19 12:10	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	528976	02/15/19 13:31	JM	TAL IRV
Total/NA	Analysis	Moisture		1	259984	02/07/19 15:13	TNL	TAL PLS

Client Sample ID: DG-AA3S-7-7.5

Lab Sample ID: 720-91191-6

Date Collected: 02/05/19 11:15
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			259962	02/07/19 11:00	KLM	TAL PLS
Total/NA	Analysis	8081A		1	260397	02/15/19 12:27	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	527893	02/11/19 14:40	JM	TAL IRV
Total/NA	Analysis	Moisture		1	259984	02/07/19 15:13	TNL	TAL PLS

Client Sample ID: DG-W3S-0.5-1

Lab Sample ID: 720-91191-7

Date Collected: 02/05/19 11:00
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			259962	02/07/19 11:00	KLM	TAL PLS
Total/NA	Analysis	8081A		1	260397	02/15/19 12:44	JZT	TAL PLS
Total/NA	Prep	3546			527643	02/08/19 12:55	EGC	TAL IRV
Total/NA	Analysis	8082		1	527893	02/11/19 14:53	JM	TAL IRV
Total/NA	Analysis	Moisture		1	259984	02/07/19 15:13	TNL	TAL PLS

Client Sample ID: DG-R15S-3.5-4

Lab Sample ID: 720-91191-8

Date Collected: 02/05/19 07:40
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			528207	02/05/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	528100	02/12/19 15:53	AYL	TAL IRV
Total/NA	Prep	5035			528207	02/05/19 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528164	02/12/19 15:53	AYL	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91191-1

Client Sample ID: TB-02.05.19

Date Collected: 02/05/19 00:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528653	02/14/19 17:45	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528654	02/14/19 17:45	WC	TAL IRV

Client Sample ID: FB-02.05.19

Date Collected: 02/05/19 00:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91191-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	528653	02/14/19 18:11	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	528654	02/14/19 18:11	WC	TAL IRV

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 720-91191-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	Xylenes, Total
8260B	5035	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5035	Solid	Xylenes, Total

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91191-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
Moisture	Percent Moisture	EPA	TAL PLS
Subcontract	Asbestos - CARB 435 by Eurofins CEI	None	Eurofins
3546	Microwave Extraction	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Eurofins = Eurofins CEI Inc, 730 SE Maynard Rd, Cary, NC 27511

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

TestAmerica Job ID: 720-91191-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91191-1	DG-W3S-3.5-4	Solid	02/05/19 11:00	02/05/19 18:50
720-91191-2	DG-Y3S-0.5-1	Solid	02/05/19 11:05	02/05/19 18:50
720-91191-3	DG-Y3S-3.5-4	Solid	02/05/19 11:05	02/05/19 18:50
720-91191-4	DG-AA3S-0.5-1	Solid	02/05/19 11:15	02/05/19 18:50
720-91191-5	DG-AA3S-3.5-4	Solid	02/05/19 11:15	02/05/19 18:50
720-91191-6	DG-AA3S-7-7.5	Solid	02/05/19 11:15	02/05/19 18:50
720-91191-7	DG-W3S-0.5-1	Solid	02/05/19 11:00	02/05/19 18:50
720-91191-8	DG-R15S-3.5-4	Solid	02/05/19 07:40	02/05/19 18:50
720-91191-9	TB-02.05.19	Water	02/05/19 00:00	02/05/19 18:50
720-91191-10	FB-02.05.19	Water	02/05/19 00:00	02/05/19 18:50

eurofins | CEI

Report for Bulk Analysis
by California Air Resources Board (C.A.R.B.) Method 435

CLIENT: TestAmerica
1220 Quarry Lane
Pleasanton, CA 94566

CEI Lab Code: A192579
Received: 02/07/2019
Reported: 2/19/2019
Analyst: Candace Burrus

Project: Brisbane OU-2 Data Gap Investigation, 72013947

Client ID	CEI Lab ID	Asbestos Fibers Observed?	Asbestos Type	Asbestos Detected %
DG-W3S-3.5-4 (720-91191-1)	A38235	No	None Detected	0.00
DG-YS-0.5-1 (720-91191-2)	A38236	No	None Detected	0.00
DG-YS-3.5-4 (720-91191-3)	A38237	No	None Detected	0.00
DG-AA3S-0.5-1 (720-91191-4)	A38238	No	None Detected	0.00
DG-AA3S-3.5-4 (720-91191-5)	A38239	No	None Detected	0.00
DG-AA3S-7-7.5 (720-91191-6)	A38240	No	None Detected	0.00
DG-W3SS-3.5-4 (720-91191-7)	A38241	No	None Detected	0.00

REVIEWED BY: _____

Eurofins CEI, Inc.
730 SE Maynard Road
Cary, NC 27511
T | 919-481-1413
F | 919-481-1442
www.EurofinsUS.com/CEI

eurofins | CEI

LEGEND: None

METHOD: CARB 435

LIMIT OF DETECTION: 0.25%

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI Labs, Inc. Eurofins CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

Eurofins CEI Labs, Inc. is only responsible for the Analytical Procedures (section 7), Procedures (section 8), and Calculations (section 9) portion of the C.A.R.B. 435 Method.

End of Document

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

⑦ A38235-A38241 A192579

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41075.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins CEI Inc		Accreditations Required (See note): State Program - California		Job #: 720-91191-1
Address: 730 SE Maynard Rd, ,	Due Date Requested: 2/19/2019			
City: Cary	TAT Requested (days):			
State, Zip: NC, 27511				
Phone:	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - CARB 435 by Eurofins CEI)/ Asbestos - CARB 435 by Eurofins CEI	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DG-W3S-3.5-4 (720-91191-1)	2/5/19	11:00 Pacific		Solid			X	1	
DG-YS-0.5-1 (720-91191-2)	2/5/19	11:05 Pacific		Solid			X	1	
DG-YS-3.5-4 (720-91191-3)	2/5/19	11:05 Pacific		Solid			X	1	
DG-AA3S-0.5-1 (720-91191-4)	2/5/19	11:15 Pacific		Solid			X	1	
DG-AA3S-3.5-4 (720-91191-5)	2/5/19	11:15 Pacific		Solid			X	1	
DG-AA3S-7-7.5 (720-91191-6)	2/5/19	11:15 Pacific		Solid			X	1	
DG-W3SS-3.5-4 (720-91191-7)	2/5/19	11:00 Pacific		Solid			X	1	

EUROFINS CEI, INC
SAMPLES ACCEPTED

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	John Muller	2-6-19 1430	DTS	[illegible]	2/7 9:20	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91191

Chain of Custody Record

188301

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schuetmann
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91191 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
~~DG-W3s-0.5-1~~	~~5 Feb 2019~~	~~1100~~	~~G~~	~~S~~	~~1~~	N		X	X	X	X	X	X	X	W1F
1. DG-W3s-3.5-4	5 Feb 2019	1100	G	S	2	N						X	X	X	
2. DG-Y3s-0.5-1	"	1105	"	"	"	"						"	"	"	
3. DG-Y3s-3.5-4		1105													
4. DG-AA3s-0.5-1		1115													
5. DG-AA3s-3.5-4		1115													
6. DG-AA3s-7-7.5		1115													
7. DG-W3s-0.5-1		1100	↓	↓	↓	↓						↓	↓	↓	
8. DG-R15s-3.5-4		0740	G	S	4	N		X							
9. TB-02.05.19		—			2			X							
10. FB-02.05.19	↓	"			2			X							
11. IDW-Soil	5 Feb. 2019	1340	C	S	1	N		X		X	X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.1°C, 0.3°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd	Corr'd	Therm ID No.

Relinquished by	Company: Geosyntec	Date/Time: 1630 5 Feb. 2019	Received by	Company: TA-PLS	Date/Time: 2-5-19 16:35
Relinquished by	Company: TA-PLS	Date/Time: 2-5-19 1845	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 2/5/19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91191

Chain of Custody Record

1883O1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
			G	S	7	N		X	X	X	X	X	X	X	N4P
12 IDW - Oil Area Soil	5 Feb. 2019	1340	C	S	1	N		X		X	X				

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd: ____ Therm ID No ____			
Relinquished by	Company Geosyntec	Date/Time 1630 5 Feb 2019	Received by	Company TA PLS	Date/Time 2-5-19 16:30
Relinquished by	Company TA PLS	Date/Time 18:42 2-5-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 2/5/19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

GLOBSYNTEC TUES.
TERRA COKES
720-91191

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC02

FedEx Express Package(s) - Dropped Off
478645743686

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Feb 05, 2019 4:57:24 PM

720-91191-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91191

Chain of Custody Record

188301

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schuchmann
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
~~DG-W3s-0.5-1~~	~~5 Feb 2019~~	~~1100~~	~~G~~	~~S~~	~~1~~	N		X	X	X	X	X	X	X	(W/AF)
1. DG-W3s-3.5-4	5 Feb 2019	1100	G	S	2	N						X	X	X	
2. DG-Y3s-0.5-1		1105													
3. DG-Y3s-3.5-4		1109													
4. DG-AA3s-0.5-1		1115													
5. DG-AA3s-3.5-4		1115													
6. DG-AA3s-7-7.5		1115													
7. DG-W3s-0.5-1		1100													
8. DG-R15s-3.5-4		0740	G	S	4	N		X							
9. TB-02.05.19		—			2			X							
10. FB-02.05.19		"			2			X							
11. IDW-Soil	5 Feb 2019	1340	C	S	1	N		X		X	X				

720-91191 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.1°C, 0.8°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 1	Corr'd: _____	Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 1630 5 Feb. 2019	Received by:	Company: TA PLS	Date/Time: 2-5-19 15:30
Relinquished by:	Company: TA PLS	Date/Time: 1855 2-5-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 2/5/19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Encores or Terracores Frozen,
Date: 2/6/19 Time: 1530 Initials: CO

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91191

Chain of Custody Record

1883O1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No..
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
				G	S	1	N		X	X	X	X	X	X	X	(NAP)
12	IDW - Oil Area Soil	5 Feb. 2019	1340	C	S	1	N		X		X	X				

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by:	Company: Geosyntec	Date/Time: 1640 5 Feb 2019	Received by:	Company: TA PLS	Date/Time: 2-5-19 16:30
Relinquished by:	Company: TA PLS	Date/Time: 18:50 2-5-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 2/5/19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

GLOBSYNTEC TUES.
TERRA COLES
720-911911

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CA 94080
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Feb 05, 2019 4:57:24 PM

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41076.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91191-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/15/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	VOC	GAS	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-W3S-3.5-4 (720-91191-1)	2/5/19	11:00 Pacific		Solid			X			1	
DG-YS-0.5-1 (720-91191-2)	2/5/19	11:05 Pacific		Solid			X			1	
DG-YS-3.5-4 (720-91191-3)	2/5/19	11:05 Pacific		Solid			X			1	
DG-AA3S-0.5-1 (720-91191-4)	2/5/19	11:15 Pacific		Solid			X			1	
DG-AA3S-3.5-4 (720-91191-5)	2/5/19	11:15 Pacific		Solid			X			1	
DG-AA3S-7-7.5 (720-91191-6)	2/5/19	11:15 Pacific		Solid			X			1	
DG-W3SS-3.5-4 (720-91191-7)	2/5/19	11:00 Pacific		Solid			X			1	
IDW-Soil (720-91191-11)	2-5-19	1340		Soil				X	X	1	
IDW-Oil Area Soil (720-91191-12)	2-5-19	1340		Soil				X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Norm Muller	2-6-19 - 1447	AES		2/7/19 1045	TAIRY
2	Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company
3	Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4786457437?0	Cooler Temperature(s) °C and Other Remarks: 19/2.3 IR89

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91191-1

Login Number: 91191
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91191-1

Login Number: 91191
List Number: 2
Creator: Ornelas, Olga

List Source: TestAmerica Irvine
List Creation: 02/07/19 02:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Bondoc, Christian M.

From: Miranda Kahrilas <MKahrilas@Geosyntec.com>
Sent: Thursday, February 07, 2019 11:23 AM
To: Bondoc, Christian M.; Anthony Smith; Bill Chen; Krzysztof Jesionek; Patel, Urvashi
Subject: RE: TestAmerica sample confirmation files from 720-91191-1 Brisbane OU-2 Data Gap Investigation

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Christian,

Yes I agree with the process of elimination.

Thanks,

Miranda Kahrilas, EIT, GIT, CPESC
Senior Staff Engineer

1111 Broadway, 6th Floor
Oakland, California 94607
Phone: 510.836.3034
Direct: 510.285.2685
Fax: 510.836.3036
Mobile: 847.530.7602
www.geosyntec.com

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engineers | scientists | innovators

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From: Bondoc, Christian M. <Christian.Bondoc@testamericainc.com>
Sent: Thursday, February 7, 2019 10:25 AM
To: Anthony Smith <TSmith@Geosyntec.com>; Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Patel, Urvashi <Urvashi.Patel@testamericainc.com>
Subject: RE: TestAmerica sample confirmation files from 720-91191-1 Brisbane OU-2 Data Gap Investigation

Hello Tony,

Analysis has been cancelled for the TB and FB on 91190 and the 2 IDW samples from 91191 are being migrated to 91190.

Additionally, for job 720-91191 please note that the following sample was received with both 8 oz & 2 oz jars in the same plastic bag, however both jars did not have sample labels or sample ID's on the jars: DG-AA3S-7-7.5. This was labeled by process of elimination.

Please confirm if this is correct.

Thank You,

Christian Bondoc

Phone: 949-261-1022
Direct: 949-260-3271

E-mail: Christian.bondoc@testamericainc.com

From: Anthony Smith [mailto:TSmith@Geosyntec.com]
Sent: Thursday, February 07, 2019 9:46 AM
To: Bondoc, Christian M.; Bill Chen; Krzysztof Jesionek; Miranda Kahrilas; Patel, Urvashi
Subject: RE: TestAmerica sample confirmation files from 720-91191-1 Brisbane OU-2 Data Gap Investigation

-External Email-

Christian,
Please move samples 11 and 12 (IDW Soil and IDW Oily Soil) from job 91191 to 91190, and cancel TB-02.05.19 and FB-02.05.19 on 91190.
Thanks.

Tony Smith, Ph.D., P.E. (CA)
Senior Engineer

Geosyntec Consultants
1111 Broadway, 6th Floor
Oakland, CA 94607
Direct: (510) 285-2770
tsmith@geosyntec.com

From: Bondoc, Christian <christian.bondoc@testamericainc.com>
Sent: Thursday, February 7, 2019 9:11 AM
To: Bill Chen <BChen@Geosyntec.com>; Krzysztof Jesionek <KJesionek@Geosyntec.com>; Miranda Kahrilas <MKahrilas@Geosyntec.com>; Anthony Smith <TSmith@Geosyntec.com>; Ms. Urvashi Patel <urvashi.patel@testamericainc.com>
Subject: TestAmerica sample confirmation files from 720-91191-1 Brisbane OU-2 Data Gap Investigation

Hello,

Attached please find the sample confirmation files for job 720-91191-1; Brisbane OU-2 Data Gap Investigation

Please feel free to contact me or your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CHRISTIAN M BONDOC
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [500688]
Attachments: 3

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-91192-1
Client Project/Site: Brisbane OU-2 Data Gap Investigation
Revision: 1

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, California 94598

Attn: Mr. Krys Jesionek

Authorized for release by:
4/14/2019 9:33:51 PM

Urvashi Patel, Manager of Project Management
(949)260-3269
urvashi.patel@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc. Job ID: 720-91192-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-91192-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-91192-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation. .

Receipt
The samples were received on 2/5/2019 6:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.8º C and 1.1º C.

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-S17S-0.5-1 (720-91192-1), DG-S17S-3.5-4 (720-91192-2), DG-X19S-0.5-1 (720-91192-3), DG-X19S-3.5-4 (720-91192-4), DG-Z19S-0.5-1 (720-91192-5), DG-Z19S-3.5-4 (720-91192-6), DG-AA17S-0.5-1 (720-91192-7), DG-AA17S-3.5-4 (720-91192-8), DG-AF14S-0.5-1 (720-91192-9), DG-AF14S-3.5-4 (720-91192-10), DG-AG14S-0.5-1 (720-91192-11), DG-AG14S-3.5-4 (720-91192-12), DG-AH14S-0.5-1 (720-91192-13), DG-AH14S-3.5-4 (720-91192-14), DG-V2S-3.5-4 (720-91192-15), DG-U2S-3.5-4 (720-91192-16), DG-T2S-0.5-1 (720-91192-17), DG-R2S-3.5-4 (720-91192-18), DUP-6 (720-91192-19) and DUP-55 (720-91192-20). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259878 and analytical batch 720-260613 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259878 and analytical batch 720-260613 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259877 and analytical batch 720-260632 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The following samples were diluted to bring the concentration of target analytes within the calibration range: DG-S17S-0.5-1 (720-91192-1), DG-Z19S-3.5-4 (720-91192-6), DG-V2S-3.5-4 (720-91192-15), DG-U2S-3.5-4 (720-91192-16), (720-91192-A-1-A MS ^4) and (720-91192-A-1-B MSD ^4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-S17S-0.5-1 — Lab Sample ID: 720-91192-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.0	F1 F2	1.9	0.32	mg/Kg	4		6010B	Total/NA
Arsenic	570		3.8	0.33	mg/Kg	4		6010B	Total/NA
Barium	84		1.9	0.27	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.38	0.13	mg/Kg	4		6010B	Total/NA
Cadmium	0.45	J	0.48	0.048	mg/Kg	4		6010B	Total/NA
Chromium	71	B F1	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.77	0.077	mg/Kg	4		6010B	Total/NA
Copper	87		5.8	2.7	mg/Kg	4		6010B	Total/NA
Lead	140	F1	1.9	0.40	mg/Kg	4		6010B	Total/NA
Nickel	85	F1	1.9	0.20	mg/Kg	4		6010B	Total/NA
Selenium	2.9	J	3.8	0.58	mg/Kg	4		6010B	Total/NA
Thallium	0.63	J	1.9	0.56	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	120		5.8	2.4	mg/Kg	4		6010B	Total/NA
Mercury	2.1	F1	0.060	0.0088	mg/Kg	4		7471A	Total/NA

Client Sample ID: DG-S17S-3.5-4 — Lab Sample ID: 720-91192-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7	J	1.8	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	52		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	48		1.8	0.25	mg/Kg	4		6010B	Total/NA
Beryllium	0.69		0.35	0.12	mg/Kg	4		6010B	Total/NA
Chromium	33	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	30		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	13		1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	31		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.9	J	3.5	0.53	mg/Kg	4		6010B	Total/NA
Thallium	0.69	J	1.8	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	92		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-X19S-0.5-1 — Lab Sample ID: 720-91192-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.68	J	1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	11		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	310		1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.83		0.31	0.10	mg/Kg	4		6010B	Total/NA
Chromium	20	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	34		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	38		1.6	0.33	mg/Kg	4		6010B	Total/NA
Molybdenum	2.6		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	39		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Thallium	1.0	J	1.6	0.45	mg/Kg	4		6010B	Total/NA
Vanadium	21		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	64		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-X19S-3.5-4 — Lab Sample ID: 720-91192-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	12		3.6	0.60	mg/Kg	10		6010B	Total/NA
Arsenic	70		7.2	0.62	mg/Kg	10		6010B	Total/NA
Barium	520		1.4	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.12	J	0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.91	0.090	mg/Kg	10		6010B	Total/NA
Chromium	41	B	3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	13		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	260		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	2900		3.6	0.76	mg/Kg	10		6010B	Total/NA
Molybdenum	1.2	J	1.4	0.19	mg/Kg	4		6010B	Total/NA
Nickel	50		3.6	0.37	mg/Kg	10		6010B	Total/NA
Selenium	5.6	J	7.2	1.1	mg/Kg	10		6010B	Total/NA
Thallium	1.5	J	3.6	1.1	mg/Kg	10		6010B	Total/NA
Vanadium	55		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	650		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	0.14		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z19S-0.5-1 — Lab Sample ID: 720-91192-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9	J	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	77		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.16	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	29	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	7.3		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	30		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	14		1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	25		1.5	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	42		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.062		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-Z19S-3.5-4 — Lab Sample ID: 720-91192-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.7		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	130		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	120		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.33		0.30	0.096	mg/Kg	4		6010B	Total/NA
Chromium	110	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.59	0.059	mg/Kg	4		6010B	Total/NA
Copper	30		4.4	2.1	mg/Kg	4		6010B	Total/NA
Lead	12		1.5	0.31	mg/Kg	4		6010B	Total/NA
Molybdenum	0.25	J	1.5	0.19	mg/Kg	4		6010B	Total/NA
Nickel	150		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	3.0	0.44	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	89		4.4	1.9	mg/Kg	4		6010B	Total/NA
Mercury	10		0.15	0.022	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-AA17S-0.5-1

Lab Sample ID: 720-91192-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.59	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.6		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	63		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.25	0.080	mg/Kg	4		6010B	Total/NA
Chromium	23	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.7		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	40		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	28		1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.63	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	30		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Thallium	0.46	J	1.2	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	42		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.059		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AA17S-3.5-4

Lab Sample ID: 720-91192-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.9		1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	7.4		3.8	0.32	mg/Kg	4		6010B	Total/NA
Barium	88		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	2.8		0.47	0.047	mg/Kg	4		6010B	Total/NA
Chromium	37	B	1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	250		5.7	2.7	mg/Kg	4		6010B	Total/NA
Lead	300		1.9	0.40	mg/Kg	4		6010B	Total/NA
Molybdenum	3.3		1.9	0.24	mg/Kg	4		6010B	Total/NA
Nickel	30		1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.7	J	3.8	0.57	mg/Kg	4		6010B	Total/NA
Silver	0.44	J	0.94	0.19	mg/Kg	4		6010B	Total/NA
Thallium	2.1		1.9	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	91		1.9	0.26	mg/Kg	4		6010B	Total/NA
Zinc	830		5.7	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.35		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AF14S-0.5-1

Lab Sample ID: 720-91192-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.2	J	3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	58		1.8	0.26	mg/Kg	4		6010B	Total/NA
Chromium	21	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.0		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	40		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	83		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.30	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	23		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	0.97	J	3.6	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	46		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	54		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.057		0.015	0.0023	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-AF14S-3.5-4 — Lab Sample ID: 720-91192-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.47	J	3.6	0.30	mg/Kg	4		6010B	Total/NA
Barium	88		1.8	0.25	mg/Kg	4		6010B	Total/NA
Chromium	13	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	38		5.4	2.5	mg/Kg	4		6010B	Total/NA
Lead	18		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.24	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	21		1.8	0.18	mg/Kg	4		6010B	Total/NA
Thallium	0.77	J	1.8	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	47		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	36		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.042		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG14S-0.5-1 — Lab Sample ID: 720-91192-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	110		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.10	J	0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	0.69		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	15	B	1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	4.0		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	19		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	19		1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.88	J	1.3	0.17	mg/Kg	4		6010B	Total/NA
Nickel	26		1.3	0.13	mg/Kg	4		6010B	Total/NA
Thallium	0.90	J	1.3	0.38	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	33		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG14S-3.5-4 — Lab Sample ID: 720-91192-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	8.6		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	600		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.29	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Chromium	32	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	21		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	50		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	22		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	29		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	3.4	0.52	mg/Kg	4		6010B	Total/NA
Thallium	1.6	J	1.7	0.50	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	91		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.073		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-AH14S-0.5-1 — Lab Sample ID: 720-91192-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.55	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	8.2		3.0	0.25	mg/Kg	4		6010B	Total/NA
Barium	180		1.5	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.53		0.30	0.097	mg/Kg	4		6010B	Total/NA
Chromium	25	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	39		4.5	2.1	mg/Kg	4		6010B	Total/NA
Lead	23		1.5	0.31	mg/Kg	4		6010B	Total/NA
Nickel	50		1.5	0.15	mg/Kg	4		6010B	Total/NA
Selenium	1.0	J	3.0	0.45	mg/Kg	4		6010B	Total/NA
Thallium	0.96	J	1.5	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	92		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH14S-3.5-4 — Lab Sample ID: 720-91192-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.95	J	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	2.3	J	2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	36		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.19	J	0.24	0.078	mg/Kg	4		6010B	Total/NA
Chromium	50	B	1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	5.7		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	6.3		1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	36		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	2.4	0.36	mg/Kg	4		6010B	Total/NA
Thallium	0.45	J	1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	42		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	24		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.036		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-V2S-3.5-4 — Lab Sample ID: 720-91192-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.8		1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	70		1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.29	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	190	B	1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	27		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	8.2		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	170		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	0.94	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	120		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	5.1		0.16	0.023	mg/Kg	10		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-U2S-3.5-4 — Lab Sample ID: 720-91192-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.2		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	4.4		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	120		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.45		0.25	0.082	mg/Kg	4		6010B	Total/NA
Chromium	120	B	1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	28		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	4.8		1.3	0.26	mg/Kg	4		6010B	Total/NA
Nickel	180		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.5	J	2.5	0.38	mg/Kg	4		6010B	Total/NA
Thallium	0.62	J	1.3	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	49		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	10		0.15	0.021	mg/Kg	10		7471A	Total/NA

Client Sample ID: DG-T2S-0.5-1 — Lab Sample ID: 720-91192-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.47	J	1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	0.72	J	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	36		1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.14	J	0.34	0.11	mg/Kg	4		6010B	Total/NA
Chromium	45	B	1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	5.3		0.67	0.067	mg/Kg	4		6010B	Total/NA
Copper	5.6		5.0	2.4	mg/Kg	4		6010B	Total/NA
Lead	3.0		1.7	0.35	mg/Kg	4		6010B	Total/NA
Nickel	33		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	0.89	J	3.4	0.50	mg/Kg	4		6010B	Total/NA
Thallium	0.74	J	1.7	0.49	mg/Kg	4		6010B	Total/NA
Vanadium	28		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	17		5.0	2.1	mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-R2S-3.5-4 — Lab Sample ID: 720-91192-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.0	J	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	1.8	J	2.3	0.19	mg/Kg	4		6010B	Total/NA
Barium	20		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.076	J	0.23	0.074	mg/Kg	4		6010B	Total/NA
Chromium	23	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	3.1		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	4.0		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	1.1		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	21		1.1	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.35	J	2.3	0.34	mg/Kg	4		6010B	Total/NA
Thallium	0.40	J	1.1	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	19		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	11		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.016		0.016	0.0024	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DUP-6

Lab Sample ID: 720-91192-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.93	J	1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	1.8	J	2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	23		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.081	J	0.22	0.073	mg/Kg	4		6010B	Total/NA
Chromium	30	B	1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	3.8		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	4.6		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	1.2		1.1	0.24	mg/Kg	4		6010B	Total/NA
Molybdenum	0.15	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	24		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.77	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	24		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	12		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.022		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-55

Lab Sample ID: 720-91192-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	26		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	120		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.24	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Chromium	26	B	1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	110		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	57		1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	21		1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.6	0.54	mg/Kg	4		6010B	Total/NA
Thallium	1.1	J	1.8	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	82		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	120		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.23		0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-S17S-0.5-1 Lab Sample ID: 720-91192-1

Date Collected: 02/05/19 08:00 **Matrix: Solid**
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0	F1 F2	1.9	0.32	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Arsenic	570		3.8	0.33	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Barium	84		1.9	0.27	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Beryllium	0.21	J	0.38	0.13	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Cadmium	0.45	J	0.48	0.048	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Chromium	71	B F1	1.9	0.20	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Cobalt	14		0.77	0.077	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Copper	87		5.8	2.7	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Lead	140	F1	1.9	0.40	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Molybdenum	ND		1.9	0.25	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Nickel	85	F1	1.9	0.20	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Selenium	2.9	J	3.8	0.58	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Silver	ND		0.96	0.19	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Thallium	0.63	J	1.9	0.56	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Vanadium	59		1.9	0.26	mg/Kg		02/15/19 11:08	02/19/19 10:24	4
Zinc	120		5.8	2.4	mg/Kg		02/15/19 11:08	02/19/19 10:24	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.1	F1	0.060	0.0088	mg/Kg		02/19/19 08:48	02/19/19 15:09	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.05	%			02/06/19 14:40	1

Client Sample ID: DG-S17S-3.5-4 Lab Sample ID: 720-91192-2

Date Collected: 02/05/19 08:00 **Matrix: Solid**
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	J	1.8	0.29	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Arsenic	52		3.5	0.30	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Barium	48		1.8	0.25	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Beryllium	0.69		0.35	0.12	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Cadmium	ND		0.44	0.044	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Chromium	33	B	1.8	0.19	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Cobalt	15		0.71	0.071	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Copper	30		5.3	2.5	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Lead	13		1.8	0.37	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Molybdenum	ND		1.8	0.23	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Nickel	31		1.8	0.18	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Selenium	1.9	J	3.5	0.53	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Silver	ND		0.88	0.18	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Thallium	0.69	J	1.8	0.51	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Vanadium	44		1.8	0.24	mg/Kg		02/15/19 11:08	02/19/19 10:29	4
Zinc	92		5.3	2.2	mg/Kg		02/15/19 11:08	02/19/19 10:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.017	0.0025	mg/Kg		02/19/19 08:48	02/19/19 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.0		0.1	0.05	%			02/06/19 14:40	1

Client Sample ID: DG-X19S-0.5-1 Lab Sample ID: 720-91192-3

Date Collected: 02/05/19 08:50 **Matrix: Solid**
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.6	0.26	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Arsenic	11		3.1	0.26	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Barium	310		1.6	0.22	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Beryllium	0.83		0.31	0.10	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Cadmium	ND		0.39	0.038	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Chromium	20	B	1.6	0.16	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Cobalt	12		0.62	0.062	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Copper	34		4.7	2.2	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Lead	38		1.6	0.33	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Molybdenum	2.6		1.6	0.20	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Nickel	39		1.6	0.16	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Selenium	1.4	J	3.1	0.47	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Silver	ND		0.78	0.16	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Thallium	1.0	J	1.6	0.45	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Vanadium	21		1.6	0.21	mg/Kg		02/15/19 11:08	02/19/19 10:33	4
Zinc	64		4.7	2.0	mg/Kg		02/15/19 11:08	02/19/19 10:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.016	0.0024	mg/Kg		02/19/19 08:48	02/19/19 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.1		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91192-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-X19S-3.5-4
Lab Sample ID: 720-91192-4

Date Collected: 02/05/19 08:50
Matrix: Solid
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12		3.6	0.60	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Arsenic	70		7.2	0.62	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Barium	520		1.4	0.21	mg/Kg		02/15/19 11:08	02/19/19 10:38	4
Beryllium	0.12	J	0.29	0.094	mg/Kg		02/15/19 11:08	02/19/19 10:38	4
Cadmium	0.21	J	0.91	0.090	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Chromium	41	B	3.6	0.38	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Cobalt	13		1.4	0.14	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Copper	260		11	5.2	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Lead	2900		3.6	0.76	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Molybdenum	1.2	J	1.4	0.19	mg/Kg		02/15/19 11:08	02/19/19 10:38	4
Nickel	50		3.6	0.37	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Selenium	5.6	J	7.2	1.1	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Silver	ND		1.8	0.37	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Thallium	1.5	J	3.6	1.1	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Vanadium	55		3.6	0.49	mg/Kg		02/15/19 11:08	02/19/19 14:31	10
Zinc	650		11	4.6	mg/Kg		02/15/19 11:08	02/19/19 14:31	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.016	0.0023	mg/Kg		02/19/19 08:48	02/19/19 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-Z19S-0.5-1

Date Collected: 02/05/19 08:30
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-5

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5	0.26	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Arsenic	**2.9**	**J**	3.1	0.26	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Barium	**77**		1.5	0.22	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Beryllium	**0.16**	**J**	0.31	0.10	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Cadmium	**0.12**	**J**	0.38	0.038	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Chromium	**29**	**B**	1.5	0.16	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Cobalt	**7.3**		0.62	0.062	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Copper	**30**		4.6	2.2	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Lead	**14**		1.5	0.32	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Molybdenum	**0.27**	**J**	1.5	0.20	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Nickel	**25**		1.5	0.16	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Selenium	ND		3.1	0.46	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Silver	ND		0.77	0.16	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Thallium	ND		1.5	0.45	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Vanadium	**56**		1.5	0.21	mg/Kg		02/15/19 11:08	02/19/19 10:53	4
Zinc	**42**		4.6	2.0	mg/Kg		02/15/19 11:08	02/19/19 10:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.014	0.0021	mg/Kg		02/19/19 08:48	02/19/19 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-Z19S-3.5-4

Date Collected: 02/05/19 08:30
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-6

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7		1.5	0.25	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Arsenic	130		3.0	0.25	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Barium	120		1.5	0.21	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Beryllium	0.33		0.30	0.096	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Cadmium	ND		0.37	0.037	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Chromium	110	B	1.5	0.16	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Cobalt	17		0.59	0.059	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Copper	30		4.4	2.1	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Lead	12		1.5	0.31	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Molybdenum	0.25	J	1.5	0.19	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Nickel	150		1.5	0.15	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Selenium	2.0	J	3.0	0.44	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Silver	ND		0.74	0.15	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Thallium	ND		1.5	0.43	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Vanadium	60		1.5	0.20	mg/Kg		02/15/19 11:08	02/19/19 10:57	4
Zinc	89		4.4	1.9	mg/Kg		02/15/19 11:08	02/19/19 10:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	10		0.15	0.022	mg/Kg		02/19/19 08:48	02/19/19 15:11	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.8		0.1	0.05	%			02/06/19 14:40	1

Client Sample ID: DG-AA17S-0.5-1 Lab Sample ID: 720-91192-7

Date Collected: 02/05/19 09:20 **Matrix: Solid**
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.2	0.20	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Arsenic	2.6		2.5	0.21	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Barium	63		1.2	0.17	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Beryllium	0.19	J	0.25	0.080	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Cadmium	ND		0.31	0.030	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Chromium	23	B	1.2	0.13	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Cobalt	9.7		0.49	0.049	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Copper	40		3.7	1.7	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Lead	28		1.2	0.26	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Molybdenum	0.63	J	1.2	0.16	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Nickel	30		1.2	0.13	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Selenium	1.1	J	2.5	0.37	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Silver	ND		0.61	0.12	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Thallium	0.46	J	1.2	0.36	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Vanadium	44		1.2	0.17	mg/Kg		02/15/19 11:08	02/19/19 11:02	4
Zinc	42		3.7	1.6	mg/Kg		02/15/19 11:08	02/19/19 11:02	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.015	0.0022	mg/Kg		02/19/19 08:48	02/19/19 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-AA17S-3.5-4

Date Collected: 02/05/19 09:20
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.9		1.9	0.31	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Arsenic	7.4		3.8	0.32	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Barium	88		1.9	0.27	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Beryllium	ND		0.38	0.12	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Cadmium	2.8		0.47	0.047	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Chromium	37	B	1.9	0.20	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Cobalt	16		0.75	0.075	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Copper	250		5.7	2.7	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Lead	300		1.9	0.40	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Molybdenum	3.3		1.9	0.24	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Nickel	30		1.9	0.19	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Selenium	2.7	J	3.8	0.57	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Silver	0.44	J	0.94	0.19	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Thallium	2.1		1.9	0.55	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Vanadium	91		1.9	0.26	mg/Kg		02/15/19 11:08	02/19/19 11:07	4
Zinc	830		5.7	2.4	mg/Kg		02/15/19 11:08	02/19/19 11:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.015	0.0022	mg/Kg		02/19/19 08:48	02/19/19 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.05	%			02/06/19 14:40	1

Client Sample ID: DG-AF14S-0.5-1 Lab Sample ID: 720-91192-9

Date Collected: 02/05/19 10:00 **Matrix: Solid**
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.30	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Arsenic	**1.2**	**J**	3.6	0.31	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Barium	**58**		1.8	0.26	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Beryllium	ND		0.36	0.12	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Cadmium	ND		0.45	0.045	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Chromium	**21**	**B**	1.8	0.19	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Cobalt	**7.0**		0.73	0.073	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Copper	**40**		5.5	2.6	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Lead	**83**		1.8	0.38	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Molybdenum	**0.30**	**J**	1.8	0.23	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Nickel	**23**		1.8	0.19	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Selenium	**0.97**	**J**	3.6	0.55	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Silver	ND		0.91	0.18	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Thallium	ND		1.8	0.53	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Vanadium	**46**		1.8	0.25	mg/Kg		02/15/19 11:08	02/19/19 11:12	4
Zinc	**54**		5.5	2.3	mg/Kg		02/15/19 11:08	02/19/19 11:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**		0.015	0.0023	mg/Kg		02/19/19 08:48	02/19/19 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.3**		0.1	0.05	%			02/06/19 14:40	1

Client Sample ID: DG-AF14S-3.5-4 Lab Sample ID: 720-91192-10

Date Collected: 02/05/19 10:00 **Matrix: Solid**
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.30	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Arsenic	**0.47**	**J**	3.6	0.30	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Barium	**88**		1.8	0.25	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Beryllium	ND		0.36	0.12	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Cadmium	ND		0.45	0.044	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Chromium	**13**	**B**	1.8	0.19	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Cobalt	**7.2**		0.71	0.071	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Copper	**38**		5.4	2.5	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Lead	**18**		1.8	0.38	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Molybdenum	**0.24**	**J**	1.8	0.23	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Nickel	**21**		1.8	0.18	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Selenium	ND		3.6	0.54	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Silver	ND		0.89	0.18	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Thallium	**0.77**	**J**	1.8	0.52	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Vanadium	**47**		1.8	0.24	mg/Kg		02/15/19 11:08	02/19/19 11:16	4
Zinc	**36**		5.4	2.3	mg/Kg		02/15/19 11:08	02/19/19 11:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.015	0.0022	mg/Kg		02/19/19 08:48	02/19/19 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		0.1	0.05	%			02/06/19 14:40	1

Client Sample ID: DG-AG14S-0.5-1 Lab Sample ID: 720-91192-11

Date Collected: 02/05/19 10:10 **Matrix: Solid**
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.22	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Arsenic	**2.8**		2.6	0.22	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Barium	**110**		1.3	0.18	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Beryllium	**0.10**	**J**	0.26	0.084	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Cadmium	**0.69**		0.32	0.032	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Chromium	**15**	**B**	1.3	0.14	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Cobalt	**4.0**		0.52	0.052	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Copper	**19**		3.9	1.8	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Lead	**19**		1.3	0.27	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Molybdenum	**0.88**	**J**	1.3	0.17	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Nickel	**26**		1.3	0.13	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Selenium	ND		2.6	0.39	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Silver	ND		0.65	0.13	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Thallium	**0.90**	**J**	1.3	0.38	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Vanadium	**50**		1.3	0.18	mg/Kg		02/15/19 11:08	02/19/19 11:21	4
Zinc	**33**		3.9	1.6	mg/Kg		02/15/19 11:08	02/19/19 11:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.015	0.0022	mg/Kg		02/19/19 08:48	02/19/19 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-AG14S-3.5-4

Date Collected: 02/05/19 10:10
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.7	0.29	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Arsenic	8.6		3.4	0.29	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Barium	600		1.7	0.24	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Beryllium	0.29	J	0.34	0.11	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Cadmium	ND		0.43	0.043	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Chromium	32	B	1.7	0.18	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Cobalt	21		0.69	0.069	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Copper	50		5.2	2.5	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Lead	22		1.7	0.36	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Molybdenum	ND		1.7	0.22	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Nickel	29		1.7	0.18	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Selenium	2.0	J	3.4	0.52	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Silver	ND		0.86	0.17	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Thallium	1.6	J	1.7	0.50	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Vanadium	130		1.7	0.23	mg/Kg		02/15/19 11:08	02/19/19 11:26	4
Zinc	91		5.2	2.2	mg/Kg		02/15/19 11:08	02/19/19 11:26	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.015	0.0022	mg/Kg		02/19/19 08:48	02/19/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-AH14S-0.5-1

Date Collected: 02/05/19 10:20
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.5	0.25	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Arsenic	8.2		3.0	0.25	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Barium	180		1.5	0.21	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Beryllium	0.53		0.30	0.097	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Cadmium	ND		0.37	0.037	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Chromium	25	B	1.5	0.16	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Cobalt	12		0.60	0.060	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Copper	39		4.5	2.1	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Lead	23		1.5	0.31	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Molybdenum	ND		1.5	0.19	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Nickel	50		1.5	0.15	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Selenium	1.0	J	3.0	0.45	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Silver	ND		0.75	0.15	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Thallium	0.96	J	1.5	0.43	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Vanadium	26		1.5	0.20	mg/Kg		02/15/19 11:08	02/19/19 11:31	4
Zinc	92		4.5	1.9	mg/Kg		02/15/19 11:08	02/19/19 11:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.015	0.0022	mg/Kg		02/19/19 08:48	02/19/19 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.8		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-AH14S-3.5-4

Date Collected: 02/05/19 10:20
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.95	J	1.2	0.20	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Arsenic	2.3	J	2.4	0.20	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Barium	36		1.2	0.17	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Beryllium	0.19	J	0.24	0.078	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Cadmium	ND		0.30	0.030	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Chromium	50	B	1.2	0.13	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Cobalt	7.7		0.48	0.048	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Copper	5.7		3.6	1.7	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Lead	6.3		1.2	0.25	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Molybdenum	ND		1.2	0.15	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Nickel	36		1.2	0.12	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Selenium	1.1	J	2.4	0.36	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Silver	ND		0.60	0.12	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Thallium	0.45	J	1.2	0.35	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Vanadium	42		1.2	0.16	mg/Kg		02/15/19 11:08	02/19/19 11:35	4
Zinc	24		3.6	1.5	mg/Kg		02/15/19 11:08	02/19/19 11:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.015	0.0023	mg/Kg		02/19/19 08:48	02/19/19 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.9		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-V2S-3.5-4

Date Collected: 02/05/19 11:30
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-15

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.8		1.5	0.26	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Arsenic	16		3.1	0.26	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Barium	70		1.5	0.22	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Beryllium	0.29	J	0.31	0.10	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Cadmium	0.12	J	0.38	0.038	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Chromium	190	B	1.5	0.16	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Cobalt	16		0.62	0.062	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Copper	27		4.6	2.2	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Lead	8.2		1.5	0.32	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Molybdenum	ND		1.5	0.20	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Nickel	170		1.5	0.16	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Selenium	0.94	J	3.1	0.46	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Silver	ND		0.77	0.16	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Thallium	ND		1.5	0.45	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Vanadium	63		1.5	0.21	mg/Kg		02/15/19 11:08	02/19/19 11:50	4
Zinc	120		4.6	2.0	mg/Kg		02/15/19 11:08	02/19/19 11:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.1		0.16	0.023	mg/Kg		02/19/19 08:48	02/19/19 15:41	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-U2S-3.5-4

Date Collected: 02/05/19 11:35
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.2		1.3	0.21	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Arsenic	4.4		2.5	0.21	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Barium	120		1.3	0.18	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Beryllium	0.45		0.25	0.082	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Cadmium	ND		0.31	0.031	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Chromium	120	B	1.3	0.13	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Cobalt	18		0.50	0.050	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Copper	28		3.8	1.8	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Lead	4.8		1.3	0.26	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Molybdenum	ND		1.3	0.16	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Nickel	180		1.3	0.13	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Selenium	1.5	J	2.5	0.38	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Silver	ND		0.63	0.13	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Thallium	0.62	J	1.3	0.36	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Vanadium	60		1.3	0.17	mg/Kg		02/15/19 11:08	02/19/19 11:55	4
Zinc	49		3.8	1.6	mg/Kg		02/15/19 11:08	02/19/19 11:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	10		0.15	0.021	mg/Kg		02/19/19 08:48	02/19/19 15:43	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-T2S-0.5-1

Date Collected: 02/05/19 11:40
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.7	0.28	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Arsenic	0.72	J	3.4	0.29	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Barium	36		1.7	0.24	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Beryllium	0.14	J	0.34	0.11	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Cadmium	ND		0.42	0.042	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Chromium	45	B	1.7	0.18	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Cobalt	5.3		0.67	0.067	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Copper	5.6		5.0	2.4	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Lead	3.0		1.7	0.35	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Molybdenum	ND		1.7	0.22	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Nickel	33		1.7	0.17	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Selenium	0.89	J	3.4	0.50	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Silver	ND		0.84	0.17	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Thallium	0.74	J	1.7	0.49	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Vanadium	28		1.7	0.23	mg/Kg		02/15/19 11:08	02/19/19 11:59	4
Zinc	17		5.0	2.1	mg/Kg		02/15/19 11:08	02/19/19 11:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.015	0.0022	mg/Kg		02/19/19 08:48	02/19/19 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.05	%			02/06/19 14:40	1

Client Sample ID: DG-R2S-3.5-4 — Lab Sample ID: 720-91192-18

Date Collected: 02/05/19 11:50 — **Matrix: Solid**
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.1	0.19	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Arsenic	1.8	J	2.3	0.19	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Barium	20		1.1	0.16	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Beryllium	0.076	J	0.23	0.074	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Cadmium	ND		0.28	0.028	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Chromium	23	B	1.1	0.12	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Cobalt	3.1		0.45	0.045	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Copper	4.0		3.4	1.6	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Lead	1.1		1.1	0.24	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Molybdenum	ND		1.1	0.15	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Nickel	21		1.1	0.12	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Selenium	0.35	J	2.3	0.34	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Silver	ND		0.57	0.11	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Thallium	0.40	J	1.1	0.33	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Vanadium	19		1.1	0.15	mg/Kg		02/15/19 11:08	02/19/19 12:04	4
Zinc	11		3.4	1.4	mg/Kg		02/15/19 11:08	02/19/19 12:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.016	0.0024	mg/Kg		02/19/19 08:48	02/19/19 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DUP-6

Date Collected: 02/05/19 00:00
Date Received: 02/05/19 18:50

Lab Sample ID: 720-91192-19

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.93	J	1.1	0.19	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Arsenic	1.8	J	2.2	0.19	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Barium	23		1.1	0.16	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Beryllium	0.081	J	0.22	0.073	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Cadmium	ND		0.28	0.028	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Chromium	30	B	1.1	0.12	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Cobalt	3.8		0.45	0.045	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Copper	4.6		3.4	1.6	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Lead	1.2		1.1	0.24	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Molybdenum	0.15	J	1.1	0.14	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Nickel	24		1.1	0.11	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Selenium	0.77	J	2.2	0.34	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Silver	ND		0.56	0.11	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Thallium	ND		1.1	0.33	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Vanadium	24		1.1	0.15	mg/Kg		02/15/19 11:08	02/19/19 12:09	4
Zinc	12		3.4	1.4	mg/Kg		02/15/19 11:08	02/19/19 12:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.015	0.0022	mg/Kg		02/19/19 08:48	02/19/19 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.5		0.1	0.05	%			02/06/19 14:40	1

Client: Geosyntec Consultants, Inc.
Job ID: 720-91192-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-55
Lab Sample ID: 720-91192-20
Date Collected: 02/05/19 00:00
Matrix: Solid
Date Received: 02/05/19 18:50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	1.8	0.30	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Arsenic	26		3.6	0.31	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Barium	120		1.8	0.26	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Beryllium	0.24	J	0.36	0.12	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Cadmium	ND		0.45	0.045	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Chromium	26	B	1.8	0.19	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Cobalt	12		0.72	0.072	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Copper	110		5.4	2.6	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Lead	57		1.8	0.38	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Molybdenum	ND		1.8	0.23	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Nickel	21		1.8	0.18	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Selenium	1.2	J	3.6	0.54	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Silver	ND		0.90	0.18	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Thallium	1.1	J	1.8	0.52	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Vanadium	82		1.8	0.25	mg/Kg		02/15/19 11:08	02/19/19 12:14	4
Zinc	120		5.4	2.3	mg/Kg		02/15/19 11:08	02/19/19 12:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.015	0.0022	mg/Kg		02/19/19 08:48	02/19/19 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			02/06/19 15:09	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259878/1-A
Matrix: Solid
Analysis Batch: 260613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Arsenic	ND		1.0	0.085	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Barium	ND		0.50	0.071	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Beryllium	ND		0.10	0.033	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Cadmium	ND		0.13	0.012	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Chromium	0.0679	J	0.50	0.053	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Cobalt	ND		0.20	0.020	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Copper	ND		1.5	0.71	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Lead	ND		0.50	0.11	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Molybdenum	ND		0.50	0.064	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Nickel	ND		0.50	0.051	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Selenium	ND		1.0	0.15	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Silver	ND		0.25	0.051	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Thallium	ND		0.50	0.15	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Vanadium	ND		0.50	0.068	mg/Kg		02/15/19 11:08	02/19/19 09:56	1
Zinc	ND		1.5	0.64	mg/Kg		02/15/19 11:08	02/19/19 09:56	1

Lab Sample ID: LCS 720-259878/2-A
Matrix: Solid
Analysis Batch: 260613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.3		mg/Kg		91	80 - 120
Arsenic	50.0	45.3		mg/Kg		91	80 - 120
Barium	50.0	49.8		mg/Kg		100	80 - 120
Beryllium	50.0	47.1		mg/Kg		94	80 - 120
Cadmium	50.0	48.4		mg/Kg		97	80 - 120
Chromium	50.0	48.3		mg/Kg		97	80 - 120
Cobalt	50.0	50.0		mg/Kg		100	80 - 120
Copper	50.0	48.8		mg/Kg		98	80 - 120
Lead	50.0	48.3		mg/Kg		97	80 - 120
Molybdenum	50.0	48.0		mg/Kg		96	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Selenium	50.0	44.6		mg/Kg		89	80 - 120
Silver	25.0	20.1		mg/Kg		80	80 - 120
Thallium	50.0	47.5		mg/Kg		95	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Zinc	50.0	50.8		mg/Kg		102	80 - 120

Lab Sample ID: 720-91192-1 MS
Matrix: Solid
Analysis Batch: 260613

Client Sample ID: DG-S17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259878

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.0	F1 F2	47.6	17.7	F1	mg/Kg		27	75 - 125
Arsenic	570		47.6	573	4	mg/Kg		13	75 - 125
Barium	84		47.6	120		mg/Kg		76	75 - 125
Beryllium	0.21	J	47.6	45.7		mg/Kg		95	75 - 125
Cadmium	0.45	J	47.6	44.8		mg/Kg		93	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-91192-1 MS **Client Sample ID: DG-S17S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260613 **Prep Batch: 259878**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	71	B F1	47.6	101	F1	mg/Kg		63	75 - 125
Cobalt	14		47.6	57.2		mg/Kg		91	75 - 125
Copper	87		47.6	124		mg/Kg		77	75 - 125
Lead	140	F1	47.6	191		mg/Kg		111	75 - 125
Molybdenum	ND		47.6	41.2		mg/Kg		86	75 - 125
Nickel	85	F1	47.6	109	F1	mg/Kg		50	75 - 125
Selenium	2.9	J	47.6	42.6		mg/Kg		83	75 - 125
Silver	ND		23.8	19.0		mg/Kg		80	75 - 125
Thallium	0.63	J	47.6	43.0		mg/Kg		89	75 - 125
Vanadium	59		47.6	97.6		mg/Kg		82	75 - 125
Zinc	120		47.6	171		mg/Kg		110	75 - 125

Lab Sample ID: 720-91192-1 MSD **Client Sample ID: DG-S17S-0.5-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260613 **Prep Batch: 259878**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.0	F1 F2	46.7	14.3	F1 F2	mg/Kg		20	75 - 125	21	20
Arsenic	570		46.7	568	4	mg/Kg		2	75 - 125	1	20
Barium	84		46.7	136		mg/Kg		112	75 - 125	12	20
Beryllium	0.21	J	46.7	45.2		mg/Kg		96	75 - 125	1	20
Cadmium	0.45	J	46.7	43.7		mg/Kg		93	75 - 125	2	20
Chromium	71	B F1	46.7	99.0	F1	mg/Kg		60	75 - 125	2	20
Cobalt	14		46.7	57.2		mg/Kg		92	75 - 125	0	20
Copper	87		46.7	123		mg/Kg		77	75 - 125	1	20
Lead	140	F1	46.7	210	F1	mg/Kg		154	75 - 125	9	20
Molybdenum	ND		46.7	40.1		mg/Kg		86	75 - 125	3	20
Nickel	85	F1	46.7	118	F1	mg/Kg		70	75 - 125	8	20
Selenium	2.9	J	46.7	42.2		mg/Kg		84	75 - 125	1	20
Silver	ND		23.4	18.6		mg/Kg		79	75 - 125	2	20
Thallium	0.63	J	46.7	42.3		mg/Kg		89	75 - 125	2	20
Vanadium	59		46.7	103		mg/Kg		95	75 - 125	5	20
Zinc	120		46.7	156		mg/Kg		80	75 - 125	9	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259877/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260632 **Prep Batch: 259877**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		02/19/19 08:48	02/19/19 13:56	1

Lab Sample ID: LCS 720-259877/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 260632 **Prep Batch: 259877**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.832		mg/Kg		100	80 - 120

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-91192-1 MS
Matrix: Solid
Analysis Batch: 260632

Client Sample ID: DG-S17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259877

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	2.1	F1	0.746	2.55	F1	mg/Kg		61	75 - 125		

Lab Sample ID: 720-91192-1 MSD
Matrix: Solid
Analysis Batch: 260632

Client Sample ID: DG-S17S-0.5-1
Prep Type: Total/NA
Prep Batch: 259877

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	2.1	F1	0.769	3.03		mg/Kg		122	75 - 125	17	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-91192-1 DU
Matrix: Solid
Analysis Batch: 259918

Client Sample ID: DG-S17S-0.5-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.1		9.7		%		18	20

Lab Sample ID: 720-91192-20 DU
Matrix: Solid
Analysis Batch: 259923

Client Sample ID: DUP-55
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.0		8.4		%		7	20

Metals

Prep Batch: 259877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91192-1	DG-S17S-0.5-1	Total/NA	Solid	7471A	
720-91192-2	DG-S17S-3.5-4	Total/NA	Solid	7471A	
720-91192-3	DG-X19S-0.5-1	Total/NA	Solid	7471A	
720-91192-4	DG-X19S-3.5-4	Total/NA	Solid	7471A	
720-91192-5	DG-Z19S-0.5-1	Total/NA	Solid	7471A	
720-91192-6	DG-Z19S-3.5-4	Total/NA	Solid	7471A	
720-91192-7	DG-AA17S-0.5-1	Total/NA	Solid	7471A	
720-91192-8	DG-AA17S-3.5-4	Total/NA	Solid	7471A	
720-91192-9	DG-AF14S-0.5-1	Total/NA	Solid	7471A	
720-91192-10	DG-AF14S-3.5-4	Total/NA	Solid	7471A	
720-91192-11	DG-AG14S-0.5-1	Total/NA	Solid	7471A	
720-91192-12	DG-AG14S-3.5-4	Total/NA	Solid	7471A	
720-91192-13	DG-AH14S-0.5-1	Total/NA	Solid	7471A	
720-91192-14	DG-AH14S-3.5-4	Total/NA	Solid	7471A	
720-91192-15	DG-V2S-3.5-4	Total/NA	Solid	7471A	
720-91192-16	DG-U2S-3.5-4	Total/NA	Solid	7471A	
720-91192-17	DG-T2S-0.5-1	Total/NA	Solid	7471A	
720-91192-18	DG-R2S-3.5-4	Total/NA	Solid	7471A	
720-91192-19	DUP-6	Total/NA	Solid	7471A	
720-91192-20	DUP-55	Total/NA	Solid	7471A	
MB 720-259877/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259877/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-91192-1 MS	DG-S17S-0.5-1	Total/NA	Solid	7471A	
720-91192-1 MSD	DG-S17S-0.5-1	Total/NA	Solid	7471A	

Prep Batch: 259878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91192-1	DG-S17S-0.5-1	Total/NA	Solid	3050B	
720-91192-2	DG-S17S-3.5-4	Total/NA	Solid	3050B	
720-91192-3	DG-X19S-0.5-1	Total/NA	Solid	3050B	
720-91192-4	DG-X19S-3.5-4	Total/NA	Solid	3050B	
720-91192-5	DG-Z19S-0.5-1	Total/NA	Solid	3050B	
720-91192-6	DG-Z19S-3.5-4	Total/NA	Solid	3050B	
720-91192-7	DG-AA17S-0.5-1	Total/NA	Solid	3050B	
720-91192-8	DG-AA17S-3.5-4	Total/NA	Solid	3050B	
720-91192-9	DG-AF14S-0.5-1	Total/NA	Solid	3050B	
720-91192-10	DG-AF14S-3.5-4	Total/NA	Solid	3050B	
720-91192-11	DG-AG14S-0.5-1	Total/NA	Solid	3050B	
720-91192-12	DG-AG14S-3.5-4	Total/NA	Solid	3050B	
720-91192-13	DG-AH14S-0.5-1	Total/NA	Solid	3050B	
720-91192-14	DG-AH14S-3.5-4	Total/NA	Solid	3050B	
720-91192-15	DG-V2S-3.5-4	Total/NA	Solid	3050B	
720-91192-16	DG-U2S-3.5-4	Total/NA	Solid	3050B	
720-91192-17	DG-T2S-0.5-1	Total/NA	Solid	3050B	
720-91192-18	DG-R2S-3.5-4	Total/NA	Solid	3050B	
720-91192-19	DUP-6	Total/NA	Solid	3050B	
720-91192-20	DUP-55	Total/NA	Solid	3050B	
MB 720-259878/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259878/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-91192-1 MS	DG-S17S-0.5-1	Total/NA	Solid	3050B	
720-91192-1 MSD	DG-S17S-0.5-1	Total/NA	Solid	3050B	

Metals

Analysis Batch: 260613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91192-1	DG-S17S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-2	DG-S17S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-3	DG-X19S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-4	DG-X19S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-5	DG-Z19S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-6	DG-Z19S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-7	DG-AA17S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-8	DG-AA17S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-9	DG-AF14S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-10	DG-AF14S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-11	DG-AG14S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-12	DG-AG14S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-13	DG-AH14S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-14	DG-AH14S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-15	DG-V2S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-16	DG-U2S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-17	DG-T2S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-18	DG-R2S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-19	DUP-6	Total/NA	Solid	6010B	259878
720-91192-20	DUP-55	Total/NA	Solid	6010B	259878
MB 720-259878/1-A	Method Blank	Total/NA	Solid	6010B	259878
LCS 720-259878/2-A	Lab Control Sample	Total/NA	Solid	6010B	259878
720-91192-1 MS	DG-S17S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-1 MSD	DG-S17S-0.5-1	Total/NA	Solid	6010B	259878

Analysis Batch: 260631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91192-4	DG-X19S-3.5-4	Total/NA	Solid	6010B	259878

Analysis Batch: 260632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91192-1	DG-S17S-0.5-1	Total/NA	Solid	7471A	259877
720-91192-2	DG-S17S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-3	DG-X19S-0.5-1	Total/NA	Solid	7471A	259877
720-91192-4	DG-X19S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-5	DG-Z19S-0.5-1	Total/NA	Solid	7471A	259877
720-91192-6	DG-Z19S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-7	DG-AA17S-0.5-1	Total/NA	Solid	7471A	259877
720-91192-8	DG-AA17S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-9	DG-AF14S-0.5-1	Total/NA	Solid	7471A	259877
720-91192-10	DG-AF14S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-11	DG-AG14S-0.5-1	Total/NA	Solid	7471A	259877
720-91192-12	DG-AG14S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-13	DG-AH14S-0.5-1	Total/NA	Solid	7471A	259877
720-91192-14	DG-AH14S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-15	DG-V2S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-16	DG-U2S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-17	DG-T2S-0.5-1	Total/NA	Solid	7471A	259877
720-91192-18	DG-R2S-3.5-4	Total/NA	Solid	7471A	259877
720-91192-19	DUP-6	Total/NA	Solid	7471A	259877
720-91192-20	DUP-55	Total/NA	Solid	7471A	259877

Metals (Continued)

Analysis Batch: 260632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-259877/1-A	Method Blank	Total/NA	Solid	7471A	259877
LCS 720-259877/2-A	Lab Control Sample	Total/NA	Solid	7471A	259877
720-91192-1 MS	DG-S17S-0.5-1	Total/NA	Solid	7471A	259877
720-91192-1 MSD	DG-S17S-0.5-1	Total/NA	Solid	7471A	259877

Analysis Batch: 262010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91192-1	DG-S17S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-2	DG-S17S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-3	DG-X19S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-4	DG-X19S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-5	DG-Z19S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-6	DG-Z19S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-7	DG-AA17S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-8	DG-AA17S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-9	DG-AF14S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-10	DG-AF14S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-11	DG-AG14S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-12	DG-AG14S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-13	DG-AH14S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-14	DG-AH14S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-15	DG-V2S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-16	DG-U2S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-17	DG-T2S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-18	DG-R2S-3.5-4	Total/NA	Solid	6010B	259878
720-91192-19	DUP-6	Total/NA	Solid	6010B	259878
720-91192-20	DUP-55	Total/NA	Solid	6010B	259878
MB 720-259878/1-A	Method Blank	Total/NA	Solid	6010B	259878
LCS 720-259878/2-A	Lab Control Sample	Total/NA	Solid	6010B	259878
720-91192-1 MS	DG-S17S-0.5-1	Total/NA	Solid	6010B	259878
720-91192-1 MSD	DG-S17S-0.5-1	Total/NA	Solid	6010B	259878

General Chemistry

Analysis Batch: 259918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91192-1	DG-S17S-0.5-1	Total/NA	Solid	Moisture	
720-91192-2	DG-S17S-3.5-4	Total/NA	Solid	Moisture	
720-91192-3	DG-X19S-0.5-1	Total/NA	Solid	Moisture	
720-91192-4	DG-X19S-3.5-4	Total/NA	Solid	Moisture	
720-91192-5	DG-Z19S-0.5-1	Total/NA	Solid	Moisture	
720-91192-6	DG-Z19S-3.5-4	Total/NA	Solid	Moisture	
720-91192-7	DG-AA17S-0.5-1	Total/NA	Solid	Moisture	
720-91192-8	DG-AA17S-3.5-4	Total/NA	Solid	Moisture	
720-91192-9	DG-AF14S-0.5-1	Total/NA	Solid	Moisture	
720-91192-10	DG-AF14S-3.5-4	Total/NA	Solid	Moisture	
720-91192-11	DG-AG14S-0.5-1	Total/NA	Solid	Moisture	
720-91192-12	DG-AG14S-3.5-4	Total/NA	Solid	Moisture	
720-91192-13	DG-AH14S-0.5-1	Total/NA	Solid	Moisture	
720-91192-14	DG-AH14S-3.5-4	Total/NA	Solid	Moisture	
720-91192-15	DG-V2S-3.5-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259918 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91192-16	DG-U2S-3.5-4	Total/NA	Solid	Moisture	
720-91192-17	DG-T2S-0.5-1	Total/NA	Solid	Moisture	
720-91192-18	DG-R2S-3.5-4	Total/NA	Solid	Moisture	
720-91192-19	DUP-6	Total/NA	Solid	Moisture	
720-91192-1 DU	DG-S17S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 259923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-91192-20	DUP-55	Total/NA	Solid	Moisture	
720-91192-20 DU	DUP-55	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-S17S-0.5-1

Lab Sample ID: 720-91192-1
Date Collected: 02/05/19 08:00
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 10:24	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 10:24	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		4	260632	02/19/19 15:09	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-S17S-3.5-4

Lab Sample ID: 720-91192-2
Date Collected: 02/05/19 08:00
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 10:29	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 10:29	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 15:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-X19S-0.5-1

Lab Sample ID: 720-91192-3
Date Collected: 02/05/19 08:50
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 10:33	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 10:33	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:14	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-X19S-3.5-4

Lab Sample ID: 720-91192-4
Date Collected: 02/05/19 08:50
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 10:38	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		10	260631	02/19/19 14:31	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		10	262010	02/19/19 14:31	BKR	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-X19S-3.5-4

Lab Sample ID: 720-91192-4

Date Collected: 02/05/19 08:50
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:16	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-Z19S-0.5-1

Lab Sample ID: 720-91192-5

Date Collected: 02/05/19 08:30
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 10:53	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 10:53	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:18	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-Z19S-3.5-4

Lab Sample ID: 720-91192-6

Date Collected: 02/05/19 08:30
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 10:57	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 10:57	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		10	260632	02/19/19 15:11	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-AA17S-0.5-1

Lab Sample ID: 720-91192-7

Date Collected: 02/05/19 09:20
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:02	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:02	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:28	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-AA17S-3.5-4

Lab Sample ID: 720-91192-8

Date Collected: 02/05/19 09:20
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:07	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:07	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:30	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-AF14S-0.5-1

Lab Sample ID: 720-91192-9

Date Collected: 02/05/19 10:00
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:12	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:12	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:32	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-AF14S-3.5-4

Lab Sample ID: 720-91192-10

Date Collected: 02/05/19 10:00
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:16	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:16	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-AG14S-0.5-1

Lab Sample ID: 720-91192-11

Date Collected: 02/05/19 10:10
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:21	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:21	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:37	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Brisbane OU-2 Data Gap Investigation

Job ID: 720-91192-1

Client Sample ID: DG-AG14S-0.5-1

Lab Sample ID: 720-91192-11

Date Collected: 02/05/19 10:10
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-AG14S-3.5-4

Lab Sample ID: 720-91192-12

Date Collected: 02/05/19 10:10
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:26	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:26	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-AH14S-0.5-1

Lab Sample ID: 720-91192-13

Date Collected: 02/05/19 10:20
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:31	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:31	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-AH14S-3.5-4

Lab Sample ID: 720-91192-14

Date Collected: 02/05/19 10:20
Matrix: Solid
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:35	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:35	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-91192-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-V2S-3.5-4 — Lab Sample ID: 720-91192-15

Date Collected: 02/05/19 11:30 — **Matrix: Solid**
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:50	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:50	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		10	260632	02/19/19 15:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-U2S-3.5-4 — Lab Sample ID: 720-91192-16

Date Collected: 02/05/19 11:35 — **Matrix: Solid**
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:55	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:55	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		10	260632	02/19/19 15:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-T2S-0.5-1 — Lab Sample ID: 720-91192-17

Date Collected: 02/05/19 11:40 — **Matrix: Solid**
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 11:59	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 11:59	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DG-R2S-3.5-4 — Lab Sample ID: 720-91192-18

Date Collected: 02/05/19 11:50 — **Matrix: Solid**
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 12:04	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 12:04	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 14:57	MAG	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-91192-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-R2S-3.5-4 Lab Sample ID: 720-91192-18

Date Collected: 02/05/19 11:50 **Matrix: Solid**
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DUP-6 Lab Sample ID: 720-91192-19

Date Collected: 02/05/19 00:00 **Matrix: Solid**
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 12:09	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 12:09	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 15:00	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259918	02/06/19 14:40	TNL	TAL PLS

Client Sample ID: DUP-55 Lab Sample ID: 720-91192-20

Date Collected: 02/05/19 00:00 **Matrix: Solid**
Date Received: 02/05/19 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	260613	02/19/19 12:14	OBI	TAL PLS
Total/NA	Prep	3050B			259878	02/15/19 11:08	GLL	TAL PLS
Total/NA	Analysis	6010B		4	262010	02/19/19 12:14	BKR	TAL PLS
Total/NA	Prep	7471A			259877	02/19/19 08:48	MAA	TAL PLS
Total/NA	Analysis	7471A		1	260632	02/19/19 15:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259923	02/06/19 15:09	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91192-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-91192-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-91192-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-91192-1	DG-S17S-0.5-1	Solid	02/05/19 08:00	02/05/19 18:50
720-91192-2	DG-S17S-3.5-4	Solid	02/05/19 08:00	02/05/19 18:50
720-91192-3	DG-X19S-0.5-1	Solid	02/05/19 08:50	02/05/19 18:50
720-91192-4	DG-X19S-3.5-4	Solid	02/05/19 08:50	02/05/19 18:50
720-91192-5	DG-Z19S-0.5-1	Solid	02/05/19 08:30	02/05/19 18:50
720-91192-6	DG-Z19S-3.5-4	Solid	02/05/19 08:30	02/05/19 18:50
720-91192-7	DG-AA17S-0.5-1	Solid	02/05/19 09:20	02/05/19 18:50
720-91192-8	DG-AA17S-3.5-4	Solid	02/05/19 09:20	02/05/19 18:50
720-91192-9	DG-AF14S-0.5-1	Solid	02/05/19 10:00	02/05/19 18:50
720-91192-10	DG-AF14S-3.5-4	Solid	02/05/19 10:00	02/05/19 18:50
720-91192-11	DG-AG14S-0.5-1	Solid	02/05/19 10:10	02/05/19 18:50
720-91192-12	DG-AG14S-3.5-4	Solid	02/05/19 10:10	02/05/19 18:50
720-91192-13	DG-AH14S-0.5-1	Solid	02/05/19 10:20	02/05/19 18:50
720-91192-14	DG-AH14S-3.5-4	Solid	02/05/19 10:20	02/05/19 18:50
720-91192-15	DG-V2S-3.5-4	Solid	02/05/19 11:30	02/05/19 18:50
720-91192-16	DG-U2S-3.5-4	Solid	02/05/19 11:35	02/05/19 18:50
720-91192-17	DG-T2S-0.5-1	Solid	02/05/19 11:40	02/05/19 18:50
720-91192-18	DG-R2S-3.5-4	Solid	02/05/19 11:50	02/05/19 18:50
720-91192-19	DUP-6	Solid	02/05/19 00:00	02/05/19 18:50
720-91192-20	DUP-55	Solid	02/05/19 00:00	02/05/19 18:50

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91192

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1883807

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaffman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahntas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91192 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1. DG-S17s-0.5-1	5 Feb. 2019	0800	G	S	1	N		X	
2. DG-S17s-3.5-4		0800							
3. DG-X19s-0.5-1		0850							
4. DG-X19s-3.5-4		0850							
5. DG-Z19s-0.5-1		0830							
6. DG-Z19s-3.5-4		0830							
7. DG-AA17s-0.5-1		0920							
8. DG-AA17s-3.5-4		0920							
9. DG-AF14s-0.5-1		1000							
10. DG-AF14s-3.5-4		1000							
11. DG-AG14s-0.5-1		1010							
12. DG-AG14s-3.5-4		1010							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.1°C, 0.3°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No. ____

Relinquished by	Company Geosyntec	Date/Time 1630 5 Feb. 2019	Received by	Company TA-PLS	Date/Time 2-5-19 16:26
Relinquished by	Company TA-PLS	Date/Time 2-5-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 2-5-19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720 - 9192

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188307

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Ekstrom
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	12. DG-AH14s-0.5-1	5 Feb. 2019	1020	G	S	1	N		X	
14	13. DG-AH14s-3.5-4		1020							
15	14. DG-V2s-3.5-4		1130							
16	15. DG-U2s-3.5-4		1135							
17	16. DG-T2s-0.5-1		1140							
18	17. DG-R2s-3.5-4	↓	1150	↓	↓	↓	↓		↓	
	~~18.~~									
	~~19.~~									
	~~20.~~									
19	18. DUP-6	5 Feb. 2019	—	G	S	1	N		X	
20	19. DUP-55	↓	—	↓	↓	↓	↓		↓	

2/5/19

2/5/19

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C) Obs'd ____ Corr'd: ____		Therm ID No ____
Relinquished by	Company Geosyntec	Date/Time 1630 5 Feb 2019	Received by	Company TA PLS	Date/Time 2-5-19 16:30
Relinquished by	Company TA PLS	Date/Time 16:30 2-5-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 2/5/19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-91192-1

Login Number: 91192
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

April 3, 2019

Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Re: Results Revision – Thallium via 200.7/6010B

Dear Mr. Krys Jesionek:

It is the policy of TestAmerica to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

This letter is to inform you that we recently discovered a quantitation error in the results reported by the TestAmerica Pleasanton laboratory for Thallium analyzed via 6010B in support of the Brisbane OU-2 Data Gap Investigation Project. Due to an analyst error, an incorrect Inter-Element Correction (IEC) was used for sample analysis on one of our ICP-AES instruments used for this analysis. This error was not identified during the review of the sample data, and, as a result, the reported concentrations were incorrect. Listed below is a summary of the affected samples with the original and revised results.

Lab ID	Sample Name	Original Result (mg/Kg)	Corrected Result * (mg/Kg)
720-91192-A-10-B	DG-AF14S-3.5-4	19	0.77 J
720-91192-A-11-B	DG-AG14S-0.5-1	20	0.90 J
720-91192-A-12-B	DG-AG14S-3.5-4	49	1.6 J
720-91192-A-13-B	DG-AH14S-0.5-1	10	0.96 J
720-91192-A-14-B	DG-AH14S-3.5-4	17	0.45 J
720-91192-A-15-B	DG-V2S-3.5-4	24	ND
720-91192-A-16-B	DG-U2S-3.5-4	24	0.62 J
720-91192-A-17-A	DG-T2S-0.5-1	11	0.74 J
720-91192-A-18-B	DG-R2S-3.5-4	7.5	0.40 J
720-91192-A-19-B	DUP-6	9.4	ND
720-91192-A-1-F	DG-S17S-0.5-1	23	0.63 J
720-91192-A-20-B	DUP-55	33	1.1 J
720-91192-A-2-B	DG-S17S-3.5-4	17	0.69 J
720-91192-A-3-B	DG-X19S-0.5-1	8.1	1.0 J
720-91192-A-4-B ^10	DG-X19S-3.5-4	22	1.5 J

Lab ID	Sample Name	Original Result (mg/Kg)	Corrected Result * (mg/Kg)
720-91192-A-5-B	DG-Z19S-0.5-1	22	ND
720-91192-A-6-B	DG-Z19S-3.5-4	23	ND
720-91192-A-7-C	DG-AA17S-0.5-1	18	0.46 J
720-91192-A-8-B	DG-AA17S-3.5-4	37	2.1
720-91192-A-9-B	DG-AF14S-0.5-1	18	ND

* ND values are ND at the same RL originally reported.

The test report associated with these samples will be revised to reflect the corrected values upon your request.

As the corrective action for this issue, the IECs have been corrected to the last available IECs, and data was reprocessed or the samples were re-analyzed.

We recognize the need for accurate, consistent laboratory analysis and reporting in regards to meeting project requirements, and we apologize for any difficulties this error may have caused. If you have any questions regarding this matter, need assistance discussing this issue with your regulatory agency, or have further items you would like to discuss with the laboratory, please feel free to contact me at (925) 484-1919 or via email at melissa.brewer@testamericainc.com.

Sincerely,

Melissa A Brewer

Melissa Brewer
Quality Assurance Manager